A manual of British coleoptera, or beetles. Containing a brief description of all the species of beetles hitherto ascertained to inhabit Great Britain and Ireland; together wth a notice of their chief localities, times and places of appearances, etc / by James Francis Stephens.

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A

MANUAL

OF

BRITISH COLEOPTERA,

OR

BEETLES;

CONTAINING

A BRIEF DESCRIPTION OF ALL THE SPECIES OF BEETLES
HITHERTO ASCERTAINED TO INHABIT
GREAT BRITAIN AND IRELAND;

TOGETHER WITH

A NOTICE OF THEIR CHIEF LOCALITIES, TIMES AND
PLACES OF APPEARANCES, ETC.

BY

JAMES FRANCIS STEPHENS, F.L.S. &c.
MEMBER OF THE ENTOMOLOGICAL SOCIETY OF LONDON;
AUTHOR OF "ILLUSTRATIONS OF BRITISH ENTOMOLOGY," "A SYSTEMATIC CATALOGUE OF BRITISH INSECTS," "THE NOMENCLATURE OF BRITISH INSECTS," ETC. ETC.

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INTRODUCTION.

When the question respecting the copyright of my "Illustrations" was under discussion, I was strongly urged by my publishers to undertake an abridgment of them, in order to guard against a recurrence of the evil of which I then complained; acting upon that recommendation, I proceeded to some extent to abridge the above work; but, in consequence of resuming the publication thereof, I abandoned my design, until it should be completed: circumstances wholly uncontrollable by me, however, unfortunately *suspended* its appearance. I then gradually renewed my labours with regard to the abridgment, until within these few months, when a work of a similar nature was announced as being in course of preparation; and, well knowing that such an attempt could not be made without drawing largely from my "Illustrations," I proceeded with greater rapidity with my labours, made the requisite arrangements, and my intention of publishing was declared:—the present Volume is the primary consequence; and it is proposed to add three or four others, in which all the hitherto discovered British Insects will be concisely described, so far as my own collections and those of my friends will afford materials. The subject is, however, so vast, and the objects frequently so minute, that numerous species will doubtless remain for the present, if not for ever, undetected; although I have been unremitting in my endeavours, during the past thirty years, to render my collections as complete as possible, and have amassed by far the largest collection of indigenous insects that has ever been formed, consisting of nearly 100,000 specimens in their various stages, as shown by the following enumeration, taken during the last winter:—

	Species about	Specimens No.	Drawers.
Coleoptera*	3,320	26,109 compressed in	28
Dermaptera	7	48	2
Orthoptera	59	326	
Neuroptera	223	1,066	7
Trichoptera	177	620	3
Hymenoptera	2,960	21,122	28
Strepsiptera	2	2	
Lepidoptera	1,825	14,477	56

* Several apparent species are still unnoticed in this Manual.

	Species about	Specimens No.	Drawers.
Diptera	2,450	11,546 } compressed in 20	
Homaloptera	10	46 }	
Aphaniptera	14	26 }	1
Aptera	154	360 }	
Hemiptera	346	2,720	4
Homoptera	351	1,984	2
	11,898	80,452	151
Ametabola	94	260	1
Crustacea, Arachnoida, Acari, Myriapoda	457	1,470	21
	12,449	82,182	173
Metamorphoses about	-	6,000	20
Total	12,449	88,182	193

In this collection are included, in fine condition, *the original specimens* described in the "*Coleoptera Britannica*" of Marsham, and also by far the greater portion of those subsequently named or monographed by Kirby, Leach, &c., throughout the different orders, as well as of *all* the obscure species described by Haworth in "*Lepidoptera Britannica*," and many of the rarer ones figured by Donovan: to which may be added a copious selection, regardless of cost, from Francillon's and other collections, exclusively of those above alluded to, and of entire collections privately purchased, that have been disposed of at various periods during the past twenty-five years.

With such ample resources, therefore, I indulge a hope that they will enable me to give a more complete synopsis of the British species of insects than can possibly be effected by any other individual at the present time, except by infringing upon my labours. Though immense as the above statement appears, it may be perceived by the following pages that above 150 truly indigenous species of Coleopterous insects (or *Beetles*) are still desiderated by me; of which a corrected list is inserted at the termination of this Introduction.

Referring more immediately to the present work, the object of which is to render a knowledge of the delightful science of Entomology more generally accessible, by enabling the student (at a reasonable cost) to obtain the names of his insects, and thereby to register more conveniently any facts that he may observe with respect to their economy, &c., than when in ignorance of them; and, regard being had, at the same time, to portability, the descriptions are drawn up as concisely as appears compatible with the great extent of the subject; all minor points being necessarily left to be obtained from the original works, as referred to under each individual species; and as a means of rendering the present series of volumes

more compact, numerous contractions of parts (as *ant.* antennæ, *tho.* thorax, &c.) have been employed.

In drawing up the descriptions, the leading characters have been chiefly attended to, though in some instances, perhaps, more detail than necessary has probably been introduced; it is, however, hoped that enough is generally stated to enable the species to be recognised. The principal localities are appended to each species, as well as the kinds of places, or food, in or upon which they are found; except amongst the Adephaga, of which the species of the first section (*Geodephaga*) are mostly found beneath stones, clods, roaming about, &c.; while those of the second (*Hydradephaga*), as well as the majority of the Philhydrida, occur in water: the figures after the localities indicate the months in which the insect most abounds; and those species to which this mark ⊙ is attached, are to be found at all times, whilst the * denotes some of the most universally distributed and abundant kinds.

The genera and species included in parentheses are such as appear to have been improperly introduced into the British lists; and the species of questionable distinction are in most instances recorded as varieties of the one they seem allied to, but with a distinctive name.

In my "Illustrations" I have described 3646 species of Beetles as distinct, whereas only 3470 occur in the present work (132 of which are in parentheses); arising from many of the *supposed species* having been referred, as varieties or sexes, to their respective types, as above alluded to; especially amongst the Rhynchophora and the Brachelytra: the former in most instances in accordance with the practical observations of Mr. Walton, and the latter from those of the Rev. G. T. Rudd, the results being kindly communicated to me, accompanied with hundreds of typical examples, for the purpose of authentication. To the above gentlemen in particular, therefore, as well as to my other friends who have assisted me in my present undertaking, I beg to return my warmest acknowledgments for their obliging favours.

As to the Nomenclature, I have endeavoured to ascertain and to to employ the oldest names, and in all instances to refer to the author of the same, when known to me: in the following pages, therefore, the *MSS names* of the species are distinguished by having no figures appended to those of their authors. I have also referred to a figure of each species, where I had the means at hand; though from want of some of the illustrated works I have unfortunately been compelled to omit a few references to figures that I have seen since the body of the work was printed.

The following is a revised list of the species of Beetles wanting to complete my collection to the present time; viz. —

1 *Dromius Sigma*.
1 Lebia turcica.
2 Lebia ephippium.
2 *Scarites Beckwithii*.

3 *Oxygnathus anglicanus.*
4 *Aristus? fulvipes.*
5 *Cychrus elongatus.*
6 *attenuatus.*
7 Carabus *agrestis.*
8 *Lippii.*
3 hortensis.
4 Helobia lata.
5 Leistus nigricans.
6 indentatus.
7 Trimorphus Erro.
8 Licinus cassideus*.
9 Chlænius sulcicollis.
9 *xanthopus.*
10 Calathus apicalis.
10 *flavipes.*
11 Omaseus tetricus.
11 *Cophosus elongatus.*
12 *Pterostichus Panzeri.*
12 Blemus pallidus.
13 longicornis.
14 Pelophila borealis.
13 *Colymbetes cicur.*
15 Agabus serricornis.
16 Cybister Roeselii.
17 Dryops Dumerilii.
18 Silpha Griesbachiana.
14 *Agyrtes castaneus.*
15 *Peltis ferruginea.*
19 Micropeplus Tesserula.
20 Phloïophilus Cooperi.
21 bimaculatus.
22 Tetratoma Ancora.
23 picta.
4 Ecanus glaber.
6 *Cucujus depressus.*
25 Colydium elongatum.
26 Teredus nitidus.
27 Lissodema Heyana.
28 Tiresias plantaris.
29 Attagenus 3-fascicatus.
30 Syncalypta setigera.
31 Dendrophilus Sheppardi.
32 Cooperi.
17 *Onthophilus austriacus.*
33 Bolbocerus 4-dens.
34 Aphodius Scrutator.*
18 *fœtens.*
19 *4-guttatus.*
35 Trox hirtosus.
36 Rhisotrogus Fallenii.
37 Melolontha Hippocastani.
20 *Anisoplia austriaca.*
38 Anomala Donovani.
39 Chrysobothris affinis.
40 Dicerca ænea.
41 Melanophila tarda.
42 Buprestis splendens *
21 *Anthraxia 4-punctata.*
43 Agrilus n. s.?
44 Microrhagus pygmæus.
22 *Cerophytum elateroides.*
45 Limonius nigrinus.
46 Agrypnus fasciatus.*
47 varius.
23 *Drasterius 2-maculatus.*
48 Ctenicerus castaneus.*
49 Selatosomus cruciatus.*
50 Athoüs campyloides.
24 *Dictyopterus festivus.*
25 *Telephorus violaceus.*
51 Ragonycha fulvicollis.
26 *Malachius pedicularius.*
52 thoracicus.
53 equestris.
54 humeralis.
27 *Aplocnema floralis.*
55 Lymexylon navale.
56 Hylecætus Dermestoides.*
28 *Sinoxylon 2-spinosum.*
29 *Rhyzopertha cincta.*
57 Baris analis.
58 Orchestes Loniceræ.
59 Balaninus Crux.
60 Pissodes notatus.
30 *Dorytomus dorsalis.*
31 *Hylobius pinastri.*
32 *Otiorhynchus giraffa.*
33 *Brachyderes incanus.*
61 Lixus Ascanii.*
62 Apion glabratum.
63 Rhynchites cœruleocephalus.
34 *Apoderus Coryli.*
64 Spondylis buprestoides.
65 Cerambyx Cerdo.*
66 Monochamus Sartor.
35 *Purpuricenus Kohleri.*
36 *Elaphidion litteratus.*
67 Saperda Tremulæ.*
37 *Callidium dilatatum.*
38 *undatum.*
39 *luridum.*
40 *Tritomacrus testaceus.*
41 *Clytus plebeius.*
42 *erythrocephalus.*
43 *Necydalis major.*
44 *Leptura rubrotestacea.*
45 *atra.*
46 *virginea.*
47 *Macropleä Equiseti.*
48 *Orsodacna cantharoides.*
68 Haltica consobrina.
69 Kirbii.
49 *Colaspis flavicornis.*
70 Eumolpus Badgeri.
71 Clythra longipes.*
72 Hordei.*
50 *Melosoma Lapponica.*
51 Chrysomela *sanguinolenta.*
73 violacea.*
74 carnifex.
75 lurida.
76 festa.
52 *festiva.*
77 Adonidis.
78 Coccinella lateralis.
53 *marginepunctata.*
54 *3-fasciata.*
55 *impunctata.*
79 Tenebrio lævis.
56 *Trachyscelis Aphodioides.*
57 *Diaperis Hydni.*
80 Platydema 1-striata.
58 *Misolampus Pimelia.*
59 *Helops quisquilius.*
81 Cistela nigrita.
82 Omophlus Amerinæ.
60 *Megischia curvipes.*
83 Melandrya canaliculata.
61 *Xilita buprestoides.*
84 Dircæa variegata.
85 Abdera picea.
86 Scraptia fusca.
87 Orchesia fasciata.
62 *Mordella brunnea.*
63 *Ischnomera viridissima.*
64 Œdemera *sanguinicollis.*
88 marginata.*
65 *Podagrariæ.*
89 Nothus anceps.
90 Xilophilus populneus.
66 *Anthicus pedestris.*

67 *Mastigus palpalis.*
91 Scydmænus Wighami.
68 *Tyrus mucronatus.*
92 Euplectus? Easterbrookianus.
93 Claviger foveolatus.
94 Tachyusa constricta.
95 Bolitochara dissimilis.
69 *lucida.*
96 Placusa pumilio.
97 Atemeles strumosus.
70 *Lomechusa emarginata.*
98 Dinarda dentata.
99 Diglossa mersa.
71 *Gymnusa brevicollis.*
100 Tachyporus formosus.
101 Bolitobius Simpsoni.
102 Megacronus elegans.
103 Creophilus ciliaris.
104 Goërius macrocephalus.
105 erythropus.
106 Euryporus picipes.
107 Astrapæus rufipennis.
108 Quedius seminitidus.
109 Philonthus coxatus.
110 cyanipennis.
111 impressicollis.
112 Othius Scoticus.
113 Medon Ruddii.
114 Pseudopsis sulcatus.

I consider the 114 species above recorded to be really indigenous; and of that number I believe 63 to be unique: of those to which a * is annexed I possess *foreign* specimens; but for *British* examples of those, or of any of the above-mentioned insects, I shall be very thankful, and will endeavour to make suitable returns to the donors. The 71 species printed in italics are presumed to be foreign. In the body of the work, the † denotes those insects wholly wanting to my collection; and the ‡, such indigenous ones as I possess foreign specimens of alone.

In conclusion, I have to remark that my collections are thrown open for inspection, &c., to any gentleman, upon the presentation of his card, every *Wednesday evening*, at which time I shall be happy to receive my entomological friends as usual.

J. F. S.

Eltham Cottage,
Foxley Road, Kennington,
15th *October*, 1839.

ERRATA ET CORRIGENDA.

Page 1. line 4. from bottom, after "*ant.* slender, setaceous," add "or short, clavate."
61. lines 2. and 6. from bottom, for "10-jointed," read "indistinctly 11-jointed."
113. NECROPHORUS.
902. Sepultor *Gyll.* — is N. vestigator *Erichson.*
903. interruptus *Step.* — is fossor *Erich.*
904. vestigator *Hersch.* ? — is ruspator *Erich.*
905. obrutor *Erich.* — is Sepultor *Charp.*

The nomenclature, therefore, of these 4 species in order of priority should stand thus : —
902. vestigator *Hersch.* ? — Ne. Sepultor *Ste. Man.* 902.
903. interruptus *Ste. Man.* 903. — Ne. fossor *Erich.*
904. ruspator *Erich.* — Ne. vestigator *Ste. Man* 904.
905 Sepultor *Charp. H. E.* 201. — Ne. obrutor *Erich.* — *Ste. Man.* 905.

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A MANUAL

OF

BRITISH COLEOPTERA,

OR

BEETLES.

Beetles are distinguished from other Insects by having usually 2 membranaceous (posterior) wings folded longitudinally and transversely during repose, and concealed by a pair of elytra (anterior wings or wing-cases) of a horny or leathery texture, united down the back by a straight suture: — they have also the mouth armed with transversely moveable jaws (mandibles), and with 4 or 6 palpi.

Obs.— Many genera among the *Carabidæ*, *Curculionidæ*, *Cantharidæ*, &c., are destitute of wings: — some, as *Cychrus*, *Blaps*, many of the *Curculionidæ*, &c., have the elytra soldered together: — others, as *Molorchus*, *Sitaris*, &c., have the wings exposed, or have the elytra divaricating, narrowed at the tip, abbreviated, &c.: other exceptions likewise occur.

§ 1. ADEPHAGA *Clairville.*

Mouth with 6 *palpi*; one pair attached to the labium (or under lip), two to the maxillæ: the superior portion of the *maxillæ* scaly, the internal edge ciliated, its tip armed with a jointed or simple claw: *mentum* (chin) large, horny, nearly semicircular, deeply notched anteriorly, the notch often furnished with a tooth in the middle: *tarsi* (feet) with 5 joints.

Stirps 1. Geodephaga *MacLeay.*

Legs long, and formed for running, the 4 hinder being placed at equal distances apart, and capable of horizontal and vertical motions; the pectoral laminæ into which they are inserted being of moderate size: *body* oblong, rarely ovate: *ant.* long, slender, filiform, or setaceous: *eyes* prominent: *mand.* not concealed by the labrum (upper lip): inner *max. palpi* with 1 or 2 joints, outer with 4; *lab. palpi* with 3 or 4 joints.

Stirps 2. Hydradephaga *MacLeay.*

Legs short, and formed for swimming, the hinder pair remote from the others, and capable of a horizontal motion only, the pectoral laminæ into which they are inserted being large: *body* ovate, rarely oblong: *ant.* slender, setaceous: *eyes* slightly prominent: *mand.* with the tip only exposed: *hook* at the tip of the maxillæ curved at the base: *tho.* broader than long — 4 posterior *tibiæ* (shanks) and *tarsi* generally compressed and fringed with hair.

§ 2. RYPOPHAGA *Stephens.*

Mouth with 4 *palpi*, 2 labial and 2 maxillary; the inner maxillary being represented by the outer lobe of the maxilla, which is generally dilated, and sometimes jointed, but rarely palpiform: *ant.* clavate (clubbed), or gradually thickening from the base to the apex: *tarsi* mostly with 5 joints; in some cases the posterior pair are only 4-jointed.

Stirps 1. PHILHYDRIDA *MacLeay.*

Mand. small, rarely exserted: *max. palpi* usually 4-jointed: *max.* with the outer lobe generally jointed: *body* mostly short, convex, or rounded on the back: *elytra* covering the abdomen: hinder *legs* sometimes formed for swimming, but in the less typical families for walking: *ant. tibiæ* often spinose.

Stirps 2. NECROPHAGA *MacLeay.*

Mand. generally exserted and elongate: *max. palpi* with the basal joint minute, or wanting, thence appearing 3-jointed: *max.* with a double membranaceous process, the outer lobe often slender, somewhat linear; rarely jointed: *body* more or less elongate, depressed; *elytra* frequently abbreviated: *legs* all formed for walking; *anter. tibiæ* simple.

Stirps 3. BRACHELYTRA *MacLeay.*

Mand. strong, seldom exserted: *palpi* generally filiform or subulated, rarely clavate; maxillary 4-jointed, labial 3-jointed; their terminal joint sometimes extremely minute or evanescent: *max.* with the tip often bifid, the outer lobe longest, acute, palpiform: *body* very long and narrow, with 2 vesicles at the tip: *elytra* considerably abbreviated, rarely covering half of the abdomen: *legs* formed for walking, anterior pair with elongate coxæ: *ant.* usually moniliform, slightly thickened at the tip.

§ 3. VARICORNES *Stephens.*

Palpi 4, 2 labial and 2 maxillary, the inner maxillary pair wanting: *head* not produced into a rostrum in front: *tarsi* almost universally 5-jointed *ant.* various.

Stirps 1. HELOCERA *Dumeril.*

Ant. more or less clavate, the tip sometimes rather abruptly slender, the joints unequal, the basal joint occasionally half the entire length: *tho.* often with a groove beneath to receive the antennæ: *legs* more or less compressed, capable of being closely applied to the *body*, on the sides of which are usually excavations for receiving them: *sternum* often produced in front and concealing the mouth beneath: *body* more or less globose and convex, or quadrate and depressed.

Stirps 2. LAMELLICORNES *Latreille.*

Ant. clavate, the club composed of 3, or more, lamellæ, or pectinations, the basal joint sometimes half the entire length: *legs* slender and elongate, or shortish and stout, mostly formed for digging: *tibiæ* externally dentate and spinulose.

Stirps 3. STERNOXI *Latreille.*

Ant. filiform, rarely thickened at the tip; pectinated or serrated, or with the joints towards the apex slightly produced: *sternum* armed with a spine, the tip of which is received into a cavity in the middle of the breast: *body* often elliptic, conic, or trigonate, sometimes elongate: *head* short, deeply inserted in the *thorax*, which has the hinder angles acute: *legs* short, capable of being closely applied to the body.

Stirps 4. MALACODERMA *Latreille.*

Ant. mostly elongated, more or less serrated, or pectinated; often with 3 terminal joints more robust (sometimes considerably, and suddenly elongated); or clavate, the club composed of compactly united joints: *head* nutant, in rare instances slightly produced in front; in general deeply inserted in the *thorax*, which is more or less semicircular or cylindric: *body* soft and depressed, or of a firm consistence and more or less cylindric and elongate: *legs* rather long; *tarsi* rarely 4-jointed.

§ 4. PSEUDOTETRAMERA *Westwood.*

Palpi 4, 2 labial and 2 maxillary, sometimes minute: *head* produced in front into a rostrum, with the mouth at its apex, and the *ant.* (9 to 12-jointed) more or less clavate; or *head* not rostrated, *ant.* 11 or 12-jointed, filiform or setaceous, occasionally serrated: *labium* more or less heart-shaped, occasionally entire: *tarsi* 5-jointed, the 4th joint exceedingly minute, and concealed by the 3rd.

Stirps 1. RHINCHOPHORA *Latreille.*

Head produced in front into a rostrum, with the mouth at the apex: *palpi* minute: *labrum* wanting, or obsolete: *mand.* generally small, stout: *ant.* inserted on the rostrum, mostly clavate, the basal joint usually elongate; *funiculus* (the joint between the basal one and the club) slender: *body* short, firm, hard: *abdomen* mostly robust.

Stirps 2. LONGICORNES *Latreille.*

Head not produced in front into a rostrum: *palpi* conspicuous: *labrum* more or less conspicuous, rarely obsolete: *mand.* generally large, robust: *ant.* filiform, or setaceous, more or less elongate, sometimes very long and slender: *body* more or less elongated, convex, or slightly depressed: *eyes* generally lunate.

Stirps 3. EUPODA *Latreille.*

Head not produced in front into a rostrum; deeply inserted into the *thorax*, which is mostly cylindric,-narrower than the *elytra*; the latter elongate, sometimes depressed: *body* generally elongate; *palpi* and *labrum* conspicuous: *labium* generally entire: *mand.* short, entire, or bifid: *ant.* not longer than the head and thorax, somewhat filiform, sometimes a little thickened at the tip: *eyes* entire, rarely emarginate: *hinder femora* more or less clavate and elongate, sometimes toothed.

Stirps 4. CYCLICA *Latreille.*

Head not produced in front into a rostrum, frequently concealed beneath the front of the *thorax*, which last is often as broad at the base as the *elytra*; the latter occasionally shorter than the *body*, which is oval, or ovoid more or less globular, rarely elongate: *ant.* filiform, or slightly thickening to the apex: *palpi* incrassated in the middle: *labrum* distinct: *labium* thick, square, or oval, entire or faintly notched: *eyes* simple: *legs* moderate: *femora* subequal, or the hinder pair very much thickened.

§ 5. PSEUDOTRIMERA *Westwood.*

Palpi 4, 2 labial and 2 maxillary: *body* hemispheric, or oval: *ant.* short, gradually thickening to the apex, or abruptly clavate: *palpi* short, filiform, or with the terminal joint enlarged: *head* not produced anteriorly, deeply inserted into the *thorax*, which is short and transverse, or some-

what quadrate and flat: *elytra* arched, very convex, and covering the *abdomen*, which is ample, mostly flat beneath: *legs* short; *tarsi* 4-jointed, the 3d joint exceedingly minute, concealed within the 2d.

§ 6. HETEROMERA *Latreille.*

Palpi 4, 2 labial and 2 maxillary: *labrum* distinct: *mand.* horny, inner edge with 1 or 2 teeth, and furnished with a fleshy lobe: *mentum* distinct; *labium* leathery and pilose: *ant.* various, never laminated, or with a pectinated head: *legs* various: *tarsi* heteromerous; that is, the 4 anterior 5-jointed, the 2 posterior 4-jointed: the latter in rare instances pentamerous.

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§ 1. Stirps 1. GEODEPHAGA.

Family 1 CICINDELIDÆ. *Max.* armed with a moveable claw at the tip: *labrum* somewhat 3-angular, horny: *mand.* strong, furnished with acute teeth: *labium* minute; *lab. palpi* hairy, 3-jointed, with a moveable base: *legs* long, slender; *anter. tibiæ* not notched on the inner side: *ant.* filiform; *eyes* very prominent.

Fam. 2 BRACHINIDÆ. *Max.* with a fixed claw at the tip: *labrum* linear, sometimes notched, rarely 3-lobate: *labium* exserted: *lab. palpi* 4-jointed, the basal joint fixed: *legs* moderate; *anter. tibiæ* with a notch on the inner side before the tip; *anter. tarsi* rarely dilated in the males (♂): *elytra* abruptly truncated, shorter than the abdomen: *ant.* filiform.

Fam. 3 SCARITIDÆ. *Max.* with a fixed claw at the tip: *elytra* entire, not truncated: *abdomen* remote from the thorax: *labrum* short, sometimes 3-lobate; *labium* short; *lab. palpi* 4-jointed, basal joint fixed: *legs* moderate; *anter. tibiæ* deeply notched within, and mostly expanded and palmated externally; *anter. tarsi* simple in both sexes: *ant.* moniliform.

Fam. 4 CARABIDÆ. *Max.* with a fixed claw at the tip: *elytra* entire, not truncated: *anter. tibiæ* slender, not notched within; *anter. tarsi* greatly dilated in the males: *labrum* lobate, rarely simple: *labium* generally with a tooth on its upper margin; *lab. palpi* 4-jointed, basal joint fixed: *mentum* large, produced in the centre: *ant.* slender, somewhat elongate, linear or setaceous.

Fam. 5 HARPALIDÆ. *Max.* with a fixed claw at the tip: *elytra* entire, or slightly notched behind: *anter. tibiæ* not palmated, notched on the inner side; *anter. tarsi* more or less dilated in the males: *labrum* generally quadrate: *mand.* slightly toothed within, acute: *labium* quadrate, not toothed, furnished with a process on each side; *lab. palpi* 4-jointed, basal joint fixed: *mentum* deeply notched, notch sometimes bifid, or armed with a tooth: *body* elongate; *neck* rarely distinct.

Fam. 6 BEMBIDIIDÆ. *Max.* with a fixed claw at the tip: *elytra* entire: *anter. tibiæ* not palmated, their inner edge notched: *anter. tarsi* with one or more dilated joints in the males: *labrum* transverse: *labium* quadrate: external *max.* and *lab. palpi* with the terminal joint minute: *mentum* notched: *ant.* filiform.

Fam. 7 ELAPHRIDÆ. *Max.* with a fixed claw at the tip: *elytra* entire: *anter. tibiæ* not palmated, without a notch on the side, but slightly notched at the apex: *anter. tarsi* not dilated in the males: *labrum* entire: *mand.* simple: *lab. palpi* 4-jointed, apical joint tumid, basal fixed: *mentum* notched, with a bifid central tooth: *ant.* short, stout.

Family 1. CICINDELIDÆ *Leach.*

Genus i. CICINDELA. *Anter. tarsi* of the ♂ (male) with three dilated joints, of the ♀ (female) simple: *elytra* oblong, ovate, depressed (with

discolorous markings): *tho.* somewhat quadrate; rarely a little cylindrical.

Genus 1. CICINDELA *of Authors.*

1 sylvatica *L.* vol. ii. p. 658. — *Sam.* pl. 3. f. 8. — *Ste. M.* i. 7. — Above brown, with purplish tints: elytra with a crescent at the shoulder, a narrow, flexuous, reflexed stripe in the middle, and a spot near the tip, whitish; upper lip black. (Length 7-8 lines.) Sandy heaths: Cobham, Weybridge, Godalming, &c. Surrey; Christchurch, &c. Hants; Martlesham, Aldborough, &c. Suffolk: 4-7.

2 maritima *De J. S.* i. 52. — Ci. hybrida *Sow. B. M.* i. pl. 18. — *Ste. M.* i. 8. — Above purplish-copper: elytra with a crescent at the shoulder and at the tip, and a flexuous, very much deflexed, central band, cream-white. (L. 6-7 l.) Sandy coasts: Deal to Ramsgate, Kent; Southend, Essex; Swansea, Glam.; Scotland, &c.: 3-9.

3 hybrida *L.* ii. 657. — *De J. S.* i. pl. 4. f. 1. — Ci. aprica *Ste. M.* i. 8. — Above greenish-copper, or purplish: elytra rather convex, with a crescent at the shoulder and tip, and a slightly waved, abrupt, central band, cream-colour. (L. 6-7½ l.)

Var. Ci. riparia *Meg.* — *Ste. M.* i. 9. pl. 1. f. 1. — Narrower and darker with the central band on the elytra nearly straight. Sandy coasts of N. Wales; Preston, &c. Lancashire: 5-7.

4 Sylvicola *Meg.* — *Cur.* i. pl. 1. — *Ste. M.* i. 10. — Above purplish-green, with brighter green elytra: the latter with a crescent at the shoulder and tip, and a slightly waved, deflexed, central band, white. (L. 7 l.) Woodside, near Epping; very rare: 4.

5 campestris *L.* ii. 657. — *Don.* i. pl. 12. — *Ste. M.* i. 11. — Above bright silky green: elytra with 3, 4, or 5 white dots on the margin, and 1 on the disc, edged with brown; beneath coppery green: ♀ with a brown impression near the base of each elytron. (L. 5—7½ l.) Abundant on sandy and gravelly heaths, everywhere: ✶, ⊙.

6 germanica *L.* ii. 657. — *Pz. F.* vi. f. 8. — *Ste. M.* i. 11. — Somewhat cylindric; above dull green: elytra with a dot on the shoulder, 1 on the margin, and a crescent at the tip, white. (L. 5 l.) Local: chalky lane near Darenth, Kent; — grassy places, Puckaster Cove, Black-gang Chine, &c. Isle of Wight; Pangbourn, Berks: 3-6.

Fam. 2. BRACHINIDÆ *MacLeay.*

ii. DRYPTA *Palpi* elongate, last joint securiform: *mand.* long, porrected: *ant.* with basal joint very long: *tho.* long, cylindric: *tarsi* with penult. joint bilobed: *claws* simple.

iii. ODACANTHA *Palpi* short, filiform: *ant.* with basal joint short: *tho.* oblong, cylindric, narrower than head: *body* slightly depressed: *tarsi* and *claws* simple.

iv. DEMETRIAS *Palpi* short, filiform: *ant.* with two basal joints short: *tho.* heart-shaped, longer than wide: *body* depressed: *tarsi* with penult. joint bilobed: *claws* simple.

v. DROMIUS *Palpi* short, filiform; last joint of *max.* truncate: *ant.* with basal joint short; 2d as long as 3d: *tho.* longer than wide, somewhat heart-shaped, or nearly square, being slightly narrowed behind: *body* depressed: *tarsi* and *claws* simple.

vi. LEBIA *Palpi* short, filiform: *ant.* with basal joint short: *tho.* shorter than wide, lobed behind: *body* depressed, broad: *tarsi* with penult. joint bilobed: *claws* toothed.

vii. LAMPRIAS *Palpi* short, filiform: *ant.* with basal joint short: *tho.* shorter

than wide, heart-shaped, lobed behind: *body* slightly depressed, broad: *tarsi* with penult. joint bifid: *claws* toothed.

viii. Brachinus *Palpi* short, filiform: *ant.* with basal joint short: *tho.* narrow, heart-shaped: *body* convex, somewhat oval: *tarsi* and *claws* simple.

ix. Tarus *Palpi* short; *labial* with last joint dilated, securiform in ♂: *ant.* with basal joint short: *tho.* heart-shaped, truncate: *body* depressed: *tarsi* simple: *claws* toothed.

x. Polistichus *Palpi* elongate: *mand.* short, not porrected: *ant.* with basal joint short: *head* triangular: *tho.* heart-shaped: *body* depressed: *tarsi* and *claws* simple.

2 Drypta *Fabricius.*

7 emarginata *Fab. E.* i. 230. — *Ste. M.* i. 13. — Ca. chrysostomos *Sow. B. M.* i. pl. 59. — Blue, sometimes with a greenish tinge: mouth, antennæ and legs pale red; tarsi dusky; tip of basal and middle of 3d joint of antennæ brown. (L. 4-4½ l.) Rare; sea coast. Hastings, Suss.; Faversham, Kent; Lyme Regis, Dorset; Leith Sands, Scotland: 7-9.

3 Odacantha *Paykull.*

8 melanura *Pk.* i. 69. — *Ste. M.* i. 14. — *Cur.* v. pl. 227. — Green-blue: elytra pale red, with a blue-black spot on the suture at the tip; base of antennæ, breast, and legs pale red; tips of antennæ and of thighs black. (L. 3 l.) Marshy and boggy districts: Horning and Yarmouth, Norf.; Upware, &c., Camb.; Whittlesea Mere, Hants; Swansea, &c.: 6-7.

4 Demetrias *Bonelli.*

9 imperialis *Meg.* — *Sturm. D. F.* vii. pl. clxxiii. — *Ste. M.* i. 176.—Pale yellow: head black; thorax reddish; elytra flat, pale, with a broad wedge-shaped brown patch on the suture and a deep black spot on the margin, behind the middle, usually connected with the patch; breast pitchy; legs pale. (L. 3 l.) Southend, Ess.; and in the marshes about Cambridge: 3-5.

10 atricapillus *L.* ii. 673. — *Mart. C.* pl. 38. f. 36? — *Ste. M.* i. 15. — Pale yellow: head black; thorax reddish; breast pitchy; elytra immaculate; suture dusky. (L. 2½ l.)

Var. De. obscurus *Newman.* — *Ste. M.* v. 366. — Rather convex and wide: head brown-black; thorax, elytra, and legs reddish-brown; suture spotless. (L. 2¾ l.) Damp hedges, in grass: winters beneath moss, &c.: ∗, ⊙. Var. Charlton, 5.

11 monostigma *Leach.* — *Cur.* iii. pl. 119. — *Ste. M.* i. 15.—Pale yellow: head black; elytra with a distinct blackish spot on the suture; breast ochreous. (L. 2 l.) Rather local: South-Creek, Norf.; Whittlesea Mere, Swansea, &c.: 3-9.

5 Dromius *Bonelli.*

12 agilis *Fab. E.* i. 185.—*Pz. F.* xxx. f. 9. var.—*Ste. M.* i. 21.—Oblong: head and thorax reddish; the latter nearly square, with acute hinder angles; elytra dark brown, with two rows of impressed dots; antennæ and legs pale red. (L. 2¾-3 l.)

Var. Head dusky; elytra sometimes with a pale spot on the disc. Common in hedges and under bark of trees: ∗, ⊙.

13 meridionalis *De J. S.* i. 242. — *Ste. M.* i. 16. — Ca. agilis *Pz.* lxxv. f. 11.? — Oblong: head and thorax reddish (or brown); the latter broader

than long, its hinder angles obtuse; elytra dark brown, with one row of impressed dots; antennæ and legs pale red. (L. 3 l.) Not uncommon. London district and Cambridge: ∗, ⊙.

14 fenestratus *Fab. E.* i. 202. — *Sturm D. F.* vii. pl. 168. f. A. — *Ste. M.* v. 367. — Oblong: head glossy black; thorax somewhat square, pitchy, with rusty margins; elytra black, with an oblong pale blotch on each rather before the middle; antennæ and legs pale. (L. 3 l.) North of England and near London: 5.

15 4-maculatus *L.* ii. 673. — *Pz. F.* lxxv. f. 10. — *Ste. M.* i. 21. — Oblong: head black; thorax red, nearly square, its hinder angles obtuse; elytra brown, with a pale spot at the base, and a 2d at the apex; antennæ and legs pale; breast red. (L. 2½-3 l.) Common under bark of trees, in moss, &c.: ∗, ⊙.

16 4-notatus *Pz. F.* lxxiii. f. 5. — *Ste. M.* i. 21. — Elongate: head black; thorax fuscous, nearly square, its hinder angles acute; elytra brown, with an oval pale spot at the base, and a smaller one near the tip; antennæ and legs pale; breast pitchy. (L. 1½-2 l.) Also common under bark of trees, &c.: ∗, ⊙.

17 4-signatus *De J. S.* i. 236. — *Ent. Tr.* (*Bab.*) i. pl. x. f. 2. — *Ste. M.* v. 367. — Pale: head black; thorax square, red, margins paler; elytra pale yellow, humeral angles prominent, the base, a broad band behind the middle and 2-3ds of suture fuscous; beneath pitchy. (L. 2 l.) Rare: Wimbledon Park; Colney Hatch and Cambridge.

18 † sigma *De J. S.* 235. pl. ii. f. 6. — *Ste. M.* i. 176. — Pale: head black; thorax square, reddish; elytra pale yellow, humeral angles prominent; middle of the suture, and a 3-toothed band behind the middle, brown; beneath pale. (L. 2 l.) Introduced by me in mistake for 4-signatus.

19 bipennifer *Ent. Tr.* (*Bab.*) i. 86. pl. x. f. 3. — Pale: head black; thorax nearly square, red; elytra pale yellow, humeral angles rounded; suture and a toothed band behind the middle dark brown, leaving a pale spot at the apex. (L. 1½-1¾ l.) Whittlesea Mere; Dorking; near Carlisle, and North Wales.

20 melanocephalus *De J. S.* i. 234. — *Ste. M.* i. 22. pl. 1. f. 5. — Pale: head black; thorax square, pale red; elytra not spotted; abdomen dusky. Region of scutellum sometimes dusky. (L. 1¼-1¾ l.) Abundant in damp hedges, moss, &c.: ∗, ⊙.

21 fasciatus *Pk. M.* 60. — *De J. S.* xii. f. i. — *Ste. M.* i. 24. — Black: thorax pitchy or reddish; elytra faintly striated, rounded at the shoulder, the base pale, the apex with two indistinct pale spots; beneath pitchy. (L. 1½-1¾ l.)

Var. Dr. notatus *Ste. M.* i. 24. — Darker and larger. (L. 1¾-2 l.) Abundant at Southend; in Devonshire and Berwick-upon-Tweed: 4-6.

22 linearis *Oliv. E.* iii. 111. pl. 14. f. 167. — *Ste. M.* i. 25. — Elongate; rusty-brown: thorax somewhat heart-shaped, paler than the head, the latter with several longitudinal striæ in front; elytra deeply punctate-striated; antennæ and legs pale. (L. 2-2¼ l.) Abundant in hedges, &c., everywhere: ∗, ⊙.

23 longiceps *De J. S.* ii. 450. — *Ent. Tr.* (*Bab.*) i. 88. pl. x. f. 5. — *Ste. M.* v. 367. — Linear-elongate; pale rusty brown: head with 2 slanting punctured depressions between the eyes; thorax square; elytra striate; the suture and a patch united thereto behind the middle blackish; antennæ and legs pale. (L. 3 l.) Occasionally found in sedge boats at Cambridge, and at Whittlesea Mere: 3-5.

24 spilotus *De J. S.* i. 246. — Dr. humeralis *Ste. M.* i. 23. — Short, black, very glossy: elytra with a squarish pale spot on the shoulder, and a pale

dot (sometimes wanting) on the disc; tarsi brownish; basal joint of antennæ sometimes pale. (L. 1¾ l.) Near London and in Norfolk: 5.

25 impunctatus *Ste. M.* i. 23. — Short, brassy-black, opaque: elytra brownish, with an obscure palish spot on the shoulder, and occasionally a minute one on the disc; thighs dusky; tibiæ (shanks) and tarsi pale brown. (L. 1½ l.) Near London, and Berkshire: 3-5, ✶.

26 quadrillum *Creutzer?* — *De J. S.* i. 249. — *Ste. M.* i. 23. — Short, black, with a brassy tinge: elytra striated, the interstices punctured, with a round pale spot on the shoulder, and a smaller one on the disc towards the tip (sometimes obscure, or wholly wanting). (L. 1½ l.) Near London, and Southend: 3-6.

27 femoralis *Marsh*, i. 463. — *Ste. M.* i. 25. — Rather elongate; black, obscure: elytra faintly striated, the disc impunctate; trochanters, coxæ, and base of thighs pale reddish-brown; tibiæ and tarsi pale brown; antennæ dusky, tips reddish. (L. 1½ l.) Found near London: 4, ✶.

28 glabratus *Duft. F.* ii. 248. — *De. J. S.* i. 190. pl. xv. f. 3. — *Ste. M.* i. 25. — Oblong; brassy-black: elytra very obscurely striated, the disc impunctate; legs dull black; tibiæ and tarsi brownish-black. (L. 1¼-1⅜ l.) Abundant on sandy heaths in the spring: ✶.

29 angustatus *Curtis?* — *Step. N.* 2. ed. col. 2. — Narrow, elongate; glossy black: thorax heart-shaped, much narrowed behind; elytra smooth, shining, not much shorter than the abdomen; legs and antennæ black. (L. 1¼—1½ l.) London: 3-5, ✶.

30 maurus *Zeigler.* — *Ste. M.* i. 176. — Very deep black: thorax short, very much narrowed behind; elytra very glossy, smooth, not punctured, much shorter than the abdomen; antennæ brownish. (L. 1¼-1½ l.) Not uncommon; London district; Berkshire, &c.: 3-5, ✶.

31 truncatellus *L.* ii. 673. *Pz. F.* lxxv. f. 12. — *Ste. M.* i. 26. — Short, brassy-black: elytra faintly striated, the disc impunctate; thighs pitchy; tibiæ and tarsi brownish; palpi blackish. (L. 1½. l.) Common in dry gravelly places, &c.: ✶, ⊙.

32 foveolus *Gyll.* ii. 183. — *Ste. M.* i. 26. — *De J. S.* i. 194. pl. xv. f. 7. — Short; above bright brassy-black: elytra faintly striated, with 2 deeply impressed dots on the disc, near the 3d stria; beneath and legs glossy-black; tarsi brownish. (L. 1½-2 l.) Very common in sand and gravel pits: ✶, ⊙.

6 Lebia *Latreille.*

33 crux-minor *L.* ii. 673. — *Ste. M.* i. 27. pl. i. f. 6. — Black: thorax, legs, and 3 basal joints of antennæ red; elytra dull red, with the suture, and the apical half black, leaving a round red spot at the tip. (L. 3 l.) Very rare; Windsor; Coombe Wood; near Dorking, 6; Lymington, Hants; Netley, Salop, 8; High Buckington, Devon: 5-7.

34 † turcica *Fab. E.* i. 203. — *Cur.* ii. pl. 87. — *Ste. M.* i. 27. — Black: mouth, palpi, antennæ and thorax red; elytra black, with a large irregular crescent-shaped yellowish-red patch on the shoulder, and a narrow border of the same, reaching to the tip. (L. 2½ l.) Extremely scarce: Oakhampton Park, Somers.; Zoological Gardens, Regent's Park: 5.

35 hæmorrhoidalis *Fab. E.* i. 203. — *Pz. F.* lxxv. f. 6. — *Ste. M.* i. 28. — Red: eyes and elytra black, the latter with a pale red spot at the tip; breast dusky. (L. 2 l.) Also very rare: Netley, Salop, and Devonshire: 6.

7 Lamprias *Bonelli.*

36 cyanocephalus *L.* ii. 671. — *Ste. M.* i. 29. — *Cur.* vi. pl. 282. — Blue-green or blue: thorax and legs red; tips of the thighs and the tarsi black;

basal joint of antennæ red, other joints and palpi dusky. (L. 2½-3½ l.) Uncommon: Darenth, on broom; Ripley; Windsor; Netley, Andover, Darlington: 5-7.

37 nigritarsis *Leach.*—*Ste. M.* i. 29. — Blue-green: the basal joint of the antennæ and the legs dusky black, the base of the thighs, thorax, and breast red. (L. 2½-3 l.) Also somewhat scarce: Dover 6, and Windsor 5.

38 chlorocephalus *Ent. Hefte.* ii. 117. — *Don.* iii. 35. pl. 86.—*Ste. M.* i. 30. — Blue-green: antennæ with the 2 basal and under part of 3d joints, thorax, breast, and legs red; tarsi black or brownish. (L. 2-3 l.) Common on broom, but local: Epping Forest; Darenth Wood; Ripley, Hertford, Newcastle, Edinburgh, &c.: 4-7.

39 rufipes *De J. S.* i. 258. — *Ste. M.* i. 30. — Blue-black: elytra blue, obscurely punctured; 3 basal joints of antennæ, thorax, breast, and legs red; tarsi dull red. (L. 2½ l.) Rare: near Brockenhurst, New Forest: 6.

8 Brachinus *Weber.*

40 crepitans *L.* ii. 671. — *Ste. M.* i. 32. pl. 2. f. 6. — Dull red: elytra varying from greenish-blue to dusky, or green, with several distinctly elevated lines, or ridges; 3d and 4th joints of antennæ and abdomen dusky brown. (L. 2-5 l.) Abundant beneath stones: near London, Ripley, Dorking, Southend, Bristol, &c.; Edinburgh: 3-9.

41 immaculicornis *De J. S.* ii. 466. —*Ste. M.* i. 177. — Rusty-red: elytra with faint ridges, bluish-green; abdomen obscure; legs and antennæ entirely pale rusty-red. (L. 4 l.) Ripley, Sy.: 7.

42 explodens *Dufts. F.* ii. 234. — *Ste. M.* i. 35. —Bright rusty-red: elytra blue-black, with obscure ridges; 3d and 4th joints of antennæ dusky; abdomen obscure. (L. 2¼-3 l.) Southend, Essex: 4.

43 glabratus *Bonelli.* — *De J. S.* i. 320. — *Ste. M.* i. 36. — Bright rusty-red: elytra bluish-green, without ridges, finely punctured; abdomen obscure; antennæ spotless. (L. 2½ l.) Rare: Dover, 6; Ashburton, Devon, 5.

44 sclopeta *Fab. E.* i. 220.—*Ste. M.* i. 36. pl. 2. f. 5.—*Cur.* pl. xi. 554.—Bright rusty-red: elytra without ridges, blue-green, with the basal half of the suture dull red, antennæ spotless. (L. 3 l.) Also rare: Devonshire; Southend; Essex; Faversham, Hastings: 5-7?

9 Tarus *Clairville.*

45 humeralis *Clairv.* ii. 96. —*Ste. M.* i. 33. pl. 2. f. 4. —Black, glabrous; very finely punctured, with the mouth, antennæ, and legs pale red, elytra with a spot on the shoulder, and the anterior margin yellowish-red. (L. 4-5½ l.) Rare: Swansea; Cuckfield, Sussex; Windsor, &c.: 5-6.

46 axillaris *Fab. E. S.* i. 132. —*Ste. M.* v. 368. —Dusky-black, slightly pubescent, very thickly punctured: thorax red; elytra with the lateral margin, and a streak on the shoulder, the mouth and antennæ rusty-red; legs pale rust-colour. (L. 4½-5 l.) Rare: taken within the London district: 5.

47 coadunatus *De J. S.* i. 210. —*Ste. M.* v. 369. — Deep black, slightly pubescent: thorax broad, red; elytra deeply punctured at the base; the lateral margin and a patch connected therewith on the shoulder, the mouth and antennæ rusty-red; legs pale rust-colour. (L. 4 l.) Rare: found near London: 8.

48 lævigatus *Ste. M.* i. 32. pl. 2. f. 2.—Pitchy-black, glabrous; very obscurely and delicately punctured; antennæ, mouth, and thorax dull rust-colour; elytra obscure, with the lateral margins and a broad patch at the

shoulder yellowish-red; legs pale red. (L. 4-4½ l.) Near London, and in Oxfordshire: 7-9.

49 homagricus *Duft.* ii. 240.—*Ste. M.* v. 369.—Black; punctured: thorax elongate, bright red; elytra faintly striated, the outer margin and a streak at the shoulder pale rust-colour; legs the same; mouth and antennæ pale red. (L. 4-4½ l.) Near London, and in Norfolk: *5.*

50 angularis *Gyll.* ii. 173. — *De J. S.* 144. pl. xii. f. 1. — *Ste. M.* i. 31.—Pitchy-black; slightly punctured: thorax rather broad, rust-colour; legs the same; elytra, with distinct punctate striæ; the outer margin and a patch connected therewith on the shoulder pale testaceous (sometimes a faint spot of similar hue on the disc); mouth and antennæ pale red. (L. 3½-4¼ l.) Local, but very abundant near Dorking and Leatherhead, and in the Isle of Portland: *5-9.*

51 macularis *Fisch. E. R.* (*Mann.*) iii. 25. pl. 3. f. 4. β. —*Ste. M.* i. 32. pl. 2. f. 3.—Black; glabrous; thickly punctured: mouth, antennæ, and thorax bright rust-colour: elytra obsoletely striated, broad, the outer margin, a large patch on the shoulder connected therewith, and a streak on the disc, towards the tip, pale rusty-yellow: legs pale rust-colour. (L. *5* l.) Found near London.

52 basalis *Gyll. I. S.* ii. 174.—*Curtis*, v. pl. 235.—*Ste. M.* i. 177.—Black, slightly pubescent, deeply punctured: thorax sometimes pitchy; elytra distinctly punctate-striate, the basal portion more or less rusty-red; body beneath pitchy; antennæ, mouth, palpi, and legs testaceous-red. (L. 4-4½ l.) Local, but common in several parts of Yorkshire, and near Edinburgh: *3-6.*

10 Polistichus *Bonelli.*

53 vittatus *Brullé* i. 178. — Po. fasciolatus *Ste. M.* i. pl. 1. f. 3.— Brown; deeply punctured: antennæ, breast, abdomen, and legs rusty-red; elytra striated, with a broad abbreviated stripe at the base. (L. 4¼-*5* l.) Also local: Clay, Norf.; Southend, *5*; Marsden, Northum. 3; once in plenty near Southwold, Suff., 4.

Fam. 3. SCARITIDÆ *MacLeay.*

(xi. Scarites *Mand.* large, porrected, armed internally with strong teeth; *ant.* elbowed: *thorax* lunate: *body* oblong, somewhat depressed: *anter. tibiæ* palmated.)

(xii. Oxygnathus *Mand.* very long, porrected, curved, not toothed within: *ant.* elbowed: *thorax* quadrate: *body* oblong, somewhat cylindric and depressed: *ant. tibiæ* palmated.)

xiii. Clivina *Mand.* short, toothed within: *ant.* not elbowed: *thorax* quadrate: *body* slightly depressed: *ant. tibiæ* palmated.

xiv. Dyschirius *Mand.* short, stout, toothed within at the base: *ant.* not elbowed: *thorax* globose: *body* somewhat cylindric: *ant. tibiæ* palmated.

(xv. Distomus *Mand.* conic, slightly toothed at the base: *ant.* filiform, not elbowed: *thorax* heart-shaped: *head* unarmed: *ant. tibiæ* not palmated.)

11 Scarites *Fabricius.*

(54† Beckwithii *Ste. M.* i. 37. pl. 3. f. 1.— Black: antennæ reddish-brown; legs pitchy black; anterior tibiæ 3-dentate without, 4-denticulate within, intermediate tibiæ with 2 perpendicular spines; elytra striated, striæ not punctate. (L. 8½ l.) Near Dover and Scarborough; — probably introduced with ballast.)

(55‡ subterraneus *Fab. E.* i. 124.—*Mart. C.* pl. 38. f. 46. —*Ste. M.* i. 37. *note.* — Black, shining: anterior tibiæ 3-dentate without, 4-denticulate within; interm. tibiæ with 2 perpend. spines; elytra striated, striæ obso-

letely punctate, disc with 3 impressions. (L. 7½ l.) Figured by Martyn in mistake for Sc. Beckwithii.)

(56 ‡ lævigatus *Fab. E.* i. 124. — *Ste. M.* i. 37. *note.* Sc. sabulosus *Oliv.* iii. pl. 1. f. 8. — Black: antennæ brown; anterior tibiæ 3-dentate without, 2-denticulate within; interm. tibiæ with 1 perpend. spine; elytra smooth, very obsoletely striated, the striæ scarcely punctured, disc with 2 impressions. (L. 7 l.) Introduced into Wilkin's catalogue for Sc. Beckwithii.)

12 Oxygnathus? *De Jean.*

(57 †anglicanus *Ste. M.* i. 38. *note.* pl. 3. f. 2.— Shining black: antennæ and palpi pitchy-black, tarsi dull rust-colour; elytra deeply striated, the striæ strongly punctured. (L. 5½ l.) Found at Peckham; mutilated; — introduced with merchandise?)

13 Clivina *Latreille.*

58 Fossor *L.* ii. 675. — *Ste. M.* i. 7. Sc. arenarius *Pz.* xliii. f. 11.— Pitchy-black, or brown, slightly punctured: elytra concolorous, deeply punctate-striate; mouth and palpi pale testaceous; antennæ and legs pale rusty-red. Colour variable according to maturity, being pale testaceous, brown or chestnut, with legs and antennæ paler. (L. 3-3½ l.) Abundant beneath stones, &c. in England and Scotland: ✶, ☉.

59 collaris *Herbst. A.* 141. — *Ste. M.* i. 40. pl. iii. f. 3. — Chestnut-black; elytra paler, the suture sometimes dusky, rather deeply punctate-striate: mouth, antennæ, and legs red. Also variable in colour, but the head and thorax darker than the elytra. (L. 2½-3 l.) Common in Battersea fields, &c. in the spring: also near Edinburgh.

14 Dyschirius *Panzer.*

60 inermis *Cur.* viii. pl. 354. — *Ste. M.* v. 369. — Robust, bluish-black: mouth and antennæ ferruginous, the latter blackish towards the tip; legs concolorous with darker thighs; anterior tibiæ terminated by 2 strong spines, the outer one largest and incurved; the exterior margin simple. (L. 2½ l.) Coast of Norfolk.

61 nitidus *De Jean, S.* i. 421.—*Ic.* 23. f. 4. *Ste. M.* i. 40.—Above shining brass: head in front, mouth and antennæ brown; elytra deeply striated, striæ punctured, and extending to the apex; legs dull ferruginous, thighs tinged with bronze, anterior tibiæ with two equal spines, and a smaller one near the notch. (L. 2 l.) Near Hull; in Norfolk; and on the banks of Thames: 4, ✶.

62 ovatus *Hali. Z. J.* — *Ste. M.* i. 178. — Brassy: antennæ and legs pitchy black; mandibles pitchy red; forehead rough; thorax lightly channelled; elytra punctate-striate, the punctures vanishing before the apex; beneath blackish. (L. 2⅛ l.) Near Holywood, in Ireland; and Lancashire coast.

63 thoracicus *Ill. K.* i. 125.—*Pz. F.* lxxxiii. f. 2.—*Ste. M.* i. 41.—Brassy, shining: antennæ and legs pitchy-red; thorax short, very globose, with a faint channel; elytra ovate, slightly punctate-striated; anterior tibiæ with 2 elongate equal teeth, and 2 spines at the apex. (L. 1¾-2 l.) On the coasts of Norfolk, Suffolk, Essex, &c.: 4-6.

64 politus *De J. S.* i. 422. — *Ic.* 20. f. 5. — *Ste. M.* i. 41. — Shining brassy black, somewhat cylindric: thorax elongate, slightly globose, with an obsolete channel; elytra oblong-ovate, moderately convex, very faintly punctate-striate; legs pitchy; anterior tibiæ obsoletely 2-denticulate without, and with 2 spines at the apex. (L. 2 l.) On the Norfolk and Suffolk coasts: 4-5.

65 cylindricus *De J. S.* i. 423.— *Ste. M.* i. 46.— Shining brassy, narrow, cylindric: thorax elongate, slightly globose and with a faint channel; elytra oblong, nearly parallel, deeply punctate-striate; anterior tibiæ strongly 2-denticulate without, and with 2 long spines at the tip. (L. 2¼ l.) Swansea, on the coast; and in Norfolk: 4.

66 arenosus *Leach.* — *Ste. M.* i. 42. — Above rusty-brass, shining; legs, antennæ, and palpi pale: thorax long, slightly globose, and with a faint channel; elytra ovate, deeply punctate-striate; anterior tibiæ obsoletely 2-denticulate without, the apex with 2 short spines. (L. 2 l.) Devonshire coast and Dover: 6.

67 rufipes *De J. S.* i. 428. — *Ste. M.* v. 369. — Brownish-brass: thorax slightly globose; elytra ovate, and deeply punctate-striate, the striæ not reaching to the apex; antennæ and legs dull red; anterior tibiæ obsoletely 2-denticulate without, and with 2 spines at the tip. (L. 1½-1¾ l.) Near London and Carlisle.

68 digitatus ? *De J. S.* i. 427.— *Ste. M.* i. 42.—Above brassy, dull: thorax globose with a deep channel; elytra ovate, rather deeply punctate-striate: anterior tibiæ strongly 2-denticulate without, the tip with 2 spines, the inner one long and curved. (L. 2 l.) Found on the coasts of Suffolk.

69 punctatus *De J. S.* i. 414.—*Ste. M.* v. 370.—Broad; brassy: thorax very globose with a strong channel; elytra shortish, ovate; deeply punctate-striated, the striæ not reaching to the apex; antennæ red; legs pitchy-red; anterior tibiæ obsoletely 2-denticulate without, the apex with 2 spines. (L. 2 l.) — Coasts of Sussex and Hants; and Isle of Wight.

70 æneus *Ziegler.*—*De J. S.* i. 423.—*Ic.* 24. f. 1.—*Ste. M.* i. 42.—Dull blackish-bronze: thorax slightly elongate, with a faint dorsal channel; elytra oblong-ovate, faintly punctate-striate; legs reddish-bronze; anterior tibiæ slightly 2-denticulate without, the tip with 2 short spines. (L. 1½-1¾ l.) Near London, at Walham Green; also near Edinburgh, &c.: 5-6.

71 fulvipes *De J. S.* i. 425. — *Ste. M.* v. 370. — Rather elongate; above brassy-black: thorax globose; elytra ovate, deeply punctate-striate; legs and antennæ rusty-red. (L. 2¼ l.) Found on the coasts of Essex and Suffolk.

72 tristis *Ste. M.* i. 43. — Pitchy-black: thorax slightly elongate, with an obsolete dorsal line; elytra obscure, with the apex pitchy, faintly punctate-striate, the striæ vanishing at the tip; legs brownish-black; anterior tibiæ obsoletely 2-denticulate without, the apex with 2 short spines. (L. 1½ l.) Near Hertford and Wimbledon Common. 3-5.

73 pusillus *De J. S.* i. 425.—*Ic.* 24. f. 3.—*Ste. M.* v. 370.—Oblong, somewhat cylindric: thorax slightly globose, with a faint dorsal channel; elytra narrow, elongate-ovate, very deeply punctate-striate, the striæ reaching to the apex; antennæ and legs pitchy-red. (L. 1½ l.) Found on the Norfolk and Yorkshire coasts.

74 gibbus *Fab. E.* i. 126. —*Pz. F.* v. f. 1.—*Ste. M.* i. 43.—Above bronzed-black: thorax very short and globose, with an obscure dorsal line; elytra broad, somewhat oval, convex, deeply punctate-striate towards the suture, the striæ faint towards the apex and the lateral margins; legs black; anterior tibiæ rather obsoletely 2-denticulate, the apex with 2 spines. (L. 1-1½ l.) Common near London and near Edinburgh: ✶, ⊙.

75 minimus *Curtis,* folio 354. — *Ste. M.* v. 370. — Above bluish-black: mouth and antennæ rust-colour, the tip of the latter dark; legs chestnut; thorax with a faint dorsal channel; elytra punctate-striate, the striæ not reaching to the apex; anterior tibiæ with 2 incurved spines at the tip. (L. 1 l.) Near London and in Norfolk: 4.

15 ARISTUS *Zeigler?*

(76 † fulvipes *Latr.*—*De J. S.* i. 444.— *Ste. M.* i. 44. pl. 3. f. 4.— Pitchy-black, punctured: thorax pitchy-red, with an obscure pitchy line: elytra striated, interstices deeply punctured: legs and antennæ wholly pitchy-red. (L. 5 l.) Reputed to have been taken in Devonshire.)

Fam. 4. CARABIDÆ *MacLeay.*

xvi. CYCHRUS *Elytra* broad, reflexed over the sides of the abdomen, united at the suture: *head* long, narrow: *labrum* 2-lobed: *mand.* prominent, 3-dentate at the tip: *palpi* with the terminal joint spoon-shaped: *labium* 3-partite: *mentum* not toothed: *wings* 0.

(xvii. PROCRUSTES *Elytra* united, not reflexed over the sides of the abdomen: *labrum* 3-lobed: *mand.* 2-dentate: *palpi* with terminal joint obliquely truncate: *mentum* with a bifid tooth: *thorax* subquadrate: *wings* 0.)

xviii. CARABUS *Elytra* not reflexed over the sides of the abdomen, united or free: *labrum* 2-lobed: *mand.* with a small tooth in the middle: *palpi* with terminal joint obliquely truncate, or securiform: *mentum* with a single tooth: *thorax* somewhat heart-shaped: *wings* 0, or rudimental: *ant.* with 3d joint cylindric.

xix. CALOSOMA *Elytra* free: *labrum* 2-lobed: *mand.* with a basal tooth: *palpi* with the terminal joint ovate, truncate, slightly securiform: *mentum* 1-dentate: *thorax* somewhat orbicular: *abdomen* rather quadrate: *wings* 2, ample: *ant.* with 3d joint compressed.

xx. NEBRIA *Elytra* free: *body* depressed; *labrum* subquadrate, faintly notched: *mand.* porrect, toothed near the base: *palpi* short, with the terminal joint slightly dilated, obliquely truncate, and of the inner maxillary longest: *mentum* 3-lobate, central lobe bifid: *thorax* transverse (broader than long), heart-shaped: *wings* 2, ample.

xxi. HELOBIA *Elytra* free: *body* depressed: *labrum* transverse, entire: *mand.* small, toothed at the base: *palpi* short, terminal joint clavate-truncate, and of the inner maxillary not longer than the penult.: *mentum* 3-lobed: *thorax* transverse, heart-shaped: *wings* 2, ample.

(xxii. ALPÆUS *Elytra* free: *body* slightly depressed: *labrum* transverse, entire: *mand.* small, dentate at the base: *palpi* short, terminal joint rounded: *mentum* 1-dentate: *thorax* rather elongate, heart-shaped: *wings* 0.)

xxiii. LEISTUS *Elytra* free: *body* slightly depressed: *labrum* transverse, notched: *mand.* dilated at the base externally: *maxillæ* armed with long spines at the outer edge of the base: *palpi* elongated, the terminal joint longest, slightly thicker, and obliquely truncate: *thorax* transverse, heart-shaped: *wings* 2, ample.

16 CYCHRUS *Fabricius.*

77 rostratus *L.* ii. 677. — *Ste. M.* i. 45. — *Cur.* ix. pl. 426. — Dull black: head punctured; elytra thickly and roughly granulated, their outer margin with an acute ridge. (L. 8-10 l.) Common under dead leaves, &c. London district; S. England; S. Wales; Scotland and Ireland: 3-5, ∗.

(78 ‡ elongatus *De J. S.* ii. 7.—*Ste. M.* i. 46. *note.*—Black: head very long, smooth; thorax with a slight depression behind, its hinder angles not acute; elytra punctured and granulated, with 3 obscure raised lines. (L. 8-9½ l.) Said erroneously to be British in Literary Gazette for 11 March, 1827.)

(79 ‡ attenuatus *Fab. E.* i. 166. — *Ste. M.* i. 46. *note.* — Ca. proboscideus *Oliv.* iii. pl. 11. f. 128. — Black: head extremely narrow; thorax much

rounded behind; elytra coppery, shining, with a triple row of raised dots. (L. 8 l.) Also erroneously introduced as British.)

17 Procrustes *Bonelli.*

(80 ‡ coriaceus *L.* ii. 668. — *Stu. D. F.* iii. pl. lix. — *Ste. M.* i. 46. *note.* — Deep black, rough: thorax opaque, obscurely wrinkled transversely, with a faint dorsal line; elytra ruggedly punctured, not striated; antennæ brownish at tip. (L. 1½ inch.) Said by Turton to be British; also to occur on South Sea Common, Portsmouth.)

18 Carabus *of Authors.*

§ A. *Elytra* not sulcated.

81 intricatus *L. F.* No. 780. — *Ste. M.* i. 47. pl. 3. f. 5. — Elongate, narrow in front; black, tinted with blue: thorax attenuated behind, with the hinder angles very acute; elytra violaceous, the sutures and 3 rows of oblong lines elevated, the surface otherwise rugged, with irregular elevated shining intricate striæ; legs and antennæ black. (L. ♂ 1 inch: ♀ 14-15 l.) Rare: near Tavistock and Ashburton, Devon: 4-6.

82 catenulatus *Fab. E.* i. 170. — *Pz. F.* iv. f. 6. — *Ste. M.* i. 48. — Oblong; blue-black, with a violet tint: head striate; thorax roughly punctured; elytra black, with the margin deep blue or purplish, each with about 15 faintly elevated interrupted lines, the 3d, 7th, and 11th from the suture highest and remotely interrupted; legs black. Varies in being of an intense glossy black; or black, with brownish elytra, the latter rather faintly striated. (L. 10-13 l.) Abundant on heaths, &c., in England, Scotland, and Ireland. ⊙

83 purpurascens *Fab. E.* i. 170. — *Oliv. S.* iii. pl. 4. f. 40. — *Ste. M.* i. 48. *note* & v. 371. — Deep black: thorax with margin acutely raised; purplish; elytra with the margin purplish-violet, ruggedly punctate, the punctures somewhat disposed in striæ, 3 of which are more distinct; legs and antennæ glossy black. (L. 13 l.) Rare: taken near Weymouth and in the Isle of Portland: 5—6.

(84 † Agrestis *Creutzer E. V.* 110. pl. 2. f. 15? — *Ste. M.* i. 49. — Black, with a metallic tinge: head obscurely punctured; thorax slightly narrowed behind; elytra with faintly elevated dots, disposed in lines, and a triple row of oblong elevated points. (L. 9 l.) Inserted with doubt in my Illustrations for the next species.)

(85 † Lippii *Dahl.* — *De J. S.* i. 51. — *Ic.* 37. f. 4. — *Cur.* f. 446. — Ovate, black: elytra with roughened confluent elevated dots irregularly disposed in striæ, with a triple row of obsolete oblong points. (L. 9 l.) Supposed to have been taken in Lincolnshire.)

86 monilis *Fab. E.* i. 171. — *Pz. F.* cviii. f. 1. — *Ste. M.* i. 49. — Black: head and thorax bronzed, coppery or greenish; elytra the same, or blue, with 3 rows of elevated lines, between each of which are 3 equally raised striæ. Sometimes the striæ on the elytra are irregularly confluent. (L. 10-13 l.) Not uncommon in gardens, &c., near London; also found in other parts, and occasionally near Edinburgh: 3-5.

87 consitus *Pz. F.* cviii. f. 3. — *Ste. M.* v. 371. — Black; above bronzed or greenish: elytra with three rows of elevated, interrupted lines, with 3 rows of raised striæ between, the intermediate one being most elevated. (L. 12-14 l.) Occasionally taken near London; abundant at Dover: 5-6.

88 granulatus *L.* ii. 668. — *Don.* vii. pl. 222. f. 3. — Ca. cancellatus. — *Ste. M.* i. 50. — Depressed; black: above brassy-black or deep black, rarely greenish; elytra with 3 rows of interrupted elevated striæ, having

a raised line between each; legs and antennæ black.' (L. 9-11 l.) Extremely abundant near London; during the winter in the debris of old trees; also in the Isle of Man; near Edinburgh, &c.: 1-7.

89 cancellatus *Ill.* i. 154. — Ca. granulatus *Ste. M.* i. 51. pl. 4. f. 1. — Slightly convex; black: above greenish brass; elytra with 3 rows of elevated, oblong, remote tubercles, and 3 rows of granulated lines, the interstices somewhat rugged; antennæ with the basal joint and the femora (thighs) red. (L. 10 l.) Very rare; taken in a chalk-pit at Northfleet: 4.

90 arvensis *Fab. S.* i. 174. —*Ent. Tr.* i. p. 7. f. *med.* — *Ste. M.* i. 51. — Ovate; black: above greenish-copper or brassy, sometimes black or purplish; elytra rather obsoletely punctate-striate, and with 3 rows of elevated lines, interrupted with a coppery impression. (L. 8-10 l.) Found in Epping Forest; also near Wimbledon, Windsor, in Norfolk, occasionally in Scotland, and in N. Wales and Ireland: 3-5.

91 violaceus *L.* ii. 669. — *Don.* vii. pl. 222. f. 1. — *Ste. M.* i. 52. — Elongate, convex, black, with a violet tinge above: the margins of the thorax and of the elytra bright purple-violet; elytra opaque, finely granulated. (L. 10-13 l.) Abundant near London and south of England; rare in the north and in Scotland: 3-7.

92 exasperatus *Duft.* ii. 22. — *Cur.* x. pl. 446. — *Ste. M.* v. 371. — Oblong, black: the margin of the thorax and of the elytra violet; elytra opaque, granulated, a little roughened, and with 3 rather obsolete interrupted elevated lines. (L. 12-13 l.) — Rare: found in Isle of Portland; in Devonshire, near Ashburton; and near London: 4-5.

93 glabratus *Fab. E.* i. 170. — *Ent. Tr.* i. pl. 2. fig. *inf.*— *Ste. M.* i. 52. — Oblong; bluish-black, immaculate: elytra convex, very finely granulated, the margin concolorous; thorax broad. (L. 10-12 l.) Abundant in mountainous districts of N. of England, Scotland, and Ireland; rare in the plains: 5-8.

94 convexus *Fab. E.* i. 172. — *Ste. M.* i. 53. pl. 4. f. 2. — Ovate; black: the margins of the thorax and elytra violet or bluish; elytra very finely crenate or striated; and with 3 rows of obscure concolorous impressed dots. (L. 8-9 l.) Rare; Longmont Forest, Shropshire, and in Cornwall: 5—6.

95 † hortensis *L.* ii. 668. — *Ste. M.* i. 53. *note.* — Ca. gemmatus *Pz. F.* lxxiv. f. 2. — Elongate; black: elytra with the margin purple, the disc striated, the interstices crenated, and on each elytron 3 rows of large deeply impressed heart-shaped, golden-coppery pits. (L. 1 in.) Found, but very rarely, in the north of England.

96 nemoralis *Ill. K.* i. 152. — Ca. hortensis *Ste. M.* i. 53. — Ca. gemmatus *Don.* xiv. pl. 222. f. 2. Ovate; black; above brownish brass; sometimes purplish: thorax rather square; elytra obsoletely rugged or irregularly punctured, with 3 rows of impressed dots, sometimes brassy. (L. 9-12 l.) Very abundant in S. of England, in gardens; also near Edinburgh: 3-8, ✶.

B. *Elytra* sulcated; suture elevated.

97 clathratus *L.* ii. 669. — *Don.* xv. pl. 526. *fig. sup.* — *Ste. M.* i. 54. — Oblong, rather depressed, black; above brassy-green: thorax transverse; elytra with 3 equidistant elevated ribs, the 3 interstices with a row of deeply impressed, round, golden-coppery pits, and the margin with some smaller impressions (L. 11-15 l.) Halvergate Marsh, Norf.; Caithness, &c., Scotland; and near Dublin: 4-6.

(98 ‡ auronitens *Fab. E.* i. 175.—*Pz. F.* iv. f. 7.—*Ste. M.* i. 54.' Oblong-ovate; above bright grassy-green tinted with gold: elytra with 3 raised

violet-black ribs, the interstices rough ; base of antennæ, the thighs, and shanks red ; tarsi black ; mandibles and palpi pitchy red ; body beneath blue-black. (L. 10 l.) Reputed, but erroneously, to be British.)

99 auratus *L.* ii. 669. — *Ste. M.* i. 55. pl. 3. f. 6. — Oblong, golden-green, beneath blue-black : elytra with 3 concolorous smooth ribs, the interstices finely punctulated; legs, 4 basal joints of the antennæ, mandibles, and palpi red, the 2 last tipped with black. (L. 1 in.) Found at Exmouth, Devon ; near Dover and Southampton ; rare : 6.

100 nitens *L.* ii. 669. — *Sow. B. M.* i. pl. 27. — *Ste. M.* i. 56. Ovate ; bright green, beneath black : thorax coppery or gold-green ; elytra margined with gold or copper, with 3 elevated black ribs, the interstices transversely rugged. Rather variable in tint, and the ribs on the elytra sometimes interrupted. (L. 8-11 l.) Abundant in the New Forest, on Parley, &c. heaths, also in Durham, Yorksh. ; in Scotland ; Belfast, &c. : 4-7.

19 Calosoma *Weber.*

101 Sycophanta *L.* ii. 670. — *Ste. M.* i. 57. — *Cur.* vii. pl. 330. — Blue-black ; shining : antennæ and legs black : elytra golden- or coppery-green, finely punctate-striate, with 3 impressed dots between the 4th, 8th, and 12th striæ from the suture. (L. 9½-15 l.) Found on the coasts of Norfolk, Suff., Suss., and Devon ; at Yarmouth, Aldboro', Hastings, and Dartmouth : 4-7.

(102 ‡ Scrutator *Fab. E.* i. 213. — *Leach. Z. M.* ii. 94. pl. 93. — *Ste. M.* i. 57. *note.* — Violet-black : thorax edged with green-gold ; elytra golden-green, margined with copper, punctate-striate, with 3 rows of larger impressions ; body beneath varied with green and copper. (L. 14 l.) Introduced into old cabinets for Ca. Sycophanta ; it inhabits N. America.)

103 Inquisitor *L.* ii. 669. — *Don.* xiv. 89. pl. 504. f. i. — *Ste. M.* i. 501. — Coppery or blackish-brass : elytra edged with green, with about 16 reticulated striæ and 3 rows of impressed dots, placed as in C. Sycophanta ; body beneath greenish ; antennæ and legs black. (L. 8-10 l.) Occasionally abundant on oaks in Windsor and Hainault Forests ; also at Dulwich ; Norwood ; Burghfield, Berks. ; in Norfolk, and at Powerscourt, Ireland : 4-6.

20 Nebria *Latreille.*

104 complanata *Lin.* ii. 671. — *Don.* xiv. 53. pl. 488. — *Ste. M.* i. 59. — Pale yellowish : elytra paler, striated, with 2 very irregular transverse dusky or black bands, united by longitudinal lines ; suture, except at the apex, black ; eyes black ; legs and antennæ pale. Elytra sometimes nearly black, with a pale margin, at others almost immaculate. (L. 8-9½ l.) In profusion on the coast near Swansea, and Barnstaple in Devon : 5-6.

(105 ‡ collaris *Thumb. A. N.* iv. 50. pl. *A.* f. 12. — *Ste. M.* i. 59. *note.* — Black : mouth, antennæ, legs, middle of the thorax, and a broad margin to the elytra pale testaceous. (L. 7. l.) Erroneously stated to be British.)

106 livida *L.* ii. 670. — *Cur.* i. pl. 6. — *Ste. M.* i. 60. — Black : mouth, base of the antennæ, legs, middle of the thorax, and a narrow margin to the elytra pale yellowish. (L. 7-8 l.) Local, but abundant on the Yorkshire coast, especially near Scarboro'. : 5-6.

107 picicornis *Fab. E.* i. 180. — *Ste. M.* i. 60. pl. iv. f. 3. — Black : mouth, antennæ, and legs rusty-pitchy ; elytra striated ; head pitchy-red. (L. 6½-7½ l.) Taken in Longmont Forest, Salop : 3-4.

21 Helobia *Leach.*

108 † lata *E. M. New.* i. 284. — *Ste. M.* v. 372. — Black, slightly iridescent : mandibles, palpi, antennæ, tibiæ, and tarsi pitchy-black ; thorax wide,

with lateral margins pitchy: elytra very wide, punctate-striated. (L. 6½ l.) Abounds near Cork : 3-5.

109 brevicollis *Fab. E.* i. 191.—*Sturm. D. F.* iii. pl. lxvii.—*Ste. M.* i. 61. Glossy-black : antennæ, palpi, tibiæ, and tarsi pitchy-red; elytra deeply punctate-striate; and 3 or 4 punctures on the 3d from the suture; sides of thorax rough. Legs sometimes wholly red. (L. 4½-6 l.) Extremely abundant in banks throughout England; rare in Scotland : ⊙, ✶.

110 Æthiops *Ste. M.* i. 179.—Broad, depressed, black : tarsi pitchy-red; elytra moderately striated, the striæ faintly, but distinctly punctured, with 4 impressed dots on the sutural edge of the 3d. (L. 5 l.) Taken near Hebden Bridge, Yorks. : 7.

111 varicornis *E. M. New.* i. 285. — *Ste. M.* v. 372. —Pitchy-black: mandibles, palpi, and 1st joint of antennæ pitchy-red, 3 following black, rest brown; thorax entirely black; elytra brown-black, punctate-striated; legs pitchy, tibiæ and tarsi lighter, 2 last segments of abdomen red. (L. 5 l.) In plenty, near Nottingham.

112 Marshallana *Ste. M.* i. 61. pl. iv. f. 4. — Pitchy-black, depressed : base of antennæ and tarsi pitchy-red; elytra broad, striated, the striæ obscurely punctured, the 3rd from the suture with 3 or 4 larger impressions, and the outer one, with distinct smaller ones. Sometimes pitchy-red, with the femora dusky, and the tibiæ and tarsi red. (L. 4½-5 l.) Mountains of Cumberland, &c. : 4—6.

113 nivalis *Pk.* i. 119.—He. Gyllenhalii. *Cur.* iii. pl. 103.—*Ste. M.* i. 62.—Black : slightly depressed; tips of the palpi and of the antennæ pitchy; tarsi and sometimes the tibiæ red; elytra striated, the striæ obsoletely punctured, 2 or 3 impressions near the 3d stria and some remote impressed dots on the margin. Sometimes pitchy; with the trochanters and legs rusty-red, tip of thighs and the tibiæ fuscous. (L. 4½-5 l.) Abundant throughout the southern part of Scotland; and especially in the mountainous districts : 3-5.

114 impressa *E. M. New.* i. 285. — *Ste. M.* v. 372. — Black : thorax very narrow, especially behind : elytra much depressed, striated, the 3d and 5th from suture with impressed dots; mandibles, palpi, antennæ, and legs sometimes reddish, or pitchy. (L. 5¼ l.) Taken in Scotland : 5-7.

22 Alpæus *Bonelli.*

(115 ‡ castaneus *Bon. Obs.* i. 55. — *Ste. M.* i. 63. — Pitchy-chestnut : mouth, antennæ, and legs rusty-red; elytra striated, the striæ with distinct somewhat remote impressed dots. (L. 4½ l.) Said to have been taken near Ashburton, Devon : 5.)

23 Leistus *Frölich.*

116 † nigricans *E. M. New.* i. 286. — *Ste. M.* v. 373. — Dull black, slightly iridescent : mouth and antennæ pitchy-red; thorax black, elongate; elytra rather narrow; femora and tibiæ black; tarsi pitchy. (L. 4½ l.) Near Manchester : 5.

117 spinibarbis *Fab. E.* i. 181. — *Pz. F.* xxx. f. 6. — *Ste. M.* i. 63. — Rather wide : above brilliant blue, sometimes with a greenish tinge; mouth, antennæ, and legs dull red, or brown; rarely ochreous; thorax glossy, slightly convex, base and anterior edge punctured, the sides finely punctured, and sometimes reddish, or pale; elytra punctate-striate; body black beneath. (L. 3½-4½ l.) Abundant in hedges near London : — 3-8, ✶.

118 fulvibarbis *Hoffm.*—*Cur.* iv. pl. 176. — *Ste. M.* i. 64. —Rather narrow and long : above deep blue-black, or violet; beneath pitchy; thorax very narrow at the base; elytra punctate-striate; mouth, antennæ, and

legs rusty-red. (L. 3-3½ l.) Rather local, Battersea fields, Kensington gardens, Southend, &c.: 2-5.

119 † indentatus *E. M. New.* i. 286. — *Ste. M.* v. 373. — Above deep purple-black: elytra punctate-striated, with a deep transverse indentation common to both, near their base; mandibles, palpi, antennæ, and legs rust-colour. (L. 3½ l.) Cromer in Norfolk: 6.

120 montanus *Dale.* — *Ste. M.* i. 64. pl. iv. f. 5. — Narrow and elongate; above deep blue; beneath pitchy-blue: thorax narrow, its sides bright rusty-red; elytra punctate-striate; mouth, antennæ, and legs rusty-red; tips of femora dusky; head and thorax sometimes greenish above. (L. 3½ l.) Found on the mountains of Cumberland and Westmoreland: also in Scotland and in Wales: 3-6.

121 Janus *E. M. New.* i. 286. — *Ste. M.* v. 373. — Dull red: head and thorax blue-black, the margin of the latter reddish; elytra reddish with an iridescent tinge, finely punctate-striate; mouth, palpi, antennæ, and legs rust-colour. (L. 4¼ l.) Abundant in the north of England: 5-6.

122 spinilabris *Fab. E.* i. 204. — *Pz. F.* xxxix. f. 11. — *Ste. M.* i. 65. — Oblong; rusty-red, palest beneath: elytra somewhat oval, punctate-striated, the lateral striæ faintest, with 3 or 4 impressions on the 3d stria; legs, antennæ, and mouth pale rust-colour, or ochreous-red. (L. 2½-3½ l.) Extremely common in hedges, &c. throughout England: ⊙, ✶.

123 rufescens *Fab. E.* i. 205. — *Ste. M.* i. 65. — Ca. terminatus *Pz.* vii. f. 2. — Oblong, rusty-red: head dusky-brown, or black; tips of the elytra and of the abdomen the same; mouth, antennæ, and legs very pale red, or ochreous; tip of elytra rarely immaculate; or occasionally adorned with a pale rusty crescent. (L. 3-3½ l.) Local: Coombe and Darenth woods; also near Carlisle, and at Netley and Berkeley Castle: 5-7.

Fam. 5. HARPALIDÆ *MacLeay.*

§ 1. *Claws* never denticulated: *ant. tarsi* alone of ♂ dilated; dilated joints 3-angular or cordate.

xxiv. Loricera *Ant.* curved, 3d and 3 following joints furnished with long bristles: *palpi* with terminal joint elongate-oval, truncate; *mentum* with a single tooth: *tho.* somewhat orbiculate-cordate, sessile: *ant. tarsi* in ♂ with 3 dilated joints.

xxv. Panagæus *Ant.* filiform, simple: *palpi* with terminal joint securiform: *mentum* with a bifid tooth: *tho.* orbicular, convex; *ant. tarsi* of ♂ with 2 dilated joints.

xxvi. Trimorphus *Ant.* simple: *labrum* entire: *palpi lab.* with terminal joint large, oval; *max.* with terminal joint longer than the 3d; *mentum* with a simple notch: *mand.* obtuse: *tho.* heart-shaped, truncate: *ant. tarsi* of ♂ with 3 dilated joints.

xxvii. Badister *Ant.* simple: *labrum* deeply notched: *mand.* obtuse: *palpi* with terminal joint elongate-ovate: *mentum* with a simple notch: *tho.* heart-shaped: *body* slightly depressed: *ant. tarsi* of ♂ with 3 dilated joints.

xxviii. Licinus *Ant.* simple: *labrum* narrow, deeply notched: *mand.* obtuse: *palpi* with terminal joint large, securiform: *mentum* with a simple notch: *tho.* somewhat quadrate: *body* depressed: *ant. tarsi* of ♂ with 2 dilated joints.

xxix. Epomis *Ant.* simple: *labrum* slightly notched: *mand.* acute: *palpi* with terminal joint elongate, securiform: *mentum* with a bifid tooth: *tho.* heart-shaped, truncate: *body* rather convex: *ant. tarsi* of ♂ with 3 dilated joints.

(xxx. Diplocheilus *Ant.* simple, short: *labrum* deeply notched: *mand.* acute: *palpi* with the terminal joint elongate, subovate, truncate: *mentum* with a simple notch: *tho.* somewhat heart-shaped: *elytra* elongate, convex: *ant. tarsi* of ♂ with 3 dilated joints.)

xxxi. Chlænius *Ant.* simple: *labrum* slightly notched: *mand.* acute: *palpi* with the terminal joint ovate, truncate: *mentum* with a bifid tooth: *tho.* truncate heart-shaped, or broadest behind: *elytra* faintly sinuated at the apex: *ant. tarsi* of ♂ with 3 dilated joints.

xxxii. Callistus *Ant.* simple: *labrum* scarcely notched: *palpi* with terminal joint elongate-ovate, attenuated at the tip: *max.* 1-jointed: *mentum* with an obtuse tooth: *tho.* heart-shaped, truncate, convex: *elytra* entire, pubescent: *ant. tarsi* of ♂ with 3 dilated joints.

§ 2. *Claws* sometimes toothed; *ant. tarsi* of ♂ only dilated; dilated joints mostly 3-angular, or heart-shaped.

xxxiii. Anchomenus *Mentum* with a simple tooth: *head* as wide as the *thorax*, which is heart-shaped, with the hinder angles acute: *body* slightly convex: *elytra* oblong: *ant. tarsi* of ♂ with 3 dilated joints.

xxxiv. Platynus *Mentum* with a bifid tooth: *head* narrower than the *thorax*, which is heart-shaped, with the hinder angles acute: *body* depressed: *elytra* sinuated at the tip: *ant. tarsi* of ♂ with 3 dilated joints.

xxxv. Sphodrus *Mentum* with a bifid tooth: *ant.* with the 3d joint as long as the two following united: *tho.* depressed, obcordate-truncate: *elytra* entire: *wings* 2: *ant. tarsi* of ♂ with 4 dilated joints.

xxxvi. Pristonychus *Claws* toothed: *mentum* with a bifid tooth: *labial palpi* with the terminal joint cylindric, truncate: *ant.* with 3d joint above twice as long as the 2d: *tho.* elongate, heart-shaped: *elytra* elongate-ovate, entire: *wings* 0: *ant. tarsi* of ♂ with 3 dilated joints.

xxxvii. Agonum *Mentum* with a simple tooth: *tho.* somewhat orbicular or subovate, the hinder angles rounded: *body* depressed: *elytra* faintly notched at the tip: *ant. tarsi* of ♂ elongated, and with 3 dilated joints.

xxxviii. Olisthopus *Mentum* not toothed: *tho.* orbicular: *body* depressed: *elytra* faintly sinuated at the tip: *tarsi* with basal joints elongated, of the ♂ *anter.* with 3 dilated ones.

xxxix. Odontonyx *Claws* toothed: *mentum* with an acute tooth: *palpi* with terminal joint fusiform, acuminated at the tip: *tho.* nearly orbicular, rounded behind: *body* slightly convex: *elytra* obliquely truncate: wings 0: *ant. tarsi* of males with 3 dilated joints.

xl. Synuchus *Claws* toothed: *mentum* with an acute tooth: *palpi* with the terminal joint securiform: *tho.* rounded behind: *body* rather convex: *elytra* entire: *wings* 2: *ant. tarsi* of males with 3 dilated joints.

xli. Calathus *Claws* toothed: *mentum* with a bifid tooth: *palpi* with the terminal joint cylindric, truncate: *head* triangular: *tho.* somewhat quadrate, depressed, mostly as wide at the base as the *elytra*, the latter elliptic, entire: *ant. tarsi* of ♂ with 3 dilated joints.

xlii. Platyderus *Mentum* with a bifid tooth: *palpi* with terminal joint ovate-cylindric, truncate at tip: *tho.* wide, depressed, somewhat quadrate: *body* flat: *elytra* entire: wings 0: *ant. tarsi* of ♂ with 3 dilated joints.

xliii. Argutor *Mentum* with a bifid tooth: *palpi* with terminal joint fusiform: *tho.* somewhat heart-shaped, truncate: *body* flat, narrow: *ant. tarsi* of ♂ with 3 dilated joints.

xliv. Pogonus *Mentum* with a bifid tooth: *palpi* with terminal joint ovate, truncate: *labrum* notched: *tho.* somewhat quadrate: *elytra* flat, entire: *ant. tarsi* of ♂ with 2 dilated joints.

xlv. Pœcilus *Mentum* with a broad obtuse tooth: *palpi* cylindric: *tho.*

nearly quadrate, widest behind: *elytra* slightly convex and waved at the tip: *ant. tarsi* of ♂ with 3 dilated joints: — colours variable, metallic.

xlvi. Sogines *Mentum* with a bifid tooth: *palpi* robust, the terminal joint obtusely truncated: *head* large: *tho.* wide, with a raised line on each side, at the hinder angle: *body* depressed: *ant. tarsi* of ♂ with 3 dilated joints.

xlvii. Omaseus *Mentum* with a bifid tooth: *palpi* cylindric, truncate: *head* subovate: *tho.* somewhat quadrate, hinder angles acute, or rounded: *elytra* rather depressed, entire: *ant. tarsi* of ♂ with 3 dilated joints.

xlviii. Steropus *Mentum* with a broad bifid tooth: *palpi* with terminal joint ovate: *ant.* compressed: *head* porrect: *tho.* suborbicular: *elytra* ovate, somewhat convex, entire: *wings* 0: *ant. tarsi* of ♂ with 3 dilated joints.

xlix. Miscodera *Mentum* with a small obtuse simple tooth: *palpi* with terminal joint elliptic, truncate: *head* small: *tho.* globose, very slightly narrowed behind: *elytra* remote, ovate, convex: *ant. tarsi* of ♂ with 3 dilated joints.

l. Broscus *Mentum* with an obtuse simple tooth: *palpi* with terminal joint, cylindric, truncate: *head* large, suborbicular: *tho.* very much narrowed behind, somewhat heart-shaped: *body* elongate, convex: *ant. tarsi* of ♂ with 3 dilated joints.

li. Stomis *Mentum* with a simple tooth: *palpi* with terminal joint ovate-truncate: *mand.* very long, porrected, acute: *tho.* heart-shaped; *body* elongate, narrow, somewhat convex: *ant. tarsi* of ♂ with 3 dilated joints.

lii. Patrobus *Mentum* with a bifid tooth: *palpi* with terminal joint fusiform, truncate: *labrum* straight: *tho.* heart-shaped; hinder angles with a raised line: *body* slightly convex: *ant. tarsi* of ♂ with 2 dilated joints.

(liii. Cophosus *Mentum* with a bifid tooth: *palpi* stout, terminal joint elongate-ovate: *ant.* short: *body* long, cylindric, parallel: *wings* 0; *ant. tarsi* of ♂ with 3 dilated joints.)

liv. Pterostichus *Mentum* with a short bifid tooth: *palpi* robust, terminal joint elongate-ovate: *ant.* compressed: *tho.* somewhat heart-shaped, truncate: *body* flat: *ant. tarsi* of ♂ with 3 dilated joints.

lv. Adelosia *Mentum* with a bifid tooth: *palpi* very slender: *ant.* rather short and stout: *tho.* much narrowed behind: *body* very flat: *ant. tarsi* of ♂ with 3 dilated joints.

lvi. Platysma *Mentum* with a stout, bifid tooth: *palpi* slender, terminal joint somewhat fusiform, truncate; *tho.* rather quadrate, narrower than the *elytra*, which are somewhat ovate: *body* slightly depressed: *wings* ample: *ant. tarsi* of ♂ with 3 dilated joints.

lvii. Abax *Mentum* with a bifid tooth: *palpi* robust; terminal joint attenuated at the base, truncate: *tho.* square, as wide as the *elytra*, the latter united, and have an elevated line on the shoulder: *body* very much depressed: *wings* 0: *ant. tarsi* of ♂ with 3 dilated joints: — colour black.

lviii. Cheporus *Mentum* with a bifid tooth: *palpi* rather slender: *ant.* with short joints, submoniliform: *tho.* nearly as wide as the *elytra*, which are separate, ovate, and somewhat convex: *body* flat: *ant. tarsi* of ♂ with 3 dilated joints: — colour metallic.

lix. Oödes *Mentum* with a simple tooth: *palpi* long, slender, terminal joint cylindric, truncate; *tho.* as wide as the *elytra*, the latter broad: *wings* 2: *body* broad, rather convex: *ant. tarsi* of ♂ with 3 dilated joints.

lx. Amara *Mentum* with a bifid tooth: *palpi* with terminal joint ovate, truncate: *ant.* linear: *tho.* as wide, at base, as the *elytra*, the latter slightly notched at the tip, and with the 2d stria shortened: *body* somewhat convex, elongate-ovate: *ant. tarsi* of ♂ with 3 dilated joints.

lxi. Bradytus *Mentum* with a simple tooth: *palpi* with terminal joint oval, truncate: *ant.* slender: *tho.* nearly as wide as the elytra, narrowed be-

hind, somewhat heart-shaped : *body* convex : *ant. tarsi* of ♂ with 3 dilated joints.

lxii. CURTONOTUS *Mentum* with a bifid tooth : *max. palpi* with 3d joint long, clavate : *ant.* short : *tho.* somewhat transverse, narrowed behind : *body* elongate, ovate, very convex : *wings* ample : *ant. tarsi* of ♂ with 3 dilated joints ; intermediate *tibiæ* of ♂ tuberculated and spinose.

lxiii. ZABRUS *Mentum* with an obtuse simple tooth : *max. palpi* with 3d joint not longer than 2d, slightly clavate : *ant.* linear : *tho.* broadest behind : *body* gibbous : *elytra* very convex, slightly emarginate at the tip : *wings* 2, ample : *ant. tarsi* of ♂ with 3 dilated joints.

§ 3. *Claws* never toothed ; *ant.* and *intermediate tarsi* of ♂ dilated ; dilated joints mostly 4-drate.

lxiv. HARPALUS *Mentum* with a simple obtuse tooth : *palpi* with terminal joint fusiform, truncate : *ant.* with 2 basal joints naked : *tho.* transverse, as broad at the base as the *elytra*, which are more or less notched at the tip : *body* elongate, ovate, somewhat convex : *tibiæ* spinose.

lxv. ANISODACTYLUS *Mentum* not toothed : *palpi* with terminal joint nearly cylindric, truncate : *tho.* somewhat quadrate, or trapezoid : *elytra* ovate, deeply striated : *body* oblong, flattish : ♂ with 4 *ant. tarsi* unequally dilated, basal joint small, 4th largest and heart-shaped.

lxvi. PANGUS *Mentum* with a simple tooth : *palpi* with terminal joint somewhat cylindric, truncate : *ant.* short : *tho.* narrowed behind, the hinder angles rounded : *elytra* wide, somewhat remote, slightly waved at the tip : *anter.* and *interm. tarsi* of ♂ with 4 equally dilated joints.

lxvii. ACTEPHILUS *Mentum* with an obtuse central tooth : *palpi* with terminal joint longest, rather acute, truncate : *ant.* short, apical joint ovate : *tho.* transverse ; hinder angles rounded : *elytra* broad : *anter. legs* stout, simple ; their *tarsi* and the *interm.* ones in ♂ with 4 nearly equally dilated joints.

lxviii. OPHONUS *Mentum* transverse, short, deeply notched, with a minute simple tooth : *max. palpi* with terminal joint stout, ovate : *tho.* somewhat 4-drate, rarely with rounded angles, punctured : *body* pubescent : *elytra* faintly sinuated at the tip : *ant.* and *inter. tarsi* of ♂ with 4 dilated joints.

lxix. DIACHROMUS *Mentum* with an obtuse, stout tooth : *max. palpi* with terminal joint ovate, truncate : *tho.* nearly 4-drate, punctured : *body* very pubescent : *elytra* slightly waved at the tip : *ant.* and *inter. tarsi* of ♂ dilated, the penult. joint transverse, heart-shaped.

lxx. STENOLOPHUS *Mentum* not toothed : *palpi* with terminal joint ovate-acuminate, truncate : *tho.* somewhat orbicular, the hinder angles rounded : *body* glabrous, impunctate : *elytra* sinuate-truncate at the tip : *anter.* and *inter. tarsi* of ♂ with 3 dilated joints.

lxxi. MASOREUS *Mentum* not toothed : *palpi* with terminal joint cylindric, truncate : *tho.* transverse, its hinder margin with a transverse lobe : *elytra* rather distant oblong, depressed, faintly truncate at the tip : *ant.* with nearly equal joints : *anter.* and *inter. tarsi* of ♂ with 3 dilated joints.

lxxii. TRECHUS *Mentum* with a simple tooth : *palpi* with the terminal joint conic, acute : *tho.* heart-shaped, truncate, the hinder angles obtuse, or rounded : *body* ovate, slightly convex : *elytra* entire : *anter.* and *inter. tarsi* of ♂ with 3 dilated joints.

lxxiii. BLEMUS *Mentum* with the centre of its notch slightly produced : *palpi* with the terminal joint as long as the 3d, conic, acute : *tho.* narrowed behind, hinder angles acute : *body* elongate, depressed : *elytra* entire : *anter. tarsi* of ♂ with 3 distinct dilated joints ; *inter.* slightly dilated.

lxxiv. Epaphius. *Mentum* with a simple tooth: *palpi* with terminal joint longer than 3d, conic, acute: *tho.* transverse, heart-shaped, rounded behind, remote from *elytra*, which are ovate, broad, convex, rounded at tip: *wings* 0: *anter. tarsi* of ♂ with 2 dilated joints; *inter.* slightly dilated.

lxxv. Aëpus *Mentum* with a central simple tooth: *palpi* with terminal joint slender, attenuated: *mand.* porrected, much toothed: *head* large: *eyes* minute: *tho.* obcordate-truncate: *elytra* depressed, slightly notched at the tip: *wings* 0: *tarsi* slightly dilated, very pubescent beneath, *anter.* with a curved spine below on the penult joint.

24 Loricera *Latreille.*

124 pilicornis *Fab. E.* i. 193. — *Don.* xi. pl. 367. f. 1. — *Ste. M.* i. 69.— Brassy, with a greenish tinge above, black beneath: elytra wider than the thorax, punctate-striate, with 3 deep impressions between the 3d and 4th striæ; thighs brassy-green; shanks and tarsi pale reddish-yellow. (L. 3-3½ l.) Abundant near London, beneath mosses, &c.: also found in Scotland and Wales: ✶, ⊙.

25 Panagæus *Latreille.*

125 4-pustulatus *Sturm. D. F.* iii. 72. — *Ste. M.* i. 70. pl. 4. f. 6. — Dull black, pubescent, narrow: thorax orbicular: elytra punctate-striated, red anteriorly, the base, suture, and hinder portion black, the latter with a round red spot on each elytron. (L. 3-3½ l.) Local; gravel pits, Coombe Wood, *5*; Hertford, 7; Southend, *5*.

126 crux-major *L.* ii. 673. — *Don.* xiv. pl. 477. f. 2. — *Ste. M.* i. 71. — Dull black, pubescent, wide: thorax transversely ovate; elytra punctate-striate, red, the base, suture, a transverse band in the middle, and the tip black. Varies, with the central band on the elytra interrupted; and with the hinder portion black, and having a red spot. (L. 3½-4 l.) Also local: Shooter's hill; Norwood; Cobham, &c.: plentiful near Cambridge, 2; and in Berks, Netley, &c.: 4-*5*.

26 Badister *Clairville.*

127 cephalotes *De J. S.* ii. 406. — *Cur.* iii. pl. 139. — *Ste. M.* i. 72. — Black: head as wide as the thorax, the latter and elytra anteriorly red, their apex black, the suture, a transverse common crescent in the middle, scutellum, and legs red. (L. 3-4 l.) Local: roots of willows, Battersea fields, Coombe, Darenth, &c.; Brompton; Winterbourne Stoke, Wilts: 3-4.

128 suturalis *Ste. M.* i. 73. pl. *5*. f. 1. — Black: head scarcely as wide as the thorax, the latter narrow behind and red; elytra also red anteriorly, black at the tip, the scutellum, suture, and lateral margins, and the legs red. (L. 2½-3 l.) Hertford; Winterbourne, Stoke, &c.: 3-*5*.

129 bipustulatus *Fab. E.* i. 203. — *Don.* xv. pl. 516. — *Ste. M.* i. 72. — Black: head narrower than the thorax, which is red; elytra red anteriorly, black behind, the suture and a round, or 3-angular, common spot red: legs and basal joint of antennæ pale red. The spot on the elytra is occasionally very large, or almost wanting. (L. 2½-3½ l.) Common beneath bark of felled trees, &c.: ✶, ⊙.

130 microcephalus *Ste. M.* v. 373. — Black: head very small, round; thorax elongate, narrow behind; elytra red, with two blue-black spots; scutellum and legs red. (L. 2-2½ l.) Found near London: 3-4.

131 lacertosus *Knoch.*— *Sturm. D. F.* iii. pl. 75. f. n. — *Ste. M.* v. 374. — Black: head narrower than the thorax, which, with the scutellum and legs, is red; elytra broad, red anteriorly, black posteriorly, the suture and an

angulated common spot, towards the apex, red. (L. 3 l.) Rare; taken near London and in Hants.

27 Trimorphus *Stephens.*

132 scapularis *Ste. M.* i. 180. — Black: head with 2 frontal impressions, thorax with the lateral margin more or less pale; elytra faintly striated, with 2 or 3 impressions between the 2d and 3d striæ; the outer margin, suture towards the tip, and a squarish patch on the shoulders, pale; legs, palpi, and antennæ also pale, with dusky rings. (L. 2½ l.) Earl's Court, 6; Carlisle, 2-3.

133 confinis *Ste. M.* i. 181. pl. ix. f. 5. — Pitchy-black; rather slender: thorax with basal and lateral margins broadly pale; elytra pale dusky, faintly striated, with a square pale spot on the shoulder, the suture and margin palish: legs, antennæ, and palpi pale, the latter ringed, rather dusky. The humeral spot is sometimes wanting. (L. 1¾-2 l.) Battersea fields, 5; Darenth, 7; Norfolk; and Loch Awe, Scotland.

134 † Erro *Ent. M.* (*Newman*), v. 489. — Black: thorax above and elytra brassy-black, shining, the latter striated rather deeply: legs pitchy; antennæ blackish, the basal joint white both at its base and tip, the 2d pale at the tip only. (L. 2¾ l.) Near London. (Camberwell or Dulwich?)

28 Licinus *Latreille.*

135 depressus *Pk. F.* i. 110.— *Cur.* i. pl. 75. — *Ste. M.* i. 73.— Wingless; deep black and somewhat opaque: thorax rounded, punctured; elytra very finely punctate-striated, the interstices minutely punctured; the base retuse. (L. 5 l.) Near Dorking; Kimpton, Hants; and in Norfolk and Suffolk: not common: 3-9.

136 ‡ Cassideus *Fab. E.* i. 190. — *Clair.* ii. 104. pl. 16. f. a. — *Ste. M.* i. 73. — Wingless; deep black, opaque: thorax squarish, thickly punctured; elytra obscurely punctate-striate; the spaces between flat, faintly, but thickly punctured; body glossy black beneath. (L. 6 l.) Aldborough, Suff.: 7.

137 Silphoides *Fab. E.* i. 190. — *Ste. M.* i. 73. pl. v. f. 2. — Winged; black, slightly shining: thorax rounded, punctured; elytra ovate, with 3 slightly elevated lines, punctate-striate, the interstices thickly and deeply punctured, the 3rd, 5th, and 7th elevated, tip deeply sinuated; body beneath and legs glossy black. (L. 6½-7 l.) Abundant at Dorking, 5-9: also taken occasionally at Dover, and once in London: 9.

29 Epomis *Bonelli.*

138 circumscriptus *Duft.* ii. 166. — *Ste. M.* i. 72. pl. v. f. 3. — Head and thorax dull brassy-green, with scattered punctures: elytra dusky, with a greenish tinge, the lateral margin broadly ochreous-yellow, disc deeply striated, spaces smooth and raised; antennæ and legs yellowish. (L. 7-9 l.) Very rare in England, if truly indigenous: locality unknown.

30 Diplocheilus *Brullé.*

(139 impressus *Fab. E.* i. 188. — *Ste. M.* i. 75. — Dull black, impunctate: thorax narrowed in front, nearly as wide as elytra behind, the base with an impression on each side; elytra faintly striated, the striæ impunctate, and no short stria near the scutellum, the outer stria accompanied by a raised line, spaces smooth. (L. 10 l.) An Indian insect, erroneously introduced into the British list.)

31 Chlænius *Bonelli.*

140 † sulcicollis *Pk. F.* i. 153.—*Cur.* ii. pl. 83. — *Ste. M.* i. 77. — Black: thorax widest behind, sparingly punctured in front, rough behind, pilose, the disc with 4 raised longitudinal shining lines; elytra rough, pilose, faintly punctate-striate. (L. 6 l.) Covehithe, Suffolk.

141 holosericeus *Fab. E.* i. 193. — *Ste. M.* i. 77. pl. v. f. 4. — Dull brass; pubescent: head shining, punctured; thorax widest behind, thickly and ruggedly punctured, with 2 foveæ; elytra slightly striated, interstices transversely granulated; mouth and palpi pitchy; body beneath, legs, and antennæ black. (L. 6 l.) Local; not uncommon near Whittlesea Mere, 8; also found at Fen Ditton, Berks.

142 nigricornis *Fab. E.* i. 198. — *Ste. M.* i. 77. — Ca. holosericeus v. *Pz. F.* xi. f. 9. 8. c. — Head and thorax brassy-copper, the latter widest behind, and punctured: elytra shining green, finely granulated and striate, the striæ obscurely punctate: body beneath black; legs and basal joint of antennæ pitchy. Legs and basal joint of ant. sometimes red; head and elytra bluish, &c. (L. 4½-5 l.) In marshy places near London, common in spring and autumn; Battersea; also at Whittlesea Mere: 6-7.

143 melanocornis *Ziegler.* — *De J. S.* ii. 350. — *Ste. M.* i. 78. — Greenish-black: head bronzed, slightly punctured; thorax widest behind, thickly punctured, coppery; elytra broad, green-blue, obscurely punctate-striate, interstices minutely granulated; apex obtuse; legs and basal joint of the antennæ bright rusty-red; rest of the latter brown. (L. 5½ l.) Found at Whittlesea Mere, and near London: 6-7.

144 fulgidus *Ste. M.* i. 78. pl. v. f. 5.— Above brilliant blue-green, beneath blue-black: head smooth; thorax widest behind; green, thickly punctured; elytra with the apex produced, changeable blue-green, finely striated and granulated; basal joint of antennæ and the legs rusty-yellow. (L. 5 l.) Rare: taken at Whittlesea: 6.

145 Agrorum *Oliv. E.* iii. 86. — *Ste. M.* i. 79. pl. v. f. 6.— Bright green: thorax widest behind, finely punctured; elytra obscurely striated, interstices finely granulated, the margin broadly yellow; legs, mouth, basal joint of the antennæ, and a broad margin to the abdomen pale yellow. (L. 5½ l.) Very rare: Plymouth; Bristol in spring; also in Derbyshire: 4.

146 vestitus *Fab. E.* i. 200.—*Pz. F.* xxxi. f. 5.— *Ste. M.* i. 79.—Brassy-green; head obscurely wrinkled; thorax narrowed behind, punctate, its margin pale; elytra pubescent, rather obscure, punctate-striate, the spaces ruggedly punctured; the margin dull yellow, broadest at the tip; base of antennæ and legs also dull yellow. (L. 5-5½ l.) Not uncommon in the fields, &c., to the north of London; 2-5. Found also at Bottisham, Cambs.

(147 † xanthopus *Ste. M.* i. 80.—Dull brass: head and thorax slightly shining, the latter narrowed behind, thickly punctured; elytra obscurely striated, the striæ remotely punctured; interstices nearly smooth; legs, labrum, palpi, and 3 basal joints of antennæ rusty-red. (L. 8½ l.) An uncertain native of Britain.)

32 Callistus *Bonelli.*

148 lunatus *Fab. E.* i. 205. — *Cur.* iv. pl. 180.— *Ste. M.* i. 81.— Bluish-black: thorax dull red; elytra ochreous yellow, faintly striated, with a roundish black spot at the basal angle, a 2d larger, and transverse, towards the middle, reaching nearly to the suture, and a 3d at the tip, united externally to the central one; thighs and tibiæ yellowish at the base; mouth and 2 basal joints of ant. rusty. (L. 3½ l.) Local; near Dover, Canterbury, &c., Kent; Leith hill, Surr.; Burghfield, Berks: 3-10.

33 Anchomenus *Bonelli.*

149 prasinus *Fab. E.* i. 195. —*Pz. F.* xvi. f. 6. — *Ste. M.* i. 82. — Blue-black: head and thorax greenish; elytra simply striated, reddish, with a large blue-black dorsal spot, behind the middle; legs, palpi and antennæ pale red. (L. 3-3½ l.) Abundant in hedges, &c., near London; also in Scotland, &c.: 3-6.

150 albipes *Ill. K.* i. 54. —*De J. Ic.* ii. pl. 117. f. 3. — *Ste. M.* i. 82. — Black, or pitchy: thorax somewhat heart-shaped; elytra simply striated, the margin pale; legs and antennæ pale testaceous, tip of the latter darker. Variable in colour, according to maturity; in some cases pale rust with the elytra paler. This var. is Ca. sordidus *Marsham.* — *Ste. M.* i. 82. (L. 3-3½ l.) Extremely plentiful in banks, &c., within the metropolitan districts; in Cumberland, &c. ⁎; ☉.

151 oblongus *Fab. E.* i. 186. —*De J. Ic.* ii. pl. 117. f. 4. — *Ste. M.* i. 82. —Wingless; pitchy: thorax oblong; elytra strongly punctate-striate, the striæ somewhat crenate; antennæ and legs pale testaceous; palpi pitchy. (L. 2-2½ l.) Rather local; found in marshy places: Battersea fields; Lawrance Waltham; Bottisham Fen; Norwich, &c.: 3-6.

34 Platynus *Bonelli.*

152 angusticollis *Fab. E.* i. 182. — *Sturm. D. F.* v. pl. 130. — *Ste. M.* i. 83. — Pitchy-black, shining: thorax very glossy, convex, transversely rugged; elytra short, ovate, very obscurely punctate-striate; interstices convex; antennæ, palpi and legs pitchy-brown. (L. 5-6 l.) Common near London, on Epping Forest, at Coombe, Darenth, &c., and in Devonshire; near Halifax, &c.: 3-5.

(153 ‡ scrobiculatus *Fab. E.* i. 178. — *Pz. F.* cix. f. 7. — Wingless: deep pitchy-black: head with 2 bright red spots; thorax with 3 impressed lines; elytra mostly striated, with 3 punctures on the disc; antennæ, palpi and legs red. (L. 6 l.) Supposed to have been taken near Ashburton, Devon.)

35 Sphodrus *Clairville.*

154 leucophthalmus *L.* ii. 668. — *Ste. M.* i. 84. — Ca. planus *Pz. F.* xi. f. 4. — Slightly depressed; opaque black, smooth: elytra very finely punctate-striated; antennæ, palpi and legs pitchy-black. (L. 10-12 l.) Local; found in cellars, outhouses, &c., in and near London: 3-8.

36 Pristonychus *De Jean.*

155 Terricola *Ill. K.* i. 184. —*De J. Ic.* ii. pl. 107. f. 1. — *Ste. M.* i. 85. — Wingless; pitchy-black, slightly depressed: thorax and elytra bluish-black, the latter brightest and finely punctate-striate; legs pitchy; mouth and antennæ reddish brown. (L. 6-8½ l.) Also found in cellars, &c., in and about London, ☉.

37 Agonum *Bonelli.*

156 marginatum *L. F.* No. 804. — *Pz. F.* xxx. f. 14. — *Ste. M.* i. 85. — Shining green or coppery: elytra (obscure in ♀) finely punctate-striate, the disc with 3 punctures, the margin yellow; thighs pitchy; tibiæ yellow; base of antennæ testaceous. (L. 4-5 l.) Battersea Fields; Southend; Kingston, &c.: Isle of Ely, Bottisham: 4-6.

157 6-punctatum *L.* ii. 672. — *Sam.* pl. 3. f. 20. — *Ste. M.* i. 86. —Black-brass, shining: head and thorax golden-green; elytra red-copper (or brassy-black), finely punctate-striate, the 2d interstice with 6 impressions. Colour extremely variable above, in some cases nearly quite black (L. 3½-4½ l.)

Local: occasionally very abundant; at Coombe Wood; Battersea fields; Dorking; Birch Wood; Epping Forest; in Norfolk, Cambr., &c.: 4-7.

158 austriacum *Fab. E.* i. 198.—*Cur.* iv. pl. 183.—*Ste. M.* i. 87.—Black: head green; thorax coppery-green, faintly wrinkled transversely; elytra green, coppery towards the suture, striated, with a row of impressed dots on the 3d stria; legs black. (L. 4 l.) Very rare: Kingsbridge; Devon: Clengre, Glouc., and Cornwall: *5*.

159 fulgens *Loud. M. N. H.* (*Davis*) v. 247 *note.* — *Ste. M.* v. 374.—Green-black; above brilliant fiery copper, purplish, or steel black: head rugged; elytra punctate-striate, interstices minutely strigose; femora and tibia black with a purplish tint; tarsi and base of antennæ black. (L. 3-3½ l.) High moors near Halifax: in winter.

160 parumpunctatum *Fab. E.* i. 199.—*De J. Ic.* ii. pl. 119. f. 1.—Brassy-black: head and thorax coppery-green, or brassy, finely strigose transversely; elytra brownish-brass, coppery or greenish, rarely violet or bluish, finely striated, 3d interstice with 3 impressions; tibiæ, tarsi and basal joint of antennæ testaceous.

Var. ? Ag. plicicolle *Nicolai*, 19.—*Ste. M.* i. 87. — Thorax transversely rugged, antennæ and legs pitchy; elytra finely striated. (L. 3-4 l.) A very abundant species near London, beneath stones, mosses, &c., ⁎, ⊙.

161 viduum *Ill. K.* i. 196. — *Pz. F.* xxxvii. f. 8. — *Ste. M.* i. 88. — Ovate, black; above obscure brassy-green, slightly shining: thorax faintly strigose; elytra oblong-ovate, rather deeply punctate-striate, interstices slightly convex, the 3d from the suture with 3 impressions. (L. 3½-4 l.) Common near London in Battersea and Copenhagen fields, &c.: also in Salop; at Kimpton, &c. ⊙.

162 versutum *Sturm. D. F.* v. 192. pl. 132. *a. A.* — *Ste. M.* i. 88. — Ovate, black or brassy; above obscure brassy-green, shining: thorax convex, smooth; elytra broad, finely punctate-striate, the interstices flat, 3d from the suture with 3 impressions. (L. 4 l.) Less common than the last, in similar localities: 7-4.

163 læve *De J. S.* iii. 151. — *Ic.* ii. pl. 120. f. 1. — *Ste. M.* i. 88. — Ovate, black; above with a greenish tinge: thorax broad, a little convex; elytra scarcely wider than the thorax, obscurely punctate-striate, interstices flattish, 3d with 3 faint impressions. (L. 3½-4 l.) Found near London: 3-*5*.

164 mœstum *Sturm. D. F.* v. 187. pl. 134. f. b. *B.* — *Ste. M.* i. 89. — Black; slightly shining: above sometimes bluish-black; thorax broad; elytra ovate, broad, punctate-striate, interstices rather convex, 3d with 3 deep impressions. (L. 3½-4 l.)

Var. ? Ag. emarginatum *Gyll.* iv. 450. — *Ste. M.* i. 89. — Elytra with the shoulders very much elevated, the region of the scutellum depressed. Coombe Wood; Battersea fields; Bristol; Netley, &c. ⊙.

165 afrum *Duft.* ii. 138. — *Sturm. D. F.* v. 187. pl. 134. *a. A.* — *Ste. M.* i. 89. — Narrow; black, shining: thorax rather elongate, wide, slightly convex; elytra oblong-ovate, slightly striated, the striæ not punctured, interstices flattish, 3d with 3 impressions. (L. 3½ l.) Near London, Bristol, and in Norfolk. 3-*5*.

166 Bogemanni *Gyll.* iii. 697. — *Ste. M.* i. 89. — Depressed; pitchy-black, paler beneath: thorax slightly heart-shaped, wide, not dilated on the sides; elytra rather faintly striated, the striæ obscurely punctured and disposed in pairs, the interstices finely strigose. (L. 4 l.) Found, but rarely, near London and Bristol. 3-*5*.

167 4-punctatum *De Ger.* iv. 102. — *Ste. M.* i. 90. — *De J. Ic.* 122. f. *5*. — Brassy-black: thorax transverse, with hinder angles obtuse; elytra

finely striated, the 3d interstice from the suture with 4 deep impressions; antennæ and legs pale. (L. 2½ l.) Rare: North of England: 5.

168 consimile *Gyll.* ii. 160. — *Ste. M.* i. 90. — Oblong, slightly convex; glossy blue-black: mandibles pitchy-red; palpi and antennæ black; thorax transverse, finely wrinkled transversely, basal angles rather distinct; elytra with a greenish tinge, faintly striated, striæ not punctured; 3 minute impressions on the 3d interstice; thighs bluish; tibiæ and tarsi black. (L. 2½-3 l.) — Local: Plaistow marshes: 3-7.

169 atratum *Stu. D. F.* v. 189. pl. 135. f. *a. A.* — *Ste. M.* i. 91. — Black: thorax short and narrow, obscurely wrinkled; elytra with a coppery tinge, faintly striated, with 3 or more punctures on the 2d and 3d from the suture, and a continuous series on the outer one. (L. 3 l.) Near London: 3-5.

170 micans *Nicol. C. A. H.* 19. ? — *Ste. M.* i. 91. — Ag. pelidnum *Stu. D. F.* v. 194. pl. 135. f. *b, B.* ? — Black; above greenish-brass or blackish: thorax transverse smooth; elytra finely striated, their inflexed margin and the legs dusky-testaceous or pitchy; antennæ pitchy. (L. 3 l.) Near London and Swansea: 3-5.

171 cursitor *Kirby.* — *Ste. M.* i. 91. — Pitchy-brass, rather bright above: elytra wide, rather short, finely striated, the outer margin with an interrupted row of punctures; legs testaceous; antennæ fuscous, with the base pitchy. (L. 3 l.) London and Ipswich: 3-5.

172 piceum *L.* ii. 672. — *Ste. M.* i. 91. — Black: thorax narrow; elytra convex shining, faintly striated, pitchy-brown, the margins palest; legs pitchy-red; antennæ shorter than the body, black. (L. 3¼ l.) Near London; and in Salop, Suff. and Norf.: 3-5.

173 Simpsoni *Spence.* ? — *Ste. M.* i. 92. — Black: thorax widish and short, obsoletely wrinkled; elytra slightly convex, deep pitchy-brown, or black, simply striated, the margin with an interrupted row of dots; legs and antennæ pitchy. (L. 3½ l.) Battersea fields; Netley, Salop; Bottisham, &c.: 8-4.

174 pullum *Hoffmansegg.* — *Ste. M.* i. 92. — Pitchy-black, rather narrow: thorax smooth; elytra slightly convex, moderately striated, chestnut-black, with 3 or 4 faint punctures on the 3d stria, and an interrupted row on the margin; legs pitchy; tips of thighs darkest; antennæ and palpi black. (L. 3 l.) London district; Netley; in Devon; and at Winterborne Stoke under bark of willows: 12-5.

175 striatum *Ste. M.* i. 92. — Pitchy, paler beneath: thorax pitchy-black, ruggedly-wrinkled throughout, the margins paler; elytra pale chestnut, flattish, deeply striated, the striæ obscurely punctured, and some larger punctures on the marginal one; legs pale red; antennæ pitchy, apex dusky. (L. 3 l.) London district: 3-7.

176 fuliginosum *Knooch.* — *Pz. F.* cviii. f. 5. — *Ste. M.* i. 93. — Pitchy-black, shining: thorax quadrate, slightly elongate, very glossy; elytra wide, short, ovate, rather convex, finely striated, striæ simple; colour pitchy-chestnut or black; legs and base of antennæ rusty-piceous. (L. 3-3½ l.)

Var. Ag. fuscipenne *Ste. M.* i. 93. — Shining black: elytra rather oblong-ovate, fuscous; thorax slightly wider behind. Battersea fields; Coombe Wood; North of England, &c.: 4-7.

177 picipes *Fab. E.* i. 203. — *De J. Ic.* ii. pl. 122. f. 2. — *St. M.* i. 93. — Oblong; pitchy-black, shining: thorax slightly ovate, with a deep pit at the base; elytra oblong, finely striated, rather convex, fuscous-brown, livid, or testaceous; legs pitchy; antennæ pitchy at base, apex black. (L. 3-3½ l.) Common near London, at Netley and Longmont; Salop; Whittlesea Mere; Suff. &c.: 11-5.

178 gracile *Stur. D. F.* v. 197. pl. 136. f. *a. A.* — *Ste. M.* i. 94. — Oblong, narrow; pitchy-black, shining: thorax rather short, somewhat 4-drate, and a little narrowed behind; elytra oblong, finely striated, with remote impressions on the 3d interstice; legs and antennæ black; tibiæ and tarsi sometimes dull rusty-pitchy. (L. 3½ l.) Occasionally near London, in spring.

179 pelidnum *Pk. F.* i. 134. — *De J. Ic.* ii. 122. f. 4. — *Ste. M.* i. 94. — Oblong; pitchy-black, shining: thorax oblong, faintly wrinkled, without pits; hinder angles obtusely rounded; elytra pitchy-brown, very faintly striated, the striæ impunctate; legs pitchy-red; mouth and base of antennæ pitchy, apex of the latter fuscous. (L. 3-3½ l.) Near London; more abundant at Whittlesea Mere; and twice at Bottisham: 11-7.

180 affine *Ste. M.* i. 94. — Oblong; pitchy-black, shining: thorax rather short, smooth, with an impression on each side of the base; elytra somewhat faintly striated, striæ impunctate; antennæ and legs deep pitchy-black. (L. 3½ l.) Apparently rare; taken near London, in Battersea fields: 3-6.

181 pusillum *Ste. M.* i. 95.—Deep shining black, with a faint tint of violet: thorax short, broadish, obsoletely wrinkled transversely; elytra deeply striated, the marginal striæ obsoletely punctured; legs, mouth and antennæ deep black. (L. 2¼ l.) Near London: 4.

182 livens *Gyll.* ii. 149. — *Ste. M.* i. 95. — Ag. 2-punctatum *Stu. D. F.* v. pl. 133. f. *B. b.* — Oblong, depressed, black, shining: forehead with 2 red dots; thorax faintly, but obtusely, angulated behind, with a deep punctured impression on each side; elytra slightly, but simply striated; apex and body testaceous; mouth and legs rusty-red; antennæ rusty, with the base of the 2d, 3d, and 4th joints pitchy. (L. 3½-4 l.) A maritime? species; Bognor, Hastings, Brighton, and Norfolk coasts; rare: 5-8.

38 Olisthopus *De Jean.*

183 rotundatus *Pk. F.* i. 136.— *Ste. M.* i. 96. pl. 6. f. 2. — Brown-brassy, shining; beneath pitchy-red: thorax faintly wrinkled transversely; elytra simply striated, with 3 impressions on the disc; legs and antennæ at base yellowish, tip of latter dusky; mouth reddish; palpi pale, dusky at the tip. (L. 3-3½ l.) Common in corn fields, &c. near London; also found in Suff., Norf., and Salop; Midgley Moor, Yorks.; Carlisle; as well as in Scotland: 3-7 ✶.

39 Odontonyx *Stephens.*

184 rotundicollis *Marsh.* i. 471. — *Ste. M.* i. 96.— Wingless; rusty-pitchy or dusky; shining: elytra paler, obsoletely striated, with 3 impressions on the disc; legs and antennæ pale testaceous; palpi reddish. (L. 2½ l.) Found occasionally near London. *5.*

40 Synuchus *Bonelli.*

185 nivalis *Ill. K.* i. 197.— *Ste. M.* i. 97. — Ca. nivalis *Pz. F.* xxxvii. f. 19. — Shining black: elytra deeply, but simply striated, with 3 remote impressions on the 3d stria; mouth, antennæ and legs red. Sometimes the suture and edge of the elytra reddish. (L. 3½-4 l.) Rather local; found in damp banks at Coombe, Darenth, &c.; at Bottisham; Netley; in Norfolk, &c.; sparingly in Scotland: 4-8.

41 Calathus *Bonelli.*

186 piceus *Marsh.* i. 444. — *Ste. M.* i. 98. pl. 6. f. 3. —Wingless; pitchy-black: thorax narrowed behind, its hinder angles rounded, and its margins

reddish pitch colour; elytra faintly striate, striæ impunctate, 3d with 3 or 4 deep impressions annexed; legs pitchy-red, or dusky. (L. 4-5 l.) Coombe Wood, common; Bottisham; Norf.; Devon; Castle Howard, in plenty: Scotland, common: 2-9.

187 melanocephalus *L.* ii. 671.—*Don.* xiv. pl. 480.—*Ste. M.* i. 98.—Wingless; shining black: thorax broad behind, angles acute, colour pale red; elytra simply striate, disc with 2 or 3 impressions; antennæ and legs pale red. (L. 3-4 l.) Very abundant throughout the country; in plenty in Scotland: ○, ✶.

188 cisteloides *Ill. K.* i. 163.—*Pz. F.* xi. f. 12.—*Ste. M.* i. 99.—Wingless; dull black: thorax broad behind, its angles acute, 2 impressions at the base, and the base punctured; elytra finely punctate striated, 3d and 5th interstices with several larger impressions; antennæ and legs red, or fuscous; sometimes wholly black. (L. 4-6¼ l.) Also a very plentiful species; both in England and Scotland, ⊙, ✶.

189† apicalis *Ent. M.* (*Newman*) i. 287. — *Ste. M.* v. 375.—Wingless?: 3 basal joints of antennæ, thorax, elytra and legs pale rust colour; rest of antennæ deep black, each joint tipped with rust-colour; elytra simply striate. (L. 4 l.) Locality unknown.

(190‡ punctipennis *Germ. I.* i. 13. — Ca. latus *Cur.* iv. pl. 184.— *Ste. M.* i. 99.—Wingless; very broad; black: thorax wide behind; angles acute; base thickly punctured; elytra ample, punctate-striate, 3d and 5th striæ with deeper impressions; legs pitchy; palpi and antennæ reddish. Sides of thorax occasionally reddish. (L. 6 l.) Supposed to be found in Devonshire in the spring.)

191 crocopus *Hoffmansegg.* — *Ste. M.* i. 99. — Ca. flavipes *Sturm. D. F.* v. pl. 122. f. *a. A.*?— Wingless; shining black: thorax wide behind, with acute angles, its lateral margin reddish-yellow; elytra striated, 3d interstice with 2 impressions; legs and antennæ reddish yellow. (L. 3½-5 l.) Darenth Wood; Cobham, &c.; also in plenty in Glouc., Devon., on the shores of the Tees, and near Carlisle: 3-7.

(192† flavipes *Pk. M. C.* 37. — *Ste. M.* v. 375. — Black; pitchy beneath: legs red; thorax somewhat square, straight behind; elytra with 9 striæ, of which 4 are punctate. (L. 5 l. ?) Supposed to be synonymous with the preceding; doubtful if British.)

193 micropterus *Sturm. D. F.* v. 113. pl. 122. f. 8. *B.* — *Ste. M.* v. 437. — Wingless; brown-black, shining: thorax wide behind, its angles obtuse with a smooth impression; margin pale testaceous; elytra smoothly striated; mouth, antennæ and legs pale reddish. (L. 4-5 l.) On the northern coasts and in Scotland, in plenty: 7-9.

194 fuscus *Fab. E.* i. 191.?— *De J. Ic.* ii. pl. 111. f. 4.?— *Ste. M.* i. 100. — Wingless; brown-black: thorax wide behind, angles obtuse, the entire margin reddish; elytra faintly striate, the striæ impunctate, 3d interstice with 2 impressions; legs and antennæ pale rust-colour. (L. 4-4½ l.) Abundant on the coasts of S. Wales: 3-6.

195 rufangulus *Marsh.* i. 441. — *Ste. M.* i. 100. pl. 6. f. 4. — Winged; pitchy-black: thorax wide behind; its angles acute, red, with the margin broadly red; elytra finely striate, striæ not punctate, 3d interstice with 2 obscure impressions; antennæ and legs testaceous. When immature rust-coloured, with sides of thorax, antennæ and legs paler. (L. 4-5½ l.) Common at Darenth: 5-7: also in Norf. and Suff.: rare in Scotland.

196. mollis *Marsh.* i. 450. — *Ste. M.* i. 101. — Pitchy-black, shining: thorax wide behind, angles obtuse; lateral and sometimes basal margin rust-coloured; elytra finely striated, striæ simple, 3d interstice with 2 or more impressions; antennæ and legs pale-reddish. Sometimes pitchy-

red, with sides of thorax, antennæ and legs paler. (L. 3-4 l.) In plenty on the southern coast, especially near Southend and Gravesend; also in Scotland: 2-6.

42 Platyderus *Stephens.*

197. ruficollis *Marsh.* i. 456. — *Ste. M.* i. 101. — Dusky rust-colour, glossy: thorax brighter, very shining, with a deep dorsal channel, and a strong impressed line on each side; elytra simply striated, 3d stria with 3 impressions; legs, palpi and antennæ rusty-red. Sometimes ferruginous, with paler legs; or very pale testaceous. (L. $2\frac{3}{4}$-$3\frac{1}{2}$ l.) About Richmond Park in 1-4; also in Norf. and Suff.

43 Argutor *Megerle.*

A. *Elytra* without a short stria at the base, near the scutellum.

198 inquinatus *Meg.* — *Stu. D. F.* v. 79. pl. 116. f. *c. C.* — *Ste. M.* i. 103. — Elongate, deep black: thorax glossy, impunctate, with an impressed line on each side; elytra striate, striæ obscurely punctured; mouth, antennæ and legs pitchy-red. (L. $3\frac{1}{4}$ l.) Near London: 3-5.

199 rufomarginatus *Cur.* xiv. f. 666. — *Ste. Nom.* 2d. col. 7. — Pitchy-black: thorax with the base thickly punctured, an impressed line on each side, and the sides, except anteriorly, red; elytra deeply striated, 3d interstice with 3 punctures; mouth, legs and base of antennæ rust-colour. (L. 3 l.) Near Gravesend, and in Norfolk: 5-7.

200 vernalis *Fab. E.* i. 207. — *Pz. F.* xxx. f. 17. — *Ste. M.* i. 103. — Black: thorax slightly punctured at the base, with a deep impressed line on each side; elytra crenate-striate, 3d interstice with 3 punctures; mouth, legs and antennæ pitchy. (L. $2\frac{1}{2}$-3 l).) Common in spring, near London, at Gravesend, &c.

201 inæqualis *Marsh.* i. 456. — *Ste. M.* i. 103. — Oblong, black: thorax slightly punctate behind, with a deep impressed line at the base on each side; elytra rather deeply punctate-striate, with 3 large punctures on the 3d interstice; legs, mouth, and antennæ red. (L. $2\frac{1}{2}$-3 l.) Common at Gravesend and other parts near the coasts: 3-7.

Var. ? Ca. Scalesii *M.* — *Ste. M.* i. 103. — Entirely ferruginous, shining: elytra deeply striated, the striæ crenulated: — sometimes rather dusky. Found with the preceding.

202 longicollis *Duft.* ii. 180. — *Ste. D. F.* v. pl. 116. f. *d. D.* — *Ste. M.* i. 104. — Black: thorax elongate, punctured at the base, and with an impressed line on each side; elytra ovate, punctate-striated, interstices smooth, the 3d impunctate; legs, mouth and antennæ pale red. (L $2\frac{1}{2}$-3 l.) Common about Southend and among rejectmenta of the Irwell, and Stirling: 3-9.

B. *Elytra* with a short stria, near the scutellum.

203 diligens *Stu. D. F.* v. 81. pl. 117. f. *A. a.* — *Ste. M.* i. 104. — Elongate, black: thorax impunctate at the base and with an impressed line, beneath also impunctate; elytra ovate, punctate-striate, 3d interstice with 3 punctures; legs and base of antennæ red. (L. $2\frac{1}{4}$-$2\frac{1}{2}$ l.) Not uncommon near London, at Hertford, &c. ⊙.

204 strenuus *Ill. K.* i. 185. — *Pz. F.* xxxviii. f. 6. — *Ste. M.* i. 105. — Oblong, black: thorax above faintly punctured at the base, and with an impressed line, beneath deeply and thickly punctured; elytra obsoletely punctate-striated, the lateral striæ slightly obliterated; mouth, antennæ, and legs rusty-red. (L. 3. l.) Near London, and in Norf. and Suff. ⊙.

205 interstinctus *Stu. D. F.* v. 77. pl. 116. f. 8. *B.* — *Ste. M.* i. 104. — Oblong, shining black: thorax rather narrowed behind, its base punc-

tured and with an obscure impressed line on each side; elytra ovate, deeply punctate-striate, with some scattered impressions on the disc.; legs and antennæ pitchy-red, tips of former rather dusky. (L. 2½-3 l.) At Hertford; near Southend in spring.

206 erythropus *Marsh.* i. 461.—*Ste. M.* i. 105.—Elongate, shining pitchy-black: thorax punctured at the base and with an impressed line on each side; elytra deeply striated, the striæ punctulated; legs red; antennæ pitchy, with the base red. (L. 3 l.) Common; London district, Scotland, &c. ⊙, ✶.

207 pullus *Gyll.* ii. 89. — *Ste. M.* i. 105.— Shining black. thorax impunctate, with a single stria on each side; elytra striated, the striæ finely crenated, and impunctate; antennæ and legs rust-colour; thighs sometimes pitchy. Sometimes rust-colour, or chestnut, with the head darker. (L. 3-3¼ l.) Near London, and in Devon and Scotland, not very common: 3-6.

208 Anthracinus *Gyll.* ii. 82.— *Ste. M.* i. 105. — Ca. Nigrita *Pz. F.* xi. f. 11. — Oblong, shining black: thorax punctured behind and with 2 basal lines, the inner one terminating in a bilobed punctured fovea; hinder angles rather acute; elytra crenate striated, faintly punctured, the interstice flat, the 3d with 3 large punctures; mouth, palpi, and legs pitchy. (L. 3½-4 l.) Near London and in Norfolk: 3-6.

44 Pogonus *Ziegler.*

209 Burrellii. *Cur.* i. pl. 47.— *Ste. M.* i. 106. — Brassy-green, or coppery: elytra pale ochreous, with a brownish cloud on back, punctate-striated, the striæ greenish; tip of abdomen reddish; legs, mouth, and antennæ dull rust-colour. (L. 3-4 l.) Near Salthouse, on the coast of Norfolk: 3-7.

210 chalceus *Marsh.* i. 460. — *Ste. M.* i. 107. pl. 6. f. 5.— Brassy: thorax slightly narrowed behind, its base punctured; elytra rather elongate, and somewhat oblong-ovate, punctate-striate, the outer stria obsolete, the 3d with 3 impressions; legs red, with a brassy tinge; antennæ fuscous at the base. (L. 2½-3½ l.) Common on the eastern coasts and on the shores of the Thames and Medway: 2-6.

211 littoralis *Duft.* ii. 183.— *Stu. D. F.* v. pl. 115. f. *a. A.*— *Ste. M.* v. 376. — Dull brass: thorax slightly narrowed behind, and its base punctured; elytra elongate, parallel, punctate-striate, the 3d stria with 3 deep impressions; legs brassy-red. (L. 3-3¾ l.) Coasts of Norf., Suff., Sussex, and in Glouc.: 3-6.

212 æruginous *Ste. M.* i. 107. pl. 6. f. 6. — Oblong, and narrow: thorax considerably narrowed behind, its base very thickly punctured; elytra parallel, deeply punctate-striated, the striæ obscure at the apex and on the sides, the 3d with 3 larger impressions; legs and tip of the antennæ reddish. (L. 3½ l.) Near Whitchurch, Hants: 4-6.

45 Pœcilus *Bonelli.*

213 lepidus *Fab. E.* i. 189. — *Ste. M.* i. 108. pl. 7. f. 1. — Wingless; oblong; black: above green, coppery, brassy bluish, &c. shining; thorax with 2 deep parallel striæ at the base; elytra deeply striated; antennæ and legs wholly black. (L. 5½-6½ ⊙ l.) At Hertford; Darenth Wood; near Ely; also in Devon, Norf., and Hants: 4-7, rather scarce.

214 dimidiatus *Oliv. E.* iii. 72. pl. 2. f. 121.— *Ste. M.* i. 109. — Black, shining: head and thorax above coppery, the former very smooth, the latter with 2 striæ on each side behind; elytra fine green (rarely black) punctate-striate; antennæ with the two basal joints red beneath. (L. 5½-

6½ l.) Abundant on Hampstead Heath; Coombe Wood, &c.; also near Southend; and in Kent, Norfolk, &c. in spring.

215 cupreus *L.* ii. 672. — *Don.* xvi. pl. 554. —*Ste. M.* i. 110. Oblong-ovate; shining black: head, and thorax beneath, punctulated; the latter with 2 punctate foveæ on each side at the base; elytra striated, the striæ more or less obscurely punctate-striate; antennæ with the two basal joints wholly red: —colours above extremely variable, being either coppery, green, blue, black, brassy-violet, &c. (L. 5-6¼ l.)

Var. Pœ. rufifemoratus *Ste. M.* i. 110. — With the thighs red, tibiæ and tarsi pitchy. Extremely abundant throughout England, and in Scotland, ⊙, ∗.—Var. rare.

216 versicolor *Ziegler.*—*Stu. D. F.* v. 99. pl. 120. f. 2. *B. c.* — *Ste. M.* i. 110. — Oblong, shining; black: head and thorax beneath extremely smooth; the latter with two punctured foveæ on each side at the base; elytra faintly punctate striated; antennæ with the 2 basal joints red, with a raised black streak above:—colour above still more variable than in Pæ. cupreus; in some instances extremely brilliant. (L. 3½-5¼ l.)

Var. Pœ. punctatostriatus *Ste. M.* i. 111.— Elytra very deeply punctate-striate. Extremely common throughout England and in Scotland, ⊙.

46 Sogines *Leach.*

217 ‡ punctulatus *Ill. K.* i. 175. — *Pz. F.* xxx. f. 10. — *Ste. M.* i. 112.— Oblong, dull black: thorax with 2 obscure impressions behind; elytra finely punctate-striate. (L. 6 l.) Devonshire in the spring.

47 Omaseus *Ziegler.*

218 aterrimus *Fab. E.* i. 198. — *Cur.* i. pl. 15. — *Ste. M.* i. 113. — Black, very shining: thorax transverse, rounded behind; with a deep impression on each side; elytra finely punctate-striate, the disc with three deep foveæ; tarsi with reddish ciliæ. (L. 7-7½ l.) Horning in Norf., Whittlesea Mere, Bottisham fen, and near Cork: 4-6.

219 Bulwerii, *Ste. M.* i. 113. pl. 7. f. 2. — Oblong, black; above brassy, shining: thorax with the hinder angles acute, the base sparingly punctured, with a deep fovea at each angle; elytra punctate-striated, the disc with 5 deep impressions. (L. 4-5 l.) Taken near Dublin: 6.

220 Orinomum *Leach.* —*Ste. M.* i. 114. pl. 7. f. 3. var. —Ovate, black, or brassy shining: thorax with hinder angles acute, with a deep fovea at each angle; the disc faintly wrinkled transversely; elytra deeply striated, with several (3-6) impressions in the 2d and 3d interstices. The foveæ on the elytra are sometimes obsolete, and vary in number. (L. 4-5½ l.) Abundant in mountainous districts of Wales, in England and Scotland: 4-8.

221 Anthracinus *Ill. K.* i. 181. — *De J. Ic.* iii. 69. pl. 134. f. 5.—Oblong, deep black, shining: thorax rather long, narrowed behind, with a large fovea at each angle, the latter acute; elytra striated; the striæ faintly punctured, 3d striæ with 3 impressions; interstices flat. Abdomen of ♂ with a deep fovea at the apex beneath. (L. 4½-5 l.) Battersea fields; in Cumberland; Ireland, &c.: 3-5.

222 Nigrita *Fab. E.* i. 200. — *De J. Ic.* pl. 134. f. 1. — *Ste. M.* i. 114. — Oblong, deep black, shining: thorax short, slightly narrowed behind, with an impression at each angle; the latter obtuse; elytra obsoletely punctate striated; interstices flattish. Male without the fovea beneath. (L. 4-5½ l.) Extremely common throughout England; also abundant in Scotland, ⊙, ∗.

223 lævigatus *Ste. M.* i. 115. — Glossy black: thorax somewhat heart-shaped, impunctate behind, the hinder angles acute, each with 2 impressed

lines; elytra deeply striated, striæ obsoletely punctured, the 3d with 3 impressions; antennæ, palpi, and legs pitchy rust-colour. (L. 3½ l.) Near London: 3-5.

224 rufifemoratus *Ste. M.* i. 115. — Black, shining: thorax with hinder angles acute; elytra faintly punctate striated; thighs red. (L. 4-5 l.) Belfast in Ireland.

225† tetricus *Hali.* — *Curtis*, 2d edit. folio 15.— "Black, shining: thorax a little narrowed behind, the basal angles right angled, with a large fovea on each side as in O. Nigrita; elytra deeply striate-punctate, the 2d with 2, the 3d with 1 puncture, inclining to castaneous at the apex; wings ample. (L. 4⅓ l.) Near Belfast."

226 rotundicollis *Ste. M.* v. 376. — Shining black: thorax with its sides rounded, hinder angles very obtuse, the base with 2 striæ on each side; elytra deeply sulcate-striate, the striæ smooth, the 3d with 3 deeply impressed dots. (L. 5 l.) Near London: 3-4.

227 sulcatus *Ste. M.* v. 376. — Winged; black: thorax somewhat 4-drate, narrowed behind, and punctate on both sides, hinder angles obtuse, with 2 short striæ and a fovea; elytra rather obscure, somewhat parallel, deeply striated, with 2 dorsal impressions on the 3d interstice. (L. 6-8 l.) On the Welsh mountains: 4-5.

228 melanarius *Ill. K.* i. 163. — *De J. Ic.* iii. pl. 133. f. 3. — *Ste. M.* i. 115. — Wings rudimentary; oblong, black, slightly shining: thorax slightly narrowed behind, its base obsoletely punctured, with a rugged fovea at each angle and 2 striæ, the disc more or less obscurely wrinkled; hinder angles obtuse; elytra deeply striated, the striæ equidistant; interstices slightly convex, the 3 with 2 impressions. (L. 6½-9½ l.) Abundant throughout England, and in Scotland: ⊙, ✶.

229 affinis *Ste. M.* i. 116. — Wings rudimentary; shining black: thorax very smooth, rounded at the sides, with 2 deep striæ at each of the hinder angles in a rugged fovea; angles obtuse; elytra striated, the striæ placed in alternate pairs, interstices flattish, the 3d with 3 impressions. (L. 7 l.) Near London: 3-4.

48 Steropus *Megerle.*

230 madidus *Fab. E.* i. 181. — *Stu. D. F.* iv. 175. pl. 104. f. c.? — *Ste. M.* i. 117. — Black, shining: thorax somewhat rounded, convex, with a deep rugged fovea, having a longitudinal stria at each angle; elytra ovate, somewhat convex, striated, the striæ impunctate, the disc with an impression behind the middle; legs glossy black, or with red thighs. (L. 6-8¼ l.) Common beneath stones, &c. in England and in Scotland: ⊙, ✶.

231 arrogans *Duft.* ii. 60. — *Ste. M.* v. 376. — Shining black, convex: thorax somewhat globose, transversely wrinkled, with a stria on each side at the base; elytra elliptic, convex, very finely striated, with a puncture on the 3d insterstice near the apex; legs black; tarsi reddish. (L. 8-9 l.) On the Welsh mountains and in Cumberland: 4-7.

232 Æthiops *Pz. F.* xxxvii. f. 22. — *Ste. M.* i. 117. — Black, slightly shining: thorax somewhat rounded, with a round punctate fovea on each side; elytra ovate, deeply striated, the 2d stria with 2 or 3 remote punctures. ♂ with the penult. segment of the abdomen dentate. (L. 5½-6 l.) Mountainous districts of North of England and of Scotland: 3-7.

33 cognatus *Ste. M.* v. 377. — Shining black: thorax orbicular, with a deep fovea on each hinder angle; elytra somewhat ovate, deeply striate, the striæ faintly punctured, the disc with 3 remote impressions; legs black; tarsi pitchy. (L. 6 l.) Taken on Snowden: 3-5.

49 Miscodera *Eschscholtz.*

234 arctica *Pk. F.* i. 85. — *Ste. M.* i. 377. — Le Readii *Cur.* viii. pl. 346. — Extremely glossy; above brassy-greenish, or bluish-black: elytra punctate-striate, the striæ vanishing towards the apex; the space behind the thorax more or less punctate; body beneath pitchy-red; legs and antennæ pale red. (L. 4-4½ l.) On Midgley Moor, near Halifax; about Stockton, and in the mountainous districts of Scotland: 3-6.

50 Broscus *Panzer.*

235 cephalotes *L.* ii. 669. — *Don.* xiv. pl. 484. — *Ste. M.* i. 118. — Black, opaque: head sparingly punctured; elytra very finely punctate-striated. (L. 9 l.) Very abundant under marine rejectamenta, on most of the coasts of England and Scotland: ⊙. ✶.

51 Stomis *Clairville.*

236 pumicatus *Clairv.* ii. 48. pl. vi. f. *A. a.* — *Ste. M.* i. 118. — Pitchy-black, shining: thorax punctulated behind, and with an oblong smooth fovea on each side; elytra oblong-ovate, punctate-striate; legs, antennæ, palpi and mandibles red. (L. 3-3½ l.) Near London, Southend, Bottisham, &c., and occasionally in Scotland: 2-6.

52 Patrobus *Megerle.*

237 rufipes *Fab. E.* i. 184. — *Ste. M.* i. 119. — Ca. excavatus. *Pz. F.* xxiv. f. 2.—Wingless; pitchy black, paler beneath: thorax rather elongate heart-shaped, with a deep punctulate fovea on each side at the base; elytra oblong-ovate, punctate-striated, with 3 impressions; legs and antennæ red. (L 3½-4½ l.). Common on the banks of the Thames, &c.; also in Wales and Scotland: 3-7.

238 alpinus *Cur.* iv. pl. 192. — *Ste. M.* i. 120. — Winged; pitchy-black: thorax transversely heart-shaped, of a chestnut hue, with a deep punctured fovea on each side at the base, extending to the hinder angles; elytra rather elongate-ovate; faintly punctate-striated, the 4th interstice with 3 equidistant impressions; legs and antennæ pitchy. (L. 4½ l.) Rather sparingly on the Scotch mountains: 4-6.

53 Cophosus *De Jean.*

(239† elongatus *Sam.*—*Cur.* v. pl. 196. — *Ste. M.* i. 121. — Elongate; shining black: thorax much narrowed behind, with a deep impunctate stria near each hinder angle; elytra simply striated, with 4 deeply impressed dots on the 2d, and 1 on the 3d, stria; claws and tip of palpi rust-coloured. (L. 7½ l.) Said to occur in Devonshire: 6.)

54 Pterostichus *Bonelli.*

(240‡ fasciatopunctatus *Creut.*—*Fab. E.* i. 178. — *Pz. F.* lxvii. f. 9. — *Ste. M.* i. 121. — Wingless; black, shining: thorax with a fovea near each angle at the base; elytra slightly convex, deeply striated, with 3 or 4 irregularly disposed transverse rows of impressions more or less united into fasciæ. (L. 8 l.) Also said to occur in Devonshire: 6.)

(241† Panzeri *Megerle.* ?—*Pz. F.* i. lxxxix. f. 8. ?—*Ste. M.* i. 122.—Black; shining: thorax with a deep longitudinal stria near the hinder angle, and an obsolete shallow one at the angle itself; elytra irregularly striated, the disc with several irregularly scattered impressions; thorax beneath and breast punctured; legs, antennæ and palpi pitchy, the latter tipped with

rust-colour. (L. 7. l.) Said likewise to occur in Devonshire, beneath stones in the river Plym: 6.)

242 parumpunctatus *De J. S.* iii. 342. —Pt. brunnipes *Ste. M.* i. 121.—Shining, black: thorax cordate, obsoletely wrinkled transversely, with a deep smooth impressed line near the hinder angle on each side, and a smaller one at the angle; elytra iridescent by candlelight, striated, the 3d stria with 3 impressions; legs and antennæ pitchy-brown; mandibles reddish. (L. 7½-8½ l.) In Devonshire? and very abundant near Newcastle, ⊙.

243 oblongopunctatus *Fab. E.* i. 183. — *Pz. F.* lxxiii. f. 2. — *Ste. M.* i. 122. — Winged; brassy-black, shining, glabrous: thorax with a single impressed line on each side near the hinder angles, which are acute; elytra brassy, faintly striated, with 3-5 impressions on the 3d interstice; antennæ and thighs black; tibiæ, tarsi, and palpi, reddish. (L. 5½-6 l.)

Var.? Ca. 8-punctatus *Marsh.* i. 447. — *Ste. M.* i. 123. pl. 7. f. 4.— Narrower and brighter, with 4 distinct impressions on the elytra; the femora and antennæ dusky. Rare: found at Bagley Wood, Oxon; near Windsor; and in a salt marsh, Devon; also in Ireland: 3-7.

55 Adelosia *Stephens.*

244 picea *Oliv. E.* iii. 58. pl. 2. f. 123. — *Ste. M.* i. 123. pl. 7. f. 5. — Pitchy-black, or rusty-black; shining: forehead with a rough impression on each side; thorax with a deep oblong one near the hinder angles, which are slightly punctate; elytra flat, striated, the 3d interstice with 3 remote impressions; legs and palpi red. (L. 5½-6½ l.) London district under moss, &c.; especially near Hackney: also Southend; Ely; banks of Tees, &c.: 2-7.

56 Platysma *Bonelli.*

245 niger *Fab. E.* ii. 178. — *Ste. M.* i. 124. — Ca. leucophthalmus *Oliv. E.* iii. 48. pl. 1. f. 4. Deep shining black: thorax faintly wrinkled transversely, with 2 very deep foveæ on each side at the base, the inner one largest; elytra deeply striated, striæ obscurely crenate; 1 impression on the 3d, 2 on the 2d; tips of palpi and the claws rust-coloured. (L. 9-11 l.) Abundant at Coombe Wood in spring: Parley Heath, Hants, &c. and in Scotland: ⊙, ∗.

57 Abax *Bonelli.*

246 Striola *Fab. E.* i. 188. — *Pz. F.* xi. f. 6. — *Ste. M.* i. 125. — Shining black: head and thorax faintly wrinkled, the former with several elevated lines near the eyes, the latter with 2 deep elongate impressions near the hinder angles; elytra oblong-ovate, very deeply striated, the striæ simple; claws and palpi rusty: ♀ with elytra rather obscure, striæ fainter and interstices flat. (L. 8-10 l.) Abundant, especially in Epping Forest in spring: also in Northumb. and in Scotland.

58 Cheporus *Latreille.*

247‡ metallicus *Fab. E.* i. 101. — *Pz. F.* xi. f. 7. — *Ste. M.* i. 125. — Black: thorax shining brass, with 2 impressed lines at the base; elytra also brilliant brass or coppery, faintly striated, with 2 discoidal impressions; legs pitchy black. (L. 6 l.) Said to be taken in Cambridgeshire.

59 Oödes *Bonelli.*

248 Helopioides *Fab. E.* i. 196. — *Pz. F.* xxx. f. 11. — *Ste. M.* i. 125. —

Black: thorax smooth, without foveæ; elytra oval, obsoletely punctate-striated, with 2 minute impressions on the 3d interstice; body punctate beneath on the sides; tarsi pitchy. (L. 4½ l.) Not common: Battersea fields; Hackney marshes; Whittlesea Mere; Abbot's Ann, Hants; Amesbury, Wilts; Carlisle, &c. : 3-5.

60 Amara *Bonelli.*

249 eurynota *Ill. K.* i. 167. ? — *Ste. M.* i. 127. — Am. acuminata *Stu. D. F.* vi. pl. 143. f. c. *C*?— Oval; above brassy, brassy-black, coppery, black, or bluish, sometimes with greenish elytra: antennæ with the 3 basal joints red; thorax on each side with 2 impunctate foveæ; elytra simply striated, the apex slightly acuminated, and the striæ deeper; legs black. (L. 4-6 l.)

Var.? Am. ærata *Kirby.*—*Ste. M.* i. 127. pl. 6. f. 6. — The foveæ on the thorax smaller, and the basal joints of the antennæ blackish above. In autumn at Hertford; near Cambridge; Barham; Ashdown Copse, Wilts; Arbroath, &c. Scotland : 5-9.

250 similata *Gyll.* ii. 138. — *Ste. M.* i. 128. — Am. obsoleta *Stu. D. F.* vi. pl. 145. f. a. — Oblong-ovate; black; above brownish-brass: thorax with 2 shallow, slightly punctulate foveæ at the base on each side, the inner 1 deepest; elytra striated, the striæ deepest near the apex; tibiæ dull red; antennæ with 3 basal joints red. (L. 3½-4¼ l.) London; Bottisham; Kimpton; Edinburgh; &c. : 2-6.

251 obsoleta *De J. S.* iii. 469. — trivialis *Duft.* ii. 116. ? — *Stu. D. F.* vi. pl. 145. f. *B.* — *Ste. M.* i. 129. *Obs.* — Oval; black; above brassy, or greenish: thorax behind with a single very obscure impunctate fovea; elytra striated, the striæ deep at the apex; legs pitchy-black; 3 basal joints of the antennæ red. (L. 3½-4¼ l.) Near London, occasionally: 3-6.

252 ovata *Fab. E.* i. 196.?—*Stu. D. F.* vi. pl. 144. f. *B.*— *Ste. M.* i. 129.— Short, ovate; black, above brassy: thorax convex, with an oblique impressed line on each side at the base; elytra green-bronze, finely striated, the striæ extending to the apex; legs, palpi, and antennæ wholly red. (L. 3½ l.) Near London: 4.

253 trivialis *Gyll.* ii. 140. — *Ste. M.* i. 129. —*De J. Ic.* iii. pl. 160. f. 6.— Oblong-ovate; above very glossy bright-brass, rarely bluish or black: thorax behind with a very deep simple puncture or fovea; elytra faintly striated, especially at the apex; tibiæ and 3 basal joints of antennæ red. (L. 3¼-4 l.) Abundant throughout Britain: ⊙, ✶.

254 vulgaris *L.* ii. 672. — *Ste. M.* i. 128. — *De J. Ic.* iii. pl. 160. f. 5. — Oblong-ovate; black; above brassy: thorax behind, with 2 shallow smooth striæ at the base on each side; disc faintly wrinkled; elytra striated, the striæ deep at the apex; legs and antennæ black; the basal, and sometimes the 2d, joint pitchy, or reddish beneath. (L. 4-4½ l.) Occasionally near London; Bottisham; Southend; Kingston; Scotland, &c. : 4-6.

255 spreta *De J. Ic.* iii. 248. pl. 161. f. 1. — Oblong-ovate; brassy above: thorax narrowed in front, and on each side at the base are 2 oblong, distinct impressions, which are faintly punctate; elytra finely striated, the striæ slightly punctate; tibiæ dull red; antennæ with the 2 basal joints red. (L. 3¾-4 l.) Rare: at Hertford: 6.

256 curta *De J. Ic.* iii. 253. pl. 161. f. 5. — Short, ovate; above blackish-brass: thorax rather narrowed in front, with 2 obscure punctured foveæ on each side at the base; elytra faintly striated, the striæ deepest at the apex;

tibiæ dull red; antennæ with the 2 basal joints red. (L. 3-3¼ l.) Also rare: near London: 6.

257 nitida *Stu. D. F.* vi. 35. pl. 142. f. *B.* — *Ste. M.* i. 120. — Short, ovate; black; above brassy, or greenish-brass: thorax behind with a single smooth impressed line on each side touching the margin; elytra striated, the striæ deep at the tip; tibiæ, palpi, and 3 basal joints of the antennæ red. (L. 3½ l.) Near London, and in Norfolk: 3-6.

258 lævis *Stu. D. F.* vi. 34. pl. 142. f. *A.* — *Ste. M.* i. 130. — Broad; black, brassy-green, or bluish above: thorax behind with 2 punctate foveæ at the base, on each side, the outer 1 faintest; elytra rather faintly striated at the apex; legs and 3 basal joints of antennæ red. (L. 3¼ l.) Near London, and in Dorset: 3-6.

259 cursor *Stu. D. F.* vi. 57. pl. 146. f. *D.*? — *Ste. M.* i. 130. — Oblong-ovate; black; above shining bronzed-green: thorax on each side behind with 1 short slightly impressed line, near the margin; elytra distinctly punctate-striated; legs, 4 basal joints of the antennæ, and the base of palpi red. (L. 3 l.)

Var. Am. familiaris *Duft.* ii. 119. — *Ste. M.* i. 133. — Thorax with 2 obscurely punctate foveæ at each hinder angle; 3 basal joints of antennæ red. Common throughout Britain: ⊙ ∗.

260 obtusa *Ste. M.* i. 132. — Short, ovate; black; above brassy-green: thorax dilated in front, rather narrowed behind, with two punctate foveæ on each side at the base; elytra punctate-striated; tibiæ and 3 basal joints of antennæ red. (L. 3¼ l.) Near London: 5-6.

261 atrocærulea *Stu. D. F.* vi. pl. 146. f. *B.* — Am. latescens *Ste. M.* i. 132. — Broad; ovate; black, glossy: thorax with its sides gradually and and equally rounded, the base faintly punctate towards each angle, but without any foveæ; legs pitchy; tibiæ and tarsi paler; the anterior tibiæ dusky at the apex; 3 basal joints of antennæ red. (L. 3¼ l.) Near London: 5-6.

262 laticollis *Ste. M.* i. 133. — Short; ovate; pitchy; above brassy: thorax very broad, wholly smooth and impunctate; elytra faintly striated; legs and antennæ pitchy, the 3 basal joints of the latter reddish. (L. 3½ l.) Near London: 4-5.

263 communis *Fab. E.* i. 195. — *Ste. M.* i. 133. — *De. J. Ic.* iii. pl. 161. f. 3. — Oval; black, above greenish-brass: thorax wide, thickly punctured towards the hinder angles, and with 2 obscure rudimentary foveæ; elytra delicately striated; deepest at the apex; tibiæ and 3 basal joints of antennæ red. (L. 3-3½ l.) Abundant every where in Britain: ⊙ ∗.

264 convexior *Ste. M.* i. 131. — Rather convex; glossy blue-black above: thorax obsoletely punctate at the hinder angles, and with 2 obscure foveæ, approximating to each other and to the margin; elytra faintly striated; tibiæ red; antennæ pitchy, with the 3 basal joints red. (L. 3½ l.) London; Hertford; Norwich, &c.: 3-6.

265 lucida *Duft.* ii. 121. — *Ste. M.* i. 134. — Oblong-ovate; black; above pitchy with a bluish tinge: thorax behind obscurely foveolated, the lateral margins reddish; elytra faintly striated, especially at the tip; legs entirely, and 3 basal joints of the antennæ red. (L. 2¼ l.) Rare: near London: 4-6.

266 atra *Ste. M.* i. 134. — Oblong, very convex: deep obscure black: thorax transverse, with 2 somewhat punctate foveæ on each side at the base, the inner 1 rather deepest; elytra faintly striated, the reflexed margin brassy; legs elongated; femora brassy; tibiæ, tarsi, and 3 basal joints of antennæ red. (L. 3 l.) Near London: 4.

267 erythropa *Marsh.* — *Ste. M.* i. 134. — Oblong-ovate; black; above bluish or green: thorax smooth behind, and with 2 obscure smooth foveæ on each side at the base; the lateral margins black; elytra faintly

striated to the apex; legs and antennæ rusty-red, tips of the latter dusky. (L. 2½-3 l.) Hampstead Heath, Hertford, &c.: 3-6.

268 tibialis *Pk. F.* i. 168. — *Ste. M.* i. 135. — *De. J. Ic.* iii. pl. 262. f. 2. — Oblong-ovate, convex; above brassy, or bluish: thorax on both sides with 2 deep impressions; elytra punctate-striated, faintly at the apex; tibiæ and 3 basal joints of antennæ red: colour above, varying from blue to violet, brassy, coppery, or black. (L. 2-2½ l.) London district; Bottisham; banks of Tees; Edinburgh, &c.: 3-7.

269 tricuspidata *De J. Ic.* iii. 252. pl. 161. f. 4. — Oblong-ovate; obscure brassy-green: thorax with 2 obscure foveæ on each side at the base, hinder angles rather acute; elytra faintly punctate striate; 4 basal joints of the antennæ testaceous; tibiæ and tarsi dull red; anter. tibiæ with the apical spine trifid. (L. 3½-4 l.) Isle of Wight, near Ryde: 5-7.

270 plebeia *Gyll.* ii. 141. — *Ste. M.* i. 132 — *De J. Ic.* iii. pl. 161. f. 2. — Oblong-ovate; glossy brass: thorax on each side at the base punctulated, and with 2 punctate striæ; elytra faintly punctate-striated; tibiæ and 3 basal joints of antennæ red; spine at tip of anterior tibiæ 3-cuspid. (L. 3-3½ l.) London: 3-6.

271 patricia *Duft.* ii. 110. — *De J. Ic.* iii. pl. 267. f. 3. — Oblong-ovate; convex; above pitchy-black; thorax punctulated behind, and with 2 punctured striæ on each side; elytra punctate-striated; antennæ and legs red. (L. 4½ l.) Rare: near London: 6.

§ B. — Celia *Zimmerman.*

272 ingenua *Duft.* ii. 110. — Am. lata *Stu. D. F.* vi. pl. 140. f. *B.* — *Ste. M.* i. 127. — Oblong-ovate; blackish-brass: thorax faintly punctate behind, and with 2 smooth foveæ on each side at the base; elytra rather wide, faintly punctate-striate; legs and base of antennæ pitchy-red; tip of the latter fuscous. (L. 4-5 l.)

Var ? Am. subænea *Stu. D. F.* vi. 29. pl. 143. f. *A.* ? — *Ste. M.* v. 278. — Ochreous-yellow beneath; above brassy-brown: thorax as above; elytra ovate; legs ochreous-brown, with fuscous spines on the tibiæ. London; Southend; Bottisham, &c.: 3-6.

273 municipalis *Duft.* ii. 113. ? — Am. modesta *De J. Ic.* iii. pl. 163. f. 3. ? — Oblong-ovate; above black-brass: thorax transverse; rather narrower than the elytra; with 2 punctate foveæ behind on each side, the hinder angles acute; elytra faintly striated, the striæ obscurely punctate; legs and base of antennæ red. (L. 3-3¼ l.) Near London, rare: 5-6.

274 bifrons *Gyll.* ii. 144. — *Ste. M.* i. 130. — Am. brunnea *Stu. D. F.* vi. pl. 146. f. *C.* — Oblong-ovate; pitchy-red, above brassy-black or bluish: thorax with 2 foveæ on each side and punctate behind, the lateral margin and hinder angles rusty; elytra punctate-striated; antennæ and legs rusty. (L. 3 l.) Hertford and Norfolk: 4-6.

275 infima *Duft.* ii. 114. — *Ste. M.* i. 135. — *De J. Ic.* iii. pl. 161. f. 1. — Oblong-ovate, rather convex; brassy-black: thorax transverse, with 2 punctate foveæ on each side at the base, and punctured behind; the lateral margins, and sometimes the basal, tinged with rusty-red; antennæ and legs red. (L. 2-2½ l.) Near London, and in Norfolk: 3-6.

§ C. — Acrodon *Zimmerman.*

276 brunnea *Gyll.* ii. 143. — *Ste. M.* i. 131. — *De J. Ic.* iii. pl. 163. f. 4. — Ovate, pitchy; above brassy-brown: thorax large, broad, the angles obtuse; the base faintly punctate, with 2 small punctate foveæ; elytra ovate, deeply punctate-striate; antennæ and legs pale red. (L. 3-3¼ l.)

Var. ? Am. discrepans *Marsh.* — *Ste. M.* i. 131. — Thorax less ample, with 2 short punctate lines near the hinder angle; elytra with the striæ rather crenate; the interstices flat. Near London, and Bottisham: 8-5.

61 Bradytus *Stephens.*

277 crassus *Ste. M.* i. 131. — Pitchy-brown, rather glossy; paler beneath: thorax faintly wrinkled transversely, the base punctate, with 2 deeply punctured foveæ on each side; elytra punctate-striated; antennæ, palpi, and legs pitchy-testaceous. (L. 4. l.) Near London: 4.

278 marginatus *Curtis?* — *Ste. M.* v. 379. — Black, shining: thorax broad, edged with red, especially on the sides, punctate on both sides at the base, and with a deep punctured fovea; elytra crenate-striated; legs, palpi, and antennæ rusty-red. (L. 4 l.) Occasionally near London: 3-5.

279 consularis *Duft.* ii. 112. — *Stu. D. F.* vi. pl. 139. f. *A. a.* — *Ste. M.* i. 136. — Black, shining; pitchy beneath: thorax behind punctured, and with 2 striæ on each side, the hinder angles rather acute; elytra somewhat ovate, with a brassy tinge, crenate-striate; antennæ and legs red. (L. 3-3½ l.) About London, and at Winterborne Stoke: 3-5.

280 apricarius *Fab. E.* i. 205. — *De J. Ic.* iii. pl. 168. f. 3. — *Ste. M.* i. 137. — Pitchy-red; above brassy-brown: thorax behind punctured, and with 2 punctated foveæ on each side, the hinder angles acute; elytra oblong-ovate, deeply crenate-striated; legs and antennæ pitchy-red. (L. 3-3½ l.) Near London; banks of Tees; Wilts and Hants, common: also Norwich and Scotland.

281 torridus *Ill. K.* i. 173. — *Pz. F.* xxxviii. f. 2. — *Ste. M.* v. 379. — Oblong, generally pitchy-black above, paler beneath: thorax with its sides rounded, the base faintly punctured, and with 2 short punctate striæ on each side; elytra somewhat parallel; punctate-striate; legs fuscous; antennæ red. (L. 3½ l.) Found in Scotland: 7.

282 ferrugineus *L.* ii. 672. — *Pz. F.* xxxix. f. 9. — *Ste. M.* i. 137. — Broad, ferruginous, with a brassy tint above: thorax faintly wrinkled transversely, behind punctulate, and with two slightly punctate foveæ on each side, hinder angles rather acute; elytra short, punctate-striate; legs, palpi, and antennæ pale rust-colour. (L. 4-5 l.)

Var. ? Ca. fulvus *Ill. K.* i. 172. — *Pz. F.* xxxix. f. 10. — *Ste. M.* i. 137. — Smaller and narrower; colour paler: thorax and elytra less deeply sculptured. (L. 3¼-4 l.) Ripley; Hertford; Swansea; Devon; Norfolk, &c.: 4-7.

62 Curtonotus *Stephens.*

283 convexiusculus *Marsh.* i. 462. — *Ste. M.* i. 138. pl. 8. f. 1. — Elongate; pitchy-black, with a brassy tinge above: thorax depressed behind and punctured, and on each side near the angle 2 ruggedly punctate foveæ; elytra somewhat parallel, striate, the striæ punctured anteriorly; antennæ, legs and palpi pitchy-red. (L. 5-5½ l.) On hedges &c. South Lambeth, Darenth Wood; Southend; banks of the Tees, &c.: 4-7.

284 piceus *Fab. E.* i. 181. — Cu. aulicus *Ste. M* i. 139. — *De J. Ic.* iii. pl. 170. f. 1. — Short; ovate, pitchy-black, or pitchy; paler beneath: thorax punctate at the base and apex; the former depressed and with 2 impressed striæ on each side near the angles; elytra ovate, deeply punctate-striate throughout; legs, antennæ, and palpi pitchy-red. (L. 5-6½ l.) Hedges and banks near London: Ely; Bottisham; Kimpton; banks of Tees, &c.: 4-8.

63 Zabrus *Clairville.*

285 gibbus *Fab. E.* i. 189. — *Clairv.* ii. 82. pl. 11. *f. A. B.* — *Ste. M.* i. 140. — Oblong; convex; reddish-pitchy; above black, with a brassy hue: thorax punctured behind, the hinder angles somewhat acute, and with an obscure fovea; elytra very convex, punctate-striated; antennæ, palpi, tibiæ and tarsi pitchy-rust-colour. Suture and margin of elytra sometimes rust-

colour; and legs, antennæ and palpi blackish. (L. 5-7½ l.) In cornfields, on the ears of corn, at Hastings; Worthing; Brighton; Cambridge; Kimpton; in Ireland, &c.: 6-8.

(286‡ obesus *Latreille.* — *Cur.* iv. pl. 188. — *Ste. M.* i. 141. — Robust, very convex; pitchy, above black with a brassy tinge: thorax with the hinder angles obtuse, and a punctured fovea on each side, near the base; elytra slightly brassy, faintly punctate-striate; legs, antennæ and palpi dull chestnut. (L. 7½ l.) Said to occur in Devon.)

64 HARPALUS *Latreille.*

A. *Hinder angles* of *thorax* obtuse: *elytra* sinuate-truncate at tip.

1. *Thorax* not narrowed behind: *body* short, more or less convex.

287 serripes *Schön. S.* i. 199. pl. 3. f. 4. — *Ste. M.* i. 142 — Oblong-ovate, slightly convex; deep opaque black: thorax faintly wrinkled, a little narrowed in front, with an obsoletely punctulated fovea on each side at the base; elytra slightly striated; legs pitchy; tibiæ with strong black spines; antennæ and palpi rust-coloured with the base pitchy. (L. 5¼ l.) On shores of Thames below Gravesend; Southend; Isle of Wight: 4-6.

288 stygius *Wilkin.* — *Ste. M.* i. 142. — Very convex; black, somewhat opaque; thorax with a deep impunctate fovea on each side at the base; remote from the hinder margin; elytra simply striated; legs wholly black; antennæ with the basal joint and tips of the others pitchy-red, not black; palpi black, with tips of the joints tawny. (L. 4½ l.) Glamorganshire coast: 4.

289 tardus *Ill. K.* i. 168. — *Pz. F.* xxxvii. f. 17. — *Ste. M.* i. 142.— Oblong-ovate, shining black: thorax smooth, slightly narrowed in front, with a fovea on each side at the base; posterior angles rather straight, elytra striated, the striæ obscurely punctured; legs pitchy testaceous; tibial spines reddish; antennæ tawny, the base of several of the joints black; palpi also fuscous, black at the base; tarsi rust-coloured. (L. 4 l.) Near Southend and on the coasts: 3-7.

290 rufimanus *Marsh.* i. 441. — *Ste. M.* i. 143. — Rather depressed; black, shining: thorax with a transverse impression behind, terminating, on each side, in a broad, shallow, obscurely punctured fovea; elytra simply striated; legs pitchy-black; tarsi and claws red; antennæ and palpi tawny-red. (L. 4½ l.) Abundant in gravel pits near London; occasionally near Edinburgh: ⊙

291 fuliginosus *Duft.* ii. 83. — *Stu. D. F.* iv. 92. pl. f. *F. D.* — *Ste. M.* i. 143. — Slightly depressed, broad: thorax very obsoletely punctate behind, with a faint marginal fovea on each side at the base; elytra simply striated; legs testaceous-red, the thighs and tips of the tibiæ dusky or black; antennæ and palpi rust-coloured. (L. 4½ l.) London and Southend in spring.

292 latus *L.* ii. 672. — *Schæff. Ic.* 194. f. 7. ? — *Ste. M.* i. 143. — Broad, depressed; black: thorax with a distinct impunctate stria on each side, touching the hinder margin; elytra slightly striated; legs red; thighs and tips of the tibiæ pitchy; antennæ and palpi wholly red. (L. 4½ l.) Sand and gravel pits near London and Southend: 4-7.

293 fuscipalpis *Stu. D. F.* iv. 66. pl. 88. f. *b. B.* — *Ste. M.* i. 144. — Slightly convex: black: thorax with a transverse impression behind, terminating on each side in a simple foveola; elytra simply striated; thighs black; tibiæ and tarsi wholly rusty-red; antennæ fuscous, with basal joint red; palpi black. (L. 4½ l.) Occasionally near London: 3-5.

294 atricornis *Ste. M.* v. 379. — Flattish; shining black: thorax behind, with a simple stria on each side towards the angle; antennæ black, with the

basal joint and the palpi pitchy. (L. 3-3½ l.) Near Windsor, and Glamorganshire: 3-5.

2. *Thorax* not narrowed behind: *body* depressed, elongate-ovate.

295 nigripes *Stu. D. F.* 14. 69. pl. 88. f. *D.* — *Ste. M.* i. 144. — Rather elongate; deep glossy black: thorax with a faint transverse impression, terminating on each side in an elongate simple fovea; elytra simply striated; legs wholly black; cilia and claws pitchy; antennæ fuscous, basal joint red; palpi red, base of the joints dusky. (L. 3½ l.) Near London: 3-4.

296 piger *Duft.* ii. 104. — *Stur. D. F.* iv. pl. 82. f. *c. C.* — *Ste. M.* i. 144. — Shining black: thorax with a very faint transverse impression at the base; elytra very slightly and simply striated; thighs black; tibiæ and tarsi pitchy-red; tips of the latter dusky; antennæ rust-colored, the base red, and several of the following joints black at the base. (L. 3-3½ l.) Near London; Dorking; Southend, &c.: 3-6.

297 anxius *Duft.* ii. 101. — *Stu. D. F.* iv. pl. 89. f. *b. B.* — *Ste. M.* i. 144. pl. 8. f. 2. — Ovate; black: thorax with slightly punctulate impressed line at the base on each side; elytra faintly and simply striated; legs robust; thighs and tibiæ black, or pitchy; tarsi paler; palpi testaceous; antennæ rust-coloured; margin and hinder angles of thorax sometimes rust-coloured; and some of the terminal joints of the antennæ are often black at the base. (L 3½-4 l.) Common on coasts of Glamorg.; and at Southend: 3-5.

298 femoralis *Ste. M.* i. 145. — Shining black: thorax with a smooth longish impression on each side at the base; elytra deeply but simply striated; legs pitchy-black; the hinder thighs elongated; antennæ pitchy-brown; palpi red, with base of joints black. (L. 3½ l.) Swansea: 4-5.

299 coracinus *Stu. D. F.* iv. 45. pl. 84. f. *A. a.*? — *Ste. M.* i. 145. — Pitchy-brown: thorax with a transverse impression at the base, terminating on each side in a rather smooth line; lateral margins and hinder angles rusty-red; elytra with a chestnut hue, faintly and simply striated; tarsi and claws reddish; antennæ and palpi pitchy-red, or tawny. (L. 3½-4¼ l.) On the coasts of Suff., Norf., and Essex: 3-6.

300 flaviventris *Stu. D. F.* iv. 47. pl. 84. f. *B.* — *Ste. M.* i. 145. — Pitchy-brown; beneath pale-yellowish-testaceous: thorax as in Ha. anxius; elytra faintly striated; legs, palpi, and antennæ very pale-yellowish-testaceous, the latter dusky at the tip. (L. 3½-4 l.) On the shores of the Thames, near Gravesend; and of the Severn: 5-6.

3. *Thorax* very wide behind: *body* broad, flattened.

301 thoracicus *Leach.* — *Ste. M.* i. 145. pl. 8. f. 3. — Shining black: thorax bluish, roughly punctured and sinuated behind; elytra striated, the the 3d interstice from the margin with 6-8, the 5th with 1-2 or 3, and the 8th (or 2d from suture) with 1 impression at apex; claws and basal joints of antennæ red. (L. 5½-6 l.) Scarce; London district; Leith Hill; Brighton; Cuckfield; Steeple Ashton, Oxon; Thruxton, Hants, &c.: 3-6.

302 Melampus *Duft.* ii. 96. — *Stu. D. F.* iv. 19. pl. 80. f. *b.* — *Ste. M.* v. 379. — Wide, shining black: thorax ruggedly punctured and impressed behind; the base waved; elytra striated; striæ faintly punctured, the alternate ones with numerous impressions at the apex; antennæ with the basal joint red. (L. 6-7 l.) London and Isle of Portland: 3-5.

303 depressus *Duft.* ii. 73. — *Stu.* iv. 15. pl. 80. f. *A.* — *Ste. M.* i. 146. — Rather narrow: shining black: thorax slightly narrowed in front, punctate and straight behind; elytra striated; the 3d and 5th marginal interstices with 3 punctures, and the others with 1; basal joints of antennæ red. (L. 6. l.) Near Windsor: 4.

4. *Thorax* narrowed behind.

304 cupreus *De J. S.* iv. 281. — *Ste. M.* i. 146. pl. 8. f. 4. — Robust, somewhat convex; pitchy-black, shining, above glossy green: thorax ruggedly punctured behind, with a deep rough fovea on each side near the angle; elytra rich green, with the suture brownish-brass; deeply striated, the striæ faintly punctured, the short sutural one rather longer than usual; 3d marginal interstice with a few impressions. (L. 6 l.) Rare: on shores of Thames, below Gravesend: 4-6.

305 Petisii *Stu. D. F.* vi. 11. pl. 83. f. *a. C.* — *Ste. M* v. 380. — Elongate; black: thorax 4-drate, its sides narrowly edged with red; elytra bright glossy green, finely striated; antennæ and legs rusty-red. (L. 6 l.) Near Gravesend: 6.

306 rubripes *Gyll.* ii. 118. — *Stu. D. F.* iv. pl. 86. f. *a. A.* — *Ste. M.* i. 147. — Broad; black, above blue or green: thorax with an obscure punctured fovea on each side at the base, its sides black; elytra faintly striated, the 3d interstice from the margin with 5 or 6 deeply impressed dots towards its tip; legs, antennæ and palpi testaceous-red. (L. 4½-5½ l.) Gravel-pits round London, (Coombe, &c.); Southend; Ipswich: 4-7.

307 azureus *Fab. E.* i. 196. — *Stu. D. F.* iv. pl. 83. f. *C.* — *Ste. M.* i. 147. — Rather elongate; black, above blue-black, rarely greenish: thorax obscurely striate behind, with very obsolete foveæ at the angles; elytra moderately striated; with about 3 faint impressions at the tip of the 3d interstice from the margin; antennæ, palpi and legs bright red. (L. 5 l.)

Var.? Ha. chloropterus *Ste. M.* i. 148. — Rather more narrow and elongated; above brilliant green: elytra with 5 impressions on the 3d interstice, and 2 on the 5th. Common about London, &c., and in Norfolk and Suff.: — the var. rare: 3-6.

308 marginellus *Ziegler.* — *Ste. M.* i. 148. — Broad, somewhat convex; glossy black: thorax and elytra slightly tinted with violet, the former with the sides tawny, and a fovea at each hinder angle; elytra faintly striated, with 7-8 impressions on the 3d interstice at the tip; antennæ, palpi and legs tawny. (L. 4½-5 l.) Near London; Ipswich; Swansea, &c.: 3-6.

309 fulvipes *Stu. D. F.* iv. 58. pl. 86. f. *c.* — *Ste. M.* i. 148. — Rather elongate and depressed; pitchy-black; ♀ a little tinted with greenish above: base of thorax towards the hinder angles slightly punctate, and with a roughish fovea on each side; elytra deeply striated, the 3d interstice from the margin with several obscure impressions, the edge itself thickly punctured at the tip; antennæ and legs bright tawny. (L. 4½-5 l.) Near London, and in Cambs.: 4-6.

310 punctiger *Ste. M.* i. 149.—Pitchy-black, without any tinge of bluish or green; antennæ and legs concolorous with the body: elytra striated, the 3d interstice from the margin with numerous distinct impressions. (L. 4½-5 l.) Occasionally found near London; Salisbury Craigs; Scotland: 4-6.

311 ruficeps *Oeskay.*—*Cur.* x. pl. 458. — *Ste. M.* v. 380. — Ochreous, with a chestnut tinge: head entirely reddish chestnut; thorax black with chestnut margins; elytra black, the lateral margins chestnut; legs, palpi and antennæ pale ochreous. Probably a *var.*, or rather immature state, of the foregoing species. (L. 5 l.) Isle of Man, and coasts of Lancashire and Isle of Wight: 4-7.

312 nigrocæruleus *Ste. M.* i. 149. — Broad, rather flat; shining black; above obscure violet or blue: thorax impunctate behind, but with 2 deep foveæ; elytra moderately striated, the apex of the 3d interstice from the margin with several impressions; thighs and tips of the tibiæ pitchy-black, base of the latter and tarsi pitchy-red; antennæ tawny. (L. 4½-5 l.) London district; near Cambridge, &c.: 3-5.

313 subsinuatus *Duft.* ii. 80. — *Stu. D. F.* iv. pl. 85. f. *B.* — *Ste. M.* i. 149. — Rather convex; pitchy-black: thorax smooth, slightly punctate towards the hinder angles, which have each a short stria; posterior margin somewhat waved; elytra moderately striated; body beneath, legs, antennæ, palpi and mandibles rusty-red. (L. 5 l.) Near London: 3-5.

314 acuminatus *Waterhouse* — *Ste. M.* v. 380. — Shining black: thorax punctate behind; the lateral margin narrowly testaceous; elytra finely and deeply striated, considerably narrowed behind; legs, antennæ and palpi testaceous-red. (L. 6 l.) Near London; Windsor and Gravesend: 4-6.

315 lateralis *Ste. M.* v. 380. — Deep glossy black: head small; thorax with 2 punctate foveæ behind, the lateral margin red; elytra finely striated, the outer margins narrowly edged with red; legs pitchy-red; antennæ and palpi clearer red; labrum pitchy, its margins red. (L. 4 l.) Near London: 4.

316 limbatus *Duft.* ii. 84. — *Ste. D. F.* iv. pl. 85. f. *a. A.* — *Ste. M.* i. 149. — Glossy-black, ♂ sometimes tinged with bluish, ♀ always black and duller: thorax with a subpunctate fovea on each side, the lateral margins more or less broadly testaceous-red; elytra slightly striated, the 3d marginal interstice impunctate; body beneath pitchy or rust-coloured; legs, antennæ and palpi dull-red. (L. 4-4½ l.) Near London; Southend; Bottisham; York; Scotland, &c.: 3-6.

317 lentus *Stu. D. F.* iv. 28. pl. 82. f. *a. A.*? — *Ste. M.* i. 150. — Short, broad, convex; black, slightly shining: thorax slightly wrinkled on the disc, a faint transverse line behind, terminating on each side in a slightly rugose fovea; the lateral margin rufescent; elytra faintly striated; body beneath and legs rusty-red; antennæ and palpi pale rust-colour. (L. 4½ l.) Near London: 3-4.

318 perplexus *De J. S.* iv. 314. — *Ste. M.* v. 380. — Oblong; pitchy-black: thorax 4-drate, punctate behind, and slightly foveolated near each angle, the latter straight; elytra striated, with a greenish hue in the ♂, the 3d interstice from the suture with a deep impression; antennæ and legs red. (L. 4½ l.) Near London: 4-6.

319 annulicornis *Kirby.* — *Ste. M.* i. 150 — Deep shining black: thorax slightly wrinkled transversely, with a deep and rough fovea on each side at the base; elytra deeply striated, with several impressions at the apex of the 2d interstice from the margin; legs pitchy-black; cilia reddish; antennæ and palpi tawny, annulated with black, the terminal joints of the former spotless. (L. 4-4½ l.)

Var. Ha. atrocæruleus *Kirby? Ste. M.* i. 150. — Of a bluish tint above: the fovea on the thorax very obsoletely punctate; tibial cilia dusky. Near London and in Suff. Var.? also in Cumberland: 3-7.

Var.? Ha. maculicornis *Waterhouse.* — *Ste. M.* v. 381. — Glossy black: thorax with a deep punctured fovea on each side at the base; elytra simply striated; legs and palpi fuscous: antennæ testaceous-red, with several of the joints black at the base. (L. 4 l.) Near London: 3-5.

320 notatus *Kirby.* — *Ste. M.* i. 151. — Black, shining: thorax with a deep transverse impression behind, terminated by 2 deep rugged foveæ on each side; elytra slightly tinted with blue, moderately striated, with a few impressions at the apex of the 3d interstice from the margin; anterior and intermediate tarsi pitchy-red; antennæ and palpi rusty-red; 2d, 3d, and 4th joints of former black at the base. (L. 4½ l.) Near London and in Suffolk: 3-5.

321 picilabris *Waterhouse.* — *Ste. M.* v. 381. — Narrow; black, slightly glossy: thorax with a single impunctate stria on each side behind; elytra

finely striate; legs and labrum pitchy; antennæ and palpi red. (L. 4½-5 l.) Near London and Windsor: 4-5.

322 obscuricornis *Megerle.* — *Stu. D. F.* iv. 67. pl. 87. f. *B.* — *Ste. M.* i. 151. — Short, broad; black, slightly shining: thorax faintly wrinkled transversely, with an obscure slightly punctulate fovea on each side, on the hinder margin; elytra faintly striated, 3d marginal interstice impunctate; thighs black; tibiæ and tarsi reddish; the former dusky at the tip; antennæ blackish at the base, the apex tawny; palpi rust-colour. (L. 4 l.) Near Dover: 6.

323 nigripalpis *Waterhouse.* — *Ste. M.* v. 381. — Black; rather glossy: thorax with a simple impressed stria on each side behind; palpi jet black; tarsi pitchy; antennæ pitchy-black, with the base of a few of the joints darker. (L. 4 l.) Near Windsor and London: 4-6.

324 nigricornis *Ste. M.* v. 381. — Black, rather glossy: thorax with a broad punctured fovea on each side at the base; elytra rather deeply striated, the striæ obscurely punctured; legs and antennæ pitchy-black; palpi pitchy, with the tip red. (L. 4½ l.) Near London: 3-4.

325 rufipalpis *Stu. D. F.* iv. 70. pl. 89. f. *a. A.* — Black, somewhat shining: thorax with a simple impressed line at the base on each side; elytra faintly striated, the 3d interstice from the margin with 2 impressions; tarsi pitchy; antennæ tawny, the 2d, 3d, and 4th joints blackish at the base; palpi tawny, the base dusky. (L. 4¼ l.) Near London: 3-4.

326 attenuatus *Ste. M.* i. 152. — Narrow; elongate; shining black: thorax very narrow behind, with a deep punctate fovea on each side; elytra faintly punctate-striated; thighs pitchy; tibiæ, tarsi, antennæ and palpi bright rusty-red. (L. 4 l.) On banks of Thames; at Southend and near Dorking: 3-5.

327 cuniculinus *Duft.* ii. 87. — *Stu. D. F.* iv. pl. 87. f. *B. b.* — *Ste. M.* i. 152. — Shining black: sides of the thorax rounded, base rather waved, impunctate, with a faint stria on each side, touching the edge; elytra bluish, finely striated, the 3d interstice from the margin with 1 or 2 impressions; legs pitchy; tarsi red; antennæ and palpi bright rust-colour; the base of the 2d, 3d and 4th joints of the former black. (L. 3½ l.) Near London: 5.

328 servus *Creutzer.*?— *Stu. D. F.* iv. 73. pl. 89. f. *c.* — *Ste. M.* i. 152. — Narrow; pitchy-black, glossy: thorax with a short, faintly punctate stria on each side at the base, touching the hinder margin: elytra finely striated, the 3d marginal interstice not punctured; legs pitchy; tarsi, palpi and antennæ rust-colour. (L. 3 l.) In Devonshire: 4.

329 luteicornis *Duft.* ii. 86.?— *Stu. D. F.* iv. pl. 87. f. *A.* — *Ste. M.* i. 153. — Shining black: thorax transversely punctate behind, with an oblong thickly punctured fovea on each side; the lateral margins, and sometimes the posterior, reddish; elytra with the lateral margins and tip rusty-red; finely striated; legs, palpi and antennæ pale-red. (L. 3½ l.) N. coast of Devon, and near Swansea: 3-5.

330 nitidus *Stu. D. F.* iv. 40. pl. 83. f. *B.*— *Ste. M.* i. 153.— Black; above glossy-green: thorax with a punctured fovea on each side at the base; elytra faintly striated, the 3d interstice with 1 or 3 impressions; legs pitchy; base of tibiæ and the tarsi pitchy-red; antennæ and palpi red. (L. 4½ l.) In Devonshire: 4.

331 ignavus *Creutzer.* — *Stu. D. F.* iv. 44. pl. 83. f. *D.* — *Ste. M.* i. 153. — Black; above glossy-blue: thorax with a smooth stria on each side at the base; elytra finely striated; the 3d marginal interstice impunctate; legs pitchy-black; tarsi red; antennæ and palpi tawny. (L. 4½ l.) On the Devonshire coast: 4.

B. *Hinder angles* of *thorax* obtuse: *elytra* deeply notched at the tip.

332 æneus *Fab. E.* i. 197. — *Pz. F.* lxxxv. f. 3 and 4. — *Ste. M.* i. 155. — Black; above brassy-green, coppery, blue or violet, shining: thorax with a punctate fovea on each side behind; elytra highly polished in the ♂, obscure and granulated in the ♀, faintly striated, the interstices flat, the marginal ones more or less thickly punctulated. (L. 4-5 l.)

Var. Ca. discolor *Marsh.* i. 450. — Ferruginous beneath (immature).

Var. Ca. azureus *Marsh.* i. 450. — Black, with the upper surface rich blue.

Var. Ha. æneopiceus *Kirby.* — *Ste. M.* i. 156. — Elongate, thorax slightly narrowed behind; colour above pitchy-brass.

Var. Ha. concinnus *Ste. M.* i. 156. — Very slender, rather cylindric; brassy-black, above coppery-green: thorax slightly narrowed behind.

Var. Ha. dentatus *Kirby.* — *Ste. M.* i. 156. — Short, broad, flat; thorax rough at the base; elytra very deeply excised; above pitchy-brass.

Var. Ha. subcæruleus *Ste. M.* i. 157. — Short, broad; above of a rich black, or pitchy-blue: elytra faintly excised; legs sometimes pitchy.

Var. Ha. confusus *De. J. Sp.* iv. 271. ? — Ha. confinis *Ste. M.* i. 156. — Broad; above green-brass, or blue: antennæ and legs pitchy-black. Abundant throughout the country: 4-10.

C. *Hinder angles* of thorax acute.

333 caffer *Duft.* ii. 99. — *Stu. D. F.* iv. pl. 82. f. *D.* ? — *Ste. M.* i. 157. — Pitchy-black; paler beneath: thorax with the lateral margins more or less red; the base with a broad punctured space; the angles with a deep rugged fovea; elytra finely striated; antennæ, legs, palpi and mandibles red, the latter tipped with black. (L. 5 l.) On coast of Norfolk: 3-5.

334 tenebrosus *De J. S.* iv. 354. — *Ste. M.* i. 382. — Oblong; above bluish-black: thorax slightly foveolated behind, the foveolæ punctured; elytra moderately striated; tarsi and base of antennæ red. (L. 5 l.) On the coast of Sussex and Isle of Wight: 7.

335 rufitarsis *Duft.* ii. 82. — *Ste. M.* v. 381. — Shining black: thorax with a punctate fovea on each side behind; elytra finely striated; tarsi and basal joints of antennæ red. (L. 6 l.) Banks of Thames below Gravesend: 3-5.

336 calceatus *Duft.* ii. 81. — *Stu. D. F.* iv. pl. 81. f. *a.* — Black: thorax slightly narrowed behind and punctured, with a fovea on each side, touching the base; elytra deeply striated; antennæ and tarsi red. (L. 6 l.) Near Deal: 6.

337 ruficornis *Fab. E.* i. 180. — *Stu. D. F.* iv. pl. 76. f. *a.* — *Ste. M.* i. 158. — Pitchy-black: thorax with the margins, especially the hinder, thickly punctured, the base with a broad obscure fovea; elytra faintly striated, the interstices convex and very thickly punctulated, and clothed with a rich griseous pubescence; antennæ and legs red, or fuscous; rarely black. (L. $4\frac{1}{2}$-$7\frac{1}{2}$ l.)

Var. ? Ha. griseus *Pz. F.* xxxviii. f. 1. — *Ste. M.* i. 158. — Smaller; the punctures on the thorax smaller and more shallow: antennæ and legs paler. Abundant throughout England and Scotland: ⊙. ∗. Var. rare.

65 ANISODACTYLUS *De Jean.*

338 pœciloides *Ste. M.* i. 154. pl. 8. f. 5. — Glossy black; above brilliant green, copper-colour, or rich blue: thorax behind rugged, and with a rugose broad shallow fovea on each side; angles rounded; claws reddish; antennæ fuscous, with the basal joint red beneath; palpi pitchy-black, the tips rust-coloured. (L. 5-$5\frac{1}{2}$ l.) Rather scarce; on the banks of the Thames below Gravesend: 3-6.

339 binotatus *Fab. E.* i. 193. — *Pz. F.* xcii. f. 3. — *Ste. M.* i. 157. — Black, shining: thorax with the lateral and hinder margins thickly and roughly punctured, with a small fovea near each posterior angle; the latter acute; elytra deeply striated; interstices convex; legs pitchy-black; tarsi and claws reddish; or wholly red; antennæ with the basal joint red; palpi reddish; forehead mostly with 2 distinct red dots. (L. 4½ 5½ l.)

Var. ? Ha. spurcaticornis *Ziegler.* — *Ste. M.* i. 157. — Rather more narrow; the elytra less deeply striated; hinder angles of the thorax more acute; antennæ red at the base and apex, and forehead spotless. Common near London; Bottisham; Kimpton; in Suffolk; Norfolk; Devon, &c.

66 Pangus *De Jean.*

340 scaritides *Stu. D. F.* iv. 81. pl. xci. f. *c. C.* — *Ste. M.* i. 157. — Shining black: thorax suddenly narrowed behind, with a punctate 3-angular fovea on each side at the base; elytra faintly striated; tarsi, antennæ, and palpi pitchy-brown. (L. 4¼ l.) Near Gravesend; on banks of Thames: 4.

67 Actephilus *Stephens.*

341 vernalis *Duft.* ii. 102. — *Stu. D. F.* iv. 75. pl. 90. f. *A.* — *Ste. M.* i. 154. — Pitchy-black, slightly glossy: thorax with a minute obscurely punctate impression on each side at the base: elytra faintly striated, the outer margin rather pale rust-colour; legs dull rust-colour; tibiæ and tarsi palest; antennæ and palpi pale testaceous. (L. 2½-3 l.) On the coasts of Norf., Suff., Ess., &c.: 3-6.

342 pumilus *Stu. D. F.* iv. 77. pl. 90. f. *B.* ? — *Ste. M.* i. 155. — Black, slightly shining: thorax with a single stria at the base on each side; elytra faintly striated; legs black; antennæ fuscous; their base and palpi red. (L. 3-3½ l.) Also a littoral species: 3-7.

68 Ophonus *Zeigler.*

343 stictus *Marsham.* — *Ste. M.* i. 159. pl. 8. f. *l.* — Broad, black: thorax with hinder angles obtuse, not foveated; disc deeply punctate; head and elytra slightly punctate, the last faintly striated, the tip deeply excised; legs and antennæ rusty-red. (L. 6½-7 l.) Hackney Marshes; and near Darenth Wood: 3-6.

344 obscurus *Fab. E.* i. 192. — *Stu. D. F.* iv. pl. 92. f. *A.* — *Ste. M.* i. 160. — Pitchy-black: above black, the elytra slightly bluish, or greenish, faintly striated, interstices finely punctured; thorax orbicular, thickly and finely punctured; the base with a single deep fovea on each side; legs, antennæ, and palpi rusty-red. (L. 4½-6 l.) Gravesend; Southend; Kimpton; Dorking, &c.: 3-6.

345 Sabulicola *Fab. E.* i. 190. — *Stu. D. F.* iv. pl. 92. f. *B.* — *Ste. M.* i. 160. — Pitchy-black; above black, elytra bluish or greenish, faintly striated, interstices thickly punctured: thorax 4-drate, very coarsely punctate, the hinder angles with a very slight punctate fovea; antennæ, legs, and palpi rusty-red. (L. 5-½ 6 l.) With the preceding, but rare: 8-5.

346 punctatulus *Duft.* ii. 89. — *Stu. D. F.* iv. pl. 93. f. *D.* — *Ste. M.* i. 160. — Rather wide, flat; pitchy-black, above brassy-blue: thorax 4-drate, its disc sparingly, and the margins thickly, punctate; hinder angles without foveæ; elytra finely striated, interstices thickly punctured; antennæ, legs, and palpi rusty-red. (L. 4¼-4½ l.) Near Ripley, 7; and at Darenth Wood: 5-6.

347 nitidulus *Schr. A.* 213. — *Ste. M.* i. 161. — Elongate, slightly convex; black; above blue-green: thorax thickly and coarsely punctate, especially at the hinder angles, each of which has a slight fovea; elytra finely

striated, interstices thickly punctulate; antennæ, legs, palpi, and labrum red. (L. 3½-4½ l.) Hertford, 7; Swansea; Norwich; Bottisham; Kimpton, &c. : 4-8.

348 azureus *Ill. K.* i. 51. — *Ste. M.* i. 161. — Ca. chlorophanus *Pz. F.* lxxiii. f. 3. — Pitchy-black; above rich blue, or greenish: thorax sparingly, but deeply and coarsely, punctate, especially towards the base, which is not foveated; the lateral margin reddish; elytra faintly striated; interstices thickly punctulate; legs, antennæ, and palpi red; labrum pitchy-red. (L. 3-3½ l.) Darenth Wood; Hertford; Kimpton; Leith Hill; Bottisham; Newmarket Heath; Isle of Wight, &c. : 6-10.

349 puctatissimus *Ste. M.* i. 162. — Ha. rupicola *Stu. D. F.* iv. 105. pl. 94. f. *b.*? — Pitchy-testaceous: head and thorax rusty-red above; the latter somewhat heart-shaped, thickly punctured throughout, especially near the hinder angles, which have a slight fovea; elytra with a greenish hue, finely striate, interstices minutely punctured; legs, palpi, and antennæ pale red. (L. 3½-4½ l.) Near London; abundant at Southend: 4-6.

350 puncticollis *Pk. F.* i. 120. — *Stu. D. F.* iv. pl. 93. f. *A.* — *Ste. M.* i. 162. — Black, beneath pitchy: head sparingly punctate; thorax glossy black, disc slightly, and the base thickly and deeply, punctate; hinder angles with an obscure fovea; elytra striated; interstices finely punctulated; legs, antennæ, and palpi pale red. (L. 2½-4 l.)

Var.? Op. foraminulosus *Marsh.* i. 457. — *Ste. M.* i. 162. — Thorax more deeply punctured, and the dorsal line very distinct. Common within the London district; also at Kimpton; Bottisham; in Norf.; near Edinburgh, &c. : 4-8.

351 subpunctatus *Ste. M.* i. 163. — Pitchy-black; shining: thorax with the disc impunctate, and faintly wrinkled, the hinder margin towards the angles slightly punctured; elytra faintly striate, interstices obscurely punctulated; legs and antennæ pitchy. (L. 3¾ l.) Near Dover, and at Dorking. : 5-6.

352 puncticeps *Ste. M.* i. 163. — Narrow, elongate, pitchy-black: head deeply and thickly punctured; thorax somewhat heart-shaped, the disc thickly and coarsely punctate, with a deep dorsal line; legs, palpi, and antennæ testaceous-red. (L. 3½ l.) Near Dover: 6-7.

353 cribellum *Leach.* — *Ste. M.* i. 163. — Pitchy-black, paler beneath: thorax transverse, sides rounded, disc convex, thickly and deeply punctate, especially at the hinder angles, which have each a slight fovea adjoining; elytra rather dilated on the sides, faintly striate, the interstices thickly and coarsely punctate; legs and antennæ clear red. (L. 2¾-3½ l.) Near London, Dorking, and Dover.

354 lævicollis *Ste. M.* v. 383. — Pitchy-black, paler beneath, thorax transverse, rounded on the sides; disc obscurely, but the sides thickly, deeply, and coarsely punctate; elytra faintly striated; interstices minutely punctulated; antennæ and legs pale testaceous. (L. 2½ l.) On banks of Thames, below Gravesend: 5-6.

355 pubescens *Pk. F.* i. 124. — *Ste. M.* i. 164. — Pale rust-colour, or ochreous, very thickly punctured: head and thorax mostly with a black central line or blotch; elytra faintly striated, the striæ obscurely punctate; the disc with a large common black patch, tinted in certain lights with blue; breast and abdomen pitchy-black; legs rust-colour, thighs sometimes pitchy at the base; antennæ reddish, tip dusky. (L. 2¾-3½ l.) Beneath rejectamenta of the Thames, at Gravesend, Southend, &c.; also on shores of the Tees; near Swansea, &c. : 4-7.

356 obsoletus *De J. S.* iii. 232. — Oblong-ovate; slightly pubescent; punctate; testaceous: thorax slightly heart-shaped, with an impression

on each side; elytra striated, with a large oblong pitchy-black patch; antennæ and legs very pale testaceous. (L. 3-3¾ l.) On the Kentish and Essex coasts: 5-6.

69 Diachromus *Erichson.*

357 germanus *L.* ii. 671. — *Ste. M.* i. 164. pl. 9. f. 1. — Pubescent; punctate; black: head, legs, and elytra testaceous, the latter striated, and with a large blue or violet patch towards the apex; thorax blue-black; antennæ testaceous. (L. 14-4½ l.) Very rare: Kingsbridge, Devon: 6.

70 Stenolophus *Ziegler.*

358 vaporariorum *Fab. E.* i. 206. — *Ste. M.* i. 165. pl. 9. f. 2. — Oblong, black: thorax red: elytra faintly striated; testaceous, with a large common blue-black patch occupying the hinder portion; legs, palpi, and 2 basal joints of the antennæ pale testaceous. (L. 2½-3¼ l.) Battersea Fields; Wandsworth Common; Brompton; and Fakenham, Norf.: 2-4.

359 Skrimshiranus *Ste. M.* i. 166. — Pitchy-black, above dusky-testaceous: head black; elytra slightly striated, testaceous-brown, darkest towards the apex; legs, palpi, and 3 basal joints of the antennæ pale testaceous. (L. 3 l.) Near Fakenham; and Madingley Wood, Camb.: 3-4.

360 vespertinus *Ill. K.* i. 197. — *Ste. M.* i. 166. pl. 9. f. 3. — Oblong, pitchy-black: thorax with a large punctate fovea on each side at the base, the lateral margins testaceous; elytra testaceous-brown, the disc posteriorly and interiorly black; legs and basal joints of antennæ pale.

Var. St. Ziegleri. *Pz. F.* cviii. f. 8. — *Ste. N.* ed. 2. col. 11. — Longer; elytra black, with the margin pale. (L. 2¾-3 l.) Damp places near London, as Battersea: also Whittlesea Mere; Norwich, &c.: 2-4.

71 Masoreus *Ziegler.*

361 luxatus *Creutzer.* — *Cur.* vii. pl. 287. — *Ste. M.* v. 383. — Pitchy-black, or pale chestnut, sometimes ferruginous: elytra faintly punctate-striated, with the base and the antennæ and legs ferruginous; thorax pitchy, or chestnut, occasionally pale red. (L. 2-2½ l.) Near Sheerness, and on the Chesil bank, Isle of Portland: 3-6.

72 Trechus *Clairville.*

A. *Mentum* with an obsolete tooth: — Trechus *pr.*

362 dorsalis *Fab. E.* i. 208. — *Ste. M.* i. 167. pl. 9. f. 4. — Pitchy-black, shining: thorax with an obscurely punctate fovea on each side at the base, hinder angles obtuse; margins pale, disc sometimes the same; elytra striated, pale testaceous, with a broad glossy black or bluish dash on each near the suture; antennæ with basal joint pale. (L. 1½-2 l.) Copenhagen fields and Wandsworth Common, in spring; Fakenham, Norfolk, &c.: 3-6.

363 parvulus *Stu. D. F.* vi. 77. pl. 150. f. *B*? — *Ste. M.* i. 167. — Black; margins of the thorax (the base of which is obtuse, and has a small fovea on each side), elytra, legs, palpi, and 3 basal joints of the antennæ pale testaceous. (L. 1¾ l.) Near London, in damp places: 3-4.

364 flavicollis *Stu. D. F.* vi. 87. pl. 151. f. *C.* — *Ste. M.* i. 168. — Black: thorax testaceous-yellow, with a simple fovea on each side at the base; the hinder angles obtuse; elytra faintly striated, pale tawny-yellow, with a broad black dash; legs, palpi, and basal joints of antennæ pale testaceous. (L. 1¼-1½ l.) Near London; Ripley; and in Norfolk: 3-5.

365 ruficollis *Ste. M.* i. 168. — Ac. exiguus *De J. Ic.* 201. f. 2. ? — Pitchy-black: thorax pale tawny, with a slightly punctate fovea at each angle, the

latter scarcely obtuse; elytra rather deeply striated; legs, palpi, and basal joint of antennæ pale or pitchy-testaceous. (L. 1½ l.) Near London and Hertford: Bottisham.

366 nitidus *Ste. M.* v. 384. — Pitchy-black, very glossy: thorax pitchy, with its margin all pale yellow, the hinder angles obtuse; elytra finely striated, with a slight black tint; antennæ pitchy; the basal joint, palpi and legs pale yellow. (L. 1¼ l.) Swansea: 6.

367 aquaticus *Pz. F.* xxxviii. f. 10. — L. minutus *Ste. M.* i. 169. — Pitchy-black; very glossy: thorax transverse; its sides rounded and hinder angles slightly acute, each with a small fovea; elytra chesnut, with 4 or 5 impunctate dorsal striæ, not reaching the apex; legs, palpi and antennæ rust-coloured, the former palish. (L. 1½-1¾ l.)

Var. Tr. fuscipennis *Wilkin.* — *Ste. M.* i. 170.— Colour deeper: elytra more strongly striated, deep chestnut brown; legs and palpi rusty-red.

Var. ? Tr. tristis *Pk. F.* i. 145. ? — *Ste. M.* i. 170.— Deep pitchy-black: head black; elytra chestnut, with obscurely punctate, abbreviate dorsal striæ; legs pale rust-colour. Common in damp places near London, &c. ⊙ *.

368 lævis *Waterhouse. Ste. M.* v. 334. — Pitchy, glossy: thorax transverse, with the sides rounded and hinder angles slightly acute; elytra striated on the back, the striæ smooth and faint, and not reaching to the apex; legs and antennæ tawny. (L. 2-2½ l.) Near London.

369 suturalis *Leach.*— *Ste. M.* i. 168. — Pitchy-black: thorax with a faintly punctate fovea on each side at the base, hinder angles slightly acute; disc sometimes fulvescent; elytra deeply striated, suture and margin tawny; legs and palpi pale testaceous. (L. 1¾-2¼ l.) Hampstead; Wandsworth; Banks of Tees; Swansea; &c. 3-5.

370 brunnipes *Stu. D. F.* vi. 88. pl. 151. f. *B.* — pallipes *Ste. M.* i. 168.— Black, beneath pitchy: thorax with a distinctly punctate fovea near each hinder angle, the latter rather acute; elytra deeply striated, the striæ slightly punctate; interstices rather convex; legs, palpi and antennæ at base, very pale tawny. (L. 2¼-2½ l.) Near Hertford and in Devonshire: 4-7.

371 fulvus *Mant.* i. 456. — *Ste. M.* i. 169. — Tawny-pitchy: thorax rusty-red, disc sometimes wrinkled transversely, with a shallow coarsely punctured fovea on each side near the base; elytra rather faintly striated; striæ not punctured; interstices slightly convex; legs testaceous; antennæ tawny, with tip dusky. (L. 2-2⅓ l.)

Var. ? Tr. pallidus *Ste. M.* i. 169.— Pale testaceous: suture, margins of the elytra, antennæ and legs paler: eyes black; thorax punctate behind. Common near London in sand-pits, &c. ⊙. Var ? near Ripley: 6-7.

372 meridianus *L.* ii. 673. — *De J. Ic.* iv. pl. 200. f. 5. — *Ste. M.* i. 170. — Shining black: thorax a little elongate, narrow and punctate behind, with a large punctured fovea on each side; hinder angles obtuse; margin sometimes testaceous; elytra faintly striated, base and suture pale ochreous; legs and base of antennæ testaceous. (L. 1¼-1¾ l.) Common near London.

373 cognatus *Gyll.* iv. 455. ? — *Ste. M.* i. 171. — Black: thorax obliquely narrowed behind, the angles obtuse; hinder margin dull rust-colour, with a deep punctate fovea on each side; elytra striate, ferruginous, with a broad bluish-black elongate patch; thighs black, tibiæ and tarsi pale testaceous. (L. 1¾ l.) Near London: 5.

374 consputus *Duft.* ii. 148. — *Ste. M.* i. 173. pl. 9. f. 6. — Elongate; black: thorax red, with a deep impunctate fovea on each side at the base; the hinder angles straight; elytra testaceous, moderately striated; with a broad black patch, tinted with bluish, on each, not reaching the suture; legs, tip of the abdomen and base of the antennæ pale testaceous-yellow. (L. 2-2¼ l.) Gravel pits, Windsor; Old Brompton; Battersea fields, &c.: 3-5.

B. *Mentum* with an obtuse tooth : — Bradycellus *Erichson.*

375 placidus *Gyll.* ii. 162. — *Ste. M.* v. 384. — *De J. Ic.* iv. pl. 199. f. 4. — Oblong : black, or pitchy : thorax somewhat 4-drate, narrowed behind, with a punctate fovea on each side, the hinder angles obtuse ; the disc mostly clouded ; elytra striated, testaceous, with a lanceolate pitchy-black patch towards the suture, the outer margin slightly pubescent ; legs and base of antennæ pale. (L. 2-2¼ l.) Rare ; on the banks of the Thames and of the Tees : 3-5.

376 collaris *Pk. F.* i. 146. — *Stu. D. F.* vi. pl. 150. f. *A.* — Oblong-ovate : rusty-red, shining : thorax somewhat 4-drate, narrowed behind and with obtuse angles ; base on each side with 2 elongate, punctate foveæ ; elytra striated deeply, but impunctate, interstices flat, the 3d with a distinct impression ; legs and 3 basal joints of antennæ pale. (L. 1⅔-2 l.) Rare ; near London : 4-6.

73 Blemus *Ziegler.*

377 paludosus *Gyll.* ii. 34. — *Ste. M.* i. 171. — *Stu. D. F.* vi. pl. 151. f. *D.* — Broad ; pitchy-black, shining : head dusky ; thorax with a deep transverse fovea on each side at the base ; elytra with the disc punctate striated, the margin and apex faintly striated ; abdomen rather pale at the tip ; legs and antennæ pale testaceous. (L. 3 l.) Norwich ; Hull ; Carlisle ; Grampian Hills ; Zetland and Swansea : 4-7.

378† pallidus *Stu. D. F.* vi. 98. pl. 153. f. *A.* — *Ste. No.* 2 ed. col. 12. — Pale testaceous, shining : thorax reddish, heart-shaped : elytra finely punctate-striate ; head dusky behind ; eyes black ; legs and antennæ pale. (L. 2½ l.) Coasts of Dorset, Hants and Kent.

379 micros *Herbst. A.* 142. — *Cur.* vii. pl. 310. — Tr. rubens. — *Ste. M.* i. 172. — Narrow ; rusty-testaceous : head dusky, with a curved impression on each side ; thorax reddish, with a deep fovea on each side near the hinder angles ; elytra faintly striated, pale, with a bluish tinge towards the apex ; legs and antennæ pale rust-colour. (L. 2¼ l.) Lambeth ; Chelsea ; Hackney ; Windsor ; Thruxton, Hants ; Carlisle : 3-6.

380 discus *Fab. E.* i. 207. ? — unifasciatus *Pz. F.* xxxviii. f. 7. — *Ste. M.* i. 172. — Narrow ; rusty-red : eyes black ; thorax obcordate, rather convex, with a simple depression on each side at the base ; elytra obscurely striated, with a bluish-black transverse band towards the apex ; legs and antennæ pale, or ochreous ; head sometimes black. (L. 2-2¼ l.) Sparingly near London ; also near Southend ; in Norfolk and Suffolk ; and near Manchester : 3-6.

381† longicornis *Stu. D. F.* vi. 83. pl. 151. f. *A.* — *Ste. M.* i. 172. — Elongate : head black ; thorax somewhat orbiculate-heart-shaped, truncate behind, brown ; elytra pale brown, paler on the sides, bluish towards the suture, faintly striated ; legs, palpi and antennæ pale brownish-yellow ; the latter rather long. (L. 2 ? l.) Under rejectamenta, Broughton, Lanc. ; 6.

74 Epaphius *Leach.*

382 Secalis *Pk. F.* i. 146. — *Stu. D. F.* vi. 71. pl. 149. f. *A.* — *Ste. M.* i. 172. — Bright shining rust-colour ; eyes black ; thorax very glossy, smooth, with a small fovea on each side at the base ; elytra with 5 distinctly punctate short striæ at the base ; the outer margin and apex smooth ; except a few impressions at the base of the former ; legs, palpi and antennæ pale. (L. 2 l.) Coasts of Norfolk ; shores of Humber ; near Aberystwith : 3-6.

75 Aëpus *Leach.*

383 fulvescens *Leach.* — *Cur.* v. pl. 203. — *Ste. M.* i. 174. — Flat: pale ochreous, pale beneath: head rather tawny; eyes black; thorax with an obscure fovea on each side near the hinder angles; elytra pale, irregularly and rather faintly punctate; legs pale ochreous; antennæ tawny. (L. ¾-1¼ l.) Mouths of the rivers Tamar and Yealm; at Tamarton, Bantham and Kingsbridge, Devon; Ballyhuich Ferry, Scotland; Berwick-upon-Tweed, *below* high-water mark: 3-7.

Fam. 6. BEMBIDIIDÆ *Stephens.*

lxxvi. Lymnæum *Body* linear, much flattened: *ant.* with 3d and 4th joints equal in length: *palpi* rather long: *labrum* slightly rounded in front: *mand.* short, obtuse: *tho.* with hinder angles acute: *anterior tarsi* of ♂ with 2 dilated joints, 4th joint with a curved spine.

lxxvii. Cillenum *Body* linear, flat: *ant.* with the 3d joint longer than the 4th: *palpi* short: *labrum* concave in front: *mand.* long, acute: *tho.* with hinder angles acute: *anterior tarsi* of ♂ dilated, 4th joint simple.

lxxviii. Tachys *Body* ovate, slightly convex: *tho.* transverse, hinder angles rounded, entire: *ant.* with 2d and 4th joints of equal length: *palpi* rather short: *labrum* entire: *mand.* short, acute: *anterior tarsi* of ♂ with the basal joint dilated.

lxxix. Philochthus *Body* ovate, slightly convex: *tho.* transverse, hinder angles rounded and deeply notched: *ant.* with the 2d joint shorter than the 4th: *palpi* rather short: *labrum* entire: *mand.* broad, short, rather obtuse: *anterior tarsi* of ♂ with the basal joint dilated.

lxxx. Ocys *Body* ovate, slightly convex: *tho.* transverse, hinder angles prominent, acute: *ant.* with 4th joint longest: *palpi* rather long: *labrum* entire: *mand.* short, rather obtuse: *anterior tarsi* of ♂ with the basal joint dilated.

lxxxi. Peryphus *Body* elongate-ovate, slightly flattened: *tho.* truncate, heart-shaped: hinder angles very acute: *ant.* with 3d joint longest, remainder elongate, 5th shorter than the 3d or 4th: *palpi* rather long: *labrum* entire: *mand.* short, ovate: *anterior tarsi* of ♂ with 2 dilated joints.

lxxxii. Notaphus *Body* elongate-ovate, slightly depressed: *tho.* truncate, heart-shaped, hinder angles acute: *ant.* with 3d and 4th joints shorter than the 5th: *palpi* rather long and slender: *labrum* 4-drate, entire: *mand.* stout, acute: *anterior tarsi* of ♂ with the basal joint dilated.

lxxxiii. Lopha *Body* elongate-ovate, rather flat: *tho.* truncate, heart-shaped, gibbous in front, flat and narrowed behind, with deflexed angles: *ant.* with 3d and 5th joints of equal length, and longer than the 4th: *palpi* short: *labrum* short, entire: *mand.* slender, long, acute: *eyes* moderate: *anterior tarsi* of ♂ with the basal joint dilated.

lxxxiv. Tachypus *Body* elongate-ovate, rather convex: *tho.* truncate, heart-shaped, flat, sessile; hinder angles deflexed: *ant.* with the 3d joint longest, 8th to 10th very short: *palpi* shortish: *mand.* long, acute: *labrum* entire: *eyes* moderate: *anterior tarsi* of ♂ with 2 basal joints dilated.

lxxxv. Bembidium *Body* elongate-ovate, rather flat: *tho.* truncate, heart-shaped, narrowed behind, and with acute angles: *ant.* with 3d joint longest, 5th shorter than the 4th: *palpi* slender: *mand.* short, acute: *labrum* entire: *eyes* very prominent: *elytra* ovate, pubescent and tuberculated: *anterior tarsi* of ♂ with basal joint dilated.

76 Lymnæum *Stephens.*

384 nigropiceum *Marsh.* i. 468. — *Ste. M.* ii. 3. pl. x. f. 1. — Pitchy-black,

with a rusty hue: thorax faintly tinged with blue; its base faintly punctate; elytra flat, deeply striated, interstices convex, with two deep impressions on the 4th; legs rusty; antennæ, palpi and labrum tawny-red. (L. 2 l.) Herefordshire; banks of Esk?.

385 areolatum *Creutz E. V.* 115. pl. 2. f. 19.? — depressum *Ste. M.* ii. 3. — Flat: pitchy-black: thorax sparingly punctured on disc, thickly at base; elytra faintly striated; interstices flat, sparingly punctulate, disc pitchy, or reddish; legs and basal joint of antennæ tawny-red; 2d and 3d joints of the last reddish. (L. 1¼ l.) Dudden Sands, near Broughton, Lanc.: 6-7.

77 Cillenum *Leach.*

386 laterale *Leach.* — *Cur.* v. pl. 200. — *Ste. M.* ii. 4. — Greenish-copper, or brassy, shining: head and thorax minutely punctured; elytra ochreous, with a greenish tinge, faintly punctate striate, the 3d stria with 3 or 4 impressions; legs and base of antennæ testaceous; tip of the latter and the mouth pale tawny. (L. 1¾-2 l.) Sea coasts: Portobello Sands; Southend; Cromer: 4-6.

78 Tachys *Ziegler.*

387 scutellaris *Ste. M.* ii. 5. — Rather flat; black: disc of thorax slightly convex; base with 2 foveæ; elytra pale, region of scutellum dusky, hinder half with a tinge of the same; base with 3 short faintly punctate striæ; disc with a deep impression: legs and base of the antennæ pale; mouth tawny. (L. 1⅛ l.) Christchurch, Hants, on coast: 4-5.

388 binotatus *Ste. M.* ii. 5. — Brassy or greenish-black: thorax with a deep fovea on each side at the base; elytra rather convex, punctate striate, outer edge smooth; near the apex a round pale spot; thighs pitchy; tibiæ and tarsi pale tawny; antennæ brown, basal joint reddish. (L. 1¼-1½ l.) Common; near London, Southend, &c. ⊙, ✳.

389 vittatus *Ste. M.* ii. 5. — Brassy-black; thorax with a small impression on each side at the base; disc faintly wrinkled; elytra deeply punctate striate, obsolete at the tip, which bears an undefined pale streak, or is entirely pale; legs pale tawny; antennæ with basal joints reddish. (L. 1¼-1½ l.) Common in banks, &c. in the London district: ⊙, ✳.

390 immunis *Kirby.* — *Ste. M.* ii. 6. — Brassy-black, or violet: thorax with a small fovea on each side at the base; elytra dilated in the middle, bluish, suture reddish; very obscurely punctate striate; apex concolorous, and spotless; legs pitchy-red; base of thighs pitchy; antennæ reddish at base. (L. 1¼ l.) Abundant near London; also at Cork; Milford Haven; Dartmoor, &c.

391 obtusus *Stu. D. F.* vi. 165. pl. 161. f. *C.*? — *Ste. M.* ii. 6. — Pitchy-black: thorax with the base punctured, and a stria on each side; elytra punctate striate, with 2 or 3 impressions on the 3d interstice; apex spotless; legs and base of antennæ pitchy. (L. 1¼ l.) London district; Netley, &c. Common.

392 pusillus *De J. S.* v. 165. — *Ste. M.* ii. 6. — Pitchy-brass, or greenish: thorax with a punctured fovea on each side at the base; elytra faintly punctate striated, the tip pitchy; legs pitchy-red; antennæ with basal joint reddish. (L. 1⅛ l.) London district, Netley, &c.

393 gracilis *Ste. M.* ii. 6. — Slender, pitchy-black: thorax with a small impunctate fovea on each side at the base; elytra with the suture and apex reddish, the disc faintly punctate-striate; legs tawny-red; antennæ reddish at base. (L. 1¼ l.) Sand hills, near Swansea: 4-6.

394† maritimus. — Rather ovate, pitchy-black: thorax paler, slightly narrowed behind, with a deep fovea on each side at the base, which is depressed;

elytra with a faint bluish tinge, the back striated, the striæ rather indistinct and impunctate; legs dull tawny; mouth, 3 basal joints of antennæ, and base of palpi tawny-red. (L. ¾ l.) Ryde, Isle of Wight: 5-6.

395 minutissimus *Leach.* — *Ste. M.* ii 7. — Pitchy-rust-colour, rather opaque: head dusky; thorax with a simple 3-gonal fovea on each side at the base; elytra narrow, pale, with 2 obscure impunctate striæ on each near the suture, the rest smooth; legs and mouth pale tawny; antennæ pitchy; tip dusky. (L. ⅞-1 l.) Glamorganshire coast: 4-6.

79 Philochthus *Stephens.*

396 æneus *Spence.* — *Ste. M.* ii. 7. — Brassy, shining: thorax with 2 smooth foveæ at the base; elytra punctate-striate, the striæ not reaching to the apex, which is concolorous, and has on each side near the margin an elevated line; body beneath, antennæ and thighs black; tibiæ and tarsi pitchy. (L. 2¼ l.) In Yorkshire, and Netley, Salop: 3-6.

397 fuscipes *De J. Cat.* 17.? — *Ste. M.* ii. 8. — Above shining brassy-black: thorax faintly wrinkled transversely, its base with a transverse impression terminating on each side in a small fovea; elytra punctate-striate, the striæ not reaching to the apex, which is pale testaceous, and has a slight elevated line; body bluish beneath; legs rusty-brown, or tawny; antennæ with basal joints reddish. (L 2-2¼ l.) London; Devonshire; Swansea; Netley; &c.: 3-6.

398 subfenestrata *De J. C.* 17.? — *Ste. M.* ii. 8. — Above brassy, or greenish black: thorax with a small fovea on each side at the base; elytra broad, punctate-striate, the apex smooth, with a small, round, testaceous spot towards the outer margin, and sometimes the extreme tip pale; body pitchy beneath; legs tawny; antennæ reddish at the base. (L. 2-2¼ l.) Near London; Netley; and Waterford, Ireland: 3-6.

399 biguttatus *Ill. K.* i. 230. — *Ste. M.* ii. 8. — Above brassy-black: thorax with a depression on each side at the base; elytra deeply punctate-striate nearly to the tip, which has a strongly elevated line and a tawny round spot; the 3rd interstice with 2 deep impressions; basal joint of antennæ and legs pale red. (L. 1¾-2 l.) Near London: Sandy Lane, Richmond: 4-6.

400 guttula *Ill. K.* i. 229. — *Ste. M.* ii. 9. — Above black, or greenish-brass: thorax with a faint oblong slanting fovea on each side at the base; elytra striated, the striæ punctate at the base, vanishing at the apex, the lateral striæ very obscure; the apex with a pale reddish dot; legs reddish; basal joints of the antennæ pitchy red. (L. 1½-1¾ l.) Common near London: also Southend; Isle of Arran; Reek Mountains, Ireland, &c. ⊙.

401 hæmorrhous *Kirby.* — *Ste. M.* ii. 8. — Above brassy-black: thorax with a small oblique fovea on each side at the base, the disc rather convex; elytra faintly punctate striated, the striæ not reaching to the apex, which is pale pitchy-red; legs deep pitchy; antennæ black. (L. 1¼-1½ l.) Near London, and in Norfolk: 3-6.

80 Ocys *Kirby.*

402 currens *Kirby.* — *Ste. M.* ii. 10. — Brassy-black, sometimes with a greenish or olive tinge: thorax with a fovea on each side at the base; elytra light-blue, or greenish; deeply punctate-striate on the back, the 2 sutural striæ alone extending to the tip, which is at times reddish; legs and antennæ pale red. (L. 2-2¼ l.) Rare: Ockham Park, near Ripley; Battersea fields; Norfolk and Suffolk: 1-5.

403 melanocephalus *Leach.* — *Ste. M.* ii. 10. pl. 10 f. 2. — Rusty-red: head dusky; thorax bright red, the base with a deep striæ on each side; elytra

dull or dusky, sometimes bluish, faintly striated on the back; legs and antennæ pale red. (L. 2¼-2⅓ l.) Also rare: Ripley; Hertford; Lawrence Waltham; Netley; and in Norfolk and Suffolk: 4-6.

404 tempestivus *Pz. F.* lxxiii. f. 6. ? — *Ste. M.* ii. 11. — Rusty-red: thorax brightest, with an oblique stria on each side at the base; elytra obsoletely punctate-striated on the back, and with an undefined longitudinal black patch towards the margin; legs and antennæ pale red. (L. 2½ l.) Also rare: near London: in Norfolk, and in Devon: 4-6.

81 Peryphus *Megerle.*

A. *Elytra* with pale spots.

405 femoratus *Stu. D. F.* vi. 117. pl. 155. f. *B.* — *Ste. M.* ii. 12. v. 384. — Rather flat; green: thorax with a deep fovea on each side at the base; elytra with 2 reddish spots, punctate-striate, the striæ vanishing on the sides and apex; terminal joint of the palpi and thighs black; their base, tibiæ, tarsi, and basal joints of antennæ rusty-red. (L. 2¼-2¾ l.) Common near London; Battersea fields. ⊙, ∗.

406 concinnus *Kirby.* — *Ste. M.* ii. 12. *and* v. 385. — Rather flat; brassy-green: thorax as in No. 405.; elytra pale, with a brassy-black cross on the back, punctate-striate, the striæ vanishing on the sides and apex; antennæ at the base, palpi and legs entirely pale rusty. (L. 2-2½ l.) Also common near London, and in Suffolk. ⊙.

407 maritimus *Rudd.* — *Ste. M.* v. 385. — Rather flat; brassy-green: thorax as in No. 405.; elytra pale, with a broad common brassy-black cross; punctate-striate, the striæ vanishing on the sides and apex; antennæ and legs entirely rusty; palpi rusty, with terminal joint pitchy-black. (L. 2¾ l.) Banks of Tees, common: 3-8.

408 tetraspilotus *Rudd.* — *Ste. M.* v. 385. — Rather flat, brassy-green: thorax as in No. 405.; elytra with 2 distinct reddish spots, the disc punctate-striate, the sides and apex smooth; base of the antennæ and of the palpi, and legs entirely rusty; tip of palpi pitchy. (L. 2¾ l.) Kensington Gardens, and in Yorkshire. ⊙.

409 littoralis *Oliv. E.* iii. 110. pl. 9. f. 103. — *Ste. M.* ii. 13. *and* v. 385. — Rather flat; brassy-green: thorax as in No. 405.; elytra with 2 large pale-reddish patches, punctate-striate, the striæ vanishing on the sides and apex; antennæ rusty, with the tips of the joints more or less pitchy; legs and palpi entirely rusty. (L. 2½-3 l.) In abundance near London; ⊙, ∗.

410 saxatilis *Gyll.* iv. 407. ? — *Ste. M.* ii. 12. *and* v. 385. — Flat; greenish-black: thorax longish, with 2 basal foveæ; elytra with 2 small and rather obscure red spots; punctate-striate, the striæ extending to the apex, obscure on the sides; antennæ and legs dull rusty. (L. 2½ l.) Occasionally near London; North of England: ⊙.

411 elegans *Ste. M.* v. 386. — Flat, greenish-brass: elytra with 2 large bright red blotches, punctate-striate, the striæ extending to the apex, but the lateral ones obscure; legs and antennæ pitchy-black; palpi pitchy. (L. 1¾-2½ l.) Near London: ⊙.

412 lunatus *Duft.* ii. 24. — *Ste. M.* ii. 13. pl. x. f. 3. — Slightly convex: rich shining, green-brass: thorax with a large round fovea on each side at the base; elytra with a large, transverse, crescent-shaped, pale rusty-red spot towards the apex; deeply punctate-striate, the striæ extending to the apex; legs, palpi, and 3 or 4 basal joints of antennæ pale testaceous. (L. 3-3½ l.) Rare; near Swansea, and Carlisle: 3-6.

413 ustus *Schön. S.* i. 221. — *Ste. M.* i. 14. — Rather convex; brassy-green: thorax with 2 large punctate foveæ at the base; elytra crenate-striated, the

apex smooth and pale rusty-brown; body beneath rusty, or brassy-black; legs, antennæ, and palpi pale rust-colour. (L. 3-3¼ l.) Rare: in Norfolk and Yorks.: 4-6.

414 decorus *Pz. F.* lxxiii. f. 4. — *Ste. M.* ii. 14. — Rather flat; greenish: thorax with a shallow stria on each side at the base; elytra crenate-striate; the striæ vanishing at the sides and apex, the sutural one excepted; which is carried to the tip itself, and which is pale pitchy rust-colour; body black beneath; legs and basal joint of antennæ rust-coloured. (L. 2½-3 l.) Damp gravel pits, Wandsworth; Richmond: 3-6.

B. *Elytra* not spotted.

415 rufipes *Ill. K.* i. 63.? — Pe. affinis *Ste. M.* v. 386. — Rather flat; greenish, very glossy: elytra punctate-striated, the striæ scarcely extending to the apex, immaculate; antennæ, palpi and legs entirely bright rusty-red. (L. 3-3¼ l.) Marton, Yorks.: 3-6.

416 nitidulus *Marsh.* i. 454. — *Ste. M.* ii. 14. — Rather flat; above deep blue or greenish, shining: thorax with the hinder margin punctate, and bearing a fovea on each side near the angles; elytra punctate-striate, apex rather smooth; femora dusky, their tips, tibiæ, tarsi, and base of antennæ and palpi reddish; tip of palpi dusky. (L. 2-2½ l.) In plenty in gravel pits on Wimbledon Common; Wandsworth; Netley: 3-6.

417 albipes *Stu. D. F.* vi. 134. pl. 148. f. *A.* — *Ste. M.* v. 386. — Above brassy-greenish-black and shining: thorax with the base and side punctate, the former with 2 foveolæ; elytra punctate-striate, the tip smooth; antennæ and palpi reddish-yellow; legs pale ochreous-yellow. (L. 2¼ l.) N. of England, and in Scotland: 3-7.

418 Monticulus *Stu. D. F.* vi. 135. pl. 158. f. *B.* — *Ste. M.* v. 386. — Rather flat; deep blue-black, shining: elytra punctate-striate, the striæ extending to the apex; base of the antennæ and legs entirely ochreous-yellow; palpi brown. (L. 2½ l.) N. of England, and in Scotland: 3-7.

419 viridi-æneus *Ste. M.* ii. 15. — Flat; brassy-green: thorax with a deep rugged impression on each side at the base; elytra punctate-striate, the striæ extending to the tip; the disc with 2 or 3 deep impressions; legs pale red; basal joint of antennæ, and of the palpi, reddish; tips of both dusky. (L. 2½-3¼ l.) N. of England, and in Scotland; Carfin, Lanarks.: 3-6.

420 agilis *Spence.* — *Ste. M.* ii. 15. — Flat, brassy-green: thorax with the disc obscurely wrinkled transversely; the base with a shallow fovea on each side; elytra punctate-striate, the striæ not reaching to the apex, the 3d interstice with 2-3 impressions; legs, basal joints of the antennæ and of the palpi pale red; terminal joints dusky. (L. 2½-3 l.) N. and W. of England; N. Wales; and Scotland: 3-6.

421 cnemerythrus *Ste. No.* ed. 2. col. 13. — Pe. tibialis *Leach.* — *Ste. M.* ii. 15. — Flat; brassy-black: thorax green, with a deep impunctate fovea on each side of the base; elytra obsoletely punctate-striated, the striæ extending to the tip, the 3d interstice with 2 or 3 impressions; femora brassy-black; their tip, coxæ, tibiæ, tarsi, and basal joint of antennæ reddish. (L. 2¾ l.) Also N. of England, and in Scotland; Swansea, &c.: 5-7.

422 Leachii *Spence.* — *Ste. M.* ii. 16. — Flat; brassy-black: thorax with a large deep impunctate fovea on each side at the base; elytra wide, striated, the striæ not punctate, the 3d with 2 or 3 impressions attached; legs and palpi black; basal joint of antennæ beneath pitchy-red. (L. 2½ l.) Loch Lomond; rare: 4-6.

423 olivaceus *Gyll.* iv. 408? — *Ste. M.* ii. 16. — Flat; greenish-brass: elytra faintly striated, the striæ not punctate, the 3d with 2 or 3 impressions attached; legs pitchy-brown, thighs at base paler or reddish; basal joint of antennæ pitchy. (L. 2½-2¾ l.) N. of England, and in Scotland; Carlisle; Carfin, &c.: 5-7.

424 atrocæruleus *Ste. M.* ii. 17. — Flat; brassy-black: thorax faintly wrinkled transversely, with a slight fovea on each side at the base; elytra deep blue-black, faintly striated, the striæ obscurely punctate, and extending to the tip, the 3d with 2 impressions; femora brassy; tibiæ, tarsi, and basal joint of the antennæ pitchy rust-colour; rest of the latter and palpi dusky. (L. 2½ l.) Halifax: 4-6.

425 tibialis *Megerle.* — *Duft. F.* ii. 209. — *Ste. M.* v. 387. — Flat; brassy-green above: thorax with a large smooth fovea on each side at the base; elytra punctate-striated; the striæ nearly extending to the apex, the 3d with 2 or 3 impressions; tibiæ, tarsi, and basal joint of antennæ pale reddish-yellow. (L. 2-2¼ l.) Yorkshire: 5-7.

426 Fellmanni *Gyll.* iv. 409.? — *Ste. M.* v. 386. — Flat; above dull-green: thorax with a fovea on each side at the base and an obscure stria; elytra striated, the striæ impunctate, the 3d with 2 impressions attached; antennæ and legs entirely black, with a greenish gloss. (L. 3 l.) Scotland and Yorks.: 4.

82 Notaphus *Megerle.*

427 undulatus *Stu. D. F.* vi. 156. pl. 160. f. *D.* — *Ste. M.* ii. 17. pl. x. f. 4. — Head and thorax brassy-green; shining: elytra punctate-striate, brassy-brown, with a transverse pale waved band near the tip, and 2 deep impressions on the 3d interstice; legs and basal joint of the antennæ brown. (L. 2¾-3⅛ l.) Earl's Court; Walham Green, &c.; Netley; S. Wales: 3-6.

428 ustulatus *L.* ii. 673. — *Pz. F.* xl. f. 7.? — *Ste. M.* ii. 18. — Head and thorax green or coppery-brass, shining: elytra faintly punctate-striate, livid, with a brassy gloss, with various irregular brown streaks and patches, leaving a pale waved band towards the apex; 3d interstice with 2 impressions; legs and basal joint of antennæ reddish-brown. (L. 2½-2¾ l.) Isle of Sheppy; Deal; Netley; near London, &c.: 3-5.

429 nebulosus *Ste. M.* ii. 18. — Ca. ustulatus *Pz. F.* xl. f. 7.? — Blue-black: head blue; thorax brassy, with a violet tinge; elytra livid, pale griseous, obscurely clouded with fuscous, the suture dark blue; striated; the striæ faintly punctate, and dark brown; legs pitchy-brown, tinged with bluish; basal joint of antennæ reddish. (L. 2-2½ l.) Near London?

430 bifasciatus *Leach.* — *Ste. M.* ii. 19. — Ca. semipunctatus *Don.* v. pl. 367. f. 2. var.? — Brassy- or greenish-black: elytra punctate-striated, with 2 or 3 impressions on the 3d interstice, brassy-brown, with 2 irregular transverse bands of dusky-ochreous spots; the tip pitchy; legs pitchy-brass; tibiæ, tarsi, and basal joint of the antennæ brassy-brownish-red. (L. 2-2¾ l.) Near London; Isle of Sheppy; Swansea; Devon, &c.: 3-6.

431 obliquus *Stu. D. F.* vi. 160. pl. 161. f. *A.* — *Ste. M.* ii. 19. — Brilliant brassy-green: elytra finely punctate-striate, brassy-green, the disc with several scattered ochreous spots, and 2 distinct, irregular, transverse bands; tip spotless; antennæ and legs brassy-black; tibiæ and tarsi pitchy. (L. 2-2¼ l.) Banks of Thames and Severn: 3-6.

432 stictus *Ste. M.* ii. 20. — Brassy- or greenish-black: thorax with 2 smooth basal foveæ; elytra faintly punctate-striated, pale brownish-yellow, with several scattered irregular black spots and blotches; legs pitchy rust-colour; antennæ pitchy, basal joint paler. (L. 1¾-2 l.) Southend: 3-5.

433 fumigatus *Creutzer.* — *Duft. F.* ii. 204. — *Ste. M.* ii. 20. — Bright

blackish-brass: head green; thorax as in No. 432.; elytra punctate-striated, pale yellowish brown, tinged with brassy, with 2 irregular black bands, and some scattered spots of the same; striæ brown; suture bluish; legs rusty-red; antennæ pitchy. (L. 1¾-2 l.) Swansea: 3-6.

434 ephippium *Marsh.* i. 462. — *Ste. M.* ii. 20. — Brassy-black: thorax with 2 rugose basal foveæ; elytra pale testaceous, with a brownish cloud common to each near the apex; faintly punctate-striate, the striæ brown; abdomen black; legs and antennæ testaceous. (L. 1½ l.) Sea-coasts; Christchurch, Hants; Yarmouth, Norf.; Isle of Sheppy, &c.: 3-7.

435 castanopterus *Ste. M.* ii. 21. — Pitchy-black: thorax with 2 impunctate basal foveæ; elytra deep chestnut, spotless; striated, the striæ faintly punctate and dusky; abdomen pitchy; legs and antennæ chestnut. (L. 1¼ l.) Near London: 4.

83 Lopha *Megerle.*

436 pœcila *Hoffm.* — *Ste. M.* ii. 21. — Ca. articulatus *Pz. F.* xxx. f. 21.? — Blue-black, shining: thorax with a transverse punctate impression behind, and 2 deep foveæ; elytra faintly punctate-striated, reddish-testaceous, with a dusky-brown bar in the middle, then a slanting interrupted testaceous one, and a brown band, then a pale tip; legs and antennæ testaceous, the latter dusky at the tip. (L. 1½-1¾ l.) Damp places near London; Netley; Ben-Lomond, &c.: 4-6.

437 4-guttata *Fab. E.* i. 207. — *Pz. F.* xl. f. 5. — *Ste. M.* ii. 22. — Brassy-black, extremely glossy: elytra punctate-striate at the base, with a large somewhat 3-angular whitish spot on the shoulder, and a smaller round one on the disc; legs pale; tips of thighs dusky; antennæ black; basal joint and base of 3 following rusty. (L. 2-2¼ l.) Abundant near London; Deal; Devon.; Carlisle; ⊙.

438 4-maculata *L.* ii. 658. — *Ste. M.* ii. 22. — Ca. pulchellus *Pz. F.* xxxviii. f. 8. — Greenish-brass; very shining: elytra blue-black, punctate-striate; apex smooth; at the base a large angulated pale spot, and a round one towards the apex; legs pale testaceous, femora at times slightly pitchy; antennæ testaceous, dusky at the tip. (L. 1½-1⅝ l.) Also common, London district; Southend; Deal, &c.: ⊙.

439 pulchella *Marsh.* i. 454. — *Ste. M.* ii. 23. — Shining blue-black: head with 2 parallel frontal striæ; thorax with a transverse impression behind, terminating in a simple fovea on each side; elytra bluish-black, faintly punctate-striate on the back; legs entirely reddish; antennæ wholly black. (L. 1¾ l.) Near London?

440 assimilis *Gyll.* ii. 26. — *Ste. M.* ii. 23. pl. x. f. 5. — Bronzed-black, shining: forehead with 2 oblique striæ; thorax with a slightly punctate impression at the base, terminating in a simple fovea on each side; elytra greenish, deeply punctate-striate on the back, the apex smooth and pale testaceous; within the margin a round pale dot; legs pale reddish. (L. 1½-1¾ l.) Rare: Southend and Isle of Sheppy: 4-6.

441 pusilla *Gyll.* iv. 403. — *Ste. M.* ii. 23. — Brassy-black; rather shining: forehead with 2 parallel striæ; thorax with a punctured transverse line, terminating in a deepish fovea on each side; elytra punctate-striate on the back; deep chestnut, the tip paler, inclining to pitchy; legs rusty-pitchy; antennæ dusky, with basal joints pitchy. (L. 1½ l.) Near London, and in Norf.: 4-6.

442 nigra *Wilkin.* — *Ste. M.* ii. 24. — Blue-black, shining: forehead with 2 oblique striæ; thorax greenish, with a faint transverse line, and 2 basal foveæ; elytra immaculate, punctate-striate on the back; legs and

basal joint of the antennæ reddish; tip of antennæ dusky. (L. 1⅜ l.) Near London and Norwich: 3-4.

443 pulicaria *Marsham.*—*Ste. M.* ii. 24. — Brassy-black, shining: forehead with 2 oblique striæ; thorax as in Lo. nigra; elytra flattish, faintly punctate-striate on the back, immaculate, legs, antennæ and palpi black; tibiæ and tarsi sometimes pitchy. (L. 1¼-1½ l.) Battersea Fields; Hertford, &c. ⊙.

444 minima *Fab. E.* ii. 210.? — *Ste. M.* ii. 24. — Brassy-black, shining: forehead with 2 nearly parallel striæ; thorax flattish, with a fovea on each side at the base, connected by a transverse line of punctures, hinder angles very acute; elytra pitchy-black, spotless, punctate-striate, nearly to the apex; legs, palpi, and antennæ pitchy-black. (L. 1-1¼ l.) London; Liverpool; Falmouth; Southend, &c. ⊙.

445 nana *Ste. M.* v. 387. — Shining black: elytra faintly punctate-striate to the apex, immaculate; legs and antennæ pitchy. (L. ¾-1 l.) Yorkshire: 4-6.

446 Doris *Ill. K.* i. 232. — *Pz. F.* xxxviii. f. 9. — *Ste. M.* ii. 25. — Shining blue-black: forehead with 2 parallel striæ; thorax flattish, with 2 small basal foveæ, hinder angles very acute; elytra punctate-striate, with a round testaceous spot near the apex; legs and base of the antennæ testaceous. (L. 1¼-1½ l.) Battersea Fields; common: ⊙.

447 Spencii *Kirby.* — *Ste. M.* ii. 25. — Shining, blue-black: forehead with 2 parallel striæ; thorax with 2 simple basal foveæ, the hinder angles very acute, disc slightly convex; elytra deeply punctate on the back alone, the apex smooth and pitchy; legs and basal joint of the antennæ bright red. (L. 1¾ l.) Battersea Fields, and in Suff.: 2-7.

448 hæmorrhoidalis *Ste. M.* v. 387. — Shining blue-black: forehead with 2 nearly parallel striæ; thorax flattish, with 2 small basal foveæ, the hinder angles very acute; elytra punctate-striate on the back; the apex smooth and testaceous red; tibiæ, tarsi, and basal joint of antennæ pale red. (L. 1½ l.) Marly places about London: 3-6.

84 Tachypus *Megerle.*

449 celer *Fab. E.* i. 210. — *De. J. Ic.* iv. pl. 219. f. 4. — *Ste. M.* ii. 26. — Glossy brass above, blackish beneath: elytra deeply punctate-striate on the back; legs pitchy rust-colour, with the tibiæ palest, or testaceous; tarsi and antennæ dusky; thighs also sometimes dusky. (L. 1-1¼ l.) Abundant every where ⊙.

450 properans *Hoffm.* — *Ste. M.* ii. 26. — Above brilliant coppery brass; beneath black: thorax very glossy, with a distinct line of impressions at the base; elytra faintly punctate-striate on the back; legs pitchy-red; femora sometimes, and antennæ always, dusky. (L. 1½-1¾ l.)

Var.? Ca. acutus *Marsh.* i. 461.—*Ste. M.* ii. 27.—Black-brass, very glossy: elytra rather narrowed behind, and acute, the back punctate-striate; legs pitchy-brass; tibiæ pale testaceous; antennæ fuscous, with the base reddish. Also abundant every where ⊙.

451 chalceus *Ste. M.* ii. 27. — Above greenish or bluish-brass: elytra finely striated, the striæ remotely punctate, not reaching to the apex; legs and antennæ pitchy; tibiæ, tarsi, and base of latter palest. (L. 2 l.) Near London: 3-6.

452 orichalcicus *Ill. K.* i. 228.? — *Pz.* xxxviii. f. 11. — *Ste. M.* ii. 27. — Glossy greenish-brass: head coppery; thorax greenish, with 2 deep basal foveæ; elytra coppery, with 2 rather obscure impressions, faintly punctate-striate on the back alone; femora and antennæ pitchy; their base, tibiæ, and tarsi testaceous. (L. 2 l.) Near London and Swansea; 3-6.

453 bipunctatus *L.* ii. 672. — *De J. Ic.* iv.pl. 212. f. 2. — *Ste. M.* ii. 28. — Above brassy, shining: head roughish; thorax very faintly wrinkled transversely; the margin depressed, deeply punctated; elytra flat on the back, faintly punctate-striate, interstices smooth; on the 3d are 2 deep, remote, coppery-brass impressions; abdomen blue-black; legs and antennæ black, with a brassy tinge. (L. 2¼ l.) Wandsworth Common; Darenth Wood; Netley: 4-6.

454 chlorophanus *Stu. D. F.* vi. 187. pl. 143. f. *C.* — *Ste. M.* ii. 28. — Brassy-green: head and thorax deeply and coarsely punctate; elytra punctate-striate to the apex; disc not foveated; antennæ and legs brownish-yellow; the tips of the joints of the antennæ and the tarsi dusky. (L. 2½ l.) Coasts of Lancashire and Cumberland: 5-7.

455 striatus *Duft.* ii. 198. — *Stu. D. F.* vi. 186. pl. 143. f. *B.* — *Ste. M.* ii. 28. — Bronzed-black: head and thorax thickly and finely punctate; elytra punctate-striate to the apex, with deep impressions on the 3d interstice; legs reddish or pitchy, the femora rather brassy; antennæ dusky, the base reddish. (L. 2½ l.) Carlisle; Edinburgh; Midgley Moor; Netley, &c.: 5-7.

456 pallidipennis *Ill. K.* i. 489. — Ta. Andrææ. *Ste. M.* ii. 29. pl. x. f. 6. — Greenish-copper, shining: elytra broad, pale whitish-ochreous, with a waved toothed transverse brassy-brown band behind the middle, tinted in certain lights with greenish; legs and antennæ pale ochreous, with a reddish tinge. (L. 2¼-2½ l.) On the coasts of Norfolk, Suffolk, &c.; Figget Whins, near Edinburgh; also near Dublin: 4-6.

85 Bembidium *Auctorum.*

457 paludosum *Pz. F.* xx. f. 4. — *Ste. M.* ii. 30. — Brown or coppery-brass: elytra finely punctate-striated, with several remote, smooth, obscure spots in the interstices, and 2 4-drate golden impressions on the 3d from the suture; antennæ fuscous. (L. 2½-2¾ l.) Swansea; Carlisle; Banks of Tees; Sheffield, &c.: 4-8.

458 impressum *Fab. E.* i. 246. — *Ste. M.* ii. 30. — *De J. Ic.* iv. pl. 211. f. 2. — Greenish-brass, above opaque; elytra slightly punctate-striate, with 2 somewhat 4-drate pale golden or silvery impressions on the 3d interstice, the space between, before, and behind violet; thorax transverse; legs and base of the antennæ pale red. (L. 2¼ l.) Very scarce: locality not known.

459 flavipes *L.* ii. 658. — *Ste. M.* ii. 30. — *De J. Ic.* iv. pl. 223. f. 4. — Brown-brassy; slightly pubescent, and finely punctured: elytra irregularly, thickly, and deeply punctured throughout, clouded with griseous, with 2 impressions near the suture; thorax heart-shaped; palpi, legs, and base of the antennæ pale. (L. 2-2½ l.) About London; Netley; Devonsh.; Carlisle, &c. 3-6.

460 pallipes *Duft.* ii. 197. — *Stu. D. F.* vi. pl. 155. f. *B.* — *Ste. M.* ii. 34. — Coppery-brass, slightly pubescent, very finely punctured: elytra rather smooth, clouded with greenish, faintly striated on the back, with 2 impressions on the 3d interstice; legs and base of the antennæ pale yellow; the basal joint of the latter a little bronzed. (L. 2¾-3 l.) Cromer; Swansea; Aldborough: 3-6.

Fam. 7. ELAPHRIDÆ *Stephens.*

lxxxvi. Notiophilus *Body* depressed: *palpi* robust, the terminal joint short, rather swollen: *labrum* large, rounded: *head* as wide as the thorax, with the front grooved: *eyes* large: *tho.* 4-drate: *elytra* somewhat parallel, with a brilliant space on the disc: ♂ with 3 basal joints of *anter. tarsi* scarcely dilated.

lxxxvii. ELAPHRUS *Body* rather convex, *palpi* slender, terminal joint elongate, obconic, longer than the preceding: *labrum* slightly 3-lobed, transverse: *eyes* very large and prominent: *tho.* dilated on the sides: *elytra* wide, mammillated: ♂ with 4 basal joints of *anter. tarsi* slightly dilated.

lxxxviii. BLETHISA *Body* convex: *palpi* short, terminal joint elongate, obconic, as long as the preceding: *labrum* somewhat 3-lobed: *tho.* 4-drate, sides slightly rounded: *elytra* elongate-ovate, with several deep impressions: ♂ with 4 basal joints of *anter. tarsi* dilated.

lxxxix. PELOPHILA *Body* slightly convex: *palpi* with terminal joint elongate-ovate, truncate: *labrum* slightly notched, transverse: *tho.* heart-shaped, truncate: *elytra* wide, with impressed dots: ♂ with 3 basal joints of *anter. tarsi* dilated.

86 NOTIOPHILUS *Dumeril.*

461 aquaticus *L.* ii. 658.—*Don.* viii. pl. 351. f. 2. ? — *Ste. M.* ii. 32. *and* v. 388. — Brassy; glossy: forehead more or less striated longitudinally; thorax with the limb punctured; elytra punctate-striate, the striæ not reaching to the tip, enclosing a broadish highly polished space towards the suture; legs entirely, and antennæ brassy-black. (L. 2¼-3 l.) Common every where: ⊙, ✶.

462 tibialis *Ste. M.* v. 388. — Brassy; glossy: head rather wide, striated in front; thorax punctured on the margin; elytra punctate-striated, the striæ vanishing before the tip, and enclosing a narrow highly polished space near the suture; tibiæ and antennæ at the base pitchy-testaceous. (L. 2½-2¾ l.) Also common near London: at Cambridge, &c.: and on Snowden. ⊙.

463 rufipes *Cur.* vi. pl. 254. — *Ste. M.* ii. 190. — Brassy-copper above: head very wide; deeply striated in front; elytra punctate-striated, with a very broad longitudinal polished space towards the suture; the apex faintly striated and pitchy; antennæ at base and legs entirely red. (L. 2½-3½ l.) Rare: near Carlisle: Gravesend: Windsor: 4-6.

464 biguttatus *Fab. E.* i. 247. — *Ste. M.* ii. 33. — No. semipunctatus, *Stu. D. F.* vii. pl. 183. f. *A.* — Broad; brassy-black, shining: thorax short, punctured, disc rather smooth; elytra very closely striated on the sides, the striæ deeply punctured, and extending to the apex, which is sometimes pale, or ochreous; antennæ at the base pitchy. (L. 2¼-2¾ l.) Abundant near London; also in Scotland: found near Newcastle: Marton: ⊙, ✶.

465 palustris *Duft.* ii. 192. — *Stu. D. F.* vii. pl. 183. f. *B.* — *Ste. M.* v. 389. — Rather narrow, brassy-black; shining: thorax short, the margins punctured; elytra rather finely punctate-striated, the striæ not extending to the apex, and enclosing a widish polished space towards the suture; antennæ and palpi at the base, and tibiæ entirely pale-testaceous. (L. 2¼-2¾ l.) Near London: ⊙.

466 4-punctatus *Dej. Sp.* ii. 280. — *Ste. M.* ii. 190. — Coppery; shining: head narrow, with the front deeply striated; thorax with the edges punctate, the disc faintly rugged: elytra punctate-striate, the striæ not extending to the apex, and enclosing a broad polished space towards the suture, in which are 2 deeply impressed dots; base of the antennæ and of the tibiæ pale. (L. 2 l.) Near Carlisle, and in Scotland: rare near London: 5-6.

87 ELAPHRUS *Fabricius.*

467 uliginosus *Fab. E.* i. 245.—*Cur.* iv. pl. 179. — *Ste. M.* ii. 33.—Brassy-black, green, or bronzed: thorax wider than the head, deeply punctate; elytra with 4 rows of ocellated violaceous circular spots, interrupted with

shining spaces; tibiæ and tarsi blue-black. (L. 4-4½ l.) Coombe Wood; Swansea; Devon; Cambridge; Fyfield, Hants, &c.: 4-6.

468 cupreus *Duft.* ii. 194. — *Stu. D. F.* vii. pl. 182. f. *A.* — *Ste. M.* ii. 34. — Glossy-brass: thorax as wide as the head; deeply punctate; elytra with 4 rows of ocellated blue or violet-green circular spots, interrupted with polished brassy spaces; tibiæ pale testaceous, the external tip bluish-black. (L. 3¾-4 l.) Hampstead; Battersea fields; Hertford; Newcastle; Marstow; Carlisle; Whittlesea Mere, Scotland: rare: 3-6.

469 Lapponicus *Gyll.* ii. 8. — *Ste. M.* v. 389. — Oblong; coppery or brassy-green, or bluish above: head and thorax very much punctured; the latter slightly foveolated; elytra sparingly punctured, with about 20 violet or bluish ocellated round spots disposed in 4 rows; and some obscurely elevated lines; tibiæ bronzed-green. (L. 4-4½ l.) Catlaw, a mountain in Forfarshire: 4-5.

470 riparius *L.* ii. 658. — *Don.* ix. pl. 301. — *Ste. M.* ii. 35. — Brassy-green, or bluish, rarely purplish; very thickly punctulated: thorax slightly foveolated, with a short dorsal channel, and thickly punctured beneath; elytra with 4 rows of brassy-copper, or violet ocellated round spots; tibiæ, and sometimes the base of the thighs, testaceous. (L. 3-3½ l.) Common; pond sides, London district; Swansea; Bristol; Devon; Carlisle; Newcastle; Scotland, &c.: 4-7.

88 Blethisa *Bonelli.*

471 multipunctata *L.* ii. 672. — *Ste. M.* ii. 36. — *Cur.* vii. pl. 326. — Bronzed-black; shining; margins of the thorax and of the elytra bright-green or coppery: the latter punctate-striated, and with 2 rows of deep shining brassy foveæ. (L. 5 l.) London district; Cambridge, common; near Carlisle; in Suffolk; rare in Scotland; Ireland: 3-6.

89 Pelophila *De Jean.*

472 † borealis *Fab. E.* i. — *Cur.* vii. pl. 302. — *Ste. M.* v. 390. — Brassy-black, shining: thorax on the sides and elytra coppery; the latter punctate-striate, with 2 rows of rather large impressions; legs dull red, tips of thighs, tibiæ, and joints of tarsi dusky. (L. 7 l.) Sandy shore of Lough Neagh, Ireland.

§ 1. Stirps 2. HYDRADEPHAGA.

Fam. 8 Dyticidæ. *Ant.* long, setaceous: *legs* unequal, posterior pair longest, deeply fringed, with broad flat tarsi (also fringed) terminating in a point: ♂ with *anter. tarsi* more or less dilated: ♀ sometimes with elytra sulcated.

Fam. 9 Gyrinidæ. *Ant.* short, clavate, rigid, the 2d joint with a lobate appendage: *tho.* transverse, waved before and behind: *legs* unequal, the 2 anterior very long, gressorial, the 4 posterior very short, compressed and formed for swimming: *eyes* divided, appearing as 4; 2 above and 2 below.

Fam. 8. DYTICIDÆ *Leach.*

xc. Haliplus *Ant.* 10-jointed, inserted on the forehead: *max. palpi* with the terminal joint minute and subulate: *post. coxæ* dilated into a large shield covering the base of the *legs*, which are somewhat gressorial; *claws* didactyle.

xci. Cnemidotus *Ant.* 10-jointed, inserted in front: *max. palpi* with the terminal joint larger than the preceding, conical: *post. coxæ* dilated as in

Haliplus; with an obscure tooth behind: *legs* slender, somewhat gressorial; *claws* didactyle.

xcii. PÆLOBIUS *Ant.* 11-jointed, inserted below the margin of the forehead; *scutel.* distinct: *body* somewhat globose: *legs* gressorial; *coxæ* slender; *claws* didactyle.

xciii. HYPHIDRUS *Ant.* 11-jointed: *max. palpi* with terminal joint somewhat acute: *scutel.* wanting: *body* nearly globose: *legs* natatorial; 4 *anter. tarsi* 4-jointed, nearly equal in both sexes; the last joint short; *post. tarsi* compressed, with 1 moveable claw.

xciv. HYGROTUS *Ant.* 11-jointed: *max. palpi* with terminal joint swollen, ovate-conic: *scutel.* wanting: *body* very convex: *legs* elongate; 4 *anter. tarsi* 4-jointed, nearly equal in both sexes; *post. pair* 5-jointed; *claws* all didactyle.

xcv. HYDROPORUS *Ant.* 11-jointed: *max. palpi* with terminal joint somewhat cylindric, truncate: *scutel.* wanting: *body* depressed: *legs* slender; 4 *anter. tarsi* 4-jointed, nearly equal in both sexes; *post. pair* 5-jointed and slender, with equal moveable claws.

xcvi. NOTERUS *Ant.* 11-jointed, fusiform (one or other of the central joints dilated in the ♂): *labial palpi* with terminal joint very broad, notched at the tip: *body* convex, narrowed behind: *thor.* produced in the middle behind: *scutel.* concealed: *hinder tibiæ* short; *tarsi* all 5-jointed, posterior with equal moveable claws: *anter. tibiæ* of ♂ short, toothed within.

xcvii. LACCOPHILUS *Ant.* 11-jointed setaceous, slender: *labial palpi* with terminal joint elongate, acuminate, bent: *body* flattish, acute: *tho.* produced in the middle behind: *scutel.* concealed: *tarsi* all 5-jointed, posterior with unequal claws, the upper one porrect and fixed.

xcviii. COLYMBETES *Ant.* 11-jointed, slender, setaceous: *palpi* filiform; *ext. max.* with 2d and 3d joints equal, 4th with the tip obtuse: *scutel.* distinct: *tarsi* all 5-jointed; *claws* unequal, porrect, upper one mostly fixed, and larger than the lower; 4 *anter. tarsi* of ♂ with the 3 basal joints dilated.

xcix. AGABUS *Ant.* 11-jointed (of the ♂ with 8th—10th joints compressed, internally dilated and serrated, 11th small, acuminate): *ext. max. palpi* with 2d and 3d joints equal, the 4th subulate: *scutel.* distinct: *tarsi* all 5-jointed: *claws* unequal; didactyle: *anter. tarsi* in ♂ slightly dilated.

c. HYDATICUS *Ant.* 11-jointed, setaceous: *ext. max. palpi* with 2d and 3d joints unequal, 4th subulated: *scutel.* distinct: *tarsi* all 5-jointed: *claws* 2, unequal, upper one fixed: *anter. tarsi* in ♂ patellated, *interm.* dilated: *tho.* wrinkled, and the *elytra* smooth in the ♀.

ci. DYTICUS *Ant.* 11-jointed, setaceous: *ext. max. palpi* with 2d and 3d joints equal, the terminal one rather obliquely truncate: *scutel.* distinct: *tarsi* all 5-jointed; with 2 equal moveable *claws*: *anter. tarsi* of ♂ patellated, *interm.* dilated at base: — ♀ with *elytra* generally sulcated.

cii. CYBISTER *Ant.* 11-jointed, setaceous: *ext. max. palpi* with 2d and 3d joints equal, the 4th longer, a little dilated externally, truncate: *scutel.* distinct: *tibiæ* very short: *tarsi* all 5-jointed, *post.* monodactyle: *anter. tarsi* of ♂ patellated; *interm.* dilated: — ♀ with *elytra* striated irregularly at base.

ciii. ACILIUS *Ant.* 11-jointed, setaceous: *ext. max. palpi* with 2d and 3d joints unequal; the 4th rounded at the top: *scutel.* distinct: *tibiæ* short: *tarsi* all 5-jointed, *post.* didactyle, the inner claw very minute: *anter. tarsi* of ♂ patellated, *interm.* simple in both sexes: — ♀ with the *elytra* sulcated.

90 HALIPLUS *Latreille.*

473 elevatus *Pz. F.* xiv. f. 9. — *Ste. M.* ii. 39. — Elongate, pale testaceous;

eyes dusky; elytra punctate-striated, the striæ mostly blackish; suture black; 3d interstice elevated in front; legs pale testaceous; the interstices are more or less suffused with black. (L. 2. l.) Bexley; Cambridge; Thruxton, Hants, &c.: 4-6.

474 mucronatus *Leach.* — *Ste. M.* ii. 40. pl. xi. f. 1. — Ovate, acuminate; rusty-red, shining: thorax punctulate throughout, especially at the base; elytra finely punctate-striate, the interstices smooth, spotless, the apex mucronated; legs rusty. (L. 2-2½ l.) Swansea; Bottisham; Hertford; Suffolk: 4-5.

475 parallelus *Ent. Tr.* (*Bab.*) ii. 178. pl. xv. f. 5. — Dusky-yellow, shining: thorax punctured, disc smooth; sides nearly straight, not in continuity with the elytra, which are dilated at the base, then straight and parallel about ⅔ds of their length; the disc deeply punctate-striate, interstices with a row of minute dots; the large punctures and the suture generally dusky; legs pale. (L. 2 l.) Cambridge, and near London: 5.

476 ferrugineus *Gyll.* i. 546. — *Ste. M.* ii. 40. *Ent. Tr.* (*Bab.*) ii. 176. pl. xv. f. 2. — Reddish-testaceous; shining: thorax narrowed in front, the sides straight, margins coarsely punctate, disc smooth; elytra not in continuity with the thorax, deeply punctate-striate, the interstices with a row of minute dots; the larger punctures dark; legs pale. (L. 1¾ l.) Cambridge; London district; Marton, &c. ⊙.

477 subnubilus *Ent. Tr.* (*Bab.*) ii. 177. pl. xv. f. 3. — Dull red; thorax as in Ha. ferrugineus: elytra much dilated at the base, gradually decreasing in width until past the middle, and then rather suddenly narrowed; they are deeply punctate-striate, the interstices with a row of minute dots, the larger punctures and several blotches dark, the latter forming 2 irregular bands meeting at the suture; legs pale. (L. 1½ l.) Also found at Cambridge, and in London district: 4.

478 fulvus *Fab. E.* i. 171. — *Ste. M.* ii. 40. var. β. — *Ent. Tr.* (*Bab.*) ii. pl. xv. f. 4. — Reddish-yellow; shining: thorax as before; elytra much dilated at the base, continuing to increase in width for about ⅓ of of their length, from that point narrowing in a gradually increasing curve to the apex, punctate in Ha. ferrugineus, the larger punctures, and a few oblong spots between the striæ dusky. (L. 2 l.) Cambridge; London district; Carlisle, &c. ⊙.

479 rubicundus *Spence?* — *Ent. Tr.* (*Bab.*) ii. 178. pl. xv. f. 5. — Oval; dull red, shining; head minutely punctured, vertex smooth; thorax and elytra in continuity at the base; the disc of the former smooth, and of the latter deeply punctate-striate, with a row of minute dots between; the suture, larger punctures and numerous irregular clouds darker; legs dull red. (L. 1½ l.) Cambridge; Hull; London district: 4-6.

480 obliquus *Fab. E.* i. 270. — *Pz. F.* xiv. f. 6. — *Ste. M.* ii. 41. — Somewhat ovate; pale testaceous-yellow; finely punctate: head with a blackish line behind; thorax rather coarsely punctured, especially behind; elytra finely punctate-striate, the base, suture, an irregular interrupted band, and a patch near the apex black; the spots sometimes united. (L. 1½-2 l.) Wimbledon Common; Bottisham; Marton; Kimpton; Newcastle, &c.: 4-6.

481 confinis *Kirby.* — *Ste. M.* ii. 41. — Testaceous-red, finely punctured: elytra faintly punctate-striate; the striæ dusky, the interstices spotless and impunctate; sometimes the striæ are transversely fuscous, and the colours united at the apex. (L. 1¾ l.) London district; Norf. and Suff.: 3-6.

482 liveatocollis *Marsh.* i. 429. — *Ste. M.* ii. 41. — Ha. bistriolatus *Stu. D. F.* viii. pl. 202. f. C. — Somewhat ovate; testaceous: thorax with a curved impressed striola on each side at the base, and a black longitudinal line; elytra pale, punctate-striate: interstices with some minute punc-

tures and obscure brownish spots. (L. 1½-1¾ l.) London district; Hertford; Bottisham; Carlisle; York; Devon, &c. ⊙.

483 ruficollis *De Geer*, iv. 404. pl. 16. f. 9, 10. — Ha. margine-punctatus *Ste. M.* ii. 42. — Short, ovate griseous-yellow, or fuscous: thorax finely punctured, with an impression on each side at the base; elytra punctate-striate, the interstices with a few scattered impressions; on the margin a few dusky spots; legs dusky. (L. 1¾ l.) Near London, and in Cambridge: 4-5.

484 fulvicollis *Erich.* i. 186.? — Ha. ruficollis *Ste. M.* ii. 42. — Dy. minutus *Don.* ii. 68. f. 1, 2. — Short, ovate; deep testaceous-red: crown and base of abdomen pitchy: thorax punctate, with a minute stria on each side at the base; elytra punctate-striate, punctures dusky, the interstices smooth, and more or less spotted with fuscous; suture dusky. (L. 1⅛-1⅜ l.)

Var.? Ha. melanocephalus *Ste. M.* ii. 43. — Pitchy testaceous, with the head black, elytra deeply punctate-striate, interstices spotted with dusky; legs testaceous. Abounds everywhere. ⊙, ∗.

485 affinis *Ste. M.* ii. 42. — *Aubé, Ic.* v. 21. pl. i. f. 4.? — Subovate: griseous-yellow: head testaceous, finely punctured; thorax deeply punctate on the margins, the disc obscurely so; the base with a short stria on each side; elytra faintly punctate-striated, the striæ dusky; interstices impunctate and spotless. (L. 1¼ l.) London, and Cambridgeshire: 3-4.

486 brevis *Kirby.* — *Ste. M.* ii. 43. — Short, ovate; testaceous-red: elytra obtuse, slightly cinerous, punctate-striate, the striæ dusky, interstices spotless; thorax punctate throughout, the punctures coarse on the margins; the base with an obscure stria on each side. (L. 1¼ l.) Near London, and in Suffolk: 4.

91 Cnemidotus *Illiger.*

487 cæsus *Duft.* i. 284. — Dy. impressus *Pz. F.* xiv. f. 7. — *Ste. M.* ii. 39. — Somewhat ovate, convex; pale testaceous-yellow, shining: thorax yellowish, with a deep transverse impression behind; elytra deeply punctate-striate, interstices impunctate; larger punctures dusky. (L. 1¾-2 l.) Near London; Putney; Hertford; Cambridge; Suffolk, &c.: ⊙.

92 Pælobius *Schonherr.*

488 Hermanni *Fab. E.* i. 255. — *Don.* xiv. pl. 501. f. 2. — *Ste. M.* ii. 44. — Dull red; a patch round the eyes; the anterior and posterior margins of the thorax, a large lobate common black spot on the elytra, the breast and apex of the abdomen black. (L. 5-5½ l.) Ditches near London; in Norfolk; Suffolk; Cambridge; near Andover; Newcastle: 4-6.

93 Hyphidrus *Illiger.*

489 ovatus *L.* i. 667. — *Ste. M.* ii. 45. — Dy. ferrugineus, *Don.* ii. pl. 68. f. 3, 4. — Short, ovate, ferruginous; elytra brown, spotless, the margin paler: ♂ of a deeper hue, the thorax and elytra thickly and coarsely punctured, the latter glabrous and shining; in the ♀ obscure and silky, and finely punctured. (L. 2-2½ l.) London district; Cambridge; Norfolk; Suffolk; Marton; Newcastle, &c. ⊙.

490 variegatus *Ill. K.* i. 272? — *Ste. M.* ii. 45. — Elongate-ovate, rather narrowed behind, and a little flattened; pale dull red, thorax with 2 obscure dusky spots at the base; elytra dull rust-colour, with the margin and several spots and streaks pale testaceous-yellow: ♂ coarsely punctate, glabrous and shining; ♀ finely punctured and opaque. (L. 2¼- 2½ l.) Wimbledon Common, and Epping Forest: 3-5.

94 Hygrotus *Stephens.*

491 fluviatilis *Leach.* — *Ste. M.* ii. 46. pl. xi. f. 2. — Testaceous-yellow: thorax with a black dorsal line, and on each side with a curved impressed striola at the base; elytra obscurely striated, 2 of the striæ distinctly punctated, the disc with an irregular black patch in front, and another behind, united by 3 or 4 black lines. (L. 1½-1¾ l.) River Cawder, near Carlisle; Tavy, Devon; Netley, &c.; rare: 3-6.

492 Stephensii *Rudd.* — *Ste. M.* v. 391. — Black; above testaceous-yellow; thorax with a faint cloud on the disc, the base with an impression on each side; elytra with a large black patch at the base, and 2 smaller ones near the tip, united by black lines, occasionally interrupted and partially confluent; legs and antennæ rusty. (L. 1¼-1½ l.) Stockton on Tees.

493 assimilis *Pk. F.* i. 236. — *Ste. M.* ii. 46. — Pitchy-ferruginous; above dull red, and thickly punctured: thorax with an obscure transverse impression in which are 2 dusky spots, the base with a curved fovea on each side; elytra with 5 more or less confluent longitudinal lines, the 2 outer ones shortest and interrupted by a large pale spot; suture fuscous. (L. 1½ l.) River Plym, Devon; Netley; Aldborough: 3-5.

494 decoratus *Gyll.* ii. 16. — *Ste. M.* ii. 47. — *Cur.* xii. pl. 531. — Rusty-red: eyes black; elytra smooth shining pitchy-brown, with several deep scattered punctures and minute impressions, a large double pale spot at the base, and a transverse crescent of the same, connected with the outer margin. (L. 1¼ l.) Askham Bryan, Yorks.; and near Cambridge: 4-5.

495 confluens *Fab. E.* i. 270. — *Pz. F.* xiv. f. 5. — *Ste. M.* ii. 47. — Glabrous; black: head and thorax pale rust-colour; elytra pale, with the suture and 4 abbreviated, more or less united, lines black. (L. 1½-1¾ l.) Common near London; Kimpton; Newcastle; Whittlesea Mere; Norfolk, &c.: ⊙.

496 collaris *Pz. F.* xxvi. f. 4. — *Ste. M.* ii. 47. — Ferruginous: thorax with the hinder margin dusky; elytra with the base and suture black, a short broken line parallel thereto, a 2d bent obliquely outward from the shoulder, and a short irregular double 1, frequently hooked, behind; sometimes united to the other; legs pale testaceous. (L. 1¼-1½ l.)

Var. ? Hy. affinis *Ste. M.* ii. 48. — Hinder margin of thorax black: elytra with the disc black, with several obscure interrupted lines, and the outer margin rusty. — London district; S. Wales; Devon, &c.: 4-6.

497 reticulatus *Fab. E.* i. 273. — *Ste. M.* ii. 48. — Dull-red; thickly punctured: hinder margin of thorax dusky in the middle; elytra coarsely punctured, with minute punctures intermixed; disc black, the lateral margin, an angulated spot near the base, a line near the suture, and some interrupted ones in the middle, dull red; legs testaceous. (L. 1½ l.) London district; Devon; S. Wales; Suffolk, &c.: 4-6.

498 inæqualis *Fab. E.* i. 272. — *Oliv. E.* iii. pl. 3. f. 29. — *Ste. M.* ii. 48. — Dull red; deeply punctured: thorax with the anterior and posterior margins black; elytra black, the lateral margin, and some irregular, more or less united, streaks on the disc dull red; legs pale rust-colour. (L. 1¼-1½ l.) S. of England; Bottisham; Marton; Newcastle; Carlisle, &c.: 3-6.

499 scitulus *Spence.* — *Ste. M.* ii. 49. pl. xi. f. 3. — Black; punctate: thorax with the sides dull red; elytra with the lateral margins irregularly pale testaceous, branching off towards the suture near the base, in the middle, and at the tip; near the scutel is a pale red spot; legs ferruginous, the posterior pair pitchy-black. (L. 1½-1¾ l.) London district; Cambridge; Kimpton; York; Carlisle; Devon; Ireland, &c.: ⊙.

500 pictus *Fab. E.* i. 273. — *Ste. M.* ii. 49. — Dy. arcuatus *Pz. F.* xxvi. f. 1. — Dull or pitchy red: thorax with sides reddish; elytra pale, the suture, an oblong spot on the disc, and a stripe on the outer edge, black, leaving a flexuous pale stripe; legs pitchy. (L. ¾-1¼ l.) London district; S. Wales; Norf.; Suff.; Hants; Newcastle; Scotland, &c.: ⊙.

95 Hydroporus *Clairville.*

§ A. *Thorax* with the sides rounded. — *a. Elytra* with the tip dentate.

501 Frater *Spence.* — *Ste. M.* ii. 50. pl. xi. f. 4. — Oblong-ovate, convex, black; above rusty-testaceous, somewhat opaque and very finely punctulated: thorax pale, with a large bilobed black spot at the base; elytra with the suture and several regular longitudinal lines black; legs and base of antennæ dull-red. (L. 1½-2 l.) London district; Carlisle; Camb.; Suff.; Norf.; Hull; Marton, &c.: not common: 3-6.

502 halensis *Fab. E.* i. 198. — Hy. areolatus *Ste. M.* ii. 51. — Oblong-ovate, rather flat, beneath pitchy-black; above pale, slightly pubescent: thorax rounded in front, the sides margined, the base impressed and varied with black; elytra with the suture and several irregular lines on the disc black; legs and antennæ rusty. (L. 1¾ l.) Carlisle; Cambridge; Bottisham; Tradesley and Netley, Salop: 3-7.

503 depressus *Fab. E.* i. 268. — *Ste. M.* ii. 51. — Dy. elegans *Pz. F.* xxiv. f. 5. — Subovate; rather flat; dull-red; above pale testaceous, somewhat opaque and finely punctured: thorax with edge of anterior and posterior margins and 2 spots on the latter black; elytra with the suture and several irregular lines on the disc black. (L. 1½-2 l.) Oxford; Salisbury: Bottisham; Monxton, and Abbot's Ann, Hants; Winterborne Stoke, Wilts; Water of Leith; Esk, &c.: 3-10.

b. Elytra not toothed at the tip.

504 12-punctatus *Fab. E.* i. 270. — *Don.* xiv. pl. 496. — *Ste. M.* ii. 51. — Oblong-ovate; pale rust-colour; minutely strigulated: thorax rounded on the sides, anterior and posterior margins black in the middle, that colour produced anteriorly into 2 lobes; elytra black, with 6 pale spots, placed 3, 3; legs and antennæ pale rust-colour. (L. 2½-3½ l.) Near London; Kimpton; Devon; Carlisle; Netley; Marton; Newcastle, &c.: 3-6.

505 griseostriatus *De Geer.* iii. 103. — *Ste. M.* v. 391. — Oblong-ovate; rather flat; black: thorax pale, varied with black in the middle; elytra with the margin and several interrupted lines pale testaceous. (L 2½ l.) Near Carlisle and London: rare: 3-6.

506 lineatus *Marsh.* i. 426. ♀ — *Ste. M.* ii. 52. ♀ — Dy. parallelo-grammus *Ahr. F.* ii. f. 2. ♀ — *Stu. D. F.* ix. pl. 206. f. 1. ♂ — Hy. consobrinus *Ste. M.* ii. 52. ♂. — Oblong; beneath black; above pale testaceous (♂ shining and sparingly punctured; ♀ opaque and thickly punctured): thorax with a large rhomboid discoidal spot; elytra with the base, suture, and 5 longitudinal lines, black; legs pale testaceous. (L. 2½-2¾ l.) Near London; Norwich; Ipswich; Netley; in profusion at Southend: 3-6.

507 nigrolineatus *Schon. S.* ii. 33. pl. 4. f. 2. — *Ste. M.* ii. 52. — Oblong-ovate; beneath black; above pale rust-colour; opaque, finely punctured: thorax with a small black spot; elytra with the suture and 4 distinct lines black: legs ferruginous. (L. 2¼ l.)

Var. Hy. 9-lineatus *Rudd.* — *Ste. M.* ii. 192. — Smaller, with the base of the elytra, as well as the suture and 4 lines, black. (L. 2 l.) Weyhill and Isle of Bute: 6-9.

508 picipes *Fab. E.* i. 269. — *Ste. M.* ii. 52. ♂. — Hy. alternans *Kunzé.* — *Ste. M.* ii. 53. ♀. — Oblong-ovate; black; above pale dull-red (♂ shining, coarsely and deeply punctured; ♀ opaque and finely punctured):

head with a bilobed black spot, or 2 dots behind; thorax with hinder edge dusky or black in the middle; elytra with the suture and 4 parallel lines black, the base in ♂ with 6, and in ♀ with 4 punctate striæ; legs dull-red. (L. 2½ l.) London district; Norfolk; Suffolk; Devons.; Swansea; Southend; Weyhill, &c.: 3-7.

509 dorsalis *Fab. E.* i. 269. — *Pz. F.* xiv. f. 2. — *Ste. M.* ii. 53. — Oblong-ovate; rather flat; pubescent; pitchy-red: thorax transversely impressed, its sides, and sometimes a broken band behind, dull-red; elytra with a dot at the base, and the sides irregularly dull-red; legs and base of antennæ dull red. The red markings are at times nearly obliterated. (L. 2-2¾ l.) London district; Ely; Netley, &c,: 3-7.

510 opatrinus *De Jean.* ? — *Ste. M.* ii. 192. — Oblong-ovate; black; rather pubescent: thorax slightly cordate, with a bent transverse impression, the edges punctured; elytra irregularly punctured on the disc, which has several slightly elevated lines; legs and antennæ pitchy-black. (L. 2¾ l.) Netley, and near London: 7.

511 latus *Rudd.* — *Ste. M.* ii. 192. — Hy. ovatus, *Stu. D. F.* ix. pl. 207. f. c. ? — Flat, ovate; broad; black; coarsely punctured: head behind and lateral margins of the thorax dull-red; disc of the latter with an obscure transverse elevation; elytra transversely pitchy-rust-colour at the base, the outer margins, legs and antennæ pitchy. (L. 2¼-2½ l.) Marton; Hebden-bridge; Dorset, &c.: 5-7.

512 alpinus *Pk. F.* i. 226. — *Ste. M.* ii. 54. pl. xi. f. 5. — Oblong-ovate; slightly flattened; pitchy-black; above pale, glabrous: thorax somewhat 4-drate, with 2 interrupted black lines on the disc, bounded with a deep striola on each side; elytra rather acute, the suture and about 8 lines black; the latter united by a black patch towards the scutellum; and in some cases confluent. (L. 1½-1¾ l.) Mountain districts in Devon and N. of England; Tweed; Teviot, &c.; Netley: 5-7.

513 borealis *Gyll.* iv. 586. — *Ste. M.* v. 391. — Oblong-ovate; black; above testaceous-yellow: crown with a black crescent on each side; thorax punctured throughout, except an impunctate line on each side; elytra rather acute, with black (sometimes confluent) lines. (L. 1½-2. l.) Scotland: 7.

514 Davisii *Cur.* viii. f. 343. — *Ste. M.* v. 391. — Somewhat ovate; broad; black; above testaceous-yellow: crown with 2 black crescents behind; thorax with an impression on each side at the base, which last is more or less varied with black; elytra with 6 somewhat united black lines; and 2 lateral spots; legs pale; tips of tarsal joints black. (L. 2-2½ l.) Hebden-bridge, in plenty: 5-7.

515 palustris *L.* ii. 667. — Hy. 6-pustulatus *Ste. M.* ii. 54. — Dy. lituratus *Pz. F.* xiv. f. 4. — Oblong-ovate, rather depressed, black, slightly pubescent: head, sides of the thorax, and the legs red; elytra punctate, pilose, the outer edge, and 2 submarginal spots pale-red: the latter sometimes obliterated. (L. 1¾-2. l.)

Var. ? Hy. proximus *Wilkin.* — *Ste. M.* ii. 55. — Elytra with a pale curved spot towards the base alone. In profusion in the S. of England: ⊙ ✶.

516. Cambriensis *Davis.* — *Ste. M.* v. 392. — Oblong; pubescent; dull-black; thickly punctured: head rusty, with 2 oblique black lines; thorax with the sides pale; elytra with a pale lateral line incurved at the base and apex. (L. 2 l.) S. Wales and Devon: 5-6.

517 tristis *Pk. F.* i. 232. — *Ste. M.* ii. 55. — *Stu. D. F.* ix. pl. 209. f. *D.* — Oblong-ovate, rather depressed; sparingly punctured; black: head large, pitchy-red, with a dusky patch between the eyes; elytra pitchy-red or fuscous, slightly pilose; legs dull-red; antennæ darker, with the base reddish. (L. 1¼-1½ l.) Kensington Gardens, &c.; near London: 5-6.

518 umbrosus *Gyll.* iv. 538. — *Ste. M.* ii. 55. — *Sturm, D. F.* ix. pl. 210. f. *B.* — Oblong-ovate, slightly convex, black; deeply punctured: head dull-red, with a dusky cloud between the eyes; elytra dull pitchy-red, or fuscous, pubescent; narrowed behind; legs and antennæ pale red; tip of the latter black. (L. 1-1¾ l.) Near London: 5-6.

519. marmoratus *Bakewell.* — *Ste. M.* v. 438. — Slightly flattened; black; elytra pitchy-brown, with 4 oblique testaceous spots on each side at the base, the margin also testaceous, with brown lines; the apex with a rounded testaceous spot; legs ferruginous. (L. 1¼ l.) Nottingham.

§ B. Sides of *thorax* in continuity with those of *elytra.*

a. Elytra rather truncate at tip.

520 rufifrons *Duft.* i. 270. — *Ste. M.* ii. 56. — *Sturm, D. F.* ix. pl. 207. f. *A.* — Oblong-ovate, slightly convex; pitchy-black: head pitchy-red, finely punctured; thorax above finely punctured, the margins a little rounded: elytra coarsely punctate; slightly pubescent, the base and outer margin dull rusty-red: legs and base of antennæ dull-red, tip of the latter dusky. (K. 2-2½ l.) Wandsworth Common; Netley, &c.: 2-4.

521 marginatus *Kunzé, E. F.* 67. — *Ste. M.* ii. 56. — Oblong-ovate; pitchy-black; pubescent: head dull-red, with a dusky spot on each side near the eyes, sometimes united; thorax punctate, the sides dull-red; elytra finely punctate, rusty-black, the margins paler at the base; legs and base of antennæ dull-red, tip of the latter dusky. (L. 2 l.) Near London; Ulswater Lake; Cambs., &c.: rare: 3-5.

522 deplanatus *Gyll.* iv. 391. ? — *Ste. M.* ii. 56. — Ovate, flat, pitchy-black, opaque, finely punctured, slightly pubescent: head dull-red in front, with a dusky line near each eye; thorax transverse, the sides very obscure red; elytra with the shoulders and lateral margin at the base dull-red; legs and base of antennæ the same, tip of the latter dusky. (L. 2 l.) Also rare; Surrey and Croydon canals; Oxford: 3-6.

523 ferrugineus *Rudd.* — *Ste. M.* ii. 193. — Flat, deep dull pitchy-red; head and thorax brighter, the outer margins of the latter dilated and red; elytra pitchy, with the base irregularly testaceous, and the apex paler; antennæ and legs bright rust-colour. (L. 2 l.) Collingbourne Wood and Kimpton: 4-6.

524 subelongatus *Ste. M.* v. 392. — Somewhat flat and elongated; shining black, very thickly and coarsely punctured: thorax with the lateral margin and the legs dull-red. (L. 2 l.) North of England.

b. Elytra not truncate at the apex.

525 Scalesianus *Ste. M.* ii. 57. — Minute, dull rusty-red; black beneath: elytra dull chestnut, the outer margin paler, finely and thickly punctured throughout; legs and antennæ testaceous-red, the latter palest. (L. ¾ l.) Norfolk.

526 unistriatus *Ill. K.* i. 266. — *Ste. M.* ii. 57. — Dy. parvulus *Pz. F.* xcix. f. 2. — Ovate, flattish, pitchy-black: thorax transversely testaceous, with a stria on each side at the base, in continuity with 1 on the elytra, these are finely punctulated, black, with an obscure reddish patch near the shoulder, and an abbreviated stria parallel with the suture; legs dull-red. (L. ¾-1 l.) London district; Devon; Norfolk: 3-6.

527 geminus *Fab. E.* i. 272. — *Ste. M.* ii. 57. — Dy. trifidus *Pz. F.* xxvi. f. 2. — Oblong-ovate, flattish; black: head pitchy-red; thorax with a dull-red transverse band, terminated on each side by an oblique, deep stria, which is carried on to the the base of the elytra; the latter are glossy black; with a band and some marginal blotches testaceous, and a stria

parallel with the suture extending to the apex; legs dull rusty-red. (L. 1-1¼ l.) Coombe Wood, in ponds; Appleshaw, &c.: 4-6.

528 minimus *Scop.* 297. — *Ste. M.* ii. 58. — Minute, ovate, black: elytra with a submarginal line, 2 at the base and the apex, pale; legs red; antennæ dusky, the base pale. (L. ¾-1 l.) London; Southend; Devon, &c.: 3-6.

529 granularis *L.* ii. 667. — *Ste. M.* ii. 58. — *Stu. D. F.* ix. pl. 211. f. *c.* — Oblong-ovate, flattish; black: thorax with the lateral margins generally testaceous; the base with a stria on each side; elytra sparingly punctured, and pilose, with 2 pale submarginal lines, and a streak on the margin itself; legs and base of antennæ testaceous. (L. ¾-1 l.) Near London; river Cam; Netley; Weyhill; Cardew Mire, &c.: 4-6.

530 concinnus *Ste. M.* v. 392. — Oblong-ovate, slightly glossy, and finely punctured; very pale ochreous: head and thorax spotless; elytra with the suture broadly fuscous, and each with 5 distinct narrow lines of the same colour, extending to the apex. (L. 1¾ l.) Gravesend: 4.

531 ovalis *Fab. E.* i. 269. — *Ste. M.* ii. 58. — Oblong-ovate, slightly convex, dull-red: thorax with base and apex dusky; elytra rather narrowed behind, opaque, pubescent, with the suture red, 4 lines, and an oblique stripe on the margin, fuscous; legs and antennæ pale rusty. (L. 1½-1¾ l.) London district; Crosby, near Carlisle; Bottisham; Marton, &c. ⊙

532 pygmæus *Fab. E.* i. 272. ? — *Ste. M.* v. 392. — Oblong-ovate; ferruginous; opaque; very minutely punctured: elytra fuscous, with 2 faint lines and the lateral margins yellowish-red; legs and antennæ ferruginous, tip of the latter dusky. (L. 1½ l.) Near London: 5-6.

533 nigrita *Fab. E.* i. 273. — *Ste. M.* ii. 59. — *Stu. D. F.* ix. pl. 209. f. *A.* — Rather oblong-ovate, flattish, black, slightly shining and sparingly punctured: elytra broad with an obscure punctate stria on the disc, slightly pubescent; legs dull red, hinder thighs dusky at the base. (L. 1¾ l.) London and Netley: 5-6.

534 trivialis *Spence?* — *Ste. M.* ii. 59. — Ovate, rather convex; black; slightly pubescent: head pitchy; thorax with the hinder margin thickly punctate; the disc smooth; elytra narrowed towards the apex, thickly and coarsely punctured throughout; legs pitchy; antennæ pitchy-red at the base, dusky at the tip. (L. 1½ l.) London; Yorks.; Southend; Braid Hill, Scotland. ⊙.

535 minutus *Ste. M.* ii. 59. — Oblong-ovate, flattish; black: thorax with the hinder margin punctate, the sides broadly dull red; elytra slightly pubescent and punctured, with a faint elevated line on each towards the suture; legs and antennæ at base pitchy-red. (L. 1¼ l.) London; Southend and Netley: 5-6.

536 caliginosus *Stephens* — Dy. planus *Marsh.* i. 425. — *Ste. M.* ii. 60. — Oblong-ovate, flat; black: elytra obsoletely punctured, palish pitchy at the base, and a faint abbreviated stria in the middle of the base; body beneath, and legs pitchy; tibiæ red. (L. 1¼ l.) Near London: 3-6.

537 memnonius *Nicol. C. H.* 33. — *Stu. D. F.* ix. pl. 208. f. *A.* — Hy. jugularis *Babington.* — *Ste. M.* v. 392. — Oblong-ovate, flattish; black; glabrous: crown behind, throat, antennæ and legs dull red; sides of thorax dusky-ferruginous; elytra nearly glabrous, more or less punctate. (L. 2-2½ l.) Boroughbridge, Yorks.; Berwick-upon-Tweed; Cambridge; Copford, Essex: 4-6.

538 melancocephalus *Marsh.* i. 423. — *Ste. M.* ii. 60. — Oblong-ovate; slightly convex; black; glabrous, finely punctured: vertex behind pitchy-red; thorax glossy; elytra immaculate, sparingly punctate; legs pitchy-

black with the joints reddish; antennæ reddish at base, black at the tip. (L. 1½-1¾ l.) Abundant in England and Scotland; ⊙ ✶.

539 erythocephalus *L. F. No.* 774.—*Pz. F.* ci. f. 3.—*Ste. M.* ii. 60.—Rather ovate, convex, black, shining: head red; thorax with the lateral margins more or less dull red; elytra very pubescent, deeply and thickly punctate; dusky, with the shoulders and lateral margins paler; legs and base of the antennæ dull red; tip of the latter dusky. (L. 1½-1¾ l.) Also found every where; ⊙ ✶.

540 planus *Fab. E.* i. 268. — Hy. flavipes *Ste. M.* ii. 61. — Ovate, slightly flattened; black; thickly but finely punctured: elytra fuscous, with the base and margin testaceous, densely pubescent; legs and base of the antennæ pale rust-colour. (L. 1½-2 l.) London district; Norfolk; Ely, &c.: 5-7.

541 xanthopus *Ste. M.* v. 393. — Broad, flattish; black; pubescent: lateral margins of thorax pale ochreous: elytra finely punctured, the base with a broad ochreous band, the margin also ochreous and irregularly extending at the apex upon the disc; legs reddish-yellow, the intermediate thighs with a brown belt. (L. 2 l.) Near London: 5.

542 ater *Forst. C.* i. 54. — *Ste. M.* ii. 61. — Ovate; flattish; black: antennæ and legs entirely ferruginous; elytra thickly punctured, very pubescent. (L. 2 l.)

Var? Dy. holosericeus *Marsh.* i. 427. — *Ste. M.* ii. 61. — Head dull red behind; lateral margin and base of the elytra dull red; apex of antennæ dusky. London; Norfolk; Ely; Hants; Wilts; Yorks.; Scotland, &c. ⊙ ✶.

543 pubescens *Gyll.* i. 536. — *Ste. M.* ii. 61. — Oval, flat; very pubescent; finely and thickly punctured: head dull red behind; elytra testaceous, the disc with a short stria composed of large punctures; legs dull red, the thighs sometimes dusky; antennæ rusty at the base, black at the tip. (L. 1½-2 l.) London; Norfolk; Scotland, &c. 3-6.

544 fuscatus *Kirby.* — *Ste. M.* ii. 62. — Ovate, black; slightly pubescent: head with a rusty streak behind; elytra flattish, pitchy-brown, finely and thickly punctured, base and lateral margins palish; legs dull red, with the base of the thighs pitchy; antennæ dusky, the base dull red. (L. 2 l.) London; Barham; Norfolk; Scotland, &c.: 3-4.

545 piceus *Kirby.* — *Ste. M.* ii. 62. — Hy. nitidus *Stu. D. F.* ix. pl. 207. f. *B*? — Oblong-ovate; flat; black; nearly glabrous: head reddish in front; thorax with the lateral margins obscurely reddish; elytra pitchy, with the sides paler, deeply punctate throughout; legs entirely dull red; antennæ dusky, with the base dull red. (L. 2¼ l.) London: Suffolk, &c.; 5-6.

546 oblongus *Power.* — *Ste. M.* v. 437. — Linear elliptic, a little narrowed behind; pitchy-black: head, legs and base of antennæ testaceous-red; elytra usually glabrous, lurid pitchy, very minutely and indistinctly punctured, with 3 rows of larger punctures; tip of antennæ dusky. (L. 2¼ l.) Cambridge: 3-5.

96 Noterus *Clairville.*

547 crassicornis *Fab. E.* i. 273.—*Ste. M.* ii. 63.—Pale ferruginous, shining: eyes black; elytra dull rusty-red, with the outer margin paler, the disc with 3 regular lines of punctures at the base; abdomen dusky: ♂ with a black ring towards the tip of the 4 anterior thighs. (L. 2½ l.) Battersea fields; Epping Forest; Whittlesea Mere; Mildenhall Drain, &c., Cambr.; and in Suffolk and Norfolk: 1-6.

548 semipunctatus *Fab. E.* i. 271. — sparsus *Cur.* v. pl. 236. — *Ste. M.* ii. 63. — Dark ferruginous, shining: elytra darker, or dusky, with the margins paler, the disc with numerous coarse punctures, placed in 3 somewhat regular lines at the base, but scattered irregularly towards the tip; abdomen pale ferruginous. (L. 2-2¾ l.) Near London; Kimpton; Southend; in Norfolk and Suffolk; 3-6.

97 Laccophilus *Leach.*

549 minutus *L.* ii. 667. — Dy. interruptus *Pz. F.* xxvi. f. 5. — *Ste. M.* ii. 64. — Ovate; slightly convex; pale: head and thorax yellowish; elytra dusky-greenish, with the outer margin, some irregular spots connected therewith, and 1 or 2 faint lines, pale; legs dull red. (L. 2 l.) London district; Cambridge; Norfolk; Suffolk; near Marton, Carlisle, &c.; Duddingston Loch, Scotland; ⊙ ✶.

550 hyalinus *De. G.* iv. 406. pl. 15. f. 21-23. — La. minutus? *Ste. M.* ii. 64. — Oblong-ovate, flattish: thorax yellow, spotless; elytra greenish-brown, with the outer margin and some spots connected therewith, and at the base paler; legs yellowish. (L. 2 l.) With the preceding; but more frequently. ⊙ ✶.

98 Colymbetes *Clairville.*

§ A. *Lab. palpi* with 2d joint longer than 3d: *elytra* striated transversely; — Cymatopterus *Eschscholtz.*

551 Paykulli *Erich. K.* i. 149. — Co. striatus *Clair.* ii. 198. pl. 29 f. *A.* — Oblong; above fuscous: thorax dull red, blackish in the middle, elytra very finely striated transversely; body beneath epipleuræ and legs pitchy-black. (L. 8-9 l.) London district: 3-6.

552 striatus *L.* ii. 665. ? — *Ste. M.* ii. 68. — *Mart. C.* pl. 34. f. 27. ? — Oblong; above fuscous: thorax testaceous, with a short black stripe in the middle; elytra transversely strigose; body beneath black, epipleuræ testaceous; legs and edges of the abdominal segments dull red. (L. 8-9½ l.) London district; Norfolk; Suffolk; Devon; Dorset; Cambridge; Glouc.; Marton; Carlisle; Scotland, &c. ⊙.

553 fuscus *L.* ii. 665. — *Clair.* ii. 200. pl. 29. f. *B.* — *Ste. M.* ii. 69. — Oblong-ovate; above fuscous: thorax and lateral margin of the elytra testaceous, and the latter transversely strigose; the former dusky in the middle; body beneath black; epipleuræ testaceous; and legs fuscous. (L. 8-9 l.) With the preceding; most abundant at Whittlesea Mere: 3-6.

§ B. *Palpi* as in § A: — *Elytra* not striated transversely, sometimes acicu-lated in ♀: — Rantus *Eschscholtz.*

554 pulverosus *Knoch.* — *Ste. M.* ii. 69. pl. xii. f. 2. — Oblong-ovate; slightly depressed; above yellowish; beneath black: head behind, and a transverse spot in the middle of the thorax, black; elytra very thickly irrorated with black, leaving the outer edge and a narrow line on the suture spotless; on the disc are 3 punctate lines; 4 anterior legs yellow, hinder pair black with tips of thighs pale. (L. 6-6½ l.) London district; Kimpton; Appleshaw; Cambridge, &c., 3-5.

555 notatus *Fab. E.* i. 267. — *Oliv.* iii. pl. 5. f. 47. — *Ste. M.* ii. 70. — Oblong-ovate, slightly convex; above testaceous; beneath black: crown black, with two pale spots; thorax with the base and a spot in the middle black; elytra thickly irrorated with black, the outer edge and a narrow sutural line pale; tip of sternum testaceous; abdomen of ♂ with edges of

segments yellow, of ♀ yellow with black spots on the sides; legs yellowish. ♀ with the base of the elytra thickly covered with short striæ. (L. 5 l.) Wandsworth Common; Southend; Cambridge; Bottisham; Whittlesea Mere, Aberystwith; Carlisle, &c.: 3-6.

556 exoletus *Forst. C.* 57.—*Ste. M.* ii. 70.—Dy. adspersus *Pz. F.* xxxviii. f. 18. — Oblong-ovate, yellowish: crown with a narrow black stripe, in which are 2 pale dots; thorax immaculate, or with 2 brownish spots on the hinder margin; scutellum black, the tip pale; elytra very thickly irrorated with black, and with 3 irregular punctate striæ; 4 anterior legs yellowish, posterior pair darker. (L. 5 l.) Near London; Cambridge; Whittlesea Mere; Netley; Carlisle; near Edinburgh, &c. 3-5.

557 bistriatus *Berg. Nom.* i. 42. pl. 8. f. 5. — Dy. agilis *Pz.* xc. f. 2. — *Ste. M.* ii. 71. — Oblong-ovate; above yellowish, beneath black: crown and the anterior and posterior margins of the thorax in the middle black; elytra thickly irrorated with black, the outer edge and a line near the suture spotless; the disc with 2 punctate striæ; sternum at the tip and legs dull red; thighs with a dusky spot; ♀ with the elytra obscurely strigose. (L. 5-5½ l.) Kensington Gardens; Cambridge; Whittlesea Mere; Exeter; Norfolk; Marton: 9-5.

558 adspersus *Fab. E.* i. 267. — *Ste. M.* ii. 71. pl. xii. f. 3. — Oval; above testaceous: crown black, with 2 pale spots; thorax with 2 very faint spots on the hinder edge; elytra thickly irrorated with black, the outer edge and a faint sutural line clear, the disc with 3 punctate striæ; breast black; sternum testaceous; abdomen black, with the edges of the segments testaceous; legs yellowish. (L. 5 l.) Cambridge and Whittlesea Mere, and in Norfolk: 3-6.

§ C. *Lab. palpi.* with 3d joint scarcely shorter than 2d: *elytra* smooth: *body* oblong: — LEIOPTERUS *Eschscholtz.*

559 agilis *Fab. E.* i. 266. — Co. oblongus. *Ste. M.* ii. 65. pl. xii. f. 1. — Oblong; ferruginous, finely punctulate: crown dusky; thorax with the disc blackish, edges dull red; elytra fuscous, with the margin pale, disc with several irregular striæ; breast and abdomen black; legs and antennæ dull red. (L. 3½-4 l.) Cambridge; Whittlesea Mere; Horringsea Fen; in Norfolk &c.; rare near London: 3-6.

560 arcticus *Pk. F.* i. 201. — *Ste. M.* ii. 194. — Oblong-ovate; finely reticulate-strigose; black: head red in front, with 2 pale spots behind; thorax pale reddish-yellow, with the anterior and posterior margins black (or nearly black, with the sides alone pale); elytra fuscous, with the lateral margins pale; margins of abdominal segments and the legs pale testaceous; sternum dull red. (L. 3½ l.) In Scotland but rare: 6.

§ D. *Palpi* as in § C. *Elytra* smooth: *body* more or less ovate, slightly convex, obscure; *crown* generally with two red dots: *hinder legs* in ♂ ciliated on bothsides, of the ♀ on one side only: — AGABUS *Erichson.*

a. Post. tarsi with basal joint alone ciliated beneath in the ♂.

561 guttatus *Pk. F.* i. 211. — *Ste. M.* ii. 66. — Dy. fenestratus *Pz. F.* xc. f. 1. — Oblong-ovate; flattish; thickly and very finely punctulated throughout; shining black: elytra with 2 rounded pale spots, a row of punctures near the suture, and 3 rows of punctate striæ on the disc; legs and antennæ rusty-pitchy. (L. 4 l.)

Var. Co. fontinalis. — *Ste. M.* ii. 66. — More oblong and convex, with the upper surface tinged with brassy; the 2d spot on the elytra nearly obliterated.

London district; Kimpton; Salop; Devon; Newcastle; near Edinburgh, &c.: 2-6.

562 chalconotus *Ill. K.* i. 260. — *Pz. F.* xxxviii. f. 17. — *Ste. M.* ii. 76. — Oblong-ovate; slightly convex; very finely reticulate-strigose; above brassy-black, shining; beneath black: sides of thorax and of elytra dull pitchy-red; disc of the latter with 3 rows of scattered impressions; legs pitchy-red; posterior pair darkest. (L. 4 l.)

Var. ? Co. cyaneus *Ste. M.* v. 394. — Elytra blue-black, shaded off towards the margins to pitchy; disc scarcely reticulated; femora dusky. London district; Kimpton; Swansea; Netley; York; Scotland, &c.: ♀.

563 montanus *Leach.* — *Ste. M.* ii. 76. — Ac. neglectus *Erich. K.* i. 158? — Somewhat ovate; slightly flattened, very finely reticulate-strigose; brassy-black, with the edges of the thorax concolorous: coronal dots obsolete; elytra with the lateral margin dull pitchy; the disc with 3 faint punctate striæ; legs pitchy-red. (L. 3-3½ l.) Dartmoor; Netley: 3-6.

564 nigroæneus *Marsh.* i. 428. — *Ste. M.* ii. 77. — Oblong-ovate; rather convex; finely reticulate-strigose; above brassy-black: with the mouth, and margins of the thorax and of the elytra pitchy-brown; the disc of the latter with 3 punctate striæ; body beneath, legs and antennæ pitchy-red. (L. 4-4½ l.) London district; Epping Forest; Southend; in Scotland: 3-6.

b. Post. tarsi, with 2 basal joints ciliated beneath in the ♂.

565 affinis *Pk. F.* i. 211. — *Ste. M.* ii. 78. — *Stu. D. F.* viii. pl. 197. f. *A.* — Oblong-ovate, slightly convex; finely punctate-strigose; black: elytra with 2 slender pale pellucid streaks, and 3 rows of irregular punctures; base of antennæ and legs red. (L. 3. l.) Near London; Netley; and in Norfolk: 3-4.

566 paludosus *Fab. E.* i. 266. — *Ste. M.* ii. 74. — Oval; flattish; smooth, glossy-black: sides of thorax broadly ferruginous; elytra with 2 regularly and 1 irregularly punctate striæ; fuscous, with the base and margins testaceous-yellow; legs dull ferruginous; posterior pitchy; abdomen sometimes testaceous beneath. (L. 3½ l.) Running streams; near London; Bottisham, Bristol, Swansea, Netley; in Devon, Hants, Wilts, &c.: 3-9.

567 branchiatus *Loud. M. N. H.* (*Bab.*) v. 329. — *Ste. M.* v. 394. — Oblong-ovate; slightly convex; very finely punctate-strigose: elytra with an obscure transparent line towards the apex; legs fuscous; antennæ ferruginous. (L. 3 l.) North Wales: 5-6.

c. Post. tarsi with 3 basal joints ciliated beneath in ♂.

568 congener *Pk. F.* i. 214. — *Ste. M.* ii. 73. — Oval; flattish; very finely punctulate, substrigose; black: elytra fuscous, with the outer margin paler, the disc with 3 irregular punctate striæ: legs dull red; thighs pitchy, with dusky spots. (L. 3¼ l.) Suffolk and Norfolk; rare near London: 6.

569 femoralis *Pk. F.* i. 215. — *Ste. M.* ii. 77. — Co. assimilis *Stu. D. F.* viii. pl. 196. f. *C.* — Oblong-ovate; flattish; punctulated; brassy-black, with the sides of the thorax and of the elytra paler; legs reddish; anterior thighs thickened, of the ♂ with a dense pale fringe of hairs beneath, of the ♀ with a slighter one. (L. 2¾-3 l.) Kensington Gardens; Southend; Cambridge; S. Wales; Longnor, Salop; Parley Heath, &c.: 3-9.

570 uliginosus *L.* ii. 667. — *Ste. M.* ii. 78. — *Stu. D. F.* viii. pl. 196. f. *B.* — Oval; convex; slightly punctulated; shining black, or with a brassy tinge; with the sides of the thorax and of the elytra, and the legs and antennæ, rusty-red. (L. 3½ l.) Windsor; Southend; Winterborne Stoke, Weyhill; Edinburgh; and Aberdeenshire: 4-9.

571 abbreviatus *Fab. E.* i. 265. — *Pz. F.* xiv. f. 1. — *Ste. M.* ii. 75. —

Oval; finely punctulate; head dull red; sides of thorax obscurely ferruginous; elytra with a short waved band near the base, a double spot (sometimes divided) towards the outer margin, beyond the middle, and a minute dot near the apex pale-testaceous; legs and margins of abdominal segments reddish. (L. 3½ l.) Windsor; Larden, Salop; Norfolk; Whittlesea Mere in plenty: 4-7.

572 maculatus *L.* ii. 666. — *Don.* xiv. pl. 501. f. 1. — *Ste. M.* ii. 74. — Oval; finely punctulated; above black; thorax pale yellowish, its anterior and posterior margins black; elytra with pale longitudinal lines, and spots (more or less united, or sometimes interrupted, or nearly obsolete), and a pale margin; legs reddish. (L. 3½-4 l.) Devonshire; Cherwell, Oxon.; Buxton; Bottisham; Kimpton; Glanville's Wootton; near Edinburgh, &c.: 3-9.

d. Post. tarsi with 4 basal joints ciliated beneath in the ♂.

573 vitreus *Pk. F.* i. 217. — *Ste. M.* ii. 75. — Dy. didymus *Oliv. E.* iii. pl. 4. f. 37. — Ovate; smooth; black: head reddish in front; thorax with the extreme sides dull rusty; elytra brassy, with a double whitish transparent spot near the outer margin, and a smaller one towards the apex; the disc with 3 regular punctate striæ; legs reddish, the thighs beneath and base of tibiæ dusky. (L. 4 l.) London district; Dartmoor; Bristol; Swansea; Kimpton; Netley, &c.: 4-7.

574 nebulosus *Forst. C.* 56. — *Ste. M.* ii. 72. Dy. 2-punctatus *Don.* ix. pl. 303. — Ovate, flattish; above yellowish; beneath pitchy-black: thorax with 2 round approximating black spots; elytra irrorated with black, with a line down the suture; the outer margin and a spot in the middle of the latter clear: tip of abdomen and the legs dull red. (L. 4-4½ l.) London district; Norfolk; Hants; Yorkshire; Devon; Newcastle; Edinburgh, &c.: ⊙ ✶.

575 subnebulosus *Hope.* — *Ste. M.* ii. 72. — Ovate; above yellowish; breast pitchy-black; abdomen testaceous: thorax spotless, middle of its hinder margin dusky; elytra irrorated with dusky, the outer margin, suture, and spot on the edge, clear; legs testaceous. (L. 4 l.) Aldborough, Suffolk: 5-6.

575 conspersus *Marsh.* i. 427. — *Ste. M.* ii. 72. pl. xii. f 4. — Oblong-ovate; griseous yellow above; black beneath: crown broadly black, with 2 distinct red spots; thorax spotless; elytra very obscurely irrorated with dusky; abdominal segments edged with testaceous; legs pitchy-rust colour; thighs dusky. (L. 4-4¼ l.) Near London; in plenty at Southend: 4-6.

577 vittiger *Gyll.* iv. 379. — *Ste. M.* ii. 81. — Oblong-ovate; faintly reticulate-strigose; brassy-black: elytra with 3 irregular rows of punctures, and a reddish rather oblique, and sometimes obsolete, line towards the middle of the outer edge: legs pitchy-red. (L. 4½ l.) Pits at Weyhill; Dartmoor, &c.: 5-9.

578 striolatus *Gyll.* i. 508. — *Ste. M.* ii. 77. — Oblong-ovate; flattish; finely striated longitudinally, the striæ sometimes anastomosing; black: mouth, labrum and edge of the forehead dull red; elytra with 3 very irregular rows of punctures; anterior edge of thorax and margins of the abdominal segments dull red; legs rusty-red, with the thighs pitchy. (L. 3¼ l.) Near London: 5-6.

579 brunneus *Fab. E.* i. 266. — Co. ferrugineus *Ste. M.* ii. 79. — Ovate; convex; testaceous-red or ferruginous above, shining; very smooth, spotless: elytra rather darker, with the base and outer edge a little paler; pluræ and abdomen black; 4 anterior legs pitchy-red; hinder pair pitchy-black; antennæ short, reddish. (L. 4-4½ l.) Dartmoor, and near Caernarvon: 5-6.

e. *Post. tarsi* with all the joints ciliated beneath in the ♂.

580 confinis *Gyll.* i. 511. — *Ste. M.* ii. 80. — Oval; flattish; black; head and thorax finely punctulate: elytra very smooth, the outer edge indeterminately pitchy-testaceous, the disc with 3 irregular rows of punctures at the base; hinder segments of the abdomen edged with dull red; legs pitchy-black; anterior tibiæ and tarsi reddish. (L. 4 l.) London district, and Netley: 5-6.

581 Sturmii *Gyll.* i. 493. — *Ste. M.* ii. 78. — *Stu. D. F.* viii. pl. 195. f. *G.* — Oval; very delicately reticulate-strigose, black: sides of thorax, antennæ and legs dull red; elytra fuscous, with the outer margin pale or yellowish; the disc with 3 obscure rows of punctures. (L. 4-4½ l.) London district; Cambr.; Abbots' Ann; Newcastle; Edinburgh, &c.: ⊙.

582 aterrimus *Ste. M.* ii. 79. — Somewhat ovate; very obscurely striated; black, with a brassy tinge and slightly shining: crown immaculate; elytra immaculate, with 3 very obsolete rows of punctures at the base, and some rather distinct ones towards the tip; legs pitchy-black; antennæ red. (L. 4 l.) London district: 6.

583 bipustulatus *L.* ii. 667. — *Oliv.* iii. pl. 3. f. 26. — *Ste. M.* ii. 80. — Ovate; rather flattened behind; the entire surface thickly and distinctly covered with slender longitudinal anastomosing striæ; black: crown with 2 very distinct red spots; legs pitchy; elytra variable in tint, more or less pitchy, or testaceous, with 3 rows of punctures. (L. 4½-5¼ l.)
Var. Co. Snowdonius *Ent. M.* (*Newm.*) i. 55. — *Ste. M.* v. 394. — Blackish brass; elytra with 3 obscure elevated lines. Common everywhere: ⊙. ✶. Var. Snowdon.

584 Grapii *Gyll.* i. 505. *Ahr. F.* vi. 1. — *Ste. M.* ii. 67. — Oblong-ovate; flat; finely punctulated; black; crown with a dull red crescent; thorax short, waved behind, the hinder angles acute; elytra with 3 faint punctate striæ; mouth, antennæ and anterior legs dull red; hinder legs pitchy-black. (L. 5½-6 l.) Ditches, Birch Wood; Whittlesea Mere; Norfolk: 4-6.

(585† cicur *Fab. E.* i. 262. — *Ste. M.* ii. 67. *note.* — Co. consobrinus *Cur.* v. pl. 207. — Oblong-ovate; smooth; shining black: crown with a rusty spot; thorax with its outer margin and an obscure central line dull rusty-red; elytra yellowish, irrorated with black, with 3 yellow lines, and 3 obscurely punctate striæ; legs dusky-testaceous. (L. 8 l.) Said to be taken at Snaresbrook; but a native of the Cape of Good Hope.)

§ E. *Lab. palpi* with 2d joint nearly equal in length with 3d; *body* very convex; narrowed behind: *elytra* not striated transversely: — Ilybius *Erichson.*

586 fuliginosus *Fab. E.* i. 263. — *Ste. M.* ii. 67. — Dy. lacustris *Pz. F.* xxxviii. f. 14. — Oblong-ovate; above obscure brass, or bronzed, with the lateral margins broadly yellowish, or testaceous; beneath rusty-brown: elytra with an obscure punctate stria; legs and antennæ pale reddish. (L. 4½-5 l.) Clear streams, London district; Bottisham; Andover; Bristol; West of England; Swansea; Norfolk; Scotland, &c.: 3-7.

587 subæneus *Erich. K.* i. 116. — Oval, convex; above obscure brassy, opaque: thorax and elytra with a narrow brown margin; the latter with 2 minute whitish spots; beneath brown; legs reddish. (L. 5 l.) London district: 3-5.

588 fenestratus *Fab. E.* i. 264. — *Ste. M.* ii. 82. — Dy. æneus *Pz. F.* xxxviii. f. 16. — Oblong-ovate; convex; brassy-black; slightly shining: thorax and elytra with a rather broad rusty-brown margin, the latter with 3 rows of punctures placed rather irregularly, and with 2 whitish pellucid

streaks; body beneath and legs rusty-red. (L. 5-6 l.) Croydon Canal; Mildenhall Drain, Cambridgeshire; Parley Copse, &c.: 4-6.

589 guttiger *Gyll.* i. 499. — *Ste. M.* ii. 81. — Oblong-ovate, slightly convex; black, pitchy beneath: thorax with anterior angles slightly tinted with dull red; elytra with a reddish-yellow transparent streak near the outer margin about the middle, and a round spot of similar hue within the tip; 4 anterior legs dull red, 2 hinder pitchy. (L. 4-4½ l.) London district; ponds, Netley; Bewdley Forest; Longnor, Salop, &c.: 4-7.

590 angustior *Gyll.* i. 500. — *Ste. M.* ii. 80. — Rather narrow; oblong-ovate, slightly convex, brassy black; beneath pitchy: elytra with 2 small (sometimes obliterated) yellowish transparent spots, 1 of them towards the middle of the outer margin, the other near the tip; mouth and antennæ dull red; legs pitchy. (L. 4 l.) London district; Whittlesea Mere: 4-6.

591 4-notatus *Ste. M.* ii. 83.—Rather oblong-ovate; convex; shining black: crown with two very conspicuous red spots; elytra with a round white spot near the outer edge behind the middle, and a smaller one near the tip; legs black; 4 anterior tarsi and antennæ rusty-red. (L. 4½ l.) London district; Ashburton, Devon: 4-6.

592 ater *De G.* iv. 401. — *Px. F.* xxxviii. f. 15. — *Ste. M.* ii. 82. — Oblong-ovate; convex; black with a brassy tinge; beneath pitchy: elytra with 2 transparent pale testaceous streaks, 1 placed near the middle of the sides, the other towards the tip; antennæ and 4 anterior legs reddish. (L. 6-7 l.) London district; Sundridge, Kent; Norfolk; Currie, Scotland: 6-7.

593 obscurus *Marsh.* i. 414. — *Ste. M.* ii. 82. — Il. 4-guttatus *Erich. K.* i. 154. — Oblong-ovate; convex; black, rather obscure; beneath pitchy-brown: elytra with 2 minute whitish transparent spots, placed as in Co. ater; legs and antennæ pitchy. (L. 4¾-5½ l.) With the preceding species; and in Roxburghshire: 4-6.

99 Agabus *Leach.*

594 † serricornis *Pk. F.* iii. 443. — *Ahr. F.* v. f. 3. — *Ste. M.* ii. 84. — Ovate, convex, obtuse; pitchy-black, smooth; sides of the thorax and of the elytra, the body beneath and the legs pitchy-red: anterior thighs of the ♂ compressed, toothed beneath, the tarsi slightly patellate; ♀ with the antennæ and legs simple. (L. 5½-6 l.) Netley; rare: 8.

100 Hydaticus *Leach.*

§ A. *Body* oblong-ovate, rather convex; *interm. tarsi* of ♂ patellate: — Hydaticus.

595 transversalis *Fab. E.* i. 265. — *Pz. F.* lxxxvi. f. 6. — *Ste. M.* ii. 85. —Black: thorax with its anterior and lateral margins broadly ferruginous; elytra with the outer edge broadly yellowish, and with a slender waved pale yellowish transverse stripe near the base, neither touching the suture nor the margin; body rarely dull red beneath; legs dull red. (L. 6-6½ l.) Ponds, Battersea fields; Yaxley Fens; Whittlesea Mere; Cambridge: 4-7.

596 Hybneri *Fab. E.* i. 265. — *Oliv.* iii. pl. 4. f. 33. — *Ste. M.* ii. 85. — Black: thorax with the anterior lateral margins dull red; elytra with a broad yellowish margin; 4 anterior legs pale testaceous, hinder pair pitchy-black. (L. 6½-7 l.) With the preceding species, but less abundantly: 4-7.

597 stagnalis *Fab. E.* i. 265. — *Ste. M.* ii. 85. pl. xii. f. 5. — Black: head yellow; the crown black, with two red dots; thorax reddish yellow, with a black patch in the middle behind; elytra with the outer margin broadly

yellowish, and 5 or 6 slender parallel lines of the same colour on the disc. (L. 6-6½ l.) Near Exeter and Netley: 5-6.

§ B. *Body* obovate, rather depressed, broad; *interm. tarsi* of ♂ slightly dilated: — GRAPHODERUS *Esch.*

598 cinereus *L.* ii. 666. — *Cur.* ii. pl. 95. — *Ste. M.* ii. 86. — Dull yellowish: crown and 2 frontal lines black; thorax with the anterior and posterior edges also black; elytra dusky, irrorated with yellow, the outer margin testaceous; legs pale testaceous. (L. 6 l.) Whittlesea Mere: 5-7.

101 DYTICUS *Geoffroy.*

§ A. *Elytra* smooth in both sexes: — LEIONOTUS *Kirby.*

599 conformis *N. A. Hall* (*Kunzé*) ii. 58. — *Stu. D. F.* viii. pl. 188. f. *e. f.* — *Ste. M.* ii. 87. — Olive-black; beneath testaceous, with the sutures of the breast black: margins of the thorax and outer edge of the elytra luteous, the disc of the latter finely punctulated; hinder coxæ lanceolate-acuminate; legs and antennæ testaceous. (L. 1 in. 4 l.) Near Ipswich; Cambridge; Whittlesea Mere; Devon: 5-8.

600 circumcinctus *N. A. Hall.* (*Ahr.*) i. 55. — *Ste. M.* ii. 87. pl. xii. f. 6. — Olive-black, beneath testaceous, spotless: margins of the thorax unequally, and outer edge of the elytra, luteous; the disc of the latter with 3 continuous punctate striæ, with some remote impressions between each; hinder coxæ very acute; legs testaceous. (L. 1 in. 3-4 l.) Dykes in Yaxley Fens, in plenty; Netley; Lawrence Waltham, &c.: 6-7.

§ B. *Elytra* of ♀ sulcated at the base: DYTICUS *pr.*

601 angustatus *Ste. M.* ii. 88. — Oblong-ovate; black or olive, testaceous beneath, with the sutures of the breast black; thorax with the margins narrowly, and outer edge of the elytra broadly testaceous-yellow; scutellum black; hinder coxæ very acute. (L. 1 in. 2-3½ l.) Yaxley Fens; Bottisham; Bomere, Salop; 6-7.

602 circumflexus *Fab. E.* i. 258. — *Ste. M.* ii. 88. — *Stu. D. F.* viii. pl. 188. f. *a. b.* — Oblong-ovate; olive-black; testaceous-yellow beneath; with the sutures of the breast and margins of the abdominal segments black: edges of the thorax and sides of the elytra broadly testaceous-yellow; middle of the scutellum yellow; hinder coxæ very acute. (L. 1 in. 1-4 l.) Battersea fields; Camberwell; Kimpton; Lawrence Waltham; rare near Edinburgh: 3-6.

603 marginalis *L.* ii. 665. — *Don.* v. pl. 161. — *Ste. M.* ii. 89. — Oblong-ovate, elytra dilated behind the middle; above dusky-olive; beneath testaceous-yellow: margins of the thorax and outer edge of the elytra testaceous, within the tip of the latter a yellowish crescent; hinder coxæ somewhat obtuse. (L. 1 in. 1-4 l.)

Var. Dy. submarginalis *Ste. M.* ii. 90. — With the outer edge of the elytra yellowish at the base only. Common in ponds, &c. throughout England; rather scarce in Scotland. ⊙ ✶.

604 punctulatus *Fab. E.* i. 259. — *Don.* xv. pl. 540. — *Ste. M.* ii. 90. — Oblong-ovate; above olivaceous-black, beneath black: outer margins of the thorax and of the elytra yellow; hinder coxæ rounded. (L. 11-14 l.) Battersea fields, &c. near London; Hants and Wilts; Cambr.; Marton, sparingly; Cardew Mire; not rare in Scotland: 3-6.

605 dimidiatus *Berg. N.* i. 33. 7. f. 1. — *Cur.* iii. pl. 99. — *Ste. M.* ii. 90. — Oblong-ovate; above dull olive-black, beneath testaceous-yellow: with the sutures of the breast black; the outer margins of the thorax and

of the elytra yellow; hinder coxæ rounded. (L. 1 in. 5-6 l.) Yaxley Fens; Botanic Garden, Cambridge; Bottisham; Elsemere and Bomere, Salop: 3-6.

(606 ‡ latissimus *L.* ii. 665. — *Pz. F.* lxxxvi. f. 1 ♂ f. 2 ♀. — *Ste. M.* ii. 91. *note.* — Ovate, rather flat; outer margin of the elytra dilated; black; the margins of the thorax, a streak on the outer edge of the elytra and body beneath luteous; hinder coxæ acuminate. (L. 1 in. 8 l.) Improperly given as British.

102 Cybister *Curtis.*

607 † Roeselii *Fab. E.* i. 259. — *Cur.* iv. pl. 151. — *Ste. M.* ii. 92. — Ovate, flattish; above olivaceous; the mouth, lateral margins of the thorax, and a submarginal streak on the elytra yellow; elytra obscurely striated: body beneath, legs and antennæ, pale testaceous. (L. 1 in. 1 l.) Near Walton, and Colchester, in Essex: 8-9.

103 Acilius *Leach.*

608 sulcatus *L.* ii. 666. —*Don.* ii. pl. 68. f. 5. ♀ —*Ste. M.* ii. 93. — Short, ovate; fuscous: mouth, 4 frontal crescents, margins of the thorax, and a short transverse fascia in the middle, dilated at each end, luteous; body beneath black, sides of the abdomen spotted with yellow; hinder legs black, tip of the thighs yellow. ♀ with 2 foveæ on the thorax, and 4 broad hairy channels at the base of the elytra. (L. 7-9 l.)

Var. ? Ac. scoticus *Curtis ?* — *Ste. M.* ii. 93. — Thoracic band interrupted in the middle; outer margin of elytra clouded with fuscous; abdomen with small yellowish spots on the sides, its segments edged with dull red. Most abundant everywhere in England; also common in Scotland: ⊙ ✶.

609 fasciatus *De. G.* iv. 297. ? — Ac. canaliculatus *Ste. M.* ii. 94. — Ac. caliginosus *Cur.* ii. pl. 63. —Ovate; fuscous: head in front and crown with a transverse line, the margins of the thorax and a short band in the middle (dilated into a roundish spot at each end) yellow; abdomen and legs yellow; the former sometimes striped with black: ♀ with 4 hairy channels at the base of the elytra. (L. 6½-7 l.) Stilton, and Yaxley Fens; and near Edinburgh: 5-7.

Fam. 9. GYRINIDÆ *Leach.*

civ. Gyrinus *Body* moderately convex, very glossy: *internal max. palpi* distinct: *labrum* short, transverse: *elytra* glabrous, striated, not reaching to the apex of the *abdomen*, the last segment of which is flat, and rather acute.

cv. Orectocheilus *Body* convex: *internal max. palpi* obsolete: *labrum* projecting: *elytra* pubescent, punctate, not striated, covering the apex of the *abdomen*, the terminal segment of which is conical.

104 Gyrinus *of Authors.*

610 æneus *Leach.* — *Ste. M.* ii. 95. — Oblong-ovate; above very glossy blue-black; beneath dull brass: head, edges of the thorax and of the elytra, the reflexed margin of the latter, and the antennæ, brilliant brass; elytra deeply punctate-striate; legs red; 4 hinder femora rather dusky. (L. 3-3½ l,) Ditches near the Surrey Canal; River Dart, near Spitchweek; Bottisham; Duddingston Loch, &c.: 3-9.

611 marinus *Gyll.* i. 143. — *Ste. M.* ii. 96. — Oblong-ovate, blue-black, shining; beneath brassy: elytra deeply punctate-striate, the suture and outer margin greenish-brass; the reflexed margin glossy-brass; legs pale-red: — disc of elytra sometimes dull-red. (L. 2½-3. l.) Carlisle; Lochend; Saltcoats, Devonshire; Bottisham; Scotland, &c.: 4-6.

612 minutus *Fab. E.* i. 276. — *Ste. M.* ii. 96. pl. xiii. f. 1. — Oblong-ovate; greenish-blue, shining; beneath dull red, with the base of the abdomen black: elytra regularly punctate-striate, the reflexed margin and legs pale testaceous. (L. $1\frac{7}{8}$-$2\frac{1}{2}$ l.) Bristol; Swansea; Ashburton; Netley; Water of Leith, &c.: 3-6.

613 æratus *Ste. M.* v. 395. — Oblong-ovate; above shining brassy-black; beneath bright brassy: elytra deeply punctate-striate, the reflexed margin brassy; femora pitchy; tibiæ and tarsi testaceous. (L. 2 l.) The Cam, near Cambridge: 6.

614 natator *L.* ii. 567. — *Samou.* pl. 2. f. 2. — *Ste. M.* ii. 97. — Ovate; bluish-black, very glossy: elytra very finely punctate-striate, the reflexed margin, apex of the abdomen, and the legs pale rust-colour; base of the abdomen brassy-black; mouth reddish. (L. $2\frac{3}{4}$-$3\frac{1}{4}$ l.) Abundant everywhere in England; also in Scotland: 3-9. ∗.

615 substriatus *Ste. M.* ii. 97. — Gy. mergus *Ahr. F.* ii. f. 6.? — Somewhat ovate; above bluish-black, shining, and obscurely tinged with green on the outer edges: elytra very faintly punctate-striate, the striæ composed of remote punctures, the reflexed margin bright ferruginous; apex of abdomen and legs dull red. (L. 3 l.) Near London; Yaxley Fens; Bottisham; Kimpton; Yorkshire, &c.: 3-9.

616 lineatus *Hoffmansegg?* — *Ste. M.* ii. 97. pl. xiii. f. 2. — Ovate; above shining brassy-black, beneath rusty-pitchy: elytra very faintly striated, the dorsal striæ nearly obliterated, and their places indicated by obscure reddish lines, visible in certain lights; outer margin greenish-brass, the reflexed one dull red: legs pale red. (L. 3-$3\frac{1}{4}$ l.) Slapton Ley, near Dartmouth: 6.

617 bicolor *Fab. E.* i. 274. — *Cur.* ii. pl. 79. — *Ste. M.* ii. 97. — Oblong; somewhat cylindric, or linear; blue-black, extremely glossy: elytra elongated, slightly narrowed behind, finely punctate-striated, the outer edge brassy, the reflexed one dull red; body brassy beneath, with the tip of the abdomen pitchy; middle of the breast and the legs dull red. (L. 3-4 l.) Salt-marshes in Devonshire; Southend; Tenbury; Norfolk; Covehithe, Suffolk: 4-7.

105 Orectocheilus *Eschscholtz.*

618 villosus *Ill. K.* i. 271. — *Pz. F.* ci. f. 7. — *Ste. M.* ii. 98. — Oblong; above black, or dull brass, clothed with a griseous pile; beneath pale ferruginous: elytra thickly punctured, the reflexed margin reddish; legs pale; antennæ black, the base and apex pale. (L $2\frac{3}{4}$-$3\frac{1}{2}$ l.) Rare near London; Netley; Dart, and rivulets near Dartmoor; Slapton Ley: 4-7.

§ 2. RYPOPHAGA *Stephens* (p. 2.)

Stirps 1. PHILHYDRIDA *MacLeay.*

Fam. 10 Heteroceridæ. *Ant.* 11-jointed, 2 basal joints large, the rest forming an obscurely serrated mass thickened towards the apex: *body* flattish: *head* elongate, deeply inserted into the *tho.*, which is transverse; *tibiæ* compressed, spinous; *tarsi* 4-jointed.

Fam. 11 Parnidæ. *Ant.* 9-jointed, the 2d with a lobate appendage, the rest forming a clavate serrated mass: *body* rather cylindric, convex: *head* deeply inserted into the *tho.*, which is somewhat 4-drate, slightly narrowed in front: *tibiæ* cylindric, unarmed; *tarsi* filiform, long, 5-jointed.

Fam. 12 Limniidæ. *Ant.* 9-, 11-jointed, somewhat filiform, the terminal joints rather largest, and forming a club: *body* ovate, or subglobose, convex: *head* inflexed, deeply inserted into the *tho.*, which is rather 4-

drate and margined: *legs* long; *tibiæ* slender, not spinous; *tarsi* long, 4- or 5-jointed.

Fam. 13 HELOPHORIDÆ. *Ant.* 9-jointed, rather abruptly perfoliate-clavate, the club somewhat serrated: *mand.* not toothed at the tips: *max. palpi* very long: *body* oblong, flattish: *tho.* rather 4-drate, rarely orbicular: *tibiæ* slightly spinous; *tarsi* 5-jointed, filiform, not ciliated, basal joint minute.

Fam. 14 HYDROPHILIDÆ. *Ant.* 6-, 9-jointed, perfoliate-clavate, club distinctly cleft: *mand.* 2-dentate at the tip: *max. palpi* very long, usually filiform: *body* oval, frequently globose: *tho.* short, transverse: *tibiæ* slightly spinous; *tarsi* 5-jointed, filiform, the basal joint minute, the 2d longest; hinder pair often ciliated.

Fam. 15 SPHÆRIDIIDÆ. *Ant.* short, 9-jointed, basal joint very long, 4 next short, the rest forming a compressed perfoliated club: *max. palpi* as long as *ant.*, 2d joint thickened: *head* round in front: *tho.* transverse: *body* more or less hemispheric: *tibiæ* compressed, spinous; *tarsi* 5-jointed, filiform, basal and terminal joints long, last with 2 unequal *claws*.

Fam. 16 ANISOTOMIDÆ. *Ant.* 11-jointed, longish, slender at base, terminating in a club, of a variable number of joints: *palpi* short: *head* small, ovate: *tho.* more or less gibbous: *body* convex, orbicular or globose, never linear: *tibiæ* often spinous and compressed; *tarsi* various 4- (rarely 5-) jointed, or heteromerous.

Fam. 10. HETEROCERIDÆ *MacLeay.*

cvi. HETEROCERUS *Ant.* with the 7 terminal joints forming a serrated club: *palpi* short, 3-jointed: *body* ovate, pubescent.

106 HETEROCERUS *Bosc.*

619 marginatus *Fab. E.* i. 355. — *Sam.* pl. 3. f. 11. — *Ste. M.* ii. 100. — Dusky; pubescent; finely punctured: elytra with the margin and several irregular spots on the disc, more or less united, or wanting, pale dull-red; tarsi testaceous; antennæ pale, with the club dusky; anterior angles of the head sometimes reddish. (L. 1¾-2⅓ l.) Near London, and N. West coasts of England; Aberystwith, &c.: 4.

620 flexuosus *Ste. M.* ii. 101. — Fuscous; pubescent; finely punctured: elytra yellowish, with a longitudinal flexuous stripe, composed of irregular black spots, a black streak at the shoulder, and a faint one near the suture, towards the apex, which last is spotless; tarsi pitchy. (L. 2 l.) Near Gravesend: 5.

Var.? He. Marshami *Ste. M.* ii. 101. — Dusky-black; very pubescent: thorax with a small obscure yellowish spot in the middle of the base; elytra with a similar spot near the tip; legs yellowish. (L. 1¼ l.) Banks of Humber? 6.?

621 lævigatus *Fab. E.* i. 356. — *Pz. F.* xxiii. f. 11. — *Ste. M.* ii. 101. — Fuscous, shining; finely punctured, and slightly pubescent: elytra with the outer edge and several large, squarish, pale yellowish spots, disposed in 3 irregular bands on the disc; legs pale-testaceous; tibiæ dusky: thorax sometimes with a pale spot at the anterior angle; the abdomen at times testaceous, and the spots on the elytra more or less united, or obscured. (L. 1½-2¼ l.) Wandsworth Common; and in Norfolk and Suffolk.

622 obsoletus *Curtis.* v. pl. 224. — *Ste. M.* ii. 102. — Black; shining; finely punctured and pubescent: thorax with a yellowish spot on each side at the anterior angle; elytra with about 7 or 8 pale ochreous or reddish spots, placed 1 (sometimes wanting) near the scutellum, 3, 1 curved, and

3 at the tip: legs black; tibial spines and tip of tarsi reddish. (L. 2-3 l.) Shores of Thames and Medway: 4-5.

623 pusillus *Hope.* — *Ste. M.* v. 395. — Very narrow, elongate, convex, fuscous, with a golden pubescence; elytra with very obscure reddish spots and fasciæ; antennæ and legs dull testaceous. (L. 1¼-2 l.)

Var. ? He. minutus *De J.*? — *Ste. M.* ii. 102. — The spots on the elytra brighter. Aberystwith: 5-6. Southend: 4. var.?

Fam. 11. PARNIDÆ *Leach.*

cvii. Parnus *Ant.* with the lobe of the 2d joint very large, and much produced within, the mass of the club compact, and serrated on one side, joints indistinct: *tho.* with a longitudinal impression on each side: *legs* short; *anter.* and *interm.* of nearly equal length.

cviii. Dryops *Ant.* with club rather sharply serrated within, the joints not very compact: *tho.* without any longitudinal impressions: *legs* rather long; *interm.* longer than *anter.*

107 Parnus *Fabricius.*

624 prolefericornis *Fab. E.* i. 332. — *Pz. F.* xiii. f. 1. — *Ste. M.* ii. 103. — Elongate, olivaceous, clothed with a griseous pubescence; minutely punctured: elytra very obscurely striated, the striæ almost obliterated on the sides and apex; legs dull red, with the tibiæ dusky. (L. 2-2¾ l.)

Var. Pa. sericeus *Leach.* — *Sam.* pl. 3. f. 10. — Clothed with a rich golden greenish pubescence. Pond sides, &c., Battersea fields; Ockham Heath; Epping; Netley; Near Carlisle; Edinburgh, &c.: 4-5.

625 impressus *Cur.* ii. pl. 80. — *Ste. M.* ii. 104. — Olive-brown, minutely punctured, villose: thorax with a fovea on each side, near the base; elytra with 7 or 8 obscure punctured striæ; base of thighs, and tips of tibiæ, tarsi and antennæ, and the claws dull red. (L 2-2¼ l.) Near London; Battersea fields; and in Norfolk: 4.

626 auriculatus *Oliv. E.* iii. pl. 1. f. 1. *a. e.* — *Ste. M.* ii. 104. — Ovate, black, pubescent; thickly punctured: scutellum clothed with tawny pubescence; elytra rather shining, deeply punctured, and clothed with rather distinct, erect, fuscous hair; body pitchy-black beneath; legs pitchy-red; tibiæ dusky. (L. 2-2½ l.) Wandsworth Common; Kimpton; Marton; Pentland Hills, &c.: 4-5.

627 bicolor *Curtis.* — *Ste. M.* ii. 104. — Minutely punctured, with coarse, imperfect striæ at the base of the elytra; head and thorax black; elytra, legs, and antennæ ferruginous. (L. 2 l.) Norfolk.

108 Dryops *Olivier.*

628 † Dumerilii *Lat. J.* ii. 56. — *Ste. M.* v. 396. — Elliptic, somewhat cylindric; dusky; with a golden-yellow pubescence, and covered with minute elevated points: elytra with very obscure elevated lines, producing the appearance of being striated; tarsi reddish. (L. 2½ l.) Banks of Wandle, near Garrat Green; and in Yorkshire.

Fam. 12. LIMNIIDÆ *Stephens.*

cix. Elmis *Ant.* 11-jointed, as long as the *tho.*, slightly thickened at the tip: *body* ovate, convex.

cx. Stenelmis *Ant.* 11-jointed, scarcely so long as the *tho.*, slender: *body* narrow, linear, flattish; terminal ventral segment notched.

cxi. Georyssus *Ant.* 9-jointed, short, terminated by a large ovate 3-articulate club: *body* subglobose.

109 Elmis *Latreille.*

629 Volkmari *Pz. F.* viii. f. 4. — *Ste. M.* ii. 106. — Oblong-ovate; black, tinged with brassy or greenish; thorax rather 4-drate, convex, punctured, with a raised longitudinal line on each side, remote from the lateral margin and approaching to each other in front; elytra deeply punctate-striate. (L. 1¼-1¾ l.) Mill stream, near Hatfield; in Norfolk; Hebden Bridge; in Scotland; near Bristol, and Manchester; Edinburgh, &c.: *5-6.*

630 tuberculatus *Ill. M.* (*Müller*) v. 199. — *Ste. M.* ii. 106. — Oblong; fuscous or pitchy-brass: thorax shining, with 2 elevated longitudinal lines approximating in front; elytra slightly tuberculated at the base, and transversely impressed, punctate-striate, the 3d stria from the margin slightly raised; antennæ and legs reddish. (L. ½-¾ l.) Clengre, Glouces.; Hull; and in Norfolk and Suffolk: *5-6.*

631 variabilis *Leach.* — *Ste. M.* ii. 107. pl. xiii. f. 4. — Narrow, rather oblong and flat: black or pitchy-brass; thorax slightly shining, with 2 very much approximating lines on the disc, which is faintly punctated; elytra not tuberculated at the base, the disc sometimes pitchy, faintly punctate-striate, the 3d marginal interstice slightly elevated and punctulate; body pitchy beneath; legs and antennæ reddish. (L. ¾-1 l.) Carlisle; Spitchweek; Netley; Edinburgh: *5-6.*

632 lacustris *Spence.* — *Ste. M.* ii. 107. — Short, ovate; red, or pitchy-brass: thorax wide and glossy, with 2 elevated lines slightly approaching in front; elytra not tuberculated at the base; punctate-striated, the 3d marginal interstice elevated; disc glossy, margin opaque; legs and antennæ reddish. (L. ½-¾ l.) Near Hull; Norwich; banks of Teviot: *5.*

633 fluviatilis *Ste. M.* ii. 107. — Short, ovate, brassy-black; thorax with 2 approximating lines, the disc flattish; elytra not tuberculated at the base, brassy, faintly punctate-striate, the 3 lateral striæ elevated; body pitchy; antennæ, tibiæ, and tarsi reddish. (L. ⅝ l.) Norfolk: *5.*

634 rugosus *Loud. M. N. H.* (*Babing.*) v. 329. — *Ste. M.* v. 396. — Elongate-linear; black: antennæ and legs red: thorax with 2 longitudinal, slightly approximating lines; elytra punctate-striate, with the interstices rough, and a single elevated stria. (L. ¾ l.) Near Bath and London: *6.*

635 æneus *Ill. M.* (*Müll.*) v. 202. — *Ste. M.* ii. 108. — Ovate; blackish-brass, or bronzed; shining: thorax somewhat 4-drate, with a slight elevated line on each side, and a raised fold behind, connected with the lateral lines: elytra wider than the thorax, very convex, deeply punctate-striate, the alternate insterstices slightly elevated, the 6th acute: antennæ and tarsi reddish. (L. 1-1¼ l.) Surrey Canal; near Hatfield; Netley; on Menyanthes 3-foliata, Abbots' Ann.; Water of Dryfe, &c.: *5-6.*

636 Maugetii *Lat. G.* ii. 50. ? — *Ste. M.* ii. 108. — Ovate; black; shining; thorax with an elevated line at the base and on each side; elytra scarcely wider than the thorax, each with 3 raised lines and 8 punctate striæ; tarsi and antennæ reddish. (L. 1-1¼ l.) Clengre; near Norwich, &c.: *6.*

637 cupreus *Germ. M.* (*Müll.*) ii. 273. — *Ste. M.* v. 396. — Oval, coppery-black; antennæ fuscous: thorax with a transverse, oblique groove on each side behind; elytra punctate-striated, the alternate interstices slightly elevated. (L. ¾ l.) Near London, and Spitchweek, Devonshire; Hatfield; Water of Dryfe, &c.: *6.*

638 nitens *Germ. M.* (*Müll.*) ii. 273. — *Ste. M.* v. 396. — Oblong; brassy; antennæ yellowish: thorax very smooth, opaque: elytra rather glossy, punctate-striate, with the interstices smooth, and scarcely elevated. (L. ¾ l.) Near London.

110 Stenelmis *Dufour.*

639 parallelipipedus *Ill. M.* (*Müll.*) v. 200. — *Ste. M.* ii. 108. pl. xiii. f. 5. — Oblong, linear; flat; shining black; antennæ and legs reddish: thorax 4-drate, disc very glossy, with a curved line on each side, and a central impressed dot, margin much raised; elytra punctate-striate, the lateral striæ elevated, the 2d especially; interstices impunctate, and very glossy. (L. $\frac{5}{8}$ l.) Exeter; Manchester; Scotland: 5-7.

111 Georyssus *Latreille.*

640 pygmæus *Fab. E.* i. 133. — *Ste. M.* ii. 105. pl. xiii. f. 3. — Black; head opaque, front unequally rugged; thorax glossy, narrowed in front, dilated on the sides, disc with a transverse impression; elytra more glossy than the thorax, very convex, the shoulders prominent, the disc with large deep punctate striæ; interstices coriaceous; antennæ fuscous. (L. $\frac{3}{4}$-1 l.) Damp places near London, and in Suffolk and Norfolk; in the Annan, near Moffat: 5-6.

Fam. 13. HELOPHORIDÆ *Leach.*

cxii. Hydrochus *Ant.* 7-jointed, the 3 terminal joints forming an elongate compressed club, of which the last joint is long: *max. palpi* elongate, apical joint rather short; *lab.* moderate: *tho.* elongate 4-drate: *eyes* very prominent: *body* narrow: *legs* long and slender.

cxiii. Helophorus *Ant.* 9-jointed, 3 terminal joints forming a short club, with the last joint short: *palpi* all elongate, terminal joint of *max.* ovate; *tho.* transverse with longitudinal channels: *eyes* sessile: *body* somewhat ovate: *legs* moderate.

cxiv. Enicocerus *Ant.* 11-jointed, the basal joint long, 2d cup-shaped, 2 next minute, the 5 terminal ones forming a club: *labrum* large, notched: *max. palpi* shorter than the *head*, which is 3-angular: *eyes* slightly prominent: *tho.* somewhat heart-shaped: *elytra* wide, ovate.

cxv. Ochthebius *Ant.* 9-jointed, the last 5 composing a club: *max. palpi* rather long, terminal joint minute, conic; *lab.* short: *head* large: *eyes* scarcely prominent: *tho.* short, entire, rather dilated on the sides: *body* elliptic: *legs* short.

cxvi. Amphibolus *Ant.* 7-jointed, the last 5 composing an elongate club: *max. palpi* shorter than the thorax, the apical joint short: *head* large: *eyes* prominent: *tho.* dilated on the sides: *elytra* ovate, large, covering the abdomen: *legs* short.

cxvii. Hydræna *Ant.* 7-jointed, the last 4 forming an oval club: *max. palpi* very long, longer than the head and thorax together; terminal joint fusiform; *lab.* moderate, apical joint subulated: *labrum* notched: *tho.* somewhat 4-drate: *elytra* short, not covering the abdomen: *legs* rather long.

112 Hydrochus *Germar.*

641 elongatus *Fab. E.* i. 277. — *Ste. M.* ii. 110. — *Cur.* viii. pl. 359. — Pitchy-black, sometimes tinted with brassy: head advanced, roughly punctate; thorax deeply punctured, with 5 foveæ; elytra deeply punctate-striate, interstices narrow, the 2d and 3d partly, and the 4th, 6th and 8th entirely elevated, the 2d and 4th most acutely; legs and antennæ pitchy. (L. 1$\frac{3}{4}$-2 l.) Battersea fields; Wandsworth, &c.: 4-5. Netley; Spitchweek; Norfolk and Dumfriesshire, &c.: 4-6.

642 angustatus *Müller.* — Hy. crenatus *Ste. M.* ii. 110. — Brassy, or greenish-black, shining: head advanced, with 3 deep frontal sulci; thorax thickly punctured, with 5 foveæ; elytra much wider than the thorax, deeply

crenate-striated, the intermediate interstices slightly elevated; legs and antennæ pitchy-red. (L. 1½-1¾ l.) Ripley; Ockham Heath; Hertford; banks of Orwell; Netley, &c.: 4-5.

643 brevis *Herbst C.* v. 141. pl. 49. f. 10. — *Ste. M.* ii. 110. — Short, somewhat ovate; deep glossy black: head broad, truncate; thorax wider in front than behind, roughly punctate and with 5 foveæ; elytra dilated on the sides; deeply punctate-striate; the alternate interstices, the suture, and the margin elevated; legs and antennæ pitchy-black. (L. 1¼-1½ l.) Near Bristol; Netley; Whittlesea Mere; near Craigcrook: 5-7.

113 Helophorus *Illiger.*

644 grandis *Ill. K.* i. 272. — He. aquaticus *Ste. M.* ii. 111. — *Stu. D. F.* x. pl. 219. f. *A.* —Oblong: head and thorax brassy, the latter narrowed behind, with its lateral margins waved, and its disc with 5 grooves; elytra griseous, with a few obscure dusky spots, punctate-striate, the interstices somewhat equal, the alternate ones being very obscurely striated, the 2d stria short; legs yellowish; palpi and antennæ testaceous. (L. 2-3 l.) Common in ponds, &c. everywhere: ⊙, ✶.

645 aquaticus *Lin.* ii. 575. — *Herbst.* v. pl. 49. f. 7. — Oblong-ovate: head and thorax brassy; the latter with 5 grooves, the inner lateral ones flexuous; elytra dull testaceous, rather brassy, deeply punctate-striated; legs and antennæ pale reddish. (L. 1½-1¾ l.) London district: ⊙, ✶.

646 granularis *L.* ii. 663. — *Ste. M.* ii. 111. — Oblong-ovate; head and thorax brassy, the latter with 5 grooves, the inner lateral ones flexuous; elytra dull testaceous, with obscure black spots, disc very deeply punctate-striate; legs, palpi, and antennæ pale testaceous. (L. 1⅓-1¾ l.) London district, and in Scotland: ⊙. ✶.

647 griseus *Herbst.* v. 143. pl. 49. f. 12. — *Ste. M.* ii. 112. — Oblong: head and thorax coppery-green, shining, the latter with the sides nearly straight and oblique, the disc with 5 grooves, the inner lateral ones flexuous, the anterior margin and the sides whitish; elytra punctate-striate, pale testaceous, clouded with fuscous; legs, palpi, and antennæ pale. (L. 1¼-1⅝ l.) London district; Edinburgh, &c.: ⊙, ✶.

648 dorsalis *Marsh.* i. 410. — *Ste. M.* ii. 112. pl. xiv. f. 1. — Oblong: head and thorax brassy-green, the sides of the latter straight, palish, the disc with 5 grooves, of which the inner lateral one is curved outwardly; elytra dilated behind the middle, punctate-striate, pale testaceous, with a large common dusky patch behind, in which are 2 reddish spots; legs, palpi, and antennæ pale. (L. 1½-2¼ l.) London district; Norf.; Suff.; Devon; Kimpton; Marton: 3-6.

649 viridicollis *Kirby.* — *Ste. M.* ii. 112. — Short, broad: shining brassy-brown; thorax brassy-green, the sides rounded, disc with 5 irregular grooves; elytra brassy-black, very deeply punctate-striate, interstices faintly elevated; antennæ, legs, and palpi pale reddish. (L. 1¼ l.) Near London, and in Norf. and Suff.: 4-6.

650 pumilio *Erich. K.* i. 197. — Oblong-ovate; convex: head and thorax brassy, the sides of the latter rounded, the disc with 5 grooves, the inner lateral one slightly flexuous; elytra dull testaceous, punctate-striate, the interstices slightly elevated; antennæ, palpi, and legs dull reddish-yellow. (L. 1¼-1½ l.) London district, rare: 5.

651 nanus *Stu. D. F.* x. 40. pl. 219. f. 6. — Oblong-ovate; convex: head and thorax brassy; the latter with 5 straight grooves; elytra dull testaceous, and deeply punctate-striate; interstices convex: legs and antennæ pale. (L. 1⅓ l.) Rare, near London: 5.

§ B. Empleurus *Hope.*

652 tuberculatus *Gyll.* i. 129. — *Ste. M.* ii. 113. — Dull-black: thorax slightly convex, with 5 very obscure grooves, rather widest in front, sides nearly straight, oblique; elytra blackish, punctate-striate, the 3 alternate dorsal interstices with several shining elevated tubercles; legs black; palpi and antennæ brown. (L. $1\frac{1}{4}$-$1\frac{1}{2}$ l.) Near Southend: 4-6.

653 nubilus *Oliv. E.* iii. 6. pl. 1. f. 2. — *Ste. M.* ii. 113. — Ovate; testaceous brown: thorax widest in front, the disc rather convex, punctate, and with 5 grooves, the sides nearly straight and oblique; elytra with scattered brown clouds, punctate-striate, the alternate interstices elevated, the ridges obscurely crenulated; antennæ, legs, and palpi testaceous, tip of the latter dusky. (L. $1\frac{3}{4}$-2 l.) London district; Dorset; Hants; Carlisle; near Edinburgh, &c.: 3-6.

654 fennicus *Pk. F.* i. 243. — *Ste. M.* ii. 113. — *Cur.* x. pl. 466. — Dusky-rust-colour: thorax with the lateral margins waved, the disc ruggedly punctured, with 5 grooves, the 4 outer ones more or less flexuous; elytra griseous, punctate-striate, 2d stria abbreviated, the alternate interstices elevated, smooth, with some raised black spots on the ridges behind: legs, palpi, and antennæ pale. (L. $2\frac{1}{4}$-$2\frac{3}{4}$ l.) Battersea fields; Leith Hill; Ripley; Hatfield; Netley; Dover; Isle of Thanet; Carlisle; Pentland Hills; Norfolk, &c.: 3-6.

114 Enicocerus *Stephens.*

655 viridiæneus *Ste. M.* ii. 196. pl. xv. f. 6. — Coppery or greenish, shining: head and thorax slightly punctured; the former with a frontal groove and 2 impressions on the crown; the latter with 2 small foveæ and an oblique stria on each side; elytra deeply punctate-striate; legs dusky-pitchy; joints and tarsi sometimes black. (L. $1\frac{1}{2}$-$1\frac{3}{4}$ l.) Near Halifax; and in White-adder River, near Berwick-upon-Tweed; Water of Leith, &c.; under stones: 3-9.

656 Gibsoni *Cur.* vii. pl. 291. — *Ste. M.* v. 379. — Like En. viridiæneus, but the thorax more depressed, and much more strongly punctured, with 6 anterior impressions and the oblique striæ broad and oval. (L. 1-$1\frac{1}{8}$ l.) With the preceding species.

657 tristis *Cur.* fo. 291. — *Ste. M.* v. 379. — Also like En. viridiæneus, but black, the thorax less punctured, and the anterior impressions scarcely visible. (L. 1-$1\frac{1}{8}$ l.) Taken with the 2 foregoing insects, of 1 of which it is probably a var.

115 Ochthebius *Leach.*

658 marinus *Pk. F.* i. 245. — *Ste. M.* ii. 114. — Glossy, brassy-green: head and thorax punctured; the latter with 2 transverse curved impressions on the disc, which is rather high, and an obscure bent fovea on each side; elytra punctate-striate, slightly tinted with greenish-brass, the tip paler; body black; legs and antennæ pale. (L. $\frac{3}{4}$-1 l.) Brackish waters, Hull; Southend, &c.: 5-6.

659 dilatatus *Leach.* — *Ste. M.* ii. 114. — Dusky-brass: head and thorax punctured; the latter with the sides very much dilated anteriorly, the disc with a longitudinal channel, terminating behind in 2 rather faint impressions placed transversely, the hinder angles with a curved fovea; elytra rather convex, somewhat deeply punctate-striate; body dusky beneath; legs pitchy; antennæ and palpi pale. (L. $\frac{7}{8}$-$1\frac{1}{4}$ l.) London; Spitchweek; Woodlands; Swansea; Netley; Parley Heath, &c.: 5-7.

660 pygmæus *Fab. E.* i. 278. — *Ahr. F.* viii. f. 7. — *Ste. M.* ii. 115. — Brown-brass; head with a transverse line and 2 frontal foveæ; thorax

truncate in front, sides rounded, deeply punctured, with a short dorsal channel, and a bent fovea on each side; elytra ovate, brassy-brown, with the tip reddish, finely punctate-striate: legs rusty-red; antennæ and palpi pale, with dusky tips. (L. $\frac{7}{8}$-1$\frac{1}{4}$ l.)

Var. Hy. impressus *Marsh.* i. 408. — *Ste. M.* ii. 115. — Black; thorax with a very deep and large impression on each side at the base; legs testaceous. London district; Bottisham; Southend, &c.: 3-6.

661 bicolon *Kirby.* — *Ste. M.* ii. 115. — Brassy-black: head punctured, with 2 or 3 foveæ on the crown; thorax with a deep dorsal channel, 2 deepish foveæ on each side near the base, the margins flattish, rough, and reddish; elytra rather convex, coarsely punctate-striate; legs and antennæ pale testaceous. (L. $\frac{7}{8}$-1 l.) Near London; W. of England; Norfolk; Suffolk; and Scotland: 4-6.

662 rufimarginatus *Ste. M.* ii. 116. — Wide, broad; pitchy-black: head faintly punctured, with 2 or 3 foveæ on the crown; thorax with a bent impression on each side near the base, the lateral margins broadly red; elytra convex, deeply crenate-striate; legs, antennæ, and palpi red, or reddish. (L. $\frac{7}{8}$-1 l.) Near London and Netley: 4-6.

663 nanus *Ste. M.* ii. 116. — Black, obscure: head and thorax slightly glossy, the former smooth in front, with 2 foveæ on the crown; thorax with a faint dorsal channel, and 2 minute foveæ on each side near the base; elytra slightly punctate-striate, punctures remote; legs, antennæ, and palpi testaceous. (L. $\frac{1}{2}$-$\frac{3}{4}$ l.) Southend: 5.

664 æratus *Ste. M.* ii. 116. — Brilliant glossy coppery-brass: crown rough, with 3 foveæ; thorax smooth, with several foveæ on each side of the dorsal channel, the margin flat, with a fovea anteriorly; elytra obscurely punctate-striate; legs testaceous; antennæ and palpi pale, the tips dusky. (L. $\frac{3}{4}$ l.) Near London and Swansea: 5-6.

665 æneus *Waterhouse.* — *Ste. M.* v. 397. — Pitchy-brass; shining: thorax with the sides dilated, and a deep punctured fovea towards the anterior angle; elytra considerably dilated, pale pitchy-brass, faintly punctate-striate; antennæ and legs pitchy-red. (L. 1 l.) Putney Heath: 5.

666 pusillus *Waterhouse.* — *Ste. M.* v. 397. — Elongate, narrow; deep black, and glossy: thorax with the sides dilated and slightly punctured; elytra faintly punctate-striate; antennæ and legs pitchy. (L. $\frac{3}{4}$ l.) Near London: 4.

667 punctatus *Ste. M.* ii. 117. pl. xiv. f. 2. — Rather elongate; glossy brass; pubescent: crown with 2 deep foveæ; thorax with a central channel and 4 impressions on each side, the two lateral ones connected by an arched stria; the anterior and posterior margins whitish; elytra minutely punctured, not striate; legs, antennæ, and palpi testaceous, tips of latter and the tarsi dusky. (L. 1$\frac{1}{2}$ l.) Near Bristol, and Netley: 5.

668 hibernicus *Cur.* vi. pl. 250. — Dull copper, sometimes with a blackish tinge, slightly pubescent: crown with 3 foveæ; thorax with the anterior margin and posterior angles membranous and transparent, with a deep dorsal channel between 2 long foveæ on the back, and a large depression on each of the angles; elytra with deep scattered punctures, not striated: legs dull red, tips of tarsi pitchy. (L. 1 l.) Near Belfast; Liverpool; and London: 5-6.

116 Amphibolus *Waterhouse.*

669 † atricapillus *Ent. M.* (*Water.*) i. 292. — *Ste. M.* v. 398. — Pitchy-testaceous, with a metallic tinge: head black, punctate behind; thorax densely punctured, with 4 larger impressions; elytra punctate-striate; antennæ, palpi, and legs pale tawny. (L. $\frac{7}{8}$ l.) Hebden Bridge.

117 HYDRÆNA *Kugellan.*

670 elongata *Curtis.* — *Ste. M.* v. 398. — Narrow; shining black: antennæ and palpi pitchy-red; legs black, the joints and tarsi red; elytra very narrow, punctate-striate, the suture slightly elevated. (L. $1\frac{1}{4}$ l.) Near London: 4-6.

671 gracilis *Müller.* — *Ste. M.* v. 398. — Elongate; shining black: antennæ and legs red; elytra narrow, deeply punctate-striate; head oblong. (L. $1\frac{1}{4}$ l.) Near London: 4-6.

672 riparia *Kugellan.* — *Ste. M.* ii. 117. and v. 399. — Somewhat linear, shining black; head rather elongate, punctate between the eyes, the latter not very prominent; thorax thickly punctured, with a longitudinal impression on each side towards the outer margin; elytra linear-elongate, pitchy, distinctly punctate-striate; antennæ, palpi, and legs pitchy. (L. $1\frac{1}{8}$-$1\frac{3}{8}$ l.) London and Hebden Bridge; plentiful in Scotland: 4-6.

673 melanocephala *Ent. M.* (*Water.*) i. 294. — *Ste. M.* v. 399. — Rather broad, testaceous: head black, deeply punctured; thorax very short, the sides densely punctured, the disc with 4 foveæ; elytra rather wide, ovate, delicately punctate-striate; antennæ, legs, and palpi pale testaceous, the tips of the latter black. (L. 1 l.) Near London and Netley: 4-6.

674 concolor *Ent. M.* (*Water.*) i. 292. — *Ste. M.* v. 399. — Somewhat linear; pale testaceous: head rather small, punctate between the eyes, which are not very prominent; thorax broad, densely punctate; elytra elongate, distinctly punctate-striate. (L. $1\frac{1}{4}$ l.) Hebden Bridge: 4-6.

675 pulchella *Müller.* — *Germ. I. N.* i. 94. — *Ste. M.* v. 399. — Somewhat linear; black: thorax with the anterior and posterior margins pitchy, the disc with an obscure channel, and the sides each with a longitudinal groove; elytra oblong-ovate, pitchy, punctate-striate; antennæ and legs pitchy. (L. $1\frac{3}{4}$ l.) Near London: 4-6.

676 nigropicea *Ent. M.* (*Water.*) i. 294. — *Ste. M.* v. 399. — Pitchy-black: head densely punctate; thorax short, also densely punctate, and with 4 foveæ; elytra oblong-ovate, somewhat truncate at the tip, punctate-striate, the striæ rather confluent; antennæ, legs, and palpi testaceous-red. (L. 1 l.) Near Epping and London: 4-6.

677 testacea *Cur.* pl. 307. — *Ste. M.* v. 400. — Pale pitchy-testacous: head black, densely punctate; thorax rather narrow, deeply and coarsely punctate, and depressed towards the angles; elytra deeply punctate-striate: palpi pale testaceous, and very slender and long, with the tip black. (L. $\frac{7}{8}$ l.) Battersea Fields; near Epping and Halifax: 4-6.

678 nigrita *Müller.* — *Ste. M.* v. 400. — Hy. pusilla *Ste. M.* ii. 118. pl. xiv. f. 3. — Black; opaque: thorax short, densely punctured, and with a longitudinal groove on each side towards the margin; elytra short, ovate, very delicately punctate-striate; antennæ, palpi, and legs pale testaceous-red. (L. $\frac{3}{4}$ l.) Near London; Netley; Carlisle: 4-6.

679 fulvipes *Ste. M.* v. 400. — Deep black: thorax narrow, rough, with 4 foveæ: elytra obtuse, delicately punctate-striate; legs and palpi bright tawny-red. (L. $\frac{7}{8}$ l.) Near London: 4-6.

680 pygmæa *Ent. M.* (*Water.*) i. 295. — *Ste. M.* v. 400. — Pitchy-brown: head black; thorax broad in front, narrowed behind, with 6 foveæ; elytra short, ovate, and densely punctured. (L. $\frac{5}{8}$ l.) Near London: 4-6.

681 minutissima *Gyll.* i. 136.? — *Ste. M.* ii. 118. — Ovate, pitchy-black: thorax convex, with a slight channel in the middle, and a minute fovea on each side; elytra convex, ovate, smooth, glossy, the apex pale; legs, antennæ, and palpi pale. (L. $\frac{1}{2}$ l.) Near London: 4-6.

Fam. 14. HYDROPHILIDÆ *Leach.*

cxviii. Limnebius *Ant.* 8-jointed, the 6 terminal joints forming a club : *max. palpi* much longer than the antennæ : *eyes* not prominent : *body* slightly depressed : *elytra* truncate at the apex : *sternum* simple : *tibiæ* and hinder *tarsi* not ciliated.

cxix. Hydrophilus *Ant.* 9-jointed, 2d joint conic, 4 terminal joints forming a club, of which the last joint is acuminated : *labrum* entire : *mand.* toothed within : *sternum* much elevated, acute behind : *elytra* narrowed behind : 4 hinder *tarsi* greatly compressed and ciliated : *claws* bifid : ♂ with last joint of *anter. tarsi* dilated.

cxx. Hydræchus *Ant.* 9-jointed, 2d joint conic, 3 terminal joints forming a club, of which the last joint is obtuse : *labrum* notched ; *mand.* bifid at the apex and ciliated within : *sternum* terminating in an acute spine, not extending beyond the insertion of the hinder legs : *elytra* wide behind : 4 *hinder tarsi* compressed and ciliated : ♂ with *anter. tarsi* single.

cxxi. Spercheus *Ant.* 6-jointed, the 5 terminal joints forming a cylindrical club : *clypeus* notched ; *labrum* transverse 4-drate : *maxillæ* with outer lobe very long, slender, setose at tip : *body* wide, very convex : *sternum* simple : *tibiæ* angulated, smooth ; *tarsi* with 4 basal joints short, apical one very long.

cxxii. Berosus *Ant.* 8-jointed, the 3 terminal joints forming an obtuse club : *labrum* entire : *eyes* very prominent : *tho.* convex : *elytra* globose, much wider than the thorax, striated : *sternum* simple : *post. tibiæ* and *tarsi* ciliated, the latter compressed.

cxxiii. Hydrobius *Ant.* 9-jointed, 2d joint conic ; the 4 terminal joints forming a club, with its tip acute : *max. palpi* with terminal joint longer than the preceding : *labrum* faintly notched : *eyes* sessile : *tho.* as wide at the base as the *elytra* ; the latter obtuse, striated : *sternum* simple, carinated : *body* slightly elongate, convex : *post. tarsi* scarcely compressed, ciliated.

cxxiv. Philhydrus *Ant.* 9-jointed, 2d joint somewhat conic, the 4 terminal joints forming a rather acute club : *labrum* entire : *max. palpi* much longer than the antennæ, with the terminal joint shorter than the preceding : *body* oblong, convex : *tho.* as wide as the *elytra*, which are not striated : *scutellum* small : *post. tarsi* ciliated.

cxxv. Laccobius *Ant.* 8-jointed, 2d joint conic, the 3 last forming an acute club : *max. palpi* with the 2 terminal joints a little elongate, and nearly equal : *body* somewhat globose : *elytra* rather glabrous, their sides nearly in continuity with those of the thorax ; punctate : *post. tibiæ* not ciliated ; *tarsi* slender, ciliated.

cxxvi. Chætarthria *Ant.* 9-jointed, 2d joint globose ; with a rigid bristle on one side, 2 next minute, setose, the 3 terminal ones forming an elongate ovate, pilose club, with the penultimate joint large : *palpi* short ; the terminal joint large, obtusely conic, preceding joint small : *body* very gibbous ; *sternum* simple : *post. tarsi* ciliated.

118 Limnebius *Leach.*

682 ater *Ste. M.* ii. 119. pl. xiv. f. 4. — Ovate-obtuse : deep glossy black, with the lateral margins of the thorax and of the elytra paler, or reddish ; thighs pitchy, tibiæ and tarsi paler : immature specimens are chestnut above. (L. 1-1¾ l.) London district ; Swansea ; Devon ; Halifax ; Dorset ; &c. : ⊙.

683 affinis *Ste. M.* ii. 120. — Oblong-ovate, slightly narrowed behind ; glossy black, with the margins of the thorax and of the elytra concolorous ; the apex of the latter rounded ; thighs black ; tibiæ and tarsi reddish. (L. 1½-1¾ l.) Near London : 4-6.

684 truncatellus *Fab. E.* i. 255. — *Ste. M.* ii. 120. — Hy. parvulus *Herbst.* viii. pl. 114. f. 10. — Short, ovate, obtuse behind: deep black, very smooth and glossy, with the lateral margins of the thorax and of the elytra concolorous; legs pitchy; palpi reddish. (L. 1-1¼ l.) London; Netley; Norfolk; Suffolk: 4-6.

685 marginalis *Ste. M.* ii. 120. — Short, ovate: glossy black; with the hinder angles of the thorax and lateral margins of the elytra pitchy-testaceous; the tip of the latter sometimes reddish; legs pitchy. (L. 1 l.) London; Netley; Devonshire: 4-6.

686 nigrinus *Marsh.* i. 77. — L. nigricans *Ste. M.* ii. 121. — Oblong-ovate, obtuse: black, slightly glossy, smooth; the lateral margins of the thorax and of the elytra concolorous; legs and antennæ pitchy: sometimes pitchy-testaceous, with the legs and antennæ paler. (L. ¾-1⅛ l.) Near London; Kimpton; Bottisham; Dorset; &c.: 4-6.

687 lutosus *Marsh.* i. 407. — *Ste. M.* ii. 121. — Oblong-ovate; dusky black, or brown, shining; elytra very obsoletely punctate-striate; legs pitchy; thorax rough, with transverse flexuous elevated lines. (L. ¾ l.) Near London?

688 mollis *Marsh.* i. 407. — *Ste. M.* ii. 121. — Ovate, slightly narrowed behind; rather convex, black, shining: thorax, elytra, and legs testaceous-brown, the lateral margins of the former palest. (L. ½ l.) Near London; Bottisham: 4-6.

689 picinus *Marsh.* i. 407. — *Ste. M.* ii. 121. — Ovate, narrowed behind, slightly convex, shining piceous; the margins of the thorax rather paler; legs pale testaceous or reddish. (L. ½ l.) Near London?

690 nitidus *Marsh.* i. 407. — *Ste. M.* ii. 122. — Ovate, flattened; glossy black, with the margins of the thorax, and the legs pale red, or pitchy. (L. ½-¾ l.) Near London: 4-6.

119 Hydrophilus *Geoffroy.*

691 piceus *L.* ii. 664. — *Cur.* v. pl. 239. — *Ste. M.* ii. 122. — Olive-black, the edges of the elytra with a purplish or greenish tinge: the disc of the latter with 8 simple striæ, the alternate interstices with a continuous row of irregular punctures, deepest towards the apex; abdomen deep black, with dull testaceous marginal spots; legs pitchy; antennæ reddish; club dusky. (L. 1 in. 4-8 l.) Ponds in brick-fields, Chelsea; Copenhagen-fields; Camberwell; at Ealing; Paddington; Croydon Canal; Bottisham Fen; Whittlesea and Yaxley Meres; Newcastle; Dorset; &c.: 3-6.

120 Hydræchus *Stephens.*

692 caraboides *L.* ii. 664. — *Cur.* iv. pl. 159. — *Ste. M.* ii. 123. — Ovate; shining black; sometimes tinted with violet or greenish: head punctured on the sides; thorax the same, and with 2 oblique punctate foveæ on the disc in front; elytra with 5 punctate striæ, the 2 lateral ones somewhat confluent, and between each stria 2 obtuse lines of punctures; tibiæ and tarsi pitchy; antennæ and palpi dull-red, the club of the former black. (L. 8-10 l.) London district; Whittlesea Mere, &c.: ⊙, ✶.

121 Spercheus *Fabricius.*

693 emarginatus *Fab. E.* i. 248. — *Ste. M.* ii. 124. — *Cur.* ix. pl. 394. — Dusky; rather opaque: head blackish, flat; thorax pitchy-brown, the sides pale; elytra coarsely and irregularly punctate-striate, the alternate interstices somewhat elevated, especially behind; ashy-brown, with scattered dusky spots; body dusky beneath; legs dull red, or pitchy, tibiæ and tarsi paler; palpi and antennæ pale testaceous, club of the latter

dusky. (L. 3-3½ l.) Kensington Gardens; Windsor; York; Yaxley Fen; adhering to roots of aquatic plants: 6-7.

122 BEROSUS *Germar.*

694 luridus *L.* ii. 665. — *Pz. F.* vii. f. 3. — *Ste. M.* ii. 125. — Oblong-ovate; griseous-yellow; punctate; head brassy-green; thorax with a brassy-green spot on the disc of a squarish form, rather narrowed in front; elytra crenate-striate, some dots on the striæ, and spots on the interstices, blackish; legs pale, the base of the 4 hinder thighs and the tips of the tibiæ and tarsi dusky. (L. 2¼-2¾ l.) London district; Southend; Cambridge; Norfolk; Suffolk; Devonshire; Swansea, &c.: 4-6.

695 æriceps *Spence.* — *Cur.* pl. 240 ♀. — *Ste. M.* ii. 126. — Ovate; convex; ochreous-yellow; punctulated: head brassy, or coppery-black; thorax with 2 parallel brassy- lines on the disc (rarely united), divided by a dull red streak; elytra very globose, deeply crenate-striate, the interstices punctured, and more or less spotted with dusky, or black: legs pale, the 4 hinder dusky at the base. (L. 2½-3 l.) Wandsworth Common; Southend; Bottisham; Norfolk, and Devonshire: 4-6.

696 globosus *Curtis* fo. 240. — *Ste. M.* ii. 126. pl. xiv. f. 5. — Rather oblong-ovate, obtuse; greenish-yellow; deeply punctured: head brassy-black (sometimes with a dull red frontal spot); thorax with an irregular, outwardly toothed, greenish- or brassy-black spot on the disc, having a short longitudinal dull red ridge in front; elytra deeply crenate-striate, striæ dusky, the interstices more or less spotted with black; legs dull red; 4 hinder dusky at the base. (L. 2½ l.) Hertford; Whittlesea Mere; Bottisham: 4-7.

§ B. ENOPLURUS *Hope.*

697 spinosus *Ahr. F.* iii. f. 5. — *Ste. M.* v. 400. — Black, above griseous; punctured: thorax sometimes with 2 obscure dusky clouds, placed transversely: elytra with irregular blackish clouds, punctate-striate, the outer margin towards the apex with an acute, short, straight spine. (L. 2½-3 l.) Salt marshes near Lyndhurst: 4-6.

123 HYDROBIUS *Leach.*

698 oblongus *Herbst.* vii. 300. pl. 113. f. 10. — Hy. picipes *Ste. M* ii. 127. — Hy. chalconotus *Cur.* vi. pl. 243. — Oblong; deep pitchy-black, or slightly brassy; shining, and very thickly punctured: thorax with 2 shallow foveæ on the disc; elytra very obsoletely punctate-striate, punctures remote; legs pitchy; tibiæ and tarsi reddish. (L 3½-4 l.) Banks of Thames below Gravesend; Whittlesea Mere; Lake of Killarny: 4-6.

699 fuscipes *L.* ii. 664. — *Pz. F.* lxvii. f. 13. — *Ste. M.* ii. 128. — Oval; pitchy-black; very glossy, very thickly punctured, sides of the head and thorax with some large punctures: elytra punctate-striate, the alternate interstices with deeper punctures; legs pitchy-brown; tarsi red: legs sometimes pale red, with base of the thighs dusky. (L. 3¼-3½ l.) London district; Bristol; Southend; Dorset; Scotland: 4-6.

700 chalconotus *Leach.* — *Ste. M.* ii. 128. — Oval; coppery- or brassy-black, sometimes purplish, or green-brass; coarsely punctured: elytra crenate-striate; legs pitchy-testaceous, tarsi paler, and base of the thighs dusky. (L. 3-3½ l.) London district; Spitchweek; Bottisham, &c.: 4-6.

701 subrotundus *Ste. M.* ii. 128. — Short, somewhat globose; pitchy-black; coarsely and thickly punctured: elytra deeply punctate-striate, the alternate interstices with deeper punctures; body beneath dull black; legs pitchy-black. (L. 2½-2¾ l.) Near London: 4-6.

124 PHILHYDRUS *Solier.*

702 melanocephalus *Fab. E.* i. 253. — *Ste. M.* ii. 129. — Hy. 4-punctatus

Herbst. vii. pl. 114. f. 4.? — Oval, convex; above testaceous, finely punctured: head and disc of thorax black, the former with a pale crescent before each eye, the latter with 2 small black spots towards the margin; elytra with a dusky spot on the shoulder, and a deep sutural stria; legs pale dull red, thighs mostly pitchy-black. (L. 2-3 l.) London district; Bottisham; Southend; Norfolk; in Scotland, &c.: 4-5.

703 testaceus *Fab. E.* i. 252. — *Ste. M.* ii. 129. — Hy. grisescens *Stu. D. F.* x. pl. 217. f. 8. — Oblong-ovate, moderately convex; black; above testaceous; very much punctured: crown black; elytra with a deep sutural stria: legs pale. (L. 2-3¼ l.)

Var. Hy. torquatus *Marsh.* i. 405. — *Ste. M.* ii. 129. — Thorax with an obscure brown cloud on the disc; the base of the elytra rather mottled with dusky.

Var. Hy. ochropterus *Marsh.* i. 409. — *Ste. M.* ii. 130. — Black, with the sides of the thorax and the elytra lurid-ochreous; and a lurid spot before each eye. London district; Southend; Norfolk; in Scotland, &c.: 4-6.

704 fulvus *Marsh.* i. 408. — *Ste. M.* ii. 130. — Oblong-ovate; black; punctured: head tawny, crown sometimes dusky; eyes black; thorax tawny, disc cloudless; elytra spotless, with obscure longitudinal dusky lines, and a deep sutural stria; legs testaceous; thighs dusky. (L. 2½-2¾ l.) London district; Southend; Dorset, &c.: 4-6.

705 lividus *Forst. C.* i. 52. — *Ste. M.* ii. 130. — Hy. chrysomelinus *Pz. F.* lxvii. f. 15. — Oblong-ovate, flattish; above pale griseous-yellow, very thickly and finely punctured: crown rather dusky; disc of thorax sometimes clouded with the same; elytra without a sutural stria; body dusky-black beneath; legs reddish; thighs dusky; palpi very long; tips black. (L 2½-3 l.) London district; Bottisham; Kimpton; Southend; Norfolk: 4-6.

706 marginellus *Fab. E.* i. 252. — *Herbst.* viii. pl. 114. f. 2. — *Ste. M.* ii. 131. — Oblong-ovate, flattish; very thickly punctured: shining black, with the outer margins of the thorax and of the elytra dull testaceous, the latter with a sutural stria; body beneath and legs dull black; tarsi reddish; palpi and antennæ pale testaceous, club of the latter dusky. (L. 1½-2 l.) London district; Southend; Kingston-upon-Hull; Suffolk: 4-6.

707 affinis *Pk. F.* i. 185. — *Ste. M.* ii. 131. — Oblong-ovate, flattish; black; very thickly punctulated: thorax black, the lateral margins broadly testaceous-brown; elytra obscure testaceous-brown, the suture darker, and with a single stria; thighs dull black; tibiæ and tarsi dull red: sometimes the thorax and elytra are wholly pale testaceous. (L. 1½-2 l.) London district; Southend: 4-6.

708 atricapillus *Marsham.* — *Ste. M.* ii. 131. pl. xiv. f. 6. — Somewhat globose; black; very thickly punctulated: head with a bent tawny spot on each side; thorax and elytra spotless lurid testaceous, the latter with a deep sutural stria, and very obscurely punctate striate towards the tip; palpi and antennæ testaceous, club of the latter dusky. (L. 2-2½ l.) Hertford; Ripley; Wandsworth Common; Copenhagen fields; Norwich; Southend; Lawrence Waltham: 4-5.

125 LACCOBIUS *Erichson.*

709 minutus *L.* ii. 593.? — Hy. bipunctatus *Fab.* — *Pz. F.* lxvii. f. 14. — *Ste. M.* ii. 132. — Somewhat globose; finely punctulated; black: head and disc of thorax brassy, the former with 2 pale spots in front; elytra pale griseous, obscurely irrorated with fusci, and thickly punctate-striate: legs pale. (L. 1¼-1½ l.)

Var. Hy. striatulus *Fab. E.* i. 254. — *Ste. M.* ii. 133. — Rather larger (1¾ l.), the punctures and the striæ in the elytra less deep, and the latter

scarcely clouded with dusky. London district; Bottisham; Southend; Norfolk; Suffolk; Scotland, &c.: ⊙.

710 Colon *Ste. M.* ii. 133. — Somewhat globose; black; finely punctulated: head with 2 minute pale spots; thorax with the lateral margin pale yellowish; elytra dusky, or pale brownish, faintly punctate-striate, the disc darkest, with 2 round whitish spots towards the apex, the outer margins and sometimes the base pale; legs pale. (L. 1¼-1½ l.) Near London; New Forest; Bottisham: 4-6.

711 bipustulatus *Marsh.* i. 406. — *Ste. M.* ii. 133. — Somewhat globose; glossy black: head with 2 tawny spots; thorax testaceous, with 3 more or less united dusky spots on the disc, the sides pale yellowish; elytra testaceous, clouded with obscure black lines, with a single sutural stria; legs red. (L. 1¼-1½ l.) London district; Andover; Bottisham; Norfolk: 4-6.

712 Marshami. Hy. minutus *Marsh.* i. 406. — *Ste. M.* ii. 133. — Somewhat ovate; glossy pitchy-black, faintly punctulated: margins of the thorax and of the elytra pale testaceous, the disc of the latter with a single sutural stria: body beneath and legs pitchy-black. (L. 1⅓-1½ l.)

Var.? ochraceus *Ste. M.* ii. 134. — Thorax deeply punctured; elytra pale immaculate ochreous; body beneath and legs pale griseous. London district; Norfolk; Suffolk; Devons.; Bottisham, &c.: 4-6.

713 lutescens *Ste. M.* ii. 134. — Somewhat ovate; pitchy-black; head black; thorax with the anterior angles above (rarely the entire margin) pale testaceous; elytra obscurely punctured, with a faint sutural stria, the outer margins lutescent: body beneath and legs pitchy. (L. 1-1¼ l.) Near London, and in Suffolk: 4-6.

714 foveolatus *Ent. Tra.* (*Haw.*) i. 86. — *Ste. M.* ii. 134. — Somewhat globose; glossy-black: head immaculate; thorax with the sides pale, the disc with several minute foveolets, sometimes united; elytra pitchy-black, finely punctulated, with a faint sutural stria; legs dull red. (L. ¾-1 l.) Hampstead Heath, and London district: 4-6.

715 æneus *Steven.* — *Ste. M.* ii. 135. — Oval, convex; above densely and deeply punctured, of an obscure greenish-brass, rather glossy; beneath black: thighs pitchy; tibiæ, tarsi, and palpi dull red; antennæ pitchy-red. (L. 1½ l.) Wimbledon Common: 4.

716 limbatus *Fab. E.* i. 97. — Hy. minutus *Herbst.* vii. pl. 114. f. 8. — Hy. globulus *Ste. M.* 135. — Somewhat hemispheric; above dusky-black, very finely punctulated: thorax with the lateral margins broadly pale griseous; elytra gibbous, with the lateral margins and the apex more or less pitchy, and a simple sutural stria; legs brownish-red, or pitchy. (L. 1½-1¾ l.) Hampstead Heath; Wandsworth Common; Bottisham, &c.: 4-6.

126 Chætarthria *Waterhouse.*

717 Seminulum *Pk. F.* i. 190. — *Herbst.* vii. pl. 114. f. 11. — *Ste. M.* ii. 135. and v. 401. — Somewhat globose; black, shining, smooth: thorax with the lateral and hinder margins rounded; elytra with a faint sutural stria, the apex acute and dull pitchy; body beneath pitchy; legs pitchy-red; tibiæ compressed; ciliated with spines. (L. ¾ l.) Wimbledon Common; in Norfolk and Suffolk: 4-6.

Fam. 15. SPHÆRIDIIDÆ *Leach.*

cxxvii. Cyclonotum *Ant.* 9-jointed, club slightly imbricated: *maxillæ* with the lobes coriaceous: *palpi* robust: *mentum* with a central impression: *body* somewhat hemispheric: *scutellum* moderate: *elytra* punctate.

CXXVIII. CERCYON *Ant.* 9-jointed, *club* large, compact, imbricated: *maxillæ* with the lobes membranaceous: *palpi* slender, the terminal joint shorter than the 3d, narrowed at the apex: *mentum* broad, flat: *body* very convex: *scutellum* short: *elytra* striated: *tibiæ* compressed, setose.

CXXIX. SPHÆRIDIUM *Ant.* 8-jointed, *club* rather elongate, solid: *maxillæ* with their lobes membranaceous: *palpi* slender, the terminal joint as long as the 3d, slightly acuminated: *mentum* flat: *body* slightly convex: *scutellum* long: *elytra* not striated: *tibiæ* compressed, spinose: ♂ with *anter. tarsi* dilated.

127 CYCLONOTUM *Erichson.*

718 orbiculare *Fab. E.* i. 252. — *Pz. F.* lxvii. f. 13. — *Ste. M.* ii. 132. — Deep glossy black; thickly and regularly punctured throughout: lateral margins of the thorax sometimes a little pitchy; elytra with a single sutural stria; body clothed with an ashy pile beneath, legs pitchy-black. (L. 2-2½ l.) London district; Southend; Dorsetshire; Norfolk: 4-7.

128 CERCYON *Leach.*

719 ruficorne *Kirby.* — *Ste. M.* ii. 137. — Flat; black above and finely punctured: sides of thorax dilated, sometimes pitchy; elytra faintly punctate-striate, the lateral margins pitchy, the tip pale red; legs pitchy-black; tarsi paler; antennæ and palpi rusty-red. (L. 1¼-1½ l.) Damp meadows, London district; Southend; banks of Orwell; Suffolk; Portobello: 4-6.

720 littorale *Gyll.* i. 111. — *Ste. M.* ii. 145. — Rather flat; pitchy-black, very minutely punctured above: thorax pitchy, the margins dilated and paler; elytra finely striated, the striæ punctate, the tip pale, margins and an obscure spot near the scutel. reddish; legs chestnut; palpi and antennæ pitchy-red, club of latter dusky. (L. 1¼-½ l.)

Var. Ce. binotatum *Ste. M.* ii. 145. — Elytra of a pale lurid testaceous, or ochreous, with a brown spot near the suture towards the apex; or in addition a brown cloud at the base, and the suture dusky.

Var. Ce. dilatatum *Ste. M.* ii. 146. — Thorax and elytra pale testaceous, or ochreous. Damp meadows, London district; Barham; Southend; South Creek; Figget Whins, &c.: 4-8.

721 depressum *Ste. M.* ii. 146. — Flat; pitchy-black; finely punctured: thorax very glossy; its sides dilated and chestnut; elytra faintly punctate-striate, the striæ vanishing on the sides, which are pitchy-chestnut; the tip pale ochreous; antennæ and palpi reddish; club of former dusky. (L. 1-1¼ l.) Brockenhurst; Southend, in damp places, &c.: 4-6.

722 aquaticum *Kirby.* — *Ste. M.* ii. 146. — Convex; deep glossy black: head and thorax smooth; elytra obscurely punctate-striate, the tip dull rust-colour; legs pitchy-black or red; tibiæ rust-colour; palpi and antennæ reddish; club of latter dusky. (L. ½-⅔ l.) In water; near London and in Suffolk: 4-6.

723 flavipes *Fab. E.* i. 97. ? — *Ste. M.* ii. 139. — Convex; deep glossy black, minutely punctured above: elytra faintly striated, the sides reddish and tip broadly yellowish; legs bright chestnut-red; antennæ and palpi red. (L. ¼-1 l.) Near London; Norfolk and Suffolk: 4-6.

724 terminatum *Marsh.* i. 70. — *Ste. M.* ii. 139. — Rather convex; glossy black: elytra striated, the striæ prettily and thickly punctate, the tip with a large pale rusty spot, extending laterally almost to the base; antennæ and legs pitchy-red. (L. 1-1¼ l.) Near London: 4-6.

725 acutum *Kirby.* — *Ste. M.* ii. 139. — Convex, acute behind; deep glossy black: elytra faintly striated, the apex mostly concolorous, or with a minute reddish spot; legs, palpi, and antennæ pitchy-chestnut; club of the

latter sometimes rather dusky. (L. ½-¾ l.) Near London, and in Suffolk (in Agarics and Boleti): 4-6.

726 Calthæ *Scop.* No. 18. — *Ste. M.* ii. 139. — Slightly convex, obtuse behind; deep glossy-black; faintly punctured: elytra distinctly punctate-striate, the tip obscurely rust-coloured; legs, antennæ, and palpi pitchy-red. (L. 1 l.) In marshes, on flowers of Caltha palustris: 4-6.

727 bolitophagum *Marsh.* i. 72. — *Ste. M.* ii. 140. — Very convex, smooth, deep glossy black: elytra faintly and delicately striated, the interstices finely punctured, dusky, with the apex fuscous; antennæ and legs pitchy-red. (L. 1 l.) Near London (in Boleti): 4-6.

728 immune *Kirby.* — *Ste. M.* ii. 140. — Convex, shining-black, smooth: elytra very obsoletely striated, the striæ composed of minute punctures; interstices smooth; apex slightly pitchy; antennæ and legs rusty-red. (L. ¾-1 l.) Near London, and in Norfolk and Suffolk: 4-6.

729 lævigatum *Kirby.* — *Ste. M.* ii. 140. — Very convex, glossy black, smooth: elytra faintly striated, the striæ obscurely punctate, interstices smooth; apex pitchy or palish; legs and antennæ pitchy-red; club of the latter and palpi dusky. (L. 1-1⅛ l.) London; Hertford; Ripley; Norfolk; Suffolk; Newhaven, Scotland: 4-6.

730 apicale *Ste. M.* ii. 140. — Ovate, slightly convex; deep shining black; prettily and thickly punctured throughout: elytra deep pitchy, the apex chestnut; finely punctate-striated; femora black; tibiæ and tarsi chestnut-red; palpi pitchy. (L. ¾-1 l.) London: 4-6.

731 obsoletum *Gyll.* i. 107. — *Ste. M.* ii. 141. — Rounded-ovate, slightly flattened, deep black, finely punctured throughout: elytra faintly punctate-striate, the interstices flat; lateral margins towards the tip, and the tip itself, obscurely pitchy-red; legs reddish, thighs pitchy; palpi and antennæ pitchy; club of the latter dusky. (L. 1½-1¾ l.) Hampstead Heath; Hertford; Ripley; Bottisham; Netley: 4-6. In dung, like all the following species.

732 piceum *Marsh.* i. 69. — *Ste. M.* ii. 141. — Ovate, head and thorax black, very smooth and glossy: elytra pitchy, paler at the apex, minutely punctulated, the disc obscurely striated; legs wholly pitchy. (L. 1¼-1⅝ l.) Common near London; also in Norfolk; Suffolk; Cambridge; Scotland, &c.: 3-5.

733 picinum *Marsh.* i. 69. — *Ste. M.* ii. 141. — Somewhat ovate, very smooth and glossy: head and thorax black and spotless; elytra pitchy, with the apex concolorous, striated, the striæ composed of distinct punctures; abdomen testaceous-black; legs pitchy; antennæ black. (L. 1½ l.)

Var. Ce. simile *Marsh.* i. 68. — *Ste. M.* ii. 141. — Elytra entirely red; the legs chestnut-red; sides of thorax palish. Near London; in Suffolk and Cramond: 4-6.

734 suturale *Ste. M.* ii. 142. — Somewhat ovate, glossy, minutely punctured: head and thorax black; elytra slightly punctate-striate, interstices rather convex; disc chestnut-red, suture deep black, nearly to the apex; abdomen deep glossy black; legs reddish; thighs with a dusky cloud. (L. 1⅓-1½ l.) London and Norfolk; Scotland: 4-6.

735 laterale *Marsh.* i. 69. — *Ste. M.* ii. 142. — Rather ovate; very smooth: glossy pitchy, with the sides of the thorax paler, and tip of the elytra reddish; the latter obscurely punctate-striate, and deeply punctured; abdomen black; legs pitchy-red. (L. 1¼ l.) London; Bottisham; Netley; Southend; Scotland, &c.: 4-6.

736 hæmorrhoidale *Fab. E.* i. 96. — *Ste. M.* ii. 142. — Rather ovate, convex; deep glossy black, finely punctured: elytra rather faintly punctate-striate, the apex above bright chestnut-red; abdomen, antennæ, and legs black. (L. 1½ l.) Near London; in Suffolk; and in Scotland: 4-6.

737 femorale *Kirby.* — *Ste. M.* ii. 143 — Very convex; deep shining black; finely punctured: elytra pitchy-black, with the sides chestnut-red; the disc punctate-striate; thighs black; tibiæ and tarsi red. (L. 1¼ l.) Near London; and in Suffolk: 4-6.

738 hæmorrhoum *Gyll.* i. 107. — *Ste. M.* ii. 143. — Very convex, ovate, obtuse; deep glossy black: head, and especially the thorax, thickly punctured, the latter very gibbous; elytra punctate-striate, the interstices obscurely but thickly punctured; the tip with a distinct large pale red patch; suture at tip black; legs pitchy-black; tibiæ and tarsi paler. (L. 1½ l.)

Var. Ce. xanthorhœum *Leach.* — *Ste. M.* ii. 143. — Smaller, of a deeper black, with the apex of the elytra brighter; legs pitchy-black, with red tarsi. Common: London District; Norfolk; Suffolk; Devon; Bottisham; Netley; Southend, &c.: 4-6.

739 xanthocephalum *Kirby.* — *Ste. M.* ii. 143. — Very convex, ovate, finely punctured; deep shining black: head red; elytra faintly striated, the apex pitchy-red; legs pitchy-black; tibiæ and tarsi paler. (L. 1⅓ l.) Near London; and in Norfolk and Suffolk: 4-6.

740 infuscatum *Ste. M.* ii. 144. — Convex; deep obscure black: head and thorax thickly punctured, the latter gibbous; elytra faintly striated, interstices sparingly and finely punctured, and flattish; dull pitchy-black, the apex paler; legs wholly chestnut-red. (L. ¾ l.) Near London: 4-6.

741 impressum *Stu. D. F.* ii. 9. pl. 22. f. *A.* — *Ste. M.* ii. 144. — Ovate, shining deep black: elytra deep chestnut-red, with a large triangular black patch at the scutellum; disc rather deeply punctate-striate, interstices thickly punctured; legs bright chestnut-red; antennæ pale testaceous; palpi dusky. (L. 1½-1¾ l.) Near London; and in Hants: 4-6.

742 melanocephalum *L.* ii. 563 — *Herbst.* iv. pl. 37. f. 10. — *Ste. M.* ii. 144. — Oblong-ovate, shining: head and thorax deep black, punctured; elytra testaceous-red, with a large triangular black spot at the base, and another on each side on the outer angle, the disc finely and thickly punctured, and faintly punctate-striate; legs testaceous-red; antennæ and palpi dusky: thighs sometimes black. (L. ¾-1 l.) Abundant in meadows and pastures everywhere: 3-7.

743 conspurcatum *Stu. D. F.* ii. 15. pl. 22. f. *B.* — *Ste. M.* ii. 145. — Oblong-ovate; shining black: elytra pale testaceous-red, the base with a large common triangular black spot, and the lateral margin with an elongate black streak; the disc delicately punctate-striate, with the interstices finely punctured; legs, antennæ, and sometimes the palpi chestnut-red. (L. ⅓-¾ l.) Rare near London; common near Lyndhurst: 4-5.

744 crenatum *Pz. F.* xxiii. f. 3. — C. atomarium *Ste. M.* ii. 145. — Ovate; black; obscure; thickly punctured: palpi and antennæ pitchy; elytra broad, dilated on the sides, slightly flattened, striated, the striæ deeply crenate-punctate, interstices thickly punctated, the tip slightly reddish; legs rusty-red; thighs sometimes pitchy. (L. ½-¾ l.) Abundant in London district: 4-6.

745 sordidum *Marsh.* i. 69. — *Ste. M.* ii. 145. — Ovate; dull pitchy: head black; thorax pitchy-black, punctulated; elytra pitchy-red, punctate-striate, interstices finely punctured; breast black; abdomen rusty-red; legs pitchy; antennæ black; red at the base. (L. 1 l.) London district: 4-6.

746 convexius *Kirby.* — Ce. convexium *Ste. M.* ii. 145. — Rounded, ovate; deep obscure black, punctured: elytra opaque, the tip slightly edged with pitchy; finely punctate-striated, interstices impunctate; legs and antennæ pitchy-chestnut; palpi dusky. (L. ½-⅞ l.) London district: 4-6.

747 convexior *Marsham.* — *Ste. M.* ii. 146. — Oblong-ovate; deep glossy black; finely punctured: elytra deeply punctured, striate, interstices slightly elevated, the apex chestnut-red; thighs and tibiæ pitchy, the latter palest, or reddish; tarsi, antennæ, and palpi red. (L. $\frac{1}{2}$-$\frac{7}{8}$ l.) Near London, and Scotland: 4-6.

748 convexiusculum *Marsham.* — *Ste. M.* ii. 146. — Oblong-ovate, slightly convex; deep shining black: head and thorax finely punctured; elytra faintly punctate-striate, interstices flat and obsoletely punctured, apex pitchy; legs dull red, femora dusky; club of antennæ and the palpi black. (L. $\frac{3}{4}$ l.) Near London: 4-6.

749 nigrinum *Marsham.* — *Ste. M.* ii. 146. — Slightly convex; black, with a brassy tinge above: elytra very faintly striated, the interstices obsoletely punctured, the tip concolorous; antennæ and legs dull black. (L. $\frac{3}{4}$ l.) Near London?: 4-6.

750 immaculatum *Kirby.* — *Ste. M.* ii. 147. — Ovate; convex; glossy pitchy-black: thorax pitchy, thickly punctured; elytra immaculate pitchy-black, obscurely striated, interstices faintly punctulated; legs pitchy; antennæ and palpi reddish. (L. $\frac{3}{4}$ l.) Near London, and in Suffolk: 4-6.

751 stercorator *Kirby.* — *Ste. M.* ii. 147. — Minute: oblong-ovate; deep glossy-black: elytra pitchy at the tip, very obsoletely striated, interstices thickly punctulated; thighs pitchy-black; tibiæ, tarsi, and base of antennæ reddish; club of latter and palpi dusky. (L. $\frac{5}{12}$-$\frac{1}{2}$ l.) Near London, and in Suffolk: 4-6.

752 merdarium *Stu. D. F.* ii. 26. pl. 22. f. 8.? — *Ste. M.* ii. 147. — Oblong-ovate; rather shining: head and thorax deep black, spotless; elytra the same, with the tip pitchy, rather faintly striate, the interstices obscurely punctured; legs, antennæ, and palpi entirely deep black. (L. $\frac{1}{2}$ l.) London district, and Roxburghshire: 4-6.

753 pygmæum *Ill. K.* i. 104. — *Ste. M.* ii. 148. — Minute: ovate, black, shining: head and thorax punctulated; elytra thickly punctured, and rather faintly striated, dull chestnut with the base darkest; thighs pitchy; tibiæ and tarsi red. (L. $\frac{1}{2}$ l.) Near London; common: 4-6.

754 erythropum *Kirby.* — *Ste. M.* ii. 148. — Minute: ovate, black: head and thorax pitchy-black, minutely punctured; elytra pitchy-chestnut, the apex red; faintly striated, interstices finely punctured; legs wholly red. (L. $\frac{1}{2}$ l.) Near London, and in Norfolk and Suffolk: 4-6.

755 lugubre *Fab. E.* i. 96.? — *Ste. M.* ii. 148. — Very minute: ovate, black: thorax with lateral margins faintly pitchy; elytra glossy pitchy-black, the apex more or less reddish, convex, punctate-striate, interstices nearly smooth; legs, palpi, and antennæ dull red. (L. $\frac{5}{12}$-$\frac{1}{2}$ l.) London district; Norfolk; Suffolk, &c.: 4-6.

756 minutum *Fab. E.* i. 98. — *Ste. M.* ii. 148. — Ovate; black: thorax with sides concolorous; elytra faintly punctate-striate, the apex smooth and pitchy, interstices very faintly punctulated; legs pitchy or deep black; sometimes reddish. (L. $\frac{1}{2}$-$\frac{3}{4}$ l.) Common near London: 4-6.

757 obscurum *Marsh.* i. 72. — *Ste. M.* ii. 149. — Ovate; dull pitchy, shining: thorax with the sides reddish; elytra flattish, very obsoletely striated, pitchy with the tip red; legs pitchy; palpi dusky; antennæ pale red, the club dusky. (L. $\frac{7}{12}$ l.) Near London: 4-6.

758 contaminatum *Kirby.* — *Ste. M.* ii. 149. — Ovate, very convex, slightly narrowed behind: head pitchy-black; thorax rather glossy, pitchy-black, with the sides dull reddish in front; elytra very obsoletely striate, interstices impunctate, deep pitchy-chestnut, with the tip paler; legs, antennæ, and palpi chestnut-red. (L. $\frac{7}{12}$ l.) Near London; in Suffolk and Norfolk: 4-6.

759 concinnum *Marsh.* i. 74. — *Ste. M.* ii. 149. — Ovate, shining: head and thorax black, anterior and lateral margins of the latter testaceous; elytra deep pitchy-testaceous, faintly punctate-striate, interstices impunctate; legs, antennæ, and palpi red. (L. $\frac{2}{3}$-$\frac{3}{4}$ l.) Near London; and in Suffolk and Norfolk: 4-6.

760 ferrugineum *Marsh.* i. 74. — *Ste. M.* ii. 149. — Ovate, glossy; entirely of a deep rusty-red: elytra punctate-striated; legs, antennæ, and palpi pale testaceous-red. (L. $\frac{3}{4}$-1 l.) London district: 4-6.

761 stercorarium *Marsham.* — *Ste. M.* ii. 150. — Ovate, very convex; deep glossy black: head and thorax spotless; elytra gibbous, faintly punctate-striated, interstices punctate, deep black, with the apex concolorous; legs, antennæ, and palpi red. (L. $\frac{2}{3}$-$\frac{3}{4}$ l.) London; Suffolk; Norfolk; Devon, &c.: 4-6.

762 fuscescens *Ste. M.* ii. 150. — Oblong-ovate, slightly depressed and shining: head black; thorax pitchy-black, the sides broadly testaceous; elytra somewhat fuscescent, the outer edge pitchy, apex pale, faintly punctate-striate, interstices smooth; antennæ, palpi, and legs pale. (L. $\frac{1}{2}$ l.) Near London: 4-6.

763 immundum *Stu. D. F.* ii. 25. pl. 22. f. *E.* — *Ste. M.* ii. 150. — Ovate, convex, broad, glossy chestnut-brown: margins of the thorax paler; elytra pale chestnut, faintly striated, the interstices very obsoletely striated transversely; antennæ, legs, and palpi pale chestnut-red. (L. $\frac{1}{2}$-$\frac{3}{4}$ l.) Near London: 4-6.

764 nigriceps *Marsh.* i. 72. — *Ste. M.* ii. 151. — Ovate, shining: head black; thorax with the disc black, margins entirely pitchy, or dull-red; elytra pale rust-colour, faintly punctate-striate, the interstices convex, punctured; body deep black beneath; antennæ and legs dull-red; palpi luteous. (L. $\frac{1}{2}$-$\frac{3}{4}$ l.)

Var. atricapillum *Marsh.* i. 72. — *Ste. M.* ii. 151. — Disc of thorax immaculate testaceous-red; abdomen the same.

Var. atriceps *Kirby.* — *Ste. M.* ii. 151. — Head very deep black; thorax bright glossy pitchy-red; elytra reddish, rather distinctly punctate-striate; club of antennæ pale. Near London, and in Suffolk: 4-6.

765 læve *Marsh.* i. 73. — *Ste. M.* ii. 151. — Ovate, slightly shining, deep chestnut, with the head nearly black; elytra punctate-striate, interstices slightly elevated and impunctate; antennæ, legs, and palpi pale chestnut. (L. $\frac{7}{12}$ l.) Near London?: 4-6.

766 testaceum *Kirby.* — *Ste. M.* ii. 152. — Minute: ovate, slightly glossy; the entire body deep pitchy-testaceous, with the head rather darkest; elytra obsoletely striated; legs, palpi, and base of antennæ pale testaceous, club of the latter dusky. (L. $\frac{1}{3}$ l.) Suffolk and Norfolk: 4-6.

767 inustum *Marsh.* i. 76. — *Ste. M.* ii. 152. — Ovate, shining: head black; thorax black, with red margins; elytra striated, testaceous, with a 3-angular common brown patch at the base, and a large brown spot on the disc behind the middle; legs and antennæ testaceous. (L. 1 l.) Near London; and South Creak, Norfolk: 4-6.

768 ustulatum *Kirby.* — *Ste. M.* ii. 152. — Oblong-ovate, shining black: head and thorax immaculate; elytra striated, testaceous, each with an irregularly defined ustulated cloud on the disc towards the apex; legs pitchy-black; antennæ testaceous. (L. 1 l.) Near London; in Suffolk, and Scotland: 4-6.

769 bimaculatum *Ste. M.* ii. 152. — Oblong-ovate, shining: head black; thorax the same, with concolorous margins; elytra testaceous, striated, interstices slightly convex and faintly punctulated, each with a round deep black spot near the suture towards the apex; body pitchy-black beneath; legs black; antennæ and palpi pale testaceous. (L. 1 l.) London: 4-6.

770 quisquilium *L.* ii. 558. — *Herbst.* iv. pl. 37. f. 10. — *Ste. M.* ii. 153. Oblong-ovate, shining black, punctured: thorax with the sides pale, the border evident in the ♀; elytra pale yellowish, faintly punctate-striate, spotless in the ♂, with a large common somewhat heart-shaped black patch on the suture a little beyond the middle in the ♀; legs pale rust-colour. (L. ¾-1¼ l.)

Var. ♀? — Ce. flavus *Marsh.* i. 71. — *Ste. M.* ii. 153. — The elytra pale spotless yellow. (L. 1⅓ l.) London district; Norfolk; Scotland, &c.; 3-6. ✶.

771 scutellare *Ste. M.* ii. 153. — Minute: short, ovate, slightly glossy: head and thorax black; elytra pale testaceous, with an elongate-triangular black spot at the base on the suture, common to both, punctate-striate; legs, palpi, and antennæ pale yellowish; club of the latter dusky. (L. ½ l.) Near London: 6.

772 nubilipenne *Ste. M.* v. 401. — Pitchy-red, glossy, faintly punctured: elytra obscurely punctate-striate, paler than the thorax, with a round brown cloud in the centre of each; legs and antennæ pale pitchy-red. (L. ¾ l.) Near London: 6.

129 Sphæridium *Fabricius.*

773 Scarabæoides *L.* ii. 563. — *Pz. F.* vi. f. 2. — *Ste. M.* ii. 154. — Black, shining; finely and thickly punctulated: thorax with its lateral margins concolorous; elytra with a blood-red terminal spot, and a yellowish one at the apex: legs testaceous, variegated with fuscous. (L. 2½-3½ l.)

Var. Sp. lunatum *Fab. E.* i. 93. — *Ste. M.* ii. 156. — Elytra without the anterior red spot; the outer edge red.

Var.? Sp. Daltoni *Kirby.* — *Ste. M.* ii. 156. — Elytra spotless, the outer margin slightly edged with reddish towards the apex: legs pitchy; thighs with a black patch. Throughout the South of England; in Suffolk, and in Yorkshire: 4-7.

774 marginatum *Fab. E.* i. 93. — *Ste. M.* ii. 156. — *Cur.* xi. pl. 518. — Black, shining; punctulated: outer margins of the thorax and of the elytra testaceous-yellow; legs dull red, with a black band on the thighs. (L. 2-2½ l.)

Var. De. 4-maculatum *Marsh.* i. 66. — *Ste. M.* ii. 155. — Elytra with a round pale red spot at the base, and a paler one at the apex; thighs with a black spot.

Var. Sp. lunulatum *Kirby.* — *Ste. M.* ii. 155. — Elytra with a testaceous-yellow spot at the apex alone. London district; Devonshire; Norfolk; Suffolk; Scotland, &c.: 4-7.

775 bipustulatum *Fab. E.* i. 93.? — *Ste. M.* ii. 155. — Deep shining black; finely punctulated: elytra with a more or less obscure rounded reddish humeral spot, and a fainter lunate one at the apex, the outer margin very finely edged with testaceous, and the disc at the base very obscurely striate: legs pitchy, with the thighs testaceous at the base. (L. 2½-3 l.) London district: 4-7.

Fam. 16. ANISOTOMIDÆ *Stephens.*

cxxx. Phalacrus *Ant.* remote, club 3-jointed, tip acute: *palpi* short, filiform: *head* small: *tho.* gibbous: *body* broadly ovate, very convex: *elytra* entire: *tibiæ* not spinous; *tarsi* slender, 3d joint bilobed.

cxxxi. Ephistemus *Ant.* approximating at the base; club 3-jointed, tip obtuse: *palpi* not filiform; *max.* with terminal joint elongate, subulate: *head* exposed, minute: *tho.* slightly gibbous: *elytra* entire: *body* elongate, ovate, narrowed at each end: *tibiæ* not spinous: *tarsi* simple.

cxxxii. Alexia *Ant.* with basal joint large, swollen without; club 3-jointed, obovate, villose: *palpi* with terminal joint thick, obtuse: *head* large, deflexed: *tho.* short, deeply notched in front: *elytra* ample, narrowed behind, entire: *body* very convex: *legs* short.

cxxxiii. Leiodes *Ant.* long, remote; club 5-jointed, its 2d joint minute, terminal large: *palpi* nearly filiform: *head* small, exposed: *tho.* transverse: *body* ovate, convex, glabrous: *elytra* margined, entire: *tibiæ* compressed, spinous externally: 4 *anter. tarsi* 5-jointed, slightly dilated in ♂, 2 *poster.* 4-jointed: hinder *thighs* dentate, and *tibiæ* bent in ♂.

cxxxiv. Agathidium *Ant.* short; club 3-jointed, subovate: *palpi* filiform: *head* very broad, inflexed: *body* globose, hemispheric; contractile into a ball: *elytra* entire, the sides inflexed; *tibiæ* setose; *tarsi* 4-jointed, simple.

cxxxv. Clambus *Ant.* slender, pilose, the 2 last joints large, oblong, forming a club: *head* very wide, rounded in front: *tho.* transverse, the sides expanded: *body* broadly ovate, depressed behind, contractile into a ball: *elytra* rounded at the apex: *tibiæ* slightly pilose; *tarsi* 4 or 5-jointed.

cxxxvi. Corylophus *Ant.* slender; club 3-jointed, ovate, compressed: *head* small, concealed beneath the anter. margin of *thorax*, the latter semi-oval, pubescent: *elytra* obtusely rounded at the tip: *body* ovate, somewhat flat: *tarsi* 6-jointed, the hinder pair with last joint long.

cxxxvii. Orthoperus *Ant.* short, club 2-jointed: *head* minute, narrow, exposed: *tho.* ample, subovate, slightly convex: *elytra* rather convex, somewhat ovate, slightly truncate at the apex: *tibiæ* simple.

cxxxviii. Sericoderus *Ant.* elongate, slender; club 3-jointed, elongate: *head* small, concealed beneath the anter. margin of the *thorax*, which last is wide, somewhat 3-angular and silky: *body* somewhat convex, a little depressed behind, silky: *elytra* distinctly truncate at the apex.

130 Phalacrus *Paykull.*

776 æneus *Pk. F.* i. 65. — *Pz. F.* ciii. f. 3. — *Ste. M.* ii. 159. — Oblong-ovate; greenish-brass, extremely glossy, rather narrowed behind: elytra with 2 faint striæ towards the suture, not reaching to the base; body beneath pitchy; legs pitchy-black; antennæ dusky, the base dull red. (L. ¾-1 l.) Near London, common; Scotland: ⊙, ✶.

777 ovatus *Marsh.* i. 76. — *Ste. M.* ii. 160. — Oblong-ovate; shining brassy-black; narrowed behind: thorax obscurely punctured; elytra with 2 deep striæ parallel with the suture, and several faint ones on the rest of the surface, interstices finely punctured; antennæ, palpi, and legs pitchy. (L. ¾ l.)

Var. ? Ph. cognatus *Ste. M.* ii. 160. — Ovate; not narrowed behind; deep black, with a brassy tinge: legs, antennæ, and palpi pitchy-black. Near London, and South of Scotland; 4-6.

778 corticalis *Ill. K.* i. 40. — *Stu. D. F.* ii. pl. xxx. f. *A.* — *Ste. M.* ii. 160. — Oblong-ovate; pitchy-testaceous: the head, thorax, suture, apex, and lateral margins of the elytra pitchy-black; disc of elytra faintly punctulated, and with 2 short faint striæ near the suture; eyes black; antennæ reddish. (L. 1-1½ l.) London district; Ravelstone Wood, near Edinburgh; Kimpton, &c.: 4-6.

779 striatus *Ste. M.* v. 402. — Oblong-ovate, narrowed behind; brassy-black, shining: elytra distinctly striated; the disc pale chestnut behind; antennæ, palpi, and legs reddish. (L. ¾ l.) Kimpton: 4-6.

780 coruscus *Pk. F.* iii. 438. — *Ste. M.* ii. 161. — Short, ovate, very convex; deep glossy black: head and thorax obscurely punctured; elytra nearly impunctate, with a stria near the suture, not reaching to the base; legs black, clothed with ashy pile; antennæ with terminal joint very acute: head pitchy beneath. (L. 1-1¼ l.)

Var. ? Ph. picipes *Kirby.* — *Ste. M.* ii. 161. — Striæ on the elytra extending from base to apex; legs and antennæ pitchy-black. London district, On ranunculus (fl.); Devonshire: 4-6.

781 substriatus *Gyll.* iii. 428. — *Ste. M.* ii. 161. — Short, ovate, very convex; deep glossy black: elytra impunctate, regularly but faintly punctate-striate, the striæ not reaching to the base; legs pitchy-black, with an ashy pile; antennæ black, the terminal joint obtuse. (L. 1 l.) London; Suffolk; Swansea; Norfolk: 4-6.

782 nigrinus *Ste. M.* ii. 162. — Rather elongated, and depressed; black, slightly shining and tinged with brassy; impunctate: elytra with a very obscure short stria near the suture; legs black. (L. 1 l.) Near London; New Forest; Swansea: 4-6.

783 Caricis *Stu. D. F.* ii. 80. pl. xxi. f. *D.* ? — *Ste. M.* ii. 162. — Ovate; slightly depressed, rather obtuse behind; very deep glossy black; impunctate: elytra obscurely striated, the striæ composed of delicate punctures; body beneath, legs, and antennæ deep black. (L. $\frac{3}{4}$-1 l.) On Carex acutus, near London, and in Devonshire: 4-6.

784 Millefolii *Pk. F.* iii. 439. ? — *Ste. M.* ii. 162. — Short, ovate, slightly convex; deep glossy black, beneath pitchy: head and thorax impunctate; elytra very slightly narrowed behind, finely punctate-striated, the striæ rather deep; legs pitchy-black; antennæ black, the terminal joint rather acute. (L. $\frac{3}{4}$-1$\frac{1}{4}$ l.) On Achillea millefolium (fl.) near London, and Halesworth: 4-6.

785 Achillææ *Marsham.* — *Ste. M.* ii. 162. — Oval; pitchy-black, with a brassy tinge: head and thorax extremely smooth and glossy; elytra with a single stria near the suture; body dusky-pitchy beneath; legs pitchy; antennæ black. (L. $\frac{3}{4}$ l.) On Achillea millefolium (fl.) near Barham; at Bristol, &c.: 6.

786 æneo-piceus *Kirby.* — *Ste. M.* ii. 163. — Short, ovate, convex; pitchy-brass; very glossy: head and thorax impunctate; elytra with a faint sutural stria; body dull pitchy beneath; legs and antennæ pitchy-red. (L. 7$\frac{7}{12}$-$\frac{3}{4}$ l.) Near London, and in Norfolk and Suffolk: 5.

787 bicolor *Pk. F.* iii. 439. — *Ste. M.* ii. 163. — Oblong-ovate; very glossy black: head and thorax smooth; mouth reddish: elytra narrowed at the apex, with 2 striæ near the suture, uniting near the tip; a little within the latter is a dull red spot, sometimes very large, at others almost vanishing; body beneath, legs, and antennæ dull testaceous-red. (L. $\frac{3}{4}$-1 l.) Near London, on flowers: 5-6.

788 affinis *Stu. D. F.* ii. 76. pl. xxxi. f. *A.* — *Ste. M.* ii. 163. — Ovate; deep pitchy-black, glossed with brassy; impunctate: elytra with the apex reddish, or yellowish, and faintly punctate striate on the disc; body beneath, legs, and antennæ pale reddish-yellow. (L. $\frac{7}{8}$ l.) Near London: 6.

789 Leachiellus *Ste. M.* ii. 163. — Oblong-ovate; deep fuscous, very glossy: head and thorax smooth, nearly black; elytra blackish brown, with the apex testaceous, with a single obscure stria near the suture; antennæ and legs testaceous; body pitchy-red beneath. (L. 1 l.) Near London and Bristol: 4-6.

790 flavicornis *Stu. D. F.* ii. 78. pl. 21. f. *B.* — *Ste. M.* ii. 164. — Ovate; glossy black, shining: head and thorax smooth; elytra with a single stria near the suture, the apex concolorous, or faintly pitchy; body beneath and legs dull red, the latter with a chestnut tinge; antennæ pale reddish yellow. (L. 1-1$\frac{1}{8}$ l.) London and Bristol: 4-6.

791 Stephensii *Leach.* — *Ste. M.* ii. 164. — Rather elongate-ovate, of a deep shining brown, tending to chestnut, and slightly tinted with brassy;

the under parts pitchy: head and thorax smooth; elytra with the apex pale, or pitchy-red, with a very faint short stria near the suture; antennæ and legs pale testaceous. (L. $\frac{3}{4}$-12 l.) London; Lambeth; Hertford, &c.: 4-5.

792 rufipes *Ste. M.* ii. 164. — Short, ovate, somewhat obtuse; shining testaceous-brown: thorax pitchy-brown, the margin pale testaceous; elytra short, broad, pitchy-brown, with the tip pale testaceous, near the suture a faint stria; legs pitchy-red; antennæ and body beneath pale testaceous. (L. $\frac{3}{4}$ l.) Near London and Bristol, and in Scotland: 4-6.

793 geminus *Stu. D. F.* ii. 75. — *Ste. M.* ii. 165. — Ovate; testaceous-brown, very glossy: head reddish-chestnut, mouth pale; eyes black; thorax chestnut, with pale sides; elytra with the apex more or less yellowish, with a faint stria near the suture, and one or more very obscure rudimentary ones towards the shoulders; antennæ and legs pale testaceous. (L. $\frac{3}{4}$-1$\frac{1}{4}$ l.) In Scotland: 4-6.

Var. ? De. consimilis *Marsh.* i. 75. — *Ste. M.* ii. 165. — Ovate; deep rusty-brown, very glossy: head chestnut brown, mouth pale; eyes black; thorax with a narrow pale margin; elytra moderately convex, with a faint stria near the suture and an obscure one towards the shoulders. Near London; and in Devonshire; Norfolk; and at Swansea.

794 piceus *Knoch.* — *Ste. M.* ii. 165. — Short, ovate, obtuse behind; pitchy-brown, shining: head and thorax smooth; the former palish in front, and the sides of the latter concolorous with the disc; elytra deep pitchy-brown, the apex faintly paler, with a stria towards the suture alone; body beneath pitchy; antennæ and legs testaceous-red. (L. $\frac{3}{4}$-1 l.) Near London, and in Devonshire: 4-6.

795 Ulicis *Kirby.* — *Ste. M.* ii. 166. — Obovate, convex, slightly narrowed behind; glossy black; pitchy beneath: elytra smooth, with 2 faint striæ towards the suture, not extending to the base, and on the disc in certain lights some obscure rudimentary ones; legs pitchy-black, or reddish-brown; antennæ reddish at the base, dusky at the tip. (L. $\frac{1}{2}$-$\frac{5}{8}$ l.) On furze, near London, and in Suffolk and Norfolk: 4-6.

796 pygmæus *Stu. D. F.* ii. 84. pl. 32. f. *C.* — *Ste. M.* ii. 166. — Oblong-ovate; deep black, slightly glossy: elytra with the apex reddish, with 2 or 3 faint short striæ at the base near the suture; body beneath and legs pale pitchy-brown; antennæ dusky. (L. $\frac{1}{2}$ l.) Near London: 4-6.

797 piceorrhœus *Marsh.* i. 78. — *Ste. M.* ii. 166. — Oblong-ovate, slightly convex, and a little narrowed behind; smooth, shining black: elytra with a large somewhat 3-angular, more or less, pitchy or flavescent patch at the apex, not striated; legs pitchy-red, or pitchy; antennæ pale testaceous, the club dusky. (L. $\frac{1}{2}$-$\frac{5}{8}$ l.) Near London; Bristol; Norfolk; Suffolk: 4-6.

798 pulchellus *Marsh.* i. 72. — *Ste. M.* ii. 167. — Ovate; glossy: head and thorax black, the anterior edge of the latter slightly distinct; elytra chestnut brown, with the tip paler, smooth, not striated; legs and antennæ pale red. (L. $\frac{1}{3}$ l.) Near London; Raehills: 4-6.

799 nitens *Marsh.* i. 79. — *Ste. M.* i. 167. — Rather oblong; black, shining: head and thorax immaculate; elytra faintly striated, pitchy black, with the apex paler; legs dull red; antennæ dusky, or black. (L. $\frac{2}{3}$ l.) Suffolk; Norfolk: 4-6.

131 EPHISTEMUS *Westwood.*

800 Gyrinoides *Marsh.* i. 77. — *Ste. M.* ii. 168. — Shining, glabrous; black; impunctate: mouth testaceous; anterior margin of the thorax slightly

tinged with chestnut: elytra very convex; wide in front, narrowed behind, the tip obscurely edged with pitchy; antennæ and legs pale testaceous. (L. $\frac{1}{2}$ l.) London; Hertford; Swansea; Cramond, &c.: 4-8.

801 nigriclavis *Ste. M.* ii. 168. — Shining, glabrous; black; impunctate: mouth pitchy; thorax wholly black: elytra deep pitchy-black, with the apex rather paler; legs testaceous-red; antennæ pale testaceous, the club dusky. (L. $\frac{1}{2}\frac{5}{8}$ l.) London and New Forest: 4-6.

802 confinis *Ste. M.* ii. 169. pl. 15. f. 2. — Glossy black, slightly pubescent: mouth testaceous: thorax with the anterior margin narrowly edged with chestnut: elytra glabrous, impunctate, dark pitchy-black, with the tip more or less chestnut; antennæ and legs chestnut. (L. $\frac{1}{2}$ l.)

Var.? Ep. Histeroides *Westwood.* — *Ste. M.* ii. 169. and v. 402. — Putney; Bristol; Hertford, &c.: 4-6.

803 nitidus *Ste. M.* v. 402. — Pitchy-black; shining; elytra darker, impunctate; antennæ and legs pitchy-red. (L. $\frac{1}{3}$ l.) Near London.

132 Alexia *Stephens.*

804 pilifera *Germ. M.* (*Müll.*) iv. 207. — *Ste. M.* v. 402. — Somewhat globose, oval; testaceous-red; densely clothed with a fine erect, long, whitish pile above: elytra punctured; thorax with a dusky central cloud. (L. $\frac{3}{4}$ l.) New Forest: 6.

805 globosa *Stu. D. F.* ii. 82. pl. 32. f. *A.* — *Ste. M.* ii. 166. and v. 402. — Somewhat orbiculate, slightly convex; reddish-brown, or dull chestnut; shining; impunctate: elytra rather obtuse behind, not striated; legs pale reddish-yellow; antennæ the same at the base, dusky at the tip. (L. 1 l.) Near London: 5.

806 lævissima *Ste. M.* v. 402. — Deep black; extremely glossy and smooth: elytra deeply and somewhat regularly punctate; antennæ and legs pitchy; club of the former black. (L. $\frac{3}{4}$ l.) Near London and Bottisham: 5.

133 Leiodes *Latreille.*

807 punctata *Stu. D. F.* ii. 42. pl. 25. f. *A.* — *Ste. M.* ii. 170. — Elongate-ovate, testaceous-yellow, shining: head reddish; thorax with minute remote punctures; elytra coarsely and thickly punctured throughout, with an obscure stria near the suture; legs pale yellowish; antennæ reddish-yellow at the base, the 3 terminal joints dusky. (L. $1\frac{1}{4}$ l.) Near London: 4-6.

808 aciculata *Kunzé.* — *Ste. M.* ii. 170. — Short, ovate; pale testaceous: eyes black; head and thorax pale testaceous-red, impunctate; elytra somewhat chestnut, finely strigose transversely throughout, with a rather deep sutural stria and the merest rudiments of 1 or 2 others on the disc: hinder thighs with a minute tooth towards the apex. (L. $\frac{1}{2}$ l.) South Creek, Norfolk.; and Devonshire?; Cramond: 4-6.

809 dentipes *Gyll.* ii. 567.? — *Ste. M.* ii. 170. — Globose-ovate; testaceous-red, shining: eyes black; elytra finely punctate striate, interstices faintly strigose transversely; legs stout; hinder thighs in ♂ with a large acute tooth near the tip, and a smaller one about the middle; hinder tibiæ slightly bent; ♀ without the teeth and the hinder tibiæ straight: antennæ pale testaceous, the 8th joint scarcely smaller than the 7th. (L. $\frac{3}{4}$ 1 l.) Bank near Coombe Wood: 4-6.

810 Gyllenhalli *Ste. M.* ii. 197. — Le. brunnea. *Gyll.* ii. 566. — *Ste. M.* ii. 171. — Globose-ovate, slightly narrowed behind; red-brown: eyes and club of antennæ black; head and thorax impunctate; elytra regularly but finely punctate striate, the interstices faintly strigose transversely;

legs stout; antennæ rusty at the base, the 8th joint distinctly smaller than the 7th. (L. $\frac{3}{4}$ 1 l.) Darenth Wood: 6.

811 badia *Stu. D. F.* ii. 41. pl. xxiv. f. *E.* — *Ste. M.* ii. 171. — Globose-ovate; dark chestnut brown: head and thorax impunctate; eyes black; elytra finely punctate-striate, interstices impunctate; legs and antennæ entirely pale testaceous. (L. $\frac{3}{4}$-$\frac{7}{8}$ l.) Coombe Wood: 5.

812 pallens *Stu. D. F.* ii. 39. pl. xxiv. f. *B.* — *Ste. M.* ii. 171. — Oblong-ovate; pale testaceous or ochreous; with the under side and legs paler: eyes black; head and thorax impunctate; elytra punctate-striate, interstices smooth; antennæ with the club dusky. (L. 1 l.) Darenth Wood: 6.

813 multistriata *Gyll.* ii. 708. — *Ste. M.* ii. 172. — Oblong-ovate, shining ferruginous: head and thorax darker and finely punctured; elytra thickly punctured, the punctures disposed in striæ, the alternate rows being smallest, and the striæ rather confused on the shoulders; body beneath and legs testaceous; the latter palest, with the hinder tibiæ slightly bent; antennæ dull red, club dusky; eyes brown. (L. 1 l.) Hertford: 5-6.

814 punctatissima *Ste. M.* ii. 172. pl. 15. f. 3. — Oblong-ovate, rather flat, deep glossy black: thorax and elytra thickly, deeply, and confusedly punctate, the punctures on the latter forming irregular striæ, those on the sides producing wrinkles; thighs pitchy, hinder ones nearly black; tibiæ, tarsi, mouth, and 7 basal joints of antennæ testaceous. (L. 1 l.) Kimpton: 11.

815 castanea *Ill. K.* i. 77. — *Stu. D. F.* ii. pl. xxv. f. *C.* — *Ste. M.* ii. 173. — Oval; slightly narrowed behind; pitchy black; beneath rusty-red: head and thorax faintly punctured, sides of latter and of elytra reddish, disc of the latter thickly punctured, the larger punctures placed in irregular double striæ; legs and base of antennæ rusty-red, club of the latter dusky. (L. 1-1$\frac{1}{4}$ l.) Hertford; Rosslyn; Cramond: 5-7.

816 maritima *Rudd.*— *Ste. M.* v. 402. — Oblong-ovate; rusty-red; shining: eyes dusky; thorax impunctate; elytra deeply punctate-striate, the interstices sparingly punctured; legs pale red; antennæ with the club dusky. (L. 1$\frac{1}{2}$ l.) Shores of Tees, and near Edinburgh: 4-6.

817 punctulata *Gyll.* ii. 566. — *Ste. M.* ii. 173. — Globose-ovate; bright shining rust-colour; thickly punctured: head pitchy-black; thorax rusty-brown; elytra with the suture dusky, regularly punctate-striate, each interstice with a continuous row of minute punctures; breast and club of antennæ dusky; base of latter and legs pale testaceous. (L. 1-1$\frac{1}{2}$ l.) Hertford: 4-6.

818 Marshami *Ste. M.* ii. 173. — De. castaneus *Marsh.* i. 78. — Ovate, slightly flattened, very glossy: head and thorax deep fuscous, finely punctured; elytra chestnut, faintly punctate-striate, interstices obscurely punctured; antennæ and legs dusky. (L. 1 l.) Near London, and in Suffolk: 4-6.

819 thoracica *Ste. M.* ii. 174. — Globose-ovate; pitchy-chestnut, shining: thorax very globose and glossy, faintly punctured; elytra rather paler, deeply punctate-striate, interstices not punctate; body beneath and legs pale ferruginous; hinder thighs with a tooth at the apex, their tibiæ bent; antennæ dull red, with the club dusky. (L. 1-1$\frac{1}{4}$ l.) Coombe Wood; near Edinburgh: 4-6.

820 polita *Marsh.* i. 124. — *Ste. M.* ii. 174. — Globose-ovate; chestnut; very glossy, especially the thorax, which is minutely punctured; elytra deeply punctate-striate; interstices convex, with scattered punctures; legs and base of the antennæ red, club of latter dusky. (L. 1-1$\frac{1}{4}$ l.) Coombe Wood; Cramond, &c.: 4-6.

821 nigriclavis *Ste. M.* ii. 174. — Oblong-ovate; deep rusty-chestnut, shining: thorax deeply punctured, with 2 larger punctures in front; elytra faintly punctate-striate; interstices flattish and impunctate; body beneath pitchy; legs and antennæ testaceous, the club of the latter dusky. (L. 1½ l.) Near London: 4-6.

822 maxillosa *Kirby.* — *Ste. M.* ii. 175. — Rather oblong-ovate; testaceous, with the eyes brown and the abdomen reddish-fuscous; legs yellowish: mandibles prominent; thorax faintly punctured; elytra punctate-striate, interstices slightly convex and impunctate. (L. 1⅛ l.) Near London, and in Suffolk: 4-6.

823 testacea *Ste. M.* ii. 175. — Rather globose-ovate; pale testaceous: eyes black; head and thorax very thickly punctulate; elytra with the suture chestnut, the disc very faintly punctate-striate; the punctures minute, interstices flat and smooth; legs and base of antennæ pale, club of the latter dusky. (L. 1-1⅛ l.) Near Swansea; in Norfolk; and near Cramond: 4-6.

824 brunnea *Stu. D. F.* ii. 40. pl. xxiv. f. *D.*? — Sturmii *Ste. M.* ii. 175. — Somewhat globose-ovate; reddish-brown; shining: thorax impunctate; elytra punctate striate, interstices smooth; legs pale testaceous; antennæ reddish; club dusky. (L. 1 l.) Near London: 4-6.

825 ferruginea *Fab. E.* i. 99. — *Ste. M.* ii. 175. — Rather globose-ovate; shining rusty-red: head and thorax finely punctulate; elytra deeply punctate-striate, the interstices rather convex, the alternate ones with a row of minute punctures; legs stout; tibiæ very spinous; hinder pair slightly bent. (L. 1¼ l.) Cheltenham, 6; Norfolk; Devon; Musselburgh: 4-6.

826 Dillwynii *Ste. M.* v. 403. — Somewhat globose-ovate, shining rusty-red: head and thorax very thickly and rather deeply punctured; elytra finely punctate-striate, the interstices sparingly punctate; antennæ and legs pale red; eyes black. (L. 1⅛ l.) Swansea: 7.

827 rufipennis *Pk. F.* i. 70. — *Ste. M.* ii. 176. — Globose-ovate; pitchy-black; shining: thorax with the edges slightly reddish, the disc very faintly punctulate; elytra bright rusty-red, deeply punctate-striate, with a few remote punctures on the alternate interstices; abdomen pitchy-red; legs and base of antennæ dull red; club of latter black. (L. 1-1¼ l.) Coombe; Darenth; Hertford, &c.: 4-6.

828 arenaria *Rudd.* — *Ste. M.* v. 403. — Rather globose-ovate; pale rusty-red: head and thorax finely, but thickly, punctured, and very glossy; eyes black; elytra rather deeply punctate-striate, with the interstices faintly punctured; legs pale testaceous; hinder tibiæ slightly bent; antennæ pale testaceous, club dusky. (L. 1¼ l.) Stockton and Edinburgh: 4-10.

829 litura *Ste. M.* v. 403. — Rather oblong-ovate; deep glossy black: head and thorax minutely punctured: elytra punctate-striate, with a broad bright chestnut-red streak, extending nearly to the tip; legs pale; antennæ pitchy-chestnut. (L. 1 l.) Dumfriesshire and Edinburgh: 6.

830 suturalis *Ste. M.* v. 403. — Rather oblong-ovate; pitchy-black, very glossy: thorax deeply punctured; elytra punctate-striate, rusty-red, with a deep black suture; legs and antennæ pitchy-red; club of the latter dusky. (L. 1⅓ l.) Near Edinburgh: 6.

831 nigricollis *Ste. M.* v. 403. — Oblong, rather narrowed behind; pitchy-black; slightly glossy: elytra pale dull red, faintly punctate-striate; antennæ and legs pitchy-red. (L. 1 l.) Near Edinburgh: 6.

832 cinnamomea *Pz. F.* xii. f. 15. — *Ste. M.* ii. 176. — *Cur.* vi. pl. 251. — Oblong-ovate; pale glossy, rusty-red; front with 2 foveæ: thorax very convex, glossy and very thickly punctured; elytra moderately punctate-

striate, the interstices minutely punctulate, the alternate ones with some remote larger punctures; legs pale red; hinder thighs in the ♂ clavate, with 2 or 3 teeth towards the apex; hinder tibiæ elongate, bent and toothed within; antennæ rusty at the base; club dusky. (L. 2-3½ l.) In truffles; Audley-end, Essex; Kimpton; Devon; Cornwall: 3-5.

833 Lycoperdi *Ste. M.* ii. 177. — Oblong; dark dull red: head and thorax pale, impunctate; elytra punctate-striate, alternate interstices with a few remote punctures, the rest impunctate; legs pale testaceous; hinder thighs slightly thickened, with 1 large tooth near the middle, and a 2d near the apex; hinder tibiæ short, a little bent; antennæ dull red. (L. 2-2½ l.) Hereford and W. of England; 5.

834 picea *Ill. K.* i. 75. ? — *Pz. F.* xxxvii. f. 8. — *Ste. M.* ii. 177. — Short, ovate; rusty-chestnut, shining: eyes black; head and thorax coarsely punctate; elytra deeply punctate-striate, the interstices very obscurely punctured, with a few larger remote punctures on the alternate ones; body pitchy-chestnut beneath; hinder thighs shortish, with a single tooth in the middle; hinder tibiæ short, nearly straight. (L. 2 l.) Near London, and Luss in Scotland; Cramond and Rosslyn: 4-8.

835 armata *Stu. D. F.* ii. 34. pl. xxiv. f. *A.* — *Ste. M.* ii. 177. — Short; somewhat globose-ovate; deep glossy rusty-red: head and thorax impunctate; elytra widish in front, faintly punctate-striate, interstices thickly and finely punctured throughout; legs pale red; hinder thighs elongate, clavate, slightly toothed; hinder tibiæ elongate, much bent: antennæ pale red, club dusky. (L. 1¾ l.) Moushold Heath, Norwich; Carlisle: 5-7.

836 rugosa *Ste. M.* ii. 178. — Short, somewhat globose-ovate; rather glossy rusty-red: head and thorax minutely punctured; elytra faintly punctate-striate; the punctures very distinct, the interstices transversely wrinkled; legs pale red; antennæ pitchy-red, the three terminal joints large; eyes dusky. (L. 1¾ l.) Near London: 5.

837 Stephensii *Rudd.* — *Ste. M.* v. 404. — Short, ovate; rusty-red: head and thorax thickly punctured; eyes dusky; elytra punctate-striate, the interstices very thickly, irregularly, and coarsely punctured; legs and antennæ pale rusty-red, club of the latter black. (L. 1¾ l.) Near Stockton and Edinburgh: 4-6.

838 humeralis *Fab. E.* ii. 558. — *Pz. F.* xxiii. f. 1. — *Ste. M.* ii. 178. — Nearly hemispheric; above black, beneath rusty-red: elytra clothed with a fine tawny pubescence, irregularly punctate-striate, interstices very thickly punctulated, the shoulders with a large 4-angular red spot: club of antennæ dusky. (L. 1¼-2 l.) In Agarics, Greenhithe; New Forest; Netley; Norfolk; Devon; Cramond; Dalmeny; Queensferry: 4-7.

839 axillaris *Gyll.* ii. 560. — *Ste. M.* v. 404. — Somewhat hemispheric, black, shining, rusty-red beneath: elytra glabrous, with a small bright-red spot on the shoulder, the disc striated, the striæ placed in pairs, and the interstices smooth. (L. 1½ l.) Near London, and in S. Wales: 4-6.

840 abdominalis *Pk. F.* i. 71. — *Pz. F.* xxxvii. f. 9. — *Ste. M.* ii. 179. — Somewhat hemispheric; above glossy-black, beneath pitchy-red: thorax faintly punctured, its lateral and hinder margins slightly ferruginous; elytra regularly and distinctly punctate-striate, the interstices faintly but obscurely punctured; legs and antennæ red. (L. 1½-1¾ l.) Cumberland: 6.

134 Agathidium *Illiger.*

841 ruficolle *Marsh.* i. 68. — *Stu. D. F.* ii. pl. xxix. f. *D.* — *Ste. M.* ii. 179. — Globose; black: thorax, antennæ, and legs red; elytra and tho-

rax with obscure dispersed punctures; body black beneath. (L. 1-1½ l.) Colney-hatch Wood: 4-5.

842 Globus *Pk. F.* iii. 437. — *Ste. M.* ii. 180. pl. xv. f. 4. — Nearly globose; black, shining, irregularly, but distinctly, punctate: thorax bright glossy red, faintly punctured; body pitchy beneath, with the apex pale testaceous; legs pitchy, tips of tibiæ and the tarsi palest; antennæ rusty-brown, the terminal joint red. (L. 1½ l.) Rotten leaves, &c., Coombe Wood: 3-6.

843 nigripenne *Ill. K.* i. 84. — *Ste. M.* v. 404. — Rather globose, glossy red: head dusky; elytra black, very faintly punctate; antennæ, with the club fuscous and obscurely 5-jointed; abdomen also fuscous. (L. 1 l.) Near Darlington: 4-6.

844 ferrugineum *Stu. D. F.* ii. 66. pl. xxix. f. *B.* — *Ste. M.* ii. 180. — Globose; shining rusty-red; finely punctured; antennæ and legs pale testaceous; scutellum small. (L. 1¾ l.) Coombe Wood; under bark of ash: 4-6.

845 atrum *Pk. F.* iii. 417. — *Ste. M.* ii. 180. — Deep glossy black; very finely punctured: head large, smooth; mouth testaceous; thorax with the lateral and hinder margins reddish and pellucid, and much dilated; scutellum large, glossy; elytra finely punctured, with a single short stria near the suture; body beneath and legs pitchy; tibiæ and tarsi dull-red. (L. 1.) Gravel pits, Coombe Wood; Thorp Wood, Norfolk; Craigmillar and Cramond: 3-6.

846 Seminulum *L.* ii. 570. — *Stu. D. F.* ii. pl. xxvi. — *Ste. M.* ii. 181. — Very glossy, pitchy-black: mouth pale testaceous; head and thorax smooth, the margins of the latter pale ferruginous; scutellum large, smooth, pitchy; elytra with the tip pale rust-colour; disc obscurely punctulated, with a single short stria on the suture; body pale red beneath; legs and antennæ testaceous-red. (L. 1¼ l.) Near London, in fungi: 4.

847 rufipes *Ste. M.* v. 404. — Black: head and thorax very glossy and very delicately punctured; the lateral margins of the last bright red; elytra rather coarsely punctured, with a short stria near the suture; antennæ pitchy; legs bright red. (L. 1. l.) Near Edinburgh: 4-6.

848 orbiculare *Herbst.* iv. 91. pl. 38. f. 10. *K.* — *Ste. M.* ii. 181. — Smooth, glossy black: mouth dull-red; thorax deep notched in front, the lateral and hinder margins narrowly edged with red, and forming a semicircle; scutellum small; elytra rounded at the tip, smooth, not striated; legs pitchy; tibiæ, tarsi, and antennæ dull red, club rather pitchy. (L. ¾-1 l.) Near London: 4-6.

849 mandibulare *Stu. D. F.* ii. 58. pl. xxvii. f. *C.* — *Ste. M.* ii. 181. — Deep black, shining: thorax short, somewhat orbiculate, slightly notched in front, its lateral and hinder margins reddish; elytra rather narrowed behind, impunctate, with a faint stria near the suture; legs and antennæ testaceous, club dusky; mandibles pitchy, the left one large and prominent. (L. 1 l.) Near London: 4.

850 nigrinum *Stu. D. F.* ii. 56. pl. xxvii. f. *A.* — *Ste. M.* ii. 182. — Pitchy-black, smooth, glossy: sides of the thorax and its hinder margin, body beneath, and the legs reddish-brown; antennæ pale, the middle joints dusky; scutellum minute. (L. 1. l.) London district: 4-6.

851 affine *Marsham.* — *Ste. M.* ii. 182. — Ag. marginatum *Stu. D. F.* ii. pl. xxviii. f. *A.*? — Black, very glossy, impunctate: with the sides of the thorax and of the elytra towards the apex pale testaceous-red; antennæ and legs deep testaceous-red, the thighs pitchy. (L. ¾-1 l.) Near London: 3-6.

852 carbonarium *Stu. D. F.* ii. 61. pl. xxvii. f. *D.*? — *Ste. M.* ii. 182. —

Black, shining: thorax impunctate, the margins concolorous; elytra convex, finely punctate, with a short stria near the suture; body beneath pitchy-black; thighs pale testaceous; tibiæ and tarsi pitchy; antennæ pale red. (L. $\frac{3}{4}$ l.) Near London: 3-6.

853 minutum *Stu. D. F.* ii. 64. pl. xxviii. f. *L.* — *Ste. M.* ii. 183. — Obovate, very glossy black; smooth: head wide; mouth pitchy; thorax with the sides much depressed, broadly ferruginous; the basal edge dull reddish; elytra ample, a little narrowed behind, black, the disc pitchy-red; legs pitchy; tarsi testaceous. (L. $\frac{1}{2}$ l.) Near London, and in Norfolk: 3-6.

854 atratum *Stu. D. F.* ii. 63. pl. 28. f. *D.* — *Ste. Cat.* No. 759. — Obovate; glossy-black; smooth: thorax expanded on the sides, hinder angles acute; elytra obtuse, not striated; legs dull black; tarsi pitchy or reddish. (L. $\frac{1}{2}$-$\frac{3}{4}$ l.) Near London: 3-4.

855 nanum *Megerle.* — *Ste. M.* ii. 183. — Ag. atomarium *Stu. D. F.* ii. 65. pl. xxix. f. *A.*? — Suborbiculate; black, very glossy; smooth: head broad; thorax with the sides considerably deflexed, and narrowly edged with testaceous; elytra ample, obtuse behind, not striated, the apex sometimes pitchy; legs dull black. (L. $\frac{1}{2}$ l.) Sand and Gravel pits, Coombe, Hampstead, &c.; Edinburgh and Devon: 3-6.

135 Clambus *Fischer.*

856 nigriclavis *Rudd.* — *Ste. M.* v. 404. — Gibbous, ovate; glossy pitchy-black; thorax rather paler, with the margins broadly pale; body beneath pitchy; legs and antennæ pale, club of the latter black. (L. $\frac{1}{2}$ l.) Stockton: 3-6.

857 Armadillus *De Geer*, iv. 220. — *Ste. M.* ii. 184. pl. xv. f. 5. — Gibbous-ovate, shining black, extremely smooth; thorax with the sides rounded and pale, rather transparent; elytra impunctate, with a few scattered hairs, the tip sometimes reddish; body beneath pitchy-black; legs and antennæ pale. (L. $\frac{1}{2}$ l.) London district: 3-5.

858 coccinelloides *Kirby.* — *Ste. M.* ii. 184. — Gibbous-ovate, shining black, smooth; thorax with the margins concolorous; elytra sparingly punctate, with a short stria near the suture towards the apex; antennæ and legs pitchy-testaceous, thighs palest. (L. $\frac{3}{4}$ l.) Barham, Suffolk: 3-6.

859 enshamensis *Westwood.* — *Ste. M.* ii. 184. — Ovate; pubescent: testaceous-red, shining; head very broad, the lateral margins produced into a lobe, in which the eyes are placed; thorax with the sides narrowed, rather ovate, and pale; elytra convex at base; flattish towards the tip; dull reddish-testaceous, or slightly pitchy, impunctate; legs pale. (L. $\frac{1}{2}$ l.) Ripley; Ensham, Oxon; Bottisham; Edinburgh: 3-8.

860 nitidus — *Ste. M.* v. 465. — Gibbous; deep glossy black; antennæ and legs very pale. (L. $\frac{1}{3}$-$\frac{1}{2}$ l.) Near Stockton; and London: 3-6.

136 Corylophus *Leach.*

861 Cassidoides *Marsh.* i. 77. — *Ste. M.* ii. 185. — Pitchy, shining, impunctate; with the margins of the thorax pale and transparent; antennæ and legs dull red; thorax sometimes reddish, with occasionally the disc dusky; the edges of the elytra at times pale, or the elytra dark, with a reddish patch near the tip. (L. $\frac{1}{3}$-$\frac{5}{12}$ l.) London; Darenth Wood; Spitchweek and Ashburton, Devonshire: 3-7.

137 Orthoperus *Stephens.*

362 Punctum *Marsh.* i. 80. — *Ste. M.* ii. 186. — Slightly convex, livid testaceous, very smooth and glabrous: head rather pitchy; eyes dusky; thorax glossy; elytra somewhat pale towards the apex; antennæ and legs

pale testaceous. (L. $\frac{5}{12}$ l.) Under rotten wood, near London, and in Suffolk; 3-6.

863 picea *Kirby*. ? — *Ste. M.* ii. 186. — Above glossy pitchy-testaceous, impunctate; antennæ and legs entirely pale-testaceous. (L. $\frac{1}{2}$ l.) Near Ipswich: 3-6.

864 picatus *Marsh.* i. 80. — *Ste. M.* ii. 186. — Rather gibbous; pitchy, very smooth and shining, with the base of the antennæ and the palpi red. (L. $\frac{5}{12}$ l.) Suffolk: 3-6.

865 truncatus *Kirby*. — *Ste. M.* ii. 187. — Somewhat depressed, smooth; pitchy-black: thorax glossy, with its lateral margins, the antennæ, and legs testaceous-red; elytra distinctly truncate at the tip. (L. $\frac{5}{12}$-$\frac{1}{2}$ l.) Near Bristol, and in Suffolk: 3-6.

866 nigrescens *Ste. M.* ii. 187. — Deep pitchy-black; very smooth and glossy; the margins of the thorax concolorous; antennæ and legs pitchy-testaceous. (L. $\frac{1}{3}$ l.) Under rotten wood, near London: 3-6.

867 Atomos *Kirby*. — *Ste. M.* ii. 187. — Very minute; smooth, black, shining; antennæ and legs pitchy. (L. $\frac{3}{4}$ l.) In Suffolk: ? 3-6?

138 Sericoderus *Stephens.*

868 thoracicus *Ste. M.* ii. 188. — Sca. dubium *Marsh.* i. 234. — Red-brown; slightly glossy, smooth, with the thorax and tips of the elytra pale, the former with a silken pile and a dusky spot on the anterior margin; antennæ and legs pale testaceous. (L. $\frac{5}{12}$-$\frac{1}{2}$ l.) Near London: 3-6.

§ 2. Stirps 2. NECROPHAGA *MacLeay.*

Fam. 17 Scaphididæ. *Ant.* 11-jointed, more or less clavate; club 5-jointed, 8th joint, or 2d of the club, frequently small, and sometimes minute: *max. palpi* generally exserted: *mand.* mostly bidentate at the tip: *head* inserted up to the eyes in the *thor.*, which is convex: *legs* long; *tarsi* 5-jointed.

Fam. 18 Silphidæ. *Ant.* 11-jointed, clavate; club generally 4-, or 5-jointed, rarely 3-jointed: *max. palpi* filiform, the terminal joint rather slender and cylindric: *mand.* entire at the tip: *head* inflected, contracted into a neck behind: *tho.* large, shield-like: *elytra* simple; outer margin generally with a groove: *legs* shortish: *tarsi* 5-jointed.

Fam. 19 Nitidulidæ *Ant.* 11-jointed, abruptly clavate; club 3-, very rarely 4-, jointed: *palpi* filiform, short: *mand.* elongate, generally notched at the tip: *head* inserted up to the eyes in the *thor.*, the latter broad: *body* flat, wide: *tarsi* 5-jointed, 2d and 3d joints bifid and dilated, 4th generally minute.

Fam. 20 Mycetophagidæ. *Ant.* 11-jointed, gradually thickening to the apex into a club of from 2 to 4 joints: *palpi* rather long: *maxillæ* bilobed: *mand.* short, bifid at the tip: *labrum* transverse: *head* moderately inserted into the *thorax*: *body* generally pilose, or pubescent, rather wide: *tarsi* mostly 5-, rarely 4-jointed, or heteromerous: *anter.* in ♂ sometimes 3-jointed.

Fam. 21 Erotylidæ. *Ant.* 11-jointed, terminated by a large 3-articulate club: *palpi* with apical joint large, of *max.* compressed, sublunate: *mand.* short, dentate at tip: *head* small: *body* oval or hemispheric, glabrous, polished: *tarsi* obscurely 4-, 5-jointed, the penultimate joint very minute.

Fam. 22 Engidæ. *Ant.* 10-, 11-jointed, short, more or less distinctly clavate, club 2-, 5-jointed: *palpi* rather short: *maxillæ* mostly unilobate: *mand.* bifid at the tip: *labrum* transverse: *head* deeply inserted in the *thorax*:

body oblong, or elongate, glabrous: *tarsi* simple, all 4- or 5-jointed, the 4th joint in the latter commonly minute, ♂ with *poster.* sometimes 4-jointed.

Fam. 23 CUCUJIDÆ. *Ant.* 11-jointed, rather long, moniliform and slightly thickened at the tip, or distinctly clavate: *palpi* short, filiform: *mand.* large, exserted, bifid at tip: *labrum* rounded: *head* large, exserted: *body* oblong, flat: *tarsi* simple, mostly 5-jointed, basal joint minute; in some ♂ s nearly obliterated.

Fam. 24 DERMESTIDÆ. *Ant.* 11-jointed, short, rather abruptly clavate; club 3-, 4-jointed: *palpi* very short: *mand.* short, thick, toothed at apex: *labrum* also short, membranous at tip: *body* convex, oval, rounded at each end, clothed with scales or pile: *legs* slightly contractile; *tarsi* 5-jointed.

Fam. 17. SCAPHIDIDÆ *MacLeay.*

cxxxix. SCAPHIDIUM *Elytra* truncate: *ant.* slender; club 5-jointed, elongate, 2d joint larger than the 1st, terminal one rounded at the tip: *palpi* filiform: *scutel.* distinct.

cxl. SCAPHISOMA *Elytra* truncate: *ant.* pilose; club 5-jointed, 2d joint smaller than 1st: *scutel.* concealed by a lobe in the middle of the *thorax* behind: *palpi* filiform.

cxli. MYLÆCHUS *Elytra* oval, obtuse: *ant.* short, curved; club 5-jointed, articulations transverse, 2d joint not smaller than the preceding: *palpi max.* with apical joint subulate; *lab.* with terminal joint obtuse: *tho.* with hinder angles acute: *post. femora* of ♂ with a small tooth beneath; *anter. tarsi* with the 3 basal joints dilated.

cxlii. PROMAPHAGUS *Elytra* oval, obtuse, not striated: *ant.* elongate; club 5-jointed, 2d joint small: *palpi max.* with terminal joint subulate; *lab.* with same joint obtuse: *tho.* with hinder angles acute: *anter. tarsi* of ♂ with 3 dilated joints; *interm.* mostly filiform.

cxliii. CATOPS *Elytra* oval, obtuse, more or less striated: *ant.* short, straight; club 5-jointed, 2d joint small: *palpi max.* with terminal joint subulate, conic; *lab.* with the same joint obtuse: *tho.* with hinder angles acute: *anter tarsi* of ♂ and basal joint of *interm.* dilated.

cxliv. CHOLEVA *Elytra* oval, striated: *ant.* rather long, somewhat filiform; club elongate, 5-jointed: *palpi max.* with the terminal joint subulate, conic; *lab.* with same joint obtuse: *tho.* with hinder angles obtuse: *anter. tarsi* of ♂ with the 3 basal joints dilated; *interm.* filiform.

139 SCAPHIDIUM *of Authors.*

869 4-maculatum *Oliv.* ii. 20. pl. 1. f. 1. — *Ste. M.* iii. 3. — *Cur.* viii. pl. 379. — Ovate, black, very glossy, glabrous: elytra with a large red spot towards the shoulder, and a second round one near the apex; and with a single sutural stria; base of antennæ pitchy. (L. 2-2½ l.) Old stumps, &c., Coombe Wood; Bristol; Clengre, Gloucester; Swansea; Herefordshire; Lyndhurst; Yorkshire, &c.: 12-1 & 5-6.

140 SCAPHISOMA *Leach.*

870 Agaricinum *L.* ii. 570. — *Pz. F.* ii. f. 2. — *Ste. M.* iii. 3. — Black; shining, very small: tips of the elytra and the legs pale brown, or reddish; elytra with a single short sutural stria; tip of the abdomen pitchy-red. (L. ¾-⅚ l.) Boleti, Battersea fields; Wandsworth; Netley, &c.: 10-6.

871 Boleti *Pz. F.* xii. f. 16. — *Ste. M.* iii. 4. — Head, thorax, and elytra pitchy, minutely punctured: the latter paler at the apex, with a single

sutural stria; body beneath pitchy; legs red; antennæ pale. (L. $\frac{3}{4}$-$\frac{1}{8}$ l.) Boleti, near London; Netley, &c.: 3-6.

141 Mylæchus *Latreille.*

872 brunneus *Latr. G.* ii. 30. pl. 8. f. 11. — *Ste. M.* iii. 4. — Oblong-ovate; chestnut-brown, with a griseous pile; finely but very irregularly punctured: head black; thorax widest behind; elytra gradually narrowed from the base to the tip, which is rounded, with a single sutural stria; legs pitchy-brown. (L. 1 l.) Hull; N. of England, &c.: 4-5.

142 Promaphagus *Illiger.*

873 truncatus *Ill. K.* i. 42. — *Ste. M.* iii. 5. — He. dermestoides *Pz. F.* lvii. f. 2.? — Somewhat quadrate-oblong, rather widest in front, black, and clothed with a dense grisescent down; beneath which the surface is transversely but delicately acuducted: elytra with the apex somewhat truncate, with a sutural stria; base of antennæ dull red, 8th joint 3 times shorter and more slender than the adjoining ones. (L. $\frac{3}{4}$-1$\frac{1}{2}$ l.) Fungi, carcases, dry bones, &c., London district; Norwich; Bottisham; Dorsetshire; Notts; Carlisle; Swansea. ⊙

874 velox *Lin. Tr.* (*Spence*) xi. 154. — *Ste. M.* iii. 6. — Ca. agilis *Pz. F.* xcv. f. 10.? — Oval, rusty-brown, darkest beneath, with a yellowish pile: head black; antennæ slightly clavate, the 8th joint equal to the adjoining; elytra rounded at the tip; legs, antennæ, and palpi dull red: centre of thorax sometimes with a dusky, or black, cloud. (L. 1$\frac{1}{3}$) Fungi, &c., Kensington Gardens; Norfolk; Yorkshire; Devon: 3-6.

875 fumatus *Lin. Tr.* (*Spence*) xi. 155. — *Ste. M.* iii. 6. — Ci. fusca *Oliv.* iii. pl. 1. f. 14. *a*? — Oblong-oval, black; with a dense griseous pile: antennæ fuscous, the 2 or 3 basal joints dull red, the 8th shorter than the adjoining; elytra dull rusty-brown, rounded at the tip; legs and palpi dull rusty-red. (L. 1$\frac{1}{2}$ l.) Carcases, &c., London district; Norfolk; Suffolk; Yorkshire; Humby, Lincolnshire; Penllargare: 3-6.

876 Watsoni *Lin. Tr.* (*Spence*) xi. 156. — *Ste. M.* iii. 6. — Oblong-oval, black; with a slight tawny pile: antennæ short, robust, the 3 basal joints reddish-brown, the terminal one pale; hinder angles of thorax reddish; elytra red-brown, acute at the apex; legs red-brown. (L. 1$\frac{1}{3}$ l.) Fungi, &c., London district; Hull; Bottisham; Nottingham: 3-6.

877 anisotomoides *Lin. Tr.* (*Spence*) xi. 157. — *Ste. M.* iii. 7. — Oval, convex; shining, pitchy-black, with a slight grisescent pile: antennæ pale yellowish, the 8th joint small, the apical one large, subglobose; thorax with the hinder margin palest and straight; elytra ovate, convex; legs pale dull-red. (L. $\frac{2}{3}$-$\frac{3}{4}$ l.) Fungi, &c., London district; Hull; Bottisham; Humby; Salop, &c.: 3-6.

878 Wilkinii *Lin. Tr.* (*Spence*) xi. 158. — *Ste. M.* iii. 7. — Oblong; pitchy-brown, with a short grisescent pile: antennæ, legs, and palpi pale rusty-yellow; thorax with its hinder margin straight; elytra oblong, the sides nearly straight, the tip rounded. (L. 1$\frac{1}{4}$ l.) Fungi, &c., London district; Norfolk; Salop: 3-6.

879 Davisii *Ste. M.* iii. 7. — Oblong-oval, rather narrowed behind; fuscous-brown, slightly pubescent: thorax very large, convex, the hinder margin straight; elytra more pubescent, the apex somewhat acute, and paler than the base; legs pitchy-brown; antennæ testaceous-red, the basal joint of the latter large, and the club broad and distinct, obtuse. (L. $\frac{3}{4}$-1 l.) Moss; Humby, Lincolnshire: 12; near London and in Scotland: 4.

143 CATOPS *Paykull.* '

880 fornicatus *De Geer*, iv. 216. pl. viii. f. 15. ? — *Ste. M.* iii. 8. — Oblong; black, with a tawny pile: antennæ rather longer than the thorax, dull-red, the apex dusky, subclavate, the 8th joint short and slender; thorax transversely 4-drate, hinder margin dilated in the middle, and cut out near the angles; elytra obsoletely striated to the apex; legs rusty-piceous. (L. 2½ l.) Carcases, &c., London district; Bottisham; Carlisle; Carfin, Scotland: 3-6.

881 Frater *Ent. M.* (*Newm.*) i. 507. — *Ste. M.* v. 405. — Oblong-ovate: head black; antennæ with the 2 basal joints dull-red, then fuscous, with the apical joint pale; thorax black, with a brown pile; elytra black, slightly tomentose and rugose, with a single sutural stria; legs rusty-brown. (L. 1¾ l.) Carcases, &c., Halifax, and N. of England: 5-6.

882 Soror *Ent. M.* (*Newm.*) i. 508. — *Ste. M.* v. 405. — Oblong: head and thorax black, the latter with a brown pile; antennæ with the 4 basal joints and half of the 5th dull-red; elytra and legs pitchy-black, the former rugose, faintly striated. (L. 1¼ l.) Carcases, &c., Halifax, and N. of England. 5-6.

883 fuscus *Natur. F.* (*Fröhlich.*) xxviii. pl. 1. f. 16. ? — Ca. sericeus *Ste. M.* iii. 9. — Short, ovate, gibbous-convex, pitchy-brown, with a changeable griseous pile: antennæ short, rather slender, rusty, the base and apex palest; thorax widest behind, faintly excised at the hinder angles; elytra wide, obsoletely striated; legs rusty-piceous. (L. 2¼ l.) Carcases, &c., London; Southend; Swansea; Devonshire; Coombe and Salop, &c.: 3-6.

884 clavicornis *Forst. C.* i. 166. — *Ste. M.* iii. 9. — He. tristis *Pz. F.* viii. f. 1. — Oblong-ovate; pitchy-black, with a tawny pile: head short; thorax somewhat 4-drate; elytra very obsoletely striated; obtusely rounded at the tip; legs rusty-red, or pitchy-black, with the tibiæ and tarsi reddish; antennæ abruptly clavate, 8th joint minute, dark-red at the base, dusky at the tip. (L. 1¾-2 l.) Carcases, &c., London; Bristol; near Dorset; Devon; Bottisham; Carfin: 3-6.

385 festinans *Lin. Tr.* (*Spence*) xi. 145. — *Ste. M.* iii. 9. — Oblong-ovate; black, with a rather dense pile: thorax short, the hinder margin with very obsolete excisions at the angles; elytra reddish, very faintly striated; legs, palpi, and labrum testaceous-red; antennæ with the 6 basal joints rusty, the rest fuscous. (L. 2 l.) Carcases, &c., London; Hull; Netley: 3-6.

886 affinis *Ste. M.* iii. 10. — Elongate-ovate; fuscous, with a yellowish-brown pile: head dusky; thorax narrow, with the lateral margins somewhat testaceous, the hinder angles distinctly excised; elytra reddish-brown, very faintly striated, the apex rounded; legs rusty-brown; antennæ clavate, dusky, the base and palpi dull-red. (L. 1¾ l.) Carcases, &c., London; Bristol: 3-6.

887 elongatus *Ste. M.* iii. 10. — Elongate-ovate, flattish; pitchy-black, with a fine griseous pile: thorax small, excised at the base near the hinder angles; elytra narrow, obsoletely striated, the tip rounded; legs rusty-red; labrum and palpi black; antennæ dull-red, club slender, dusky, 8th joint small, terminal one short, acute. (L. 2½ l.) Carcases, &c.; London; Bristol: 3-6.

888 chrysomeloides *Pz. F.* lvii. f. 1. — *Ste. M.* iii. 10. — Oblong-oval; black, with a dense tawny velvety pile: thorax with the sides straight near the hinder angles, the base waved, but straight at the angle; elytra dilated in the middle, scarcely striated; tip of the anter. thighs, the tibiæ, and tarsi reddish; antennæ reddish-brown at the base, of the ♀ fusiform-clavate, thick, terminal joint ovate, longer than the preceding. (L.

2½ l.) Carcases, &c., London; Norfolk; Suffolk; Yorkshire; Devon; Bottisham; Netley; Swansea: 3-6.

889 Leachii *Lin. Tr.* (*Spence*) xi. 148. — *Ste. M.* iii. 11. — Ovate; black, with a tawny pile: thorax as in the preceding; head short; elytra ovate; tibiæ, tarsi, and antennæ at the base, red-brown; the latter slender, distinctly clavate, the terminal joint short, mucronate, club fuscescent. (L. 2¼ l.) Carcases, &c., Bristol; Carlisle: 6-8.

890 Kirbii *Lin. Tr.* (*Spence*) xi. 148. — *Ste. M.* iii. 11. — Obovate; fuscous, with a grisescent pile: thorax nearly as in the 2 preceding, but obscurely sinuated at the base; elytra obsoletely striated, the tip somewhat acute; legs pale fuscous; labrum and palpi reddish; antennæ with the 5 basal joints dull red, the rest fuscous, the terminal ones tranverse. (L. 1⅞ l.) Chalk-pit at Little Blakenham, Suffolk 9; Netley: 7.

891 Spencii *Ste. M.* iii. 11. — Obovate, slightly acuminated behind; brown-black, elytra paler, with a hoary-brownish pile; disc striated; legs, palpi, and antennæ red-brown, the terminal joint of the latter conic, club rather slender. (L. 1½ l.) Fungi, &c., near London: 6.

892 nubifer *Ent. Tr.* (*Newm.*) i. 50. — *Ste. M.* v. 405. — Oblong-ovate; fuscous, with a tawny pile: head black; thorax dull red, with a large central fuscous cloud extending to the margins; often fuscous, more or less rusty at the shoulders, or entirely of that colour; legs rusty-brown; antennæ with the 3 basal joints pale rusty, the rest fuscous, the terminal one paler. (L. 1¼-1½ l.) Fungi, &c., Halifax and Scotland: 4-6.

893 caliginosus *Ste. M.* iii. 12. — Oblong-ovate, deep black, with a fulvous pile: elytra faintly striated, the apex rounded; base of antennæ and terminal joint, labrum, palpi, anter. thighs, tibiæ, and tarsi testaceous-red; antennæ slender, 8th joint moderate. (L. 2 l.) Carcases, &c., London: 4.

894 Marshami *Lin. Tr.* (*Spence*) xi. 149. — *Ste. M.* iii. 12. — Oblong-ovate; fuscous, with a griseous pile: thorax with the sides rounded from base to apex; elytra faintly striated towards the tip, which is obtuse; antennæ as long as the thorax, rusty-yellow, the 8th joint very small; labrum, palpi, and legs rusty-yellow. (L. 2¼ l.) Carcases, &c., near London: 5.

895 dissimulator *Lin. Tr.* (*Spence*) xi. 150. — *Ste. M.* iii. 13. — Oval; black, with a dense tawny pile; antennæ fuscous, the 2 basal and the apical joints rusty; thorax with the sides rounded from base to apex; elytra with a single sutural stria; palpi and legs rusty-red; hinder femora black. (L. 2 l.) Carcases, &c., near London and Bristol: 3-7.

144 Choleva *Latreille.*

896 angustata *Fab. E.* ii. 20. — *Ste. M.* iii. 13. — Ch. oblonga *Samo.* pl. 4. f. 9. — Narrow, oblong; pitchy-black, with a fulvescent pile: thorax wide before the middle, narrowed behind; sides and hinder angles sometimes pale; elytra faintly striated; antennæ and legs dull-red. (L. 2½ l.) Carcases, &c., common every where: ⊙, ✶.

897 agilis *Ill. K.* i. 88. — *Ste. M.* iii. 14. — Oblong-ovate; black, with a dense tawny pile; the upper surface pitchy-brown: thorax transverse, widest behind; elytra slightly striated; antennæ and legs dull-red. (L. 2¼ l.) Carcases, &c., London; Netley; N. Wales: 3-6; Humby: 12.

898 gausapata *Spence*? — *Ste. M.* iii. 14. — Oblong-oval; deep pitchy-black, with a dense changeable tawny pile: thorax convex, edged with testaceous, the hinder margin rather broader than the apex, the sides gradually rounded; elytra obscurely striated: legs and antennæ dull-red. (L. 2¼ l.) Carcases, &c., near London; in Devon; Norfolk; and Yorkshire: 3-6.

Fam. 18. SILPHIDÆ *Leach.*

cxlv. Sphærites *Body* ovate: *elytra* wide, obliquely truncate at the tip: *abdomen* with apex exposed: *head* angulated, deeply inserted in *tho.*, which is transverse, deeply notched in front, and waved behind: *ant.* short, basal joint large; club solid, 4-jointed, ovate, obtuse: *mand.* deflexed, tip sharply 2-dentate: *labrum* rounded: *maxillæ* with an inner horny tooth.

cxlvi. Necrophorus *Body* elongate: *elytra* abruptly truncate, with a deep marginal groove: *abdomen* with the apex exposed: *head* with a distinct neck: *tho.* rather orbiculate, rounded behind: *ant.* short, slender at the base, terminated by an abrupt, ovate, 4-jointed perfoliate club: *maxillæ* unarmed: ♂ with *anter. tarsi* dilated.

cxlvii. Necrodes *Body* elongate-oval: *elytra* obliquely truncate at tip, with 3 dorsal ridges: *abdomen* with tip slightly exposed: *head* with a distinct neck: *tho.* orbicular: *ant.* rather long, gradually terminating in an elongate 3-jointed club: *maxillæ* with a claw: ♂ with *poster. thighs* thick and sometimes toothed; *anter.* and *interm. tarsi* dilated.

cxlviii. Oiceoptoma *Body* oval, flattish: *elytra* not truncate at the apex, ridged, of ♀ sometimes with a notch at the tip: *palpi* with apical joint slender: *tho.* nearly semicircular: *head* small: *ant.* slender at the base, terminated by an abrupt 4-jointed club: ♂ with *anter. tarsi* dilated.

cxlix. Silpha *Body* oval, slightly convex: *elytra* entire, ridged: *tho.* semicircular, mostly truncate in front: *head* small: *palpi* with apical joint slender: *ant.* gradually increasing from base to apex, the 4 terminal joints forming an obtuse club: ♂ with *anter. tarsi* dilated.

cl. Phosphuga *Body* oval or somewhat orbicular: *elytra* entire, ridged: *tho.* semicircular, abruptly truncate behind: *head* narrow: *palpi* with apical joint rather slender: *ant.* slender, gradually increasing to the apex, the 3 terminal joints forming an obtuse club: ♂ with *anter. tarsi* dilated.

(cli. Agyrtes *Body* ovate, convex: *elytra* entire: *tho.* narrowed in front: *max. palpi* with apical joint robust: *ant.* short, 4 terminal joints forming a slight club: *thighs* compressed; *tibiæ* spinose and ciliated.)

(clii. Peltis *Body* ovate: *elytra* entire, flat, ridged: *max. palpi* somewhat clavate: *ant.* as long as the *thorax*, basal joint dilated; 3 terminal joints large, perfoliated, remote.)

145 Sphærites *Duftschmid.*

899 glabratus *Duft.* i. 206. — *Ste. M.* v. 406. — His. glabratus *Stu. D. F.* i. pl. xx. — Rounded, ovate; black: above brassy-black, with a greenish tinge, very glossy and glabrous; head and thorax very delicately punctured; elytra regularly and rather finely punctate striate; legs pitchy-black. (L. 2 l.) Scotland: 7.

146 Necrophorus *Fabricius.*

900 germanicus *L.* ii. 569. — *Cur.* ii. pl. 71. — *Ste. M.* iii. 16. — Black; forehead with a 3-angular tawny-yellow spot; outer margin of the elytra broadly rusty-red; club of the antennæ deep black. (L. 13-16½ l.) Carcases, Moushold Heath, Norwich; banks of Thames above Windsor; Lord Abingdon's woods, near Oxford: 3-6.

901 Humator *Oliv.* ii. 8. pl. 1. f. 2. — *Ste. M.* iii. 17. — Black, the outer margin of the elytra concolorous, or slightly fuscous; club of antennæ orange. Elytra when not quite mature with a reddish spot towards the apex, forming the Ne. bimaculatus *Ent. Tr.* (*Har.*) i. pl. 2. *fig. sup.* (L. 8-14 l.) Common, everywhere, in carcases, fungi, &c.: 3-7.

902 Sepultor *Gyll.* iv. 308. — *Ste. M.* iii. 17. pl. xvi. f. 1. — Black: thorax considerably dilated in front, the margin densely clothed with a bright golden-

yellow down: club of the antennæ and 2 bands across the elytra (the 2d mostly interrupted) orange; hinder tibiæ straight. (L. 7-11 l.) Carcases, Battersea fields; Hampstead Heath; Ealing: Swansea; Dawlish; Nottingham: 3-8.

903 interruptus *Ste. M.* iii. 18. pl. xvi. f. 2. Ne. fossor. *Erich. K.* i. 224. — Black; thorax glabrous: club of the antennæ and 2 bands across the elytra (neatly interrupted at the suture) orange; the terminal segments of the abdomen ciliated with griseous; hinder tibiæ straight. (L. 6-9½ l.) Carcases, London district; Norfolk; Cambridge; New Forest; Nottingham; Phillack, Cornwall: 3-7.

904 vestigator *Ill. Mag.* (*Hershel*) vi. 24. — *Ste. M.* iii. 18. — Ne. Vespillo *Pz. F.* ii. f. 2. — Black; thorax glabrous: club of the antennæ and 2 bands across the elytra (the anterior one generally widest) orange; abdomen somewhat glabrous at the tip, ciliated with black, the extreme apex with griseous; hinder tibiæ straight. (L. 7-12 l.) Carcases, &c., generally distributed: 3-7 *.

905 obrutor *Erich K.* i. 225. — Black; thorax glabrous; narrowed towards the base: club of the antennæ and 2 bands across the elytra (frequently interrupted) tawny-red; abdomen nearly glabrous, the tip with a black pubescence; posterior tibiæ straight. (L. 7-9 l.) Carcases, Hertford: 5-6.

906 Mortuorum *Fab. E.* i. 335. — *Don.* xv. pl. 537. f.2. — *Ste. M.* iii. 19. — Black; with the club of the antennæ the same: elytra with a broad crenulated orange band across the base, and a crescent-shaped or rounded spot of the same colour within the apex: hinder tibiæ straight. (L. 5-9 l.) Carcases, London district; Swansea; Carlisle; Monk's Wood, Herts; Buckley Vale, Devon; Mansfield, &c.; Leith, Scotland: 3-7.

907 Vespillo *L.* ii. 569.—*Don.* i. pl. 23. ? — *Ste. M.* ii. 20.—Black; thorax clothed in front with a dense yellow down: club of the antennæ and 2 bands across the elytra yellow-orange; hinder tibiæ curved; posterior trochanters with an acute spine. (L. 6-12 l.) Carcases, generally distributed; rather scarce near Edinburgh: 3-7. *.

147 Necrodes *Wilkin.*

908 littoralis *L.* ii. 570. — *Pz. F.* xi. f. 15 ♀. — *Ste. M.* iii. 21. — *Cur.* vii. pl. 334. ♂ — Oblong, depressed, black: elytra with 3 smooth elevated lines, and a shorter one at the base, with a transverse tubercle near the apex; 3 or 4 terminal joints of antennæ testaceous. (L. 6-12¼ l.) Carcases, banks of Thames; Bottisham; Netley; Swansea; Sidmouth; Carlisle; Parley Heath; Loch Lomond; Newhaven, &c.: 4-7.

148 Oiceoptoma *Leach.*

909 thoracica *L.* ii. 571.—*Don.* ii. pl. 63. f. 1. — *Ste. M.* iii. 22. — Black, with a silken gloss: thorax red, with a light tawny pile: elytra satiny, with 3 slightly flexuous elevated lines. (L. 6½-7½ l.) Carcases, London district; Bottisham; Oxford; Enborne; Bristol; Netley; Scotland, &c.: 3-6.

(910† marginalis *Fab. E.* i. 338. — *Ste. M.* iii. 22. *note.* — Black; head rough; thorax with the margins round and pale; elytra fuscous, with 3 elevated lines. (L. 7 l.) Not truly indigenous; a native of N. America.)

911 rugosa *L.* ii. 571. — *Pz. F.* lx. f. 17. — *Ste. M.* iii. 22. — Black, pubescent: thorax tuberculated; interstices clothed with an ashy pile; elytra with 3 elevated lines, the interstices transversely rugged; tip of the abdomen reddish. (L. 3½-5 l.) Carcases, &c., generally distributed: 3-7. *.

§ 2. Elytra of ♀ notched at the tip: — THANATOPHILUS *Leach.*

912 sinuata *Fab. E.* i. 341.— *Don.* xv. pl. 519.—*Ste. M.* iii. 23.—Black; obscure: head and thorax pubescent; the latter with slight tubercles, and the hinder angles rather rounded; elytra glabrous, with 3 raised lines, the interstices smooth, the apex somewhat truncate in the ♂; deeply notched, and with an elongate sutural lobe in the ♀. (L. 4-5 l.) Carcases; also generally distributed; less common than the last: 3-7. ✶.

913 dispar *Herbst.* v. 204. pl. 52. f. 1. — *Ste. M.* iii. 24. — Blackish, or fuscous: head and thorax darkly pubescent; the latter slightly tuberculated; elytra with 3 raised lines, the interstices somewhat pilose; the apex obtusely truncate in the ♂, slightly notched in the ♀. (L. 4-5 l.) Carcases, near Norwich; Caernarvon: 3-8.

149 SILPHA *of Authors.*

914 4-punctata *L.* ii. 571. — *Samo.* pl. 2. f. 7. — *Ste. M.* iii. 24. — Black, glabrous: thorax notched in front, with its margins pale testaceous; elytra testaceous, with an ovate shining black spot near the base, and a circular one near the apex; the disc with 3 slightly raised lines. (L. 6-7 l.) On oaks, Coombe Wood; Kensington Gardens; Bagley Wood; Epping; Enborne; near Carlisle; Scotland, rare: 6-7.

915 obscura *L.* ii. 572. — *Don.* ii. pl. 63. f. 4. — *Ste. M.* iii. 25. — Black, obscure; thorax truncate in front, closely and finely punctured; elytra sparingly, but deeply, punctured, with 3 obscure, slightly raised, abbreviated lines, the central one longest. (L. 6-8 l.) Carcases, London district; Cambridge; Southend; Aldboro'; Parley; Swansea; Edinburgh, &c.: 3-7.

916 tristis *Ill. K.* i. 366.—*Ste. M.* iii. 25. — Black, slightly shining: thorax truncate in front, and rather sparingly punctured; elytra with deepish and numerous punctures, with 3 raised glossy lines, extending nearly to the apex, where they are slightly flexuous. (L. 5½-8 l.) Carcases, W. of England; Wales; Parley; Wilts; Carlisle; Edinburgh: 3-7.

917 † Griesbachiana *Ste. M.* iii. 26. — Si. carinata *Ill. K.* i. 365.? Black, slightly glossy; punctured; slightly emarginate in front; elytra coarsely punctured, and with 3 raised glossy lines, the intermediate longest, reaching to the apex and curved inwardly. (L. 8 l.) Carcases, Winchester: 6.

918 nigrita *Creutz. E. V.* i. 116. pl. 2. f. 20. — *Ste. M.* iii. 26. — Black, slightly shining: thorax truncate in front, very finely punctate; elytra slightly convex, with 3 obscure short raised lines, the interstices irregularly punctate and roughish: — in immature specimens the elytra are pitchy or obscure dull red. (L. 6-6½ l.) Carcases, N. of England; Notts; Longmont, Salop; Scotland; Kensington Gardens: 3-7.

919 reticulata *Fab. E.* i. 341. — *Ste. M.* iii. 26. — Si. rugosa *Pz. F.* v. f. 9. — Black, opaque: thorax truncate and slightly rounded in front, punctured; elytra punctate, with 3 raised lines, the 2 interior rather obsolete and irregular, the outer shortened behind, interstices irregularly wrinkled transversely. (L. 5½-6¼ l.) Carcases, London district; Norfolk; Hants; Salop; Swansea: 3-6.

920 opaca *L.* ii. 571. — *Ste. M.* iii. 27. — Si. tomentosa *Herbst.* v. pl. 51. f. 16. — Rather flat; brown-black, tomentose; punctate: thorax truncate in front; elytra with 3 raised lines, the middle one longest; tip of abdomen dull-red. (L. 4½-5½ l.) Carcases, Coombe Wood; Aldboro'; Swansea; near Edinburgh: 3-6.

921 lævigata *Fab. E.* i. 340. — *Oliv. E.* ii. pl. 1. f. 1. — *Ste. M.* iii. 27. — Convex, black, rather shining, thickly punctured: thorax round and somewhat circular in front, a little rounded behind; elytra obtusely

rounded at the tip, the disc without raised lines. (L. 5-6½ l.) Carcases; generally distributed, in the south: 3-7. ✶.

150 Phosphuga *Leach.*

922 atrata *L.* ii. 571. — *Herbst.* v. pl. 51. f. 13. — f. 14. var., f. 15. var. — *Ste. M.* iii. 28. — Ovate, glossy black; thickly punctate, especially on the sides of the thorax and on the elytra, the latter with 3 raised lines, the inner (or sutural) one longest: — sometimes the sides of the thorax and the elytra are pale-testaceous; or the entire surface is of that colour. (L. 4½-6½ l.) Carcases; abundant every where: ⊙, ✶.

923 subrotundata *Leach, Z. M.* iii. 75. — *Ste. M.* iii. 29. — Somewhat rounded-ovate, glossy black, deeply punctured: thorax unequal; elytra broad, coarsely rugose punctate, with 3 raised lines, the middle one longest: — sometimes the sides of the thorax and the elytra are chestnut-brown, or the upper surface wholly of that colour. (L. 5½-7 l.) Carcases, S. of Ireland, and near Dublin; Penllergare: 12-7.

151 Agyrtes *Fröhlich.*

(924† castaneus *Naturf.* (*Fröhl.*) xxviii. 19. pl. 1. f. 11. — *Ste. M.* iii. 29. note. — Oblong; pitchy-black, glabrous: mouth, antennæ, legs, and elytra chestnut, the latter punctate striate. (L. 2½ l.) Improperly stated to be indigenous.)

152 Peltis *Kugellan.*

(925† ferruginea *L.* ii. 572. — *Pz. F.* lxxv. f. 17. — *Ste. M.* iii. 29. note. — Short; rusty-brown, glabrous; punctured: elytra with 6 raised lines, 3 of which are punctulate, the interstices with a double row of punctures. (L. 5 l.) Said (but improperly) to inhabit England.)

Fam. 19. NITIDULIDÆ *MacLeay.*

cliii. Thymalus *Elytra* entire: *tho.* margined; its sides flattened: *body* somewhat hemispheric: *ant.* with 3d joint as long as 4th: *mand.* bifid at tip: *maxillæ* with a horny hook: *palpi* slightly clavate: *tarsi* simple.

cliv. Nitidula *Elytra* entire, or slightly truncate: *tho.* margined, with the sides expanded and flat: *body* rather depressed, and longish: *ant.* with 3d joint longer than 4th: *palpi* filiform: *tibiæ* compressed; *tarsi* with the 4th joint bilobed.

clv. Strongylus *Elytra* entire: *tho.* with the sides not depressed: *body* oval, rather convex: *ant.* with 3d joint much longer than 4th, apical one mamillated: *palpi* filiform, terminal joint very long: *tarsi* with 3 basal joints dilated.

clvi. Campta *Elytra* entire: *tho.* with the sides not depressed: *body* somewhat hemispherical, not margined, tomentose: *ant.* with 3d joint not longer than 4th; *club* large: *tibiæ* dilated.

clvii. Meligethes *Elytra* entire: *tho.* with the sides not depressed: *body* somewhat 4-drate, usually of metallic hue: *ant.* with 3d joint as long as 4th, and 5th inserted: *tibiæ* sometimes spinulose.

clviii. Pria *Elytra* somewhat truncate, not ribbed: *tho.* convex: *body* flattish: *ant.* short, club longish, 4-jointed, serrated, 6th and 7th joints with an external process: *tibiæ* compressed, spinulose.

(clix. Carpophilus *Elytra* truncate, shortened, scarcely covering more than half the abdomen; not ribbed: *body* oblong, ovate, rather flat: *ant.* short; 3d joint short; club ovate, coarctate: *tibiæ* dilated, spinulose exteriorly and at the apex.)

clx. ANISOCERUS *Elytra* truncate, not ribbed: *body* ovate, somewhat depressed: *ant.* long, with 2 basal joints (especially in ♂) very large, flattened, 2d 3-angular, oblong in ♂, ovate in ♀: *scutellum* small: *tibiæ* compressed, spinulose.

clxi. CATERETES *Elytra* truncate, not ribbed: *body* ovate, slightly convex: *ant.* rather long, 2 basal joints large, of nearly equal size; 2d somewhat cylindric; club slender, longish, obconic, compressed: *scutellum* large: *tibiæ* spinulose.

clxii. MICROPEPLUS *Elytra* truncate, longitudinally ribbed, scarcely covering above half the abdomen: *body* broad, oblong, acute at tip, flat: *ant.* with the club solid: *tarsi* 4-jointed.

153 THYMALUS *Latreille.*

926 limbatus *Fab. E.* i. 334. — *Cur.* i. pl. 39. — *Ste. M.* iii. 31. — Brassy-brown; pubescent; punctured: eyes black; margins of the elytra dull red, disc irregularly punctate-striate; legs and antennæ dull-red. (L. 2½-3 l.) Under bark, New Forest; Westerham; Leeds; Danygraig, &c. S. Wales: *5-6.*

154 NITIDULA *of Authors.*

927 marginata *Fab. E.* i. 348. — *Ste. M.* iii. 32. — Ni. biloba *Pz. F.* xxxv. f. 10. — Ovate, dull red, finely punctured: thorax with the disc very convex; elytra with the lateral edges margined, the disc with 4 grooves, and 2 small spots at the base and a larger common one in the middle, bright rust-colour. (L. 2-2¼ l.) Under bark of birch, Coombe and Birch Woods; Bristol; Netley, &c.: *5-6.*

928 punctatissima *Illiger.* — *Pz. F.* xxv. f. 7. — *Ste. M.* iii. 32. — Ovate, slightly convex; dull ferruginous, very thickly punctured: eyes black; thorax with the disc unequal, foveolated and varied with black; elytra also varied with irregular, more or less united, black marks, and a short round pale band behind. (L. 3-4 l.) Coombe and Darenth Woods: *5-6*; Netley; Newcastle, &c. (Under bark of oak): *5-6.*

929 grisea *L.* ii. 574. — *Lin. Tr.* (*Curtis*) ii. pl. 5. f. 6-11. — *Ste. M.* iii. 33. — Oblong-ovate, flattish; rusty-griseous; punctured: eyes black; thorax unequal, foveolated, and varied with black; elytra also varied with black, and with some interrupted black lines, the disc with some obscure ridges; legs pale ferruginous. (L. 1½-3 l.) Under bark of oak, willow, &c., widely distributed: *5-6.*

930 depressa *L.* ii. 573. — *Ste. M.* iii. 33. — Ni. varia *Oliv.* ii. pl. 2. f. 10. — Ovate, flat; rusty-brown, punctured: thorax with the disc slightly foveolated, the sides dilated, and with a dusky cloud; elytra wide, margined, and with obscure black streaks, and a curved paler mark behind: legs and antennæ rusty-pitchy; club of the latter dusky. (L. 1¾-2 l.) Under bark, old bones, fungi, &c., common: *3-7.* ⁎.

931 Colon *L.* ii. 573. — *Ste. M.* iii. 34. — *Cur.* xv. pl. 675. — Ovate, flat; pitchy-black; punctured: thorax deeply notched in front, the disc with 2 foveolets, the sides dull red; elytra with several minute spots at the base, a large double patch on the disc, and the tip pale rusty-testaceous; legs dull red. (L. 1-1¾ l.) With the last: *3-6.* ⁎. ǂ

932 discoidea *Fab. E.* i. 352. — *Samo.* pl. 2. f. 5. — *Ste. M.* iii. 34. — Ovate, flat; black, thickly punctured: thorax with 2 foveolets and a narrow rusty margin; elytra with the outer margin and a large patch on the disc pale-testaceous; legs dull red. (L. 1½-2 l.) Dry bones, &c., generally distributed: *3-9.*

933 bipustulata *L.* ii. 570. — *Pz. F.* iii. f. 10. — *Ste. M.* iii. 35. — Ovate,

flattish; dull black: elytra with a small, ovate, red spot near the apex; legs and antennæ rusty-red; club of the latter black. (L. 1½-2¼ l.) Carcases, &c., London district; Netley; Swansea; Bottisham; Notts; Carlisle; Edinburgh: 4-6.

934 rufipes *L.* ii. 573. — *Ste. M.* iii. 35. — Ni. obscura *Oliv.* ii. pl. 1. f. 3. — Elongate-ovate, flattish; dull obscure black, faintly punctured: elytra slightly pubescent; legs and base of antennæ rusty-red; mouth, and sometimes the sides of the thorax, reddish. (L. 1-2 l.) Carcases, &c., generally distributed in the South: 5-6.

935 4-pustulata *Fab.* i. 348. ? — *Ste. M.* iii. 35. pl. xvi. f. 4. — Oblong-ovate; dull fuscous-black: thorax with the margins obscurely reddish; elytra with a testaceous-yellow spot near the shoulder, and a 2d on the disc behind the middle; legs and antennæ dull-red, club of the latter obscure. (L. 1¾ l.) Chelsea (old bones): 5-6.

Var. ? Ni. variata *Ste. M.* iii. 36. — Oblong-ovate, flattish; dull-black: elytra testaceous, with a somewhat 3-angular common black spot at the base, and 2 or 3 yellowish ones on the disc; legs and antennæ reddish; club of the latter dusky. (L. 1¼-1¾ l.) In a dead snake at Hertford: 9; Suffolk: 5-6.

936 oblonga *Herbst.* v. 245. pl. 54. f. 4. — *Ste. M.* iii. 36. — Oblong-ovate, flat; testaceous-brown, thickly punctured; head dusky; eyes black; thorax deeply notched in front, sides pale; scutellum fuscous; elytra slightly pubescent, margin palest, apex truncate; legs and antennæ dull-red, club of the latter black. (L. 1½ l.) Under bark, and on flowers, London district; Netley; Edinburgh, &c.: 5-6.

937 pallescens *Ste. M.* v. 406. — Oblong-ovate, rather convex; pale testaceous-yellow, with a fine silken pubescence: eyes black; thorax not emarginate in front; elytra rounded at the apex; legs and antennæ pale testaceous-yellow. (L. 1½ l.) Under bark, &c., near London: 5.

938 Silacea *Herbst.* v. 232. pl. 53. f. 3. — *Ste. M.* iii. 36. — Oblong-ovate, flattish; deep rusty-red, much punctured: thorax deeply notched in front, the sides expanded; elytra slightly punctured; legs pale red; antennæ dark rust-colour, the latter with the club acuminated. (L. 1½ l.) Under bark of trees and in flowers, near London; Netley: 5-6.

939 æstiva *L.* ii. 574. — *Oliv.* ii. pl. 3. f. 23. — *Ste. M.* iii. 37. — Oblong-ovate, flat; testaceous-yellow, finely punctulated: eyes black; thorax narrowed in front, anterior margin obscurely notched, the angles nearly straight; elytra with the apex truncate, the outer angle rounded; legs pale. (L. 1½ l.) On flowers, &c., London district; Netley: 5-6.

940 villosa *Thun. I. S.* v. 70. — *Ste. M.* iii. 37. — Ni. æstiva *Pz. F.* lxxxiv. f. 7. — Ovate, convex; slightly pubescent; pale-testaceous, thickly punctured: eyes black; thorax narrowed in front, the anterior margin broadly and deeply notched; scutellum punctate; elytra wide, the apex somewhat truncate, with the outer angle rounded. (L. 1¼-1½ l.) Under bark, &c., London district; Norfolk; Suffolk; Swansea; Notts: 5-6.

941 obsoleta *Ill. K.* i. 384. — *Ste. M.* iii. 38. — Ovate, flat, obtuse, slightly pubescent; rusty-testaceous: eyes black; thorax deeply and broadly notched in front, the sides rounded to the hinder angle, and a little flattened; elytra impressed towards the middle, the apex truncate, with rounded angles; legs short, stout, pale-testaceous. (L. 1¼-1½ l.) Under bark, &c., London district; Bottisham; Norfolk; Dorsetshire; N. Wales; Carfin, &c., in Scotland: 5-6.

942 variegata *Herbst.* v. 245. pl. 54. f. 3. ? — *Ste. M.* iii. 38. — Ovate, rather convex; rusty-red, somewhat deeply punctured: eyes black; thorax as in No. 944., with the sides palest, the disc darker: elytra ovate, slightly

pilose, the disc with a round blackish spot in the middle, and sometimes a dusky mark within the apex; legs reddish. (L. 1¼ l.) Under bark, &c., London district; Swansea, &c.: 5-6.

943 fuscicollis *Waterhouse.* — *Ste. M.* v. 406. — Oblong-ovate, slightly depressed; pale testaceous: thorax fuscous, with its anterior margin entire; elytra with the apex rounded. (L. 1¼ l.) Under bark, &c., near London: 5.

944 impressa *Kirby.* ? — *Ste. M.* iii. 39. — Ovate, slightly convex, testaceous-yellow, finely punctured: head with a deep frontal impression; eyes black; thorax with the anterior margin broadly, but slightly notched; the sides rounded; elytra wide, the suture fuscous, the apex slightly truncate, with the angles rounded. (L. 1½ l.) Under bark, &c., near London; Edinburgh; and in Suffolk: 5-6.

945 pusilla *Ill. K.* i. 386. ? — *Ste. M.* iii. 39. — Oblong-ovate, flat, slightly pubescent; ferruginous; thickly punctured: eyes black; thorax somewhat 4-drate, with the sides nearly straight, the anterior margin broadly notched; elytra oblong-ovate, with the apex rounded, and slightly gaping towards the suture. (L. 1¼ l.) Under bark, &c., London district; Netley: 5-6.

946 pygmæa *Gyll.* i. 226. — *Ste. M.* iii. 39. — Ovate, flattish; red-brown, thickly and deeply punctured: eyes black; thorax deeply notched in front, the sides broadly flattened and nearly straight; elytra slightly pubescent; margin pale, apex obtuse, rounded; legs pale testaceous. (L. 1¼ l.) Under bark, &c., near London: 5-6.

947 truncata *Kirby.* ? — *Ste. M.* iii. 39. — Ovate, rather convex, very much punctured; testaceous; with the head and thorax rather obscure dusky; eyes black; thorax with a narrow notch in front, the sides rounded, palish; elytra ovate, the apex slightly truncate, with the angles rounded; legs pale. (L. 1 l.) Under bark, &c., London district; Norfolk; Suffolk; New Forest: 5-6.

948 affinis *Marsham.* ? — *Ste. M.* iii. 40. — Short, ovate, slightly convex; testaceous, villose: head tawny; eyes black; thorax rather tawny, slightly notched in front; elytra short, spotless, the apex rather obliquely truncate, the angles slightly rounded. (L. 1 l.) Under bark, &c., London district; Suffolk: 5-6.

949 melanocephala *Marsh.* i. 136. — *Ste. M.* iii. 40. — Short, ovate, slightly convex; red or pitchy-black; elytra testaceous, the apex somewhat truncate obliquely, the angles rather acute; tip and abdomen acute; legs and antennæ pale testaceous. (L. 1 l.) Under bark, &c., near London; Sevenoaks; Humby: 12-5.

950 limbata *Fab. E.* i. 352. — *Oliv.* ii. pl. 3. f. 18. — *Ste. M.* iii. 40. — Ovate, rather convex; rusty-red, thickly punctured: head fuscescent; eyes black; thorax deeply and broadly notched in front, truncate behind; the disc dusky; elytra rounded at the tip, brown-black, with a reddish margin; body pitchy-black beneath. (L. 1-1¼ l.) In flowers, &c., Hertford; Suffolk; Norfolk; Hull; N. Wales; Netley: 5-6.

951 rufomarginata *Davis.* — *Ste. M.* iii. 40. — Ovate, somewhat convex, black, with the margins of the thorax and of the elytra red. (L. 1 l.) In flowers, &c., near London and Sevenoaks, and in Scotland: 5-6.

952 10-guttata *Fab. E.* i. 350. — *Oliv.* ii. pl. 3. f. 24. ? — *Ste. M.* iii. 40. — Oblong-ovate, rather convex; dusky rust-colour, deeply punctured: eyes black; thorax short, deeply notched in front; the lateral margins and a dorsal line pale griseous; elytra with the apex obliquely truncate; the disc with 5 pale spots (the 5th sometimes united with the 3d); legs pale testaceous: ♂ with hinder thighs slightly toothed. (L. 1-2 l.) Under bark, Coombe Wood; Swansea; Cramond: 5-6.

155 Strongylus *Herbst.*

953 strigatus *Fab. E.* i. 350. — *Ste. M.* iii. 42. pl. xvi. f. 5. — Ovate, convex; deep fuscous: head in front, and sides of thorax, dull red; elytra thickly punctulate, with a slightly flexuous longitudinal pale mark at the base, a short curved transverse band behind the middle, and a faint sutural stria; abdomen and legs pitchy. (L. 1½-2 l.) Under decayed bark of oaks, Clandon Common, 7; Coombe Wood, 6; Netley.

954 imperialis *Fab. E.* i. 350. — *Ste. M.* iii. 43. — *Cur.* viii. pl. 339. — Ovate, convex; deep fuscous: head, sides of the thorax, and of the elytra and the suture, dull red, disc of the latter with a large common lobate white patch, with about 4 black or dusky spots; abdomen pitchy black; legs and antennæ testaceous. (L. 1¼-1½ l.) Clandon Common, 7; Coombe Wood; Wanstead; Windsor; Penllergare Woods, under bark: 5-6.

955 fervidus *Oliv. E.* ii. 15. pl. 4. f. 32. — *Ste. M.* iii. 43. — Oblong-ovate, convex; glossy rust-colour, very thickly punctured: eyes black; thorax deeply and broadly notched in front; elytra slightly pubescent, punctate, the apex obtuse and sometimes dusky; legs pale rusty-red; antennæ short, the basal joint much dilated, the club large, coarctate, somewhat globose, and at times pitchy-brown. (L. 2 l.) In fungi, near London, and at Ripley; Annan: 6.

956 ferrugineus *Fab. E.* i. 349. — *Pz. F.* lxxxiv. f. 2. — *Ste. M.* iii. 44. — Ovate; dusky ferruginous; densely pubescent: thorax deeply notched in front; elytra coarsely punctate-striate, the interstices pubescent, the pubescence disposed in rows; abdomen pitchy-black beneath, or pitchy-brown. (1¾-2¼ l.) In Lycoperdons, Dover, 8; Guilford, 9; Coombe Wood; Epping; Gogmagog Hills, Cambridge, 10; Gibside; Walbeck; Ravelston: 5-7.

156 Campta *Kirby.*

957 lutea *Herbst.* iv. 183. pl. 43. f. 3. — *Ste. M.* iii. 44. — Rounded ovate; testaceous-yellow; eyes black; above densely pubescent, beneath glabrous; thorax very convex, the sides dilated; elytra broad and obtuse at the apex. (L. 1¾-2½ l.) On flowers; Darenth; Ripley; Swansea; High Bickington, Devon; Annan: 5-6.

157 Meligethes *Kirby.*

958 Dulcamaræ *Scop. C.* 22. — *Ste. M.* iii. 45. — Oblong-ovate; olive-brown, slightly pubescent: the head, scutellum, suture of the elytra, and abdomen fuscous, or black; thorax broad, its anterior edge entire; legs pale testaceous. (L. ¾-1 l.) Grassy banks, &c., Hertford; Ripley; Coombe Wood; Swansea; Norfolk; Suffolk; 5-6.

959 rufipes *De Geer*, iv. 188. — *Ste. M.* iii. 45. — Ni. atrata *Oliv.* ii. pl. 4. f. 31. — Flat, ovate, obscure black, slightly pubescent: mouth pitchy; antennæ dull red, club black; thorax wide, with a notch in front, the margin reflexed, dull red; legs short, stout, testaceous-red, or slightly pitchy. (L. 1¼-1½ l.) On flowers, every where: 5-8.

960 flavimanus *Kirby.* — *Ste. M.* iii. 46. — Flat, ovate, convex; dull black, slightly pubescent: thorax with a shallow notch in front; anterior legs testaceous-red. (L. 1-1¼ l.) In flowers, Hertford; Swansea; Suffolk: 5-6.

961 subcastaneus *Ste. M.* v. 406. — Deep chestnut-red above, pale beneath: eyes black; legs testaceous; antennæ dull red, with the club fuscous. (L. 1½ l.) In flowers, Cambridge and Hertford: 6.

962 viridescens *Fab. E.* i. 353. — *Pz. F.* lxxxiii. f. 7. — *Ste. M.* iii. 46. — Oblong-ovate, rather convex; nearly glabrous; green-blue, green, or blue-black above; thickly punctured: base of antennæ and the legs testaceous-red; anterior tibiæ simple, i. e., not spinulose on the outer edge. (L. 1-1¼ l.) In flowers, London district; Bottisham; Netley; Swansea; Carlisle; Edinburgh: 5-6.

963 cæruleus *Marsh.* i. 132. — *Ste. M.* iii. 46. — Oblong-ovate, rather convex; very slightly pubescent; above blue-black, or blue, or violet; legs dusky, or black, with the anterior tibiæ paler, and simple. (L. 1-1½ l.) With the foregoing species: 5-6.

964 æneus *Fab. E.* i. 353. — *Pz. F.* lxxxiii. f. 6. Me. Urticæ *Ste. M.* iii. 47. var. — Oblong ovate, rather convex; thickly punctulate; slightly pubescent; above brassy-green, or violet, rarely with a bluish-tinge; legs reddish; thighs pitchy; anterior tibiæ slightly serrated without. (L. 1-1¼ l.) In flowers, London district; Bottisham; Edinburgh, &c.: 5-6.

965 nigrescens *Ste. M.* iii. 47. — Oblong-ovate; slightly convex and pubescent; above of a deep fuscous-black; antennæ and legs entirely dusky. (L. 1-1¼ l.) In flowers, London district: 5-6.

966 Pedicularius *L.* ii. 574. ? — *Oliv.* ii. 19. pl. 3. f. 21. — *Ste. M.* iii. 47. — Short, ovate, convex; black, shining, punctate: thorax short, convex, slightly notched in front; elytra with an obscure brassy tinge; legs pitchy or dull testaceous, short, the tibiæ dilated towards the apex and outwardly ciliate-denticulate, the hinder pair obtusely angulated in the middle; base of antennæ dull red. (L. ¾-1 l.) In flowers, London district; Swansea; Scotland, common: 5-6.

967 xanthoceras *Ste. M.* iii. 48. — Oblong-ovate, black; punctured; slightly pubescent: thorax very short, convex, scarcely notched in front; antennæ and legs wholly testaceous-yellow; anterior tibiæ denticulate externally. (L. ¾-1 l.) In flowers, near London: 5.

968 nigricornis *Kirby* — *Ste. M.* iii. 48. — Oblong-ovate; greenish-black, punctulated: thorax slightly notched in front, convex; antennæ and legs wholly black; the anterior tibiæ denticulated without. (L. ¾-1 l.) In flowers, Swansea: 5.

969 subrugosus *Gyll.* i. 236. — *Ste. M.* iii. 48. — Short, ovate, convex; black, very thickly punctured: thorax very slightly notched in front; elytra with a delicate griseous pile, punctured, the punctures united transversely, producing a wrinkled appearance; legs pitchy; antennæ with the club acuminated. (L. ½-1 l.) In flowers, London district; Netley: 5-6.

970 niger *Ent. M.* (*Newman*) ii. 200. — *Ste. M.* v. 407. — Black; punctured, the punctures deepest on the thorax and elytra, the latter with a greyish pile, narrowed behind; legs pitchy-black, anterior lightest; antennæ the same, with the basal and terminal joints palest. (L. ½ l.) In flowers, London district: 5-6.

971 nigrinus *Marsh.* i. 138. — *Ste. M.* iii. 48. — Short, ovate; very smooth and glossy black: thorax scarcely notched in front; elytra somewhat truncate; antennæ and legs black. (L. ½-1 l.) In flowers, London district; Norfolk; Yorkshire; Scotland: 5-6.

972 erythropus *Marsh.* i. 132. — *Ste. M.* iii. 49. — Short, ovate, convex; deep black, with a brassy tinge; very thickly punctulate: thorax scarcely notched in front; elytra slightly truncate; legs and antennæ dull rusty-red; tibiæ slightly ciliated. (L. ½-1 l.) In flowers, London district; Bottisham; Netley: 5-6.

158 Pria *Kirby*.

973 truncatella *Marsh.* i. 123. — *Ste. M.* iii. 50. — Oblong-ovate; pale tes-

taceous-brown; slightly pubescent; elytra with a single stria near the suture, which is brownish, the apex slightly truncate; legs and antennæ pale testaceous, club dusky; eyes black. (L. ⅔ l.) Near London; Darenth Wood, 6; Suffolk, on flowers.

159 Carpophilus *Leach.*

(974 hemipterus *L.* ii. 565. — *Ste. M.* iii. 50. — *Herbst.* v. pl. 34. f. *e.* — Oblong-ovate, above brown-black, pubescent; punctate: elytra with 1 or 2 spots at the shoulder, and a broad patch at the apex dull yellow; legs dull red. (L. 1½-2 l.) London district, &c. mostly in houses: ⊙.)

(975 pusillus *Ste. M.* iii. 51. — Oblong-ovate; above brown-black, slightly pubescent: elytra testaceous-brown, immaculate, or with a faint tawny spot at the apex; body beneath, legs and antennæ testaceous-red. (L. 1-1½ l.) London, &c., in brown sugar: probably introduced.)

160 Anisocerus *Howitt.*

976 Spirææ *Howitt.* — *Ste. M.* v. 458. — Depressed; rather broad, testaceous: thickly and deeply punctate: eyes and breast black; ♀ with a broad smooth line down the centre of the thorax. (L. 1 l.) Spiræa ulmata (fl.): Oxton Bog, Notts: 5-6.

161 Cateretes *Herbst.*

977 bipustulatus *Pk. F.* i. 286. — *Ste. M.* iii. 51. — Oblong-ovate, black: very deeply punctured: mouth reddish; elytra broad, much shorter than the abdomen; the disc with a large angulated pale red spot in the middle, apex truncate; antennæ and legs pale reddish. Variable: sometimes rusty-black, the elytra dull red, with the margin, angle of the scutellum, and apex black, or dull red, with the abdomen fuscous. (L. 1¾-2 l.) Marshy districts; Battersea fields; Netley; on Caltha palustris; Shetty Bog; Notts: 4-6.

978 Pedicularius *L.* ii. 564. — *Pz. F.* vii. f. 5. — *Ste. M.* iii. 52. — Oblong-ovate; rusty-testaceous, deeply punctate: eyes black; thorax transversely ovate, slightly convex; elytra dull red, or pale testaceous; body beneath brown, with the apex paler; legs short, pale testaceous; tibiæ slender at the base, much dilated at the tip. (L. 1-1½ l.) Flowers of aquatic plants; London district; Netley; Swansea: 5-6.

979 Agarici *Kirby.* — *Ste. M.* iii. 54. — Pitchy-black; very much punctulated; slightly glossy; elytra somewhat pubescent; antennæ and legs pitchy-red. (L. ½-¾ l.) In Agarics, near Bristol, and in Suffolk: 5-6.

980 Caricis *Spence.* — *Ste. M.* iii. 54. — Convex; deep glossy black, very much punctulated: antennæ and legs red; extremity of the abdomen pitchy-black. (L. ½-¾ l.) On Carices, near Hull, and in Norfolk; Netley: 5-6.

981 Junci *Kirby.* — *Ste. M.* iii. 54. — Black, much punctulated; head and thorax pitchy; antennæ, legs, and exposed upper portion of the abdomen red, base of the latter beneath black. (L. ¾ l.) Rushes; near Bristol; Hull; Netley: 5-6.

982 rufilabris *Latr. G.* ii. 16. — *Ste. M.* iii. 54. — Ovate, glossy black; coarsely and irregularly punctate; with a griseous pile; last segment of the abdomen above nearly glabrous; elytra somewhat wrinkled, their hinder margin smooth, antennæ and legs red. (L. ¾-1 l.) Damp places, amongst Carices and rushes; near London; Crwmlyn Bog: 5-6.

983 Urticæ *Fab. E.* i. 320. — *Ste. M.* iii. 52. — Sc. scutellatum *Pz. F.* iv. f. 11. — Oblong-ovate: black, with a brassy hue; deeply punctate and

slightly villose; thorax somewhat rounded in front; abdomen rather acute, black; antennæ and legs pale red, the latter short. (L. $\frac{3}{4}$-1 l.) Among nettles, London district; Netley; Swansea; Edinburgh: 5-6.

984 Linariæ *Kirby*. — *Ste. M.* iii. 53. — Oblong-ovate; deep black; finely punctate and slightly pubescent: thorax wide, straight in front; elytra truncate; legs black, or pitchy; anterior tarsi and antennæ rusty-red. (L. $1\frac{1}{4}$ l.) On Linariæ, near London, and in Suffolk: 5-6.

985 nitidus *Kirby*. — *Ste. M.* iii. 53. — Oblong-ovate, convex; pitchy-ferruginous; glossy; punctulated: antennæ and legs pale red. (L. 1 l.) Grassy banks; London district; Bristol; Suffolk: 5-6.

986 glaber *Ent. M.* (*Newm.*) ii. 200. — *Ste. M.* v. 407. — Very black and shining; antennæ black, club slightly downy; head, thorax and elytra shining, sparingly covered with a grey villosity; elytra short and abruptly truncate; legs entirely black. (L. $\frac{2}{3}$ l.) Nettles, between Ipswich and Woodbridge, Suffolk: 5.

987 ruficornis *Marsh.* i. 131. — *Ste. M.* iii. 53. — Oblong-ovate, convex; deep glossy-black; faintly punctulated; antennæ and legs entirely red. (L. $\frac{1}{2}$-$\frac{3}{4}$ l.) Grassy banks, London district; Swansea: 5-6.

988 pyrrhopus *Marsh.* i. 138. — *Ste. M.* iii. 53. — Oblong-ovate; slightly convex; deep glossy black; deeply punctate: antennæ and legs red. (L. 1 l.) Grassy banks, London district; Netley: 5-6.

162 MICROPEPLUS *Kirby*.

989 porcatus *Pk. M. S.* 50. — *Oliv.* iii. pl. 4. f. 33. — *Ste. M.* iii. 55. — Obscure black; minutely punctured: sides of thorax flat, with a minute tooth in the middle, the disc foveolated; elytra rather dilated on their sides towards the apex; abdomen above with transverse and longitudinal ridges: base of antennæ and the legs entirely rusty or testaceous-red. (L. $\frac{3}{4}$-$1\frac{1}{8}$ l.) Under bark, &c. London district; Norfolk; Suffolk; Hurne; Netley; Swansea; Notts; Carlisle; Malden Park; Duddington, &c. ⊙.

990 staphylinoides *Marsh.* i. 137. — *Ste. M.* iii. 55. pl. xvi. f. 6. — Black, slightly glossy; punctulate: thorax with the sides entire and red, disc foveolated; elytra parallel; abdomen with slightly raised transverse and longitudinal lines; antennæ and legs wholly rusty-red. (L. $\frac{3}{4}$-1 l.) Under moss, &c., London district; Bottisham; Petworth; Stockton; Netley; Swansea; Edinburgh, &c.: 3-8.

991 obtusus *Ent. M.* (*Newm.*) ii. 201. — *Ste. M.* v. 40. — Entirely pale brown: head obtuse in front, and rounded; lines on the elytra more elevated than in Mi. staphylinoidis. (L. 1 l.) Under bark, &c., near Halifax and Nottingham: 5-7.

992† Tesserula *Cur.* v. pl. 204. — *Ste. M.* iii. 56. — Short; pitchy-black, shining; minutely punctured: thorax with the sides dilated, and dull red, disc with 2 foveæ behind; abdomen with a raised line down the back, and an interrupted elevated line on each side; legs dull red. (L. $\frac{3}{4}$? l.) Belfast: 2.

Fam. 20. MYCETOPHAGIDÆ *Westwood*.

clxiii. TRICHOPTERYX *Ant.* 11-jointed, 2 basal joints large, elongate, 9th and 10th joints equal, club 3-articulate: *body* oblong, 4-drate: *tho.* with sides entire: *wings* very narrow, fringed with very long hairs: *tarsi* 5-jointed.

clxiv. ANISARTHRIA *Ant.* 11-jointed, 2 basal joints large, elongate, 10th joint minute; club 3-jointed: *body* broad, somewhat ovate, convex: *tho.* with sides entire: *tarsi* 5-jointed.

clxv. ATOMARIA *Ant.* 11-jointed, basal joint large, 2d slender, longer than

the 3d; club 3-jointed: *body* elongate, ovate, rather flattened: *tho.* slightly elongate, with the sides entire, the disc without any rasied lines: *tarsi* 5-jointed.

clxvi. MYCETÆA *Ant.* 11-jointed, basal joint large, 2d slender, longer than the 3d; club 3-jointed: *body* ovate, convex, pilose: *tho.* with the sides entire, the disc with 2 raised marginal lines: *tarsi* 5-jointed, the 4th joint minute; *anter.* in ♂ with an appendage at the base.

(clxvii. HOLOPARAMECUS *Ant.* 10-jointed, basal joint subglobose, 2 next long; club 2-articulate: *body* oblong, depressed: *tho.* obcordate: *elytra* elliptical: *tarsi* 3-jointed?)

clxviii. SILVANUS *Ant.* 11-jointed, 2d joint not longer than 3d; club 3-jointed: *palpi* filiform: *tho.* rather long; more or less denticulate on the sides: *body* elongate, narrow, flat: *tarsi* 4-jointed.

clxix. LATRIDIUS *Ant.* 11-jointed, 2d joint longer than 3d; club 3-articulate: *palpi* filiform: *tho.* narrow, margined, broadest in front; flat: *body* elongate, flattish: *elytra* rather convex: *tarsi* 4-jointed.

clxx. CORTICARIA *Ant.* 11-jointed, 2d joint longer than 3d; club 3-articulate: *palpi* filiform: *tho.* rather heart-shaped, not margined, convex: *body* oblong, convex: *elytra* broad, entire: *tarsi* 4-jointed.

clxxi. PARAMECOSOMA *Ant.* 11-jointed, 2d joint ovate, shorter than 3d; club 3-articulate: *tho.* transverse, 4-drate, denticulate on the sides: *body* elongate, ovate, slightly depressed: *tarsi* 5-jointed.

clxxii. PSAMMÆCHUS *Ant.* 11-jointed, 2d joint not longer than 3d; club 3-articulate: *palpi* large, terminal joint securiform: *tho.* with its margin notched in front: *tarsi* 4-jointed, basal joints bilobed.

clxxiii. PHLOIOPHILUS *Ant.* 11-jointed, 2 basal joints large, somewhat globose: *max. palpi* with terminal joint thick, conical: *tho.* with margins entire: *body* oblong, ovate, very convex: *tarsi* 5-jointed, entire.

clxxiv. BYTURUS *Ant.* 11-jointed, gradually thickened to apex; club 3-articulate: *palpi* filiform: *tho.* somewhat trapeziform: *body* oblong-ovate, convex, tomentose: *tarsi* 5-jointed, 3d joint bifid.

clxxv. TRIPHYLLUS *Ant.* 11-jointed, basal joint thickened, 2d slender, shorter than 3d; club 3-articulate: *tho.* with margins entire, without a raised lateral line: *body* oblong, ovate, slightly convex: *tarsi* 5-jointed, simple.

clxxvi. BIPHYLLUS *Ant.* 11-jointed, 2d joint obconic, short; club 2-jointed: *tho.* with the margins entire; with a raised line on each side, disc convex: *body* ovate, rather convex, pilose: *tarsi* 5-jointed, simple.

clxxvii. TYPHÆA *Ant.* 11-jointed, basal joint large, 2d slender, as long as the 3d, all longish; club 3-jointed: *palpi* short, rather filiform: *tho.* with margins entire: *body* oblong-ovate, flattish, pubescent: *tarsi* 5-jointed, heteromerous in ♂.

clxxviii. MYCETOPHAGUS *Ant.* 11-jointed, rather slender, gradually increasing in size, and terminating in a somewhat indistinct, elongate, 5-articulate club: *tho.* with margins entire: *body* ovate, slightly convex: *tarsi* 5-jointed, simple; *anter.* in ♂ 3-jointed only.

clxxix. TETRATOMA *Ant.* 11-jointed; club distinctly 4-articulate: *mand.* bifid at tip: *tho.* transverse, convex, rounded: *body* oblong, convex: *tarsi* heteromerous.

163 TRICHOPTERYX *Kirby.*

993 atomaria *De Geer.* iv. 208. pl. 8. f. 16-20. — *Ste. M.* iii. 60. — Brownish-black; delicately pubescent, and finely punctured; head black, acute in front; thorax convex, the sides rounded; elytra with the tip obtuse; somewhat obliquely truncate; body pitchy-black; legs and

antennæ pale red, tip of latter dusky. (L. $\frac{1}{2}$ l.) Gardens, hedges, &c. London district; Swansea: 2-8.

994 minima *Marsh.* i. 80. — *Ste. M.* iii. 60. — Flat; head and thorax deep glossy black; obscurely punctured: elytra paler, with the tip still more diluted; antennæ dull red; legs pale red. (L. $\frac{1}{3}$ l.) In moss, &c., near London: 3-6.

995 pusilla *Gyll.* i. 189. — *Ste. M.* iii. 60. — Rather convex; deep glossy black; very finely punctured; elytra concolorous to the apex; legs and antennæ very pale testaceous. (L. $\frac{1}{3}$ l.) In moss, &c., London district: 3-6.

996 nana *Ste. M.* iii. 60. — Very short, ovate, pitchy-black; punctulate and slightly pubescent; elytra concolorous to the apex; antennæ pitchy-black; legs pale-reddish. (L. $\frac{1}{8}$ l.) In moss, &c., near London: 3-6.

997 minuta *Ste. M.* iii. 61. — Oblong-ovate, slightly convex, pitchy-black, slightly pubescent, and finely punctured: elytra rather pitchy at the apex; antennæ and legs pale reddish. (L. $\frac{1}{6}$ l.) In moss, &c., near London: 3-6.

998 trisulcata *Spence.* ? — *Ste. M.* iii. 61. — Oblong-ovate; deep pitchy-black; punctulate; the thorax with three very obscure sulci behind; legs pale, antennæ black. (L. $\frac{1}{8}$ l.) In moss, &c., near London: 3-6.

999 Titan *Ent. M.* (*Newm.*) ii. 201. — *Ste. M.* v. 407. — Minute; black; legs very pale dirty white. (L. $\frac{1}{8}$ l.) In moss, near London: 3.

164 Anisarthria *Waterhouse.*

1000 punctula *Ste. M.* iii. 62. — Somewhat elongate-ovate, shining black, slightly pubescent, and very obsoletely punctulate; antennæ and legs pale dirty white. (L. $\frac{1}{4}$ l.) In moss, &c., near London and in Cambridgs.: 3-6.

1001 minutissima *Kirby.* — *Ste. M.* iii. 62. — Ovate; brown-black, very slightly pubescent, and faintly punctulated; elytra reddish-brown, or pitchy; antennæ and legs pale ochreous. (L. $\frac{1}{6}$ l.) In moss, &c., near London; Norfolk; Bristol: 3-6.

1002 perpusilla *Marsh.* i. 80. — *Ste. M.* iii. 62. — Somewhat oblong-ovate; deep glossy black, very obscurely punctate, and scarcely pubescent: thorax very convex in front, and considerably dilated; elytra flatter, piceous at the apex; legs pale; antennæ testaceous. (L. $\frac{1}{3}$ l.) In moss, &c., near London, Swansea, and Norfolk: 3-6.

1003 melas *Marsh.* i. 78. — *Ste. M.* iii. 63. — Oblong-ovate, slightly convex; deep shining black, obscurely punctured, somewhat pubescent: elytra concolorous at the tip; antennæ and legs testaceous. (L. $\frac{1}{8}$-$\frac{1}{4}$ l.) In moss, &c., London district and Swansea: 3-6.

1004 nitida *Ste. M.* iii. 63. — Short, ovate, slightly convex; deep black, very glossy; the apex of the elytra concolorous; antennæ and legs pale testaceous. (L. $\frac{1}{3}$ l.) In moss, &c., London district, and in Norfolk: 3-6.

1005 pilosella *Marsh.* i. 78. — *Ste. M.* iii. 63. — Ovate; chestnut, shining: head dusky or deep black; thorax dilated on the sides, and elytra pilose, the latter rather narrowed behind; body beneath, legs and antennæ dull red. (L. $\frac{1}{2}$ l.) In moss, &c., near London: 3-6.

1006 nitidula *Marsh.* i. 79. — *Ste. M.* iii. 63. — Ovate, convex; pitchy-black, shining, pubescent: elytra parallel, the apex dull-pitchy: body beneath, legs and antennæ red. (L. $\frac{1}{3}$ l.) In moss, &c., near London: 3-6.

1007 brunnea *Marsh.* i. 78. — *Ste. M.* iii. 64. — Oblong; flattish; slightly pubescent; reddish-brown; shining: head black; antennæ and legs testaceous. (L. $\frac{1}{3}$ l.) In moss, &c., near London: 3-6.

165 Atomaria *Kirby.*

1008 fulvicollis *Ste. M.* iii. 64. — Oblong-ovate, slightly convex; shining chestnut, rather pubescent: thorax bright tawny; eyes dusky; legs and antennæ tawny-red, the latter remote. (L. ½ l.) Grassy banks, &c., Dover; Bristol; Norfolk: 3-6.

1009 thoracica *Ste. M.* iii. 65. — Rather slender; elongate-linear, slightly flattened, shining reddish-chestnut, with the thorax paler; legs and antennæ tawny-chestnut, the latter remote. (L. ½ l.) Banks, &c., near London and Ripley: 3-6.

1010 evanescens *Marsh.* i. 126. — *Ste. M.* iii. 65. — Oblong; pitchy-black, shining: elytra pale pitchy at the apex; legs and antennæ pale rust-colour, the latter remote. (L. ½ l.) Banks, &c., near London, and in Norfolk and Suffolk: 3-6.

1011 phæogaster *Marsh.* i. 125. — *Ste. M.* iii. 65. — Oblong-ovate; shining red: eyes black; base of the elytra and the abdomen fuscous, the latter glabrous and shining; legs red; antennæ remote and testaceous. (L. ⅓-½ l.) Banks, &c., Battersea fields, &c.: 3-6.

1012 basella *Kirby.* — *Ste. M.* iii. 65. — Elongate; slightly flattened; shining testaceous-red: base of the elytra dusky-black; legs and antennæ reddish, the latter remote. (L. ½ l.) Banks, &c., near London, and Barham: 3-6.

1013 atricapilla *Kirby.* — *Ste. M.* iii. 66. — Oblong-ovate; pale shining testaceous-red: head dusky or black; scutellum chestnut; legs and antennæ pale testaceous, the latter remote. (L. ½ l.) Banks, &c., London district; Netley; Norfolk; Suffolk: 3-6.

1014 testacea *Kirby.* — *Ste. M.* iii. 66. — Elongate; testaceous-red; glabrous; thorax paler, with an impressed punctate stria behind; eyes fuscous. (L. ¾ l.) Banks, &c., Suffolk: 3-6.

1015 castanea *Kirby.* — *Ste. M.* iii. 66. — Oblong-ovate; chestnut, shining; glabrous: antennæ and legs paler, the former remote; eyes fuscous. (L. ¾ l.) Banks, &c., London; Devonshire; Norfolk; Suffolk: 3-6.

1016 nigripennis *Pk. F.* i. 292. — *Ste. M.* iii. 67. — Cr. ruficollis *Pz. F.* xcix. f. 13. — Ovate, convex; shining testaceous-red, glabrous: elytra punctate and black; abdomen pitchy-red: legs and antennæ bright ferruginous, the latter remote. (L. 1 l.) Banks, &c., Battersea fields; Norfolk; Suffolk: 3-6.

1017 mesomelas *Herbst.* iv. 143. pl. 41. f. 7. — *Ste. M.* iii. 67. — Ovate, convex; black, pubescent: elytra testaceous, with the base distinctly black for about ⅓ of their length; legs and antennæ pale testaceous-red, the latter remote, and with a dusky club. (L. ¾ l.) Banks, &c., near London, and in Norfolk: 3-6.

1018 dimidiata *Marsh.* i. 112. — *Ste. M.* iii. 67. — Oblong-ovate, slightly convex; deep fuscous-black; very thickly punctured; the apical half of the elytra yellow or ochreous; legs testaceous; antennæ remote, with the club fuscous. (L. ¾-1 l.) Banks, &c., near London and Bristol: 3-6.

1019 atra *Herbst.* iv. 15. pl. 45. f. 5. — *Ste. M.* iii. 67. — Ovate, convex; black, pubescent: thorax broad behind, the angles deflexed; elytra broad at the base, dilated in the middle, acute and bright rusty-red at the apex; legs dark rusty-red; antennæ paler, and remote. (L. ½-⅔ l.) Banks, &c., London district: 3-6.

1020 carbonaria *Kirby.* ? — *Ste. M.* iii. 68. — Somewhat ovate, convex; deep glossy black; slightly pubescent; elytra very thickly and finely punctulate, the apex rather acute and fuscescent; legs and antennæ deep fuscous, the latter remote. (L. ⅔ l.) Banks, &c., near London, and in Norfolk: 3-6.

1021 fuscipes *Gyll.* i. 182. — *Ste. M.* iii. 68. — Oblong-ovate; black; pubescent; finely punctured: thorax very convex, broadly margined behind; elytra dilated in the middle, slightly acute at the apex; legs and antennæ deep black, the latter remote. (L. $\frac{1}{2}$-$\frac{2}{3}$ l.) Banks, &c., Battersea fields: 3-6.

1022 gutta *Ent. M.* (*Newm.*) ii. 201. — *Ste. M.* v. 407. — Pitchy-black; thorax and elytra black, the latter with a distinct red spot on the centre of the suture, being half on each elytrum; legs dull red; antennæ the same, with the basal half of the apical and the 3 preceding joints fuscous. (L. $\frac{3}{4}$ l.) In moss, &c., near Humby and London: 6.

1023 rufipes *Ste. M.* iii. 68. — Oblong-ovate, rather flat; pitchy-black; very slightly pubescent; elytra a little dilated in the middle, and rather tawny at the tip; legs and antennæ bright rusty-red, the latter remote. (L. $\frac{1}{2}$ l.) Banks, &c., near London; in Norfolk; Devonshire, &c.: 3-6.

1024 ruficornis *Marsh.* i. 125. — *Ste. M.* iii. 68. — Oblong-ovate, slightly convex; glossy black: thorax fuscous; legs and antennæ rusty-red, the former remote. (L. $\frac{1}{2}$-$\frac{2}{3}$ l.) Banks, &c., London district; Norfolk; Suffolk: 3-6.

1025 dorsalis *Kirby.* — *Ste. M.* iii. 69. — Short, ovate, slightly convex; pitchy: antennæ and legs rusty-red, the former remote; base of the elytra near the scutellum black. (L. $\frac{1}{2}$ l.) Banks, &c., near London, and Suffolk: 3-6.

1026 nigrirostris *Kirby.* — *Ste. M.* iii. 69. — Oblong, flat; pitchy-red: head black; legs and antennæ rusty-red, the latter approximating. (L. $\frac{1}{2}$-$\frac{2}{3}$ l.) Banks, &c., Battersea fields; Suffolk, &c.: 3-6.

1027 nigriventris *Kirby.* — *Ste. M.* iii. 69. — Oblong, slightly flattened; testaceous: thorax and abdomen fuscous-black; legs and antennæ tawny, or reddish testaceous, the latter approximating. (L. $\frac{1}{2}$-$\frac{2}{3}$ l.) Banks, &c., London district, and Suffolk: 3-6.

1028 linearis *Ste. M.* iii. 70. — Elongate, linear, flat; black; slightly pubescent: antennæ and legs chestnut. (L. $\frac{1}{2}$-$\frac{2}{3}$ l.) Banks, &c., London district: 3-6.

166 MYCETÆA *Kirby.*

1029 fumata *Marsh.* i. 65. — *Ste. M.* iii. 80. pl. xvii. f. 1. — Oblong-ovate, slightly convex; pale ochreous-testaceous; head and thorax somewhat rusty, impunctate; elytra finely punctate-striate, clothed with minute pale hairs; legs and antennæ pale testaceous. (L. $\frac{1}{2}$ l.) Near London; at Nottingham and Hawick, in cellars: ⊙.

1030 hirta *Marsh.* i. 124. — *Ste. M.* iii. 66. — *Cur.* xi. pl. 502. — Oblong-ovate; rather dilated in the sides, convex; rusty-red, pilose; elytra deeply punctured, the punctures somewhat disposed in lines; antennæ and legs pale dull red. (L. $\frac{3}{4}$ 1 l.) Grassy banks, &c., London district; Netley; Swansea; Norfolk; Suffolk; Devonshire: ⊙.

167 HOLOPARAMECUS *Curtis.*

(1031 depressus *Ent. M.* (*Cur.*) i. 186. — *Ste. M.* v. 410. — *Cur.* xiii. pl. 614. — Testaceous, shining, sparingly punctured: eyes black; thorax with a transverse suture behind; the edges of the hinder angles slightly raised, and the base on each side with a deep abbreviated longitudinal channel; elytra with a short sutural stria. (L. $\frac{1}{2}$ l.) Norfolk; gardens, flying, Hertford and South Lambeth, 6; and in flour.)

168 SILVANUS *Latreille.*

(1032 Surinamensis *L.* ii. 565. — *Ste. M.* iii. 104. note. — De. 6-dentatus. *Pz. F.* xiv. f. 11. — Testaceous-brown; pubescent; thorax with 3 raised

longitudinal lines, the lateral margins each with 6 stout denticulations; elytra punctate-striate, alternate interstices elevated; legs testaceous. (L. 1½ l.) In sugar casks, &c.)

(1033 dentatus *Marsh.* i. 108. — *Ste. M.* iii. 104. note. — Dull reddish; antennæ, head, and thorax dusky; elytra lighter, with 3 elevated obscure striæ, with a slender one between each; thorax with the lateral margins crenate-dentate, and 2 foveæ near the base; hinder thighs with a strong tooth. (L. 2 l.) Also in sugar casks, &c.)

1034 unidentatus *Fab. E.* i. 317. — *Lat. G.* iii. pl. 11. f. 2. — *Ste. M.* iii. 105. — Rusty-testaceous; punctate; glabrous: eyes black; thorax elongated, narrowed behind, the anterior angles acutely produced; elytra finely punctate-striate; legs and antennæ dull-red. (L. 1¼-1¾ l.) Under bark; Hainault and New Forests: 6-7.

169 Latridius *Herbst.*

1035 lardarius *De Geer*, v. 45. pl. 2. f. 25-31. — *Ste. M.* iii. 111. — Elongate; testaceous-red; glabrous: thorax oblong-quadrate, flat; with 2 parallel ridges, dividing a deep basal fovea into 3 parts; elytra ample, rather narrowed at the tip, the disc punctate-striate; legs and antennæ pale testaceous, joints of the former dusky. (L. 1-1½ l.) Dunghills, &c., London district; Yorkshire; Carlisle: 3-6.

1036 angusticollis *Schüppel.* — *Gyll.* iii. 186. — *Ste. M.* iii. 111. — Elongate; testaceous-brown, or chestnut: thorax oblong-quadrate, a little narrowed behind, the disc with 2 ridges, and an interrupted basal fovea as in the last species; elytra with the shoulders much elevated, the sides expanded, the apex obtusely rounded, and the disc deeply punctate-striate. (L. 1 l.) Hedges near London: 3-6.

1037 rugicollis *Oliv.* ii. pl. 3. f. 19. — *Ste. M.* iii. 111. — Rather short, testaceous brown: thorax 4-drate, anterior angles rounded, not elevated; disc with 2 ridges, elytra with the apex rounded, the disc punctate-striate, the alternate interstices and suture somewhat elevated; legs and antennæ testaceous, club of the latter dusky. (L. ¾-1 l.) Near London, and in Norfolk: 1-6. In moss, Humby: 12.

1038 carinatus *Gyll.* iii. 137. — *Ste. M.* iii. 112. — Elongate, narrow; brown, opaque: thorax somewhat heart-shaped, disc with 2 obscure ridges, vanishing behind, the base with a continuous transverse channel; elytra rounded at the tip, the disc punctate-striate, the alternate interstices and suture elevated; antennæ and legs testaceous. (L. ¾ l.) Hedges, London district: 3-6.

1039 hirtus *Gyll.* iv. 130. ? — *Ste. M.* iii. 112. — Oblong; black; slightly opaque; thickly punctulate: thorax somewhat 4-drate, disc with a deep central channel, terminating near the base in a deeper fovea; elytra punctate-striate, the interstices with erect, rigid, ashy hairs: legs and antennæ reddish or pitchy. (L. 1 l.) Pettyward Wood, &c.: 3-6.

1040 transversus *Oliv.* ii. 14. pl. 3. f. 20. — *Ste. M.* iii. 112. — Oblong; dull red; rather thickly punctulate: thorax short, broad, a little narrowed in front, with a deep transverse fovea near the base; neck exposed, punctulated; elytra rather deeply punctate-striate; legs testaceous; antennæ dull red, rather short in the ♂. (L. ¾-4 l.) Under moss, bark, &c., London district; Bottisham; Edinburgh: ⊙.

1041 porcatus *Herbst.* v. pl. 41. f. 4. — *Ste. M.* iii. 113. — Oblong; pitchy-black; punctulated: thorax somewhat heart-shaped, waved in front, the anterior angles rounded and ample, the disc with a faint channel and a transverse basal impression; elytra shining, deeply punctate-striate; legs and

antennæ ferruginous. (L. 1 l.) Under bark, roots, &c., London district; Nottingham; Edinburgh, &c.: ⊙.

1042 nodifer *Westwood Int.* i. 155. pl. 13. f. 23. — Pitchy-black: thorax narrow, constricted behind the middle, the disc with 2 ridges; elytra punctate-striate, with 2 tubercles behind the middle. (L. 1 l.) Roots of white thorn: Chiswick and Coombe Wood: 8-9.

1043 rugosus *Herbst.* vi. pl. 44. f. 3. — *Ste. M.* iii. 113. — Oblong; black: thorax broad, short, rather narrowed in front, the base with a deep transverse impression, the disc with an obscure dorsal channel; elytra rather faintly punctate-striate; interstices not elevated; antennæ, mouth, and legs dull red. (L. 1 l.) Hedges; London district: 3-6.

1044 testaceus *Waterhouse.* — *Ste. M.* iii. 114. pl. xviii. f. 3. — Short; somewhat convex; testaceous, slightly glossy: thorax very short, wide; bisinuated in front, disc slightly convex; with an obscure channel, and a deep somewhat 3-lobed transverse basal fovea; elytra obsoletely punctate-striate; antennæ and legs pale testaceous. (L. $\frac{3}{4}$ l.) Old Brompton: 5.

1045 ruficollis *Marsh.* i. 111. — *Ste. M.* iii. 114. — Elongate; pale testaceous, shining, glabrous: thorax oblong, constricted towards the middle, with a faint dorsal channel in front, and a transverse impression behind; elytra fuscous, deeply punctate-striated, interstices alternately elevated, apex rounded; antennæ and legs pale testaceous. (L. $\frac{3}{4}$ l.) Under bark, &c.; Dulwich; Kensington Gardens; Ripley; Bristol; Swansea; Carlisle: 3-6.

1046 elongatus *Cur.* vii. pl. 311. — *Ste. M.* iii. 115. — Elongate; narrow, pale chestnut or testaceous: thorax oblong, constricted behind the middle, the disc coarsely punctured, hinder angles slightly narrowed; elytra rather deeply punctate-striate, the 5th interstice elevated; antennæ and legs paler than the rest of the body. (L. $\frac{3}{4}$-$\frac{11}{12}$ l.) Under moss, bark, &c.; Southgate; Bristol; Humby; New Forest, &c., ⊙.

170 Corticaria *Marsham.*

1047 pubescens *Illiger.* — *Gyll.* iv. 123. — *Ste. M.* iii. 106. — Rusty-brown, dusky-piceous, or pale-testaceous; rather densely pubescent: thorax elongate, somewhat heart-shaped, the sides obscurely crenulate, the base with a large fovea; elytra closely punctate-striate, interstices also punctured, and wrinkled; breast and base of abdomen dusky. (L. 1-1$\frac{1}{3}$ l.) Old walls, &c., near London: cellars, Nottingham; Edinburgh: 3-6.

1048 crenulata *Schüp.* — *Gyll.* iv. 125. — *Ste. M.* iii. 107. — Pitchy- or rusty-brown, black or testaceous, densely pubescent: thorax shortish, the sides regularly rounded and obsoletely crenate; base with a more or less deep fovea; elytra punctate-striate, and faintly wrinkled transversely. (L. 1 l.) Battersea fields; Hertford; Walham Green (in dry fungus); Edinburgh: 3-6.

1049 denticulata *Schüp.* — *Gyll.* iv. 126. — *Ste. M.* iii. 107. — Pitchy-brown, or black, slightly pubescent: thorax short, rounded, its sides obscurely crenate; elytra punctate-striate, interstices impunctate, but obscurely rugged; legs rusty-red. (L. 1 l.) Under bark, &c.; London district: 3-6.

1050 longicornis *Herbst.* v. 4. pl. 44. f. 1. — *Ste. M.* iii. 107. — Black; slightly shining and rather pubescent: thorax a little elongate, the sides dilated and rounded before the middle, not crenate; the base narrowed, and with an obscure fovea; elytra punctate-striate, the interstices impunctate, but finely wrinkled transversely: legs and antennæ at the base reddish, tip of the latter dusky. (L. 1 l.) Under bark, &c.; London district: 3-6.

1051 linearis *Pk. F.* i. 302. — *Ste. M.* iii. 108. — Elongate, dusky-ferruginous, slightly pubescent: thorax heart-shaped, very narrow at the base, which has a shallow fovea, the sides finely crenulated; elytra wide at base, the shoulders rectangular, disc convex, punctate-striate, interstices impunctate, faintly wrinkled; legs pale testaceous; antennæ rusty, with the tip brownish. (L. ¾ l.) Under bark; London district: 3-6.

1052 ferruginea *Marsh.* i. 121. — *Ste. M.* iii. 108. — Somewhat linear, chestnut; glabrous: head blackish; thorax nearly 4-angular, scarcely narrower than the elytra, disc very thickly punctured, the base with a small fovea; elytra pale testaceous, punctate-striate, interstices impunctate; legs pale red; antennæ pale. (L. 1 l.) Under bark; London district, common; Edinburgh: ⊙, ⁎.

1053 elongata *Schüp.* — *Gyll.* iv. 132. — *Ste. M.* iii. 108. — Somewhat linear, flat; densely pubescent; testaceous: eyes black: thorax transverse, as wide as the elytra, sides near the hinder angle slightly denticulate, base with a rounded fovea; elytra pale, regularly punctate-striate, interstices impunctate; legs and antennæ pale. (L. 1 l.) Under bark; London district: 3-6.

1054 gibbosa *Herbst.* v. 5. pl. 44. f. 2. — *Ste. M.* iii. 109. — Short, convex; rusty-brown, slightly glossy: thorax narrow, rounded behind, the disc with a transverse bent fovea behind the middle; elytra pilose, punctate-striate, the tip obtusely rounded; legs and antennæ testaceous, club of the latter dusky. (L. ½-⅔ l.) Under bark, &c.; abundant in London district; Edinburgh: ⊙, ⁎.

1055 transversalis *Schüp.* — *Gyll.* iv. 133. — *Ste. M.* iii. 109. — Short, convex; rusty-brown, slightly shining; thorax rounded behind, finely punctate and pubescent; the disc with a slightly interrupted straight fovea behind the middle; elytra punctate-striate, the interstices each with a row of hairs, and elevated, narrow, and thickly plaited with transverse wrinkles. (L. ¾-1 l.) Under bark, &c.; London district: ⊙.

1056 pallida *Marsh.* i. 112. — *Ste. M.* iii. 109. — Short, convex; rusty-brown; pubescent: thorax transverse, the base truncate; disc punctate, with a deepish transverse-ovate fovea near the base; elytra rather faintly striate, interstices slightly elevated: body pitchy beneath; legs and antennæ pale. (L ½-¾ l.) Under bark, &c.; near London: 3-6.

1057 similata *Schüp.* — *Gyll.* iv. 134. — *Ste. M.* iii. 110. — Short, convex; rusty-brown; pubescent: thorax transverse, the disc with 3 foveæ, hinder angles acute; elytra slightly convex, testaceous-brown, punctate-striate, the interstices narrow, elevated with transverse wrinkles, and each with a row of short hairs. (L. ½ l.) Under bark, &c.; London district: 3-6.

171 Paramecosoma *Curtis.*

1058 bicolor *Ent. M.* (*Cur.*) i. 186. — *Ste. M.* v. 410. — *Cur.* xiii. pl. 606. — Dull red, shining; with ochreous pubescence: head, eyes, thorax, and scutellum black, punctured; the latter with 2 small basal foveæ; elytra somewhat punctate-striate. (L. ⅔-1 l.) Near London, and in Hants; Knaresborough, off furze: 7.

172 Psammæchus *Boudier.*

1059 bipunctatus *Fab. E.* i. 291. — *Pz. F.* xxvi. f. 9. — *Ste. M.* iii. 103. — Testaceous: head black, or pitchy; elytra obsoletely striated; the interstices transversely punctured; the disc with a round black dot; part of the suture and the abdomen black; antennæ with the club dusky. (L. 2-2¼ l.) Marshy places; Hertford; Cambridge; Norfolk; Somersetshire; Devon: 5-6.

173 PHLOIOPHILUS *Waterhouse.*

1060 Edwardsii *Waterh.* — *Ste. M.* iii. 81. pl. xviii. f. 1. — Deep black; with a pale pubescence; coarsely punctate: mouth pitchy; thorax with a broad shallow fovea on each side, and a deep impressed space near the base of the lateral margins; elytra black, the disc variegated with irregular pale testaceous patches and marks; joints of legs pitchy; tarsi and base of antennæ reddish. (L. 1½-1¾ l.) Kensington Gardens; Cambridge, &c.; under bark, &c.: 2-4.

1061 † Cooperi *Ste. M.* iii. 82. — Short; testaceous-red, pubescent; deeply punctured: head dusky: thorax with 2 basal foveæ, and an impressed transverse line; elytra pale testaceous, with some obscure black marks and spots; legs and antennæ pale testaceous; abdomen pitchy. (L. 1 l.) Cobham: 9.

1062† bimaculatus *Ste. M.* iii. 82. — Testaceous; elytra with a round black dot in the middle. (L. 1 l.) Near Barnet: 4.

174 BYTURUS *Latreille.*

1063 tomentosus *Fab. E.* i. 316. — *Ste. M.* iii. 80. — *Cur.* xiii. pl. 618. — Above testaceous, yellowish, pitchy, brown or reddish, densely clothed with a yellowish or griseous pile: eyes black; body pitchy-brown beneath, with the apex paler; legs and antennæ testaceous-yellow. (L. 1¼-2¼ l.) Flowers, abundantly throughout England, less common in Scotland: 5-6.

175 TRIPHYLLUS *Megerle.*

1064 punctatus *Fab. E.* ii. 579. — *Ste. M.* iii. 83. pl. xvii. f. 2. — Pilose; dull-red, thickly and deeply punctate; the punctures very coarse and irregular on the elytra, the latter chestnut-black, or pale dusky-brown, the base transversely ferruginous, and an ovate spot of the same colour near the apex; breast dusky. (L. 1½ l.) Fungi, &c., Darenth Wood; Coombe; Netley; N. Wales; New Forest: 6.

1065 bifasciatus *Fab. E.* ii. 579. — *Ste. M.* iii. 83. — My. signatus *Pz. F.* lvii. f. 20. — Black, pubescent; thickly punctured: thorax with the hinder angles and part of the lateral margin pellucid; elytra irregularly punctured, the outer margin and apex and 2 more or less irregular bands pale testaceous: legs and antennæ dull red; club black. (L. 1-1¼ l.) Copenhagen fields; Epping, Hainault, and New Forests; Norfolk, &c.: 6.

176 BIPHYLLUS *De Jean.*

1066 lunatus *Fab. E.* i. 317. — *Ste. M.* iii. 87. pl. xvii. f. 3. — Pitchy-black; slightly pubescent, finely punctate: elytra rather glossy, punctate-striate, interstices somewhat rough, disc of each with a crescent-shaped patch of dense ash-coloured pile, and a dot of the same at the apex; legs and antennæ dull red. (L. 1¼-1¾ l.) Under bark of ash, Coombe Wood; Netley; Swansea; Kimpton: 6.

177 TYPHÆA *Kirby.*

1067 Sparganii *Leach.* — *Ste. M.* iii. 70. — Oblong-ovate; rusty-ochreous; pubescent; obscurely punctured: thorax reddish in front; elytra with the base, region of the scutellum, suture and margin fuscous-black, the shoulder with a small tubercle: antennæ and legs pale ochreous. (L. 1¼-1½ l.) Cobham, Surrey: on Sparganium erectum: 5-6.

1068 ferruginea *Marsh.* i. 125. — *Ste. M.* iii. 71. — Oblong-ovate, somewhat convex, entirely dull red, or pale chestnut, and very slightly pubescent; thorax and elytra thickly punctulated; antennæ and legs rather pale. (L. 1¼ l.) Fungi, &c., London district; Bristol; Netley; N. Wales; Bottisham: 5-6.

1069 fumata *L.* ii. 564,? — *Ste. M.* iii. 71. obs. — *Cur.* xv. pl. 702. — Oblong, slightly flattened; dull-red, clothed with a pale down: eyes black: elytra obsoletely striated, interstices slightly wrinkled across; antennæ and legs pale rust-colour. (L. 1-1¼ l.)

Var.? tomentosa *Marsham.* — *Ste. M.* iii. 71. — Smaller and of a brighter hue, with the elytra very obscurely striated, the interstices not roughened. In rotten wood, fungi, &c., London district; Bottisham; Netley; Suffolk; Yorkshire: 5-6.

178 MYCETOPHAGUS *Fabr.*

1070 4-pustulatus *L.* ii. 597. — *Ste. M.* iii. 84. — My. 4-maculatus *Don.* vi. pl. 185. f. 5. — Dull red: thorax and elytra black, the latter obsoletely punctate-striate, with a large irregular testaceous-yellow spot at the base, and a smaller one at the tip: legs pale-testaceous; antennæ testaceous, with the middle black. (L. 2½-3¼ l.) Fungi, rotten trees, &c., London district; Netley; Kimpton; Swansea, &c.: 5-6.

1071 atomarius *Fab. E.* ii. 568. — *Don.* xv. pl. 538. f. 2. — *Ste. M.* iii. 85. — Rusty-brown; above black; head pitchy: elytra punctate-striate; with a humeral spot, several scattered spots on the disc, and a short curved band across behind the middle, testaceous; antennæ with the terminal joint short, ovate. (L. 2-2¼ l.) Fungi: New Forest; Bristol; Netley; Bath, &c.: 5-6.

1072 multipunctatus *Fab. E.* ii. 568. — *Don.* xv. pl. 538. f. 1. — Oblong; rusty-piceous, slightly pubescent: thorax punctate, with a faint dorsal channel; elytra finely punctate-striate, with numerous (10-12) testaceous spots and markings on the disc, and a large rounded one at the apex; legs and antennæ pale red. (L. 2-2¼ l.) Fungi: Coombe Wood; Bristol; Netley; Swansea; Devon: Norfolk, &c.: 5-6.

1073 variabilis *Schneid. M.* (*Hellwig*) iv. 397. — *Ste. M.* iii. 86. — My. piceus *Cur.* iv. pl. 156. — Pitchy-rust-colour, or black: elytra faintly punctate-striate, slightly pubescent, the base with a broad rusty belt, in which is a squarish dusky spot; behind the middle is a short testaceous band, varying considerably in different individuals, and near the tip a round dot; legs and antennæ dull red, the terminal joint of the latter rather long and pale. (L. 2-2½ l.) Fungi, on oak, &c.; Copenhagen fields; Bristol; Norfolk; Suffolk; Netley; Swansea: 5-6.

1074 Populi *Fab. E.* ii. 570. — *Ste. M.* iii. 86. — Rusty-red; slightly pubescent, and punctated; elytra pale, faintly punctate-striate, with an obscure band in the middle, and a patch at the apex, fuscous; the latter with an obsolete pale spot; legs and antennæ pale rusty-red. (L. 2 l.) Fungi, London district: 6.

1075 pubescens *Ste. M.* iii. 87. — Pitchy-black; very pubescent, finely punctate; elytra rather pale, with an obscure rusty band at the base, a short one behind the middle; the apex and the lateral margins also rusty; legs and antennæ pale dull red; the latter with the last 4 joints forming a rather abrupt club. (L. 2 l.) Near Portsmouth: 6.

179 TETRATOMA *Herbst.*

1076 Fungorum *Fab. E.* ii. 574. — *Pz. F.* ix. f. 10. — *Ste. M.* iii. 91. — Shining testaceous-red, thickly punctured; head black; mouth and labrum

testaceous; elytra shining blue-black, irregularly punctured; antennæ testaceous-red, with the club black. (L. 1¾-2 l.) Under bark, &c., Coombe Wood; Walthamstow; Netley; Norfolk; Jedburgh in Scotland, &c.: 2-6.

1077† Ancora *Fab. E.* ii. 575. — *Cur.* iii. pl. 123. — *Ste. M.* iii. 91. — Head and thorax testaceous; punctured, eyes black; scutellum testaceous; elytra brown-black, deeply punctured, with a large common lobate pale spot on the disc, and several small ones on the base and on the margins; legs and antennæ testaceous, club fuscous. (L. 1½ l.) In moss, &c., Highgate woods; Colney Hatch; Southgate; Henhault Forest: 12-5.

1078 † picta *Ent. M.* (*Newman*) ii. 202. — *Ste. M.* v. 408. — Black; head fuscous; thorax with the anterior margin rusty; elytra with 10 rusty spots, placed 1 on the shoulder, 1 near the tip of the outer margin, 2 on the disc, and 2 on the suture, common to both. (L. 1¼ l.) Newcastle: 6 ?.

Fam. 21. EROTYLIDÆ.

clxxx. TRIPLAX *Ant.* with an elongate, obtuse, 3-articulate club: *palpi* unequal, terminal joint securiform: *body* elongate-ovate, or oblong.

clxxxi. TRITOMA *Ant.* with an ovate perfoliated 3-jointed club: *palpi max.* with the terminal joint compressed, lunate, *lab.* somewhat clavate: *body* gibbous.

clxxxii. ECANUS *Ant.* with an elongate 3-articulate acute club: *body* somewhat hemispheric.

180 TRIPLAX *Paykull.*

1079 russica *L.* ii. 570. — *Ste. M.* iii. 88. — Ips nigripennis *Pz. F.* xxx. f. 7. — Oblong-ovate; rusty-red, shining, glabrous: antennæ and eyes black; scutellum and elytra black, the latter faintly punctate-striate; breast blue-black; base of thighs dusky. (L. 2½-3 l.)

Var. Si. castanea *Marsh.* i. 122. — *Ste. M.* iii. 89. — Ochreous-yellow; elytra and antennæ pale chestnut. Fungi, &c., Coombe and Darenth woods; Bristol; Swansea; Winterborne Stoke; Bottisham; Notts.: 5-6.

1080 ænea *Fab. E.* ii. 582. — *Ste. M.* iii. 89. — *Cur.* xv. pl. 706. — Oblong-ovate, shining rusty-red; punctate: eyes black; antennæ pitchy; elytra bluish-green, very glossy, punctate-striate; legs reddish. (L. 2 l.) Fungi, &c., Coombe Wood; Meldon Park, &c.: 5-6.

1081 bicolor *Marsh.* i. 122. — *Ste. M.* iii. 89. pl. xvii. f. 4. — Oblong-ovate; rusty-red, punctured; shining: eyes black; antennæ rusty at the base, the tip pitchy-brown; elytra black, deeply punctate-striate, interstices punctate: legs and body beneath red. (L. 2 l.) Under bark, &c., Coombe Wood: 6-7.

1082 rufipes *Fab. E.* ii. 582. — *Ste. M.* iii. 90. pl. xvii. f. 5. — Short, ovate, glossy-black; punctured: head, thorax, and legs pale red; antennæ red at the base, the club pitchy: elytra punctate-striate. (L. 1¾ l.) Windsor; Coombe Wood: 7-8.

1083 ruficollis *De Jean?* — *Ste. M.* iii. 90. pl. xvii. f. 6. — Oblong, black: thorax bright red; elytra faintly punctate-striate, interstices punctured; apex of abdomen pitchy; legs dull red; antennæ rusty-chestnut. (L. 2¼ l.) Near Windsor: 6.

181 TRITOMA *Fabricius.*

1084 bipustulatum *Fab. E.* ii. 571. — *Ste. M.* ii. 158. — *Cur.* xi. pl. 498. — Black, shining; punctate: mouth pitchy; elytra faintly punctate-striate, interstices punctured, at the outer basal angle a large 4-drate bright red

spot, sometimes with a dusky spot on the shoulder; tarsi and antennæ at base red, club dusky or black. (L. 1½-2½ l.) Under bark, decayed trees, &c., Coombe and Darenth woods; Richmond Park, &c.: 12-6.

182 Ecanus *Rudd.*

1085† glaber *Pk. F.* iii. 335. — Ec. striatus *Ste. Nom.* 2d edit. col. 31.? — Ovate; black; shining; glabrous: elytra striated; antennæ and legs pitchy. (L. 2 l.) New Forest: 5?

Fam. 22. ENGIDÆ *MacLeay.*

clxxxiii. Engis *Ant.* 11-jointed; club short, broad, compressed, 3-articulate: *maxillæ* bilobed: *palpi* with terminal joint obtusely subulated: *body* oblong-ovate, rather convex: *tarsi* 5-jointed, 4th joint short.

clxxxiv. Ips *Ant.* 11-jointed; club short, wide, flattened, 3-articulate: *maxillæ* with a broad lobe: *palpi* with terminal joint truncate: *body* oblong, flattish: *legs* short; *tibiæ* broad, serrated: *tarsi* 5-jointed.

clxxxv. Synchita *Ant.* 10-jointed; club 1-jointed, with an acute prominence at the tip: *tho.* with the margins on all sides elevated: *body* elongate, rather convex: *elytra* entire: *tarsi* 4-jointed.

clxxxvi. Cicones *Ant.* 10-jointed; club 1-jointed, large, orbicular, entire: *maxillæ* with 2 equal lobes: *tho.* gibbous, somewhat 4-drate, margined, entire: *body* oblong-ovate, slightly convex: *elytra* not truncate: *tarsi* 4-jointed.

clxxxvii. Cryptophagus *Ant.* 11-jointed; club 3-articulate, not compressed: *mand.* bifid at the tip: *tho.* with the sides crenulated: *body* ovate, rather convex: *tarsi* simple, 5-jointed; heteromerous in ♂.

clxxxviii. Antherophagus *Ant.* 11-jointed, basal joint stout, 2d slender, as long as the 3d; club 3-articulate; joints transverse: *tho.* with the margins entire: *body* oblong-ovate, flattish: *tibiæ* dilated at the tips; *tarsi* simple, 5-jointed; heteromerous in ♂.

clxxxix. Monotoma *Ant.* 10-jointed; club large, 1-jointed, with a terminal appendage: *tho.* narrower than the elytra, crenulated on the sides: *body* oblong, slightly ovate, flat; *elytra* truncate: *thighs* robust: *tarsi* 4-jointed.

cxc. Bitoma *Ant.* 11-jointed; club 2-articulate: *mand.* concealed: *tho.* carinated, 4-drate, its sides entire: *body* oblong, flat: *elytra* ridged, entire: *tarsi* 4-jointed.

cxci. Colydium *Ant.* 11-jointed; club 3-articulate: *maxillæ* with outer lobe large, inner slender: *palpi* with terminal joint stout: *head* obtuse: *body* linear, somewhat convex, and cylindric: *tho.* and *elytra* ridged: *legs* very short; *tarsi* 4-jointed.

cxcii. Nemosoma *Ant.* 10-jointed; club 3-articulate: *maxillæ* with a single pilose lobe: *head* as large as *thorax*; the latter narrowish behind: *body* very long, slender, cylindric: *tarsi* 4-jointed.

cxciii. Lyctus *Ant.* 11-jointed; club 2-articulate, terminal joint acute: *mand.* exposed: *tho.* somewhat 4-drate, disc with a deep channel, sides crenulated: *body* elongate, flattish: *elytra* entire: *tarsi* 4-jointed.

cxciv. Xylotrogus *Ant.* 11-jointed; club 2-articulate, terminal joint obtuse: *mand.* slightly exposed: *tho.* rather elongate, narrowed behind, the sides entire: *body* elongate, somewhat cylindric and convex: *elytra* entire: *tarsi* 4-jointed.

cxcv. Lissodema *Ant.* 11-jointed, 2 basal joints larger than 3d; club 3-articulate, long, robust: *tho.* orbicular, with the sides denticulated: *body* elliptic, convex: *elytra* very long, entire: *tarsi* heteromerous.

cxcvi. Annomatus *Ant.* 10-jointed; club 1-articulate, with a terminal ap-

pendage: *head* wide: *tho.* with sides dilated, entire: *eyes* wanting: *elytra* flattish, entire: *tarsi* 4-jointed.

excvii. CERYLON *Ant.* 10-jointed; club 1-articulate, with an acute terminal appendage: *max. palpi* filiform, the apical joint rather narrowed and truncate at tip: *head* wide: *eyes* distinct: *tho.* with margins entire: *body* oblong-ovate, flat: *elytra* entire: *tarsi* 4-jointed.

excviii. TRIBOLIUM *Ant.* 11-jointed; club 3-articulate: *tho.* transverse: *body* somewhat linear, flattish: *tarsi* 5-jointed, 4th joint minute.

excix. RHYZOPHAGUS *Ant.* indistinctly 11-jointed; club 2-articulate, its 2d joint obscure: *maxillæ* with outer lobe slender, jointed at tip: *head* large: *tho.* with sides entire: *body* narrow, rather flat: *elytra* not covering the abdomen: *tarsi* heteromerous.

183 ENGIS *Latreille.*

1086 rufifrons *Fab. E.* i. 46. — *Pz. F.* xxxvi. f. 19. — *Ste. M.* iii. 92. — Pitchy-black, shining, glabrous; thickly punctulate: head dull red, mouth fuscous; elytra punctate-striate, with an ovate rusty red spot at the base, and a patch of the same hue at the tip; apex of the abdomen, legs, and antennæ dull red, club pale. Varies (according to maturity) from pale testaceous to deep black. (L. 1-1½ l.)

Var.? En. angustata *Kirby.* — *Ste. M.* iii. 92. — Narrow, elongate, and slender; above pale immaculate testaceous, the elytra sometimes slightly clouded with dusky. Boleti, &c. London district; Bottisham; New Forest; Norfolk; Suffolk; Devon; Nottinghamshire; S. Wales, &c.: 5-6.

1087 scanica *L.* ii. 564. — *Pz. F.* iv. f. 9. — *Ste. M.* iii. 92. — Glossy-black: head and thorax red; eyes black; elytra finely punctate-striate, with a small oval red spot on the shoulder; tip of the abdomen, legs, and antennæ red. Varies in colour, like its congener. (L. 1½-1¾ l.) Fungi, &c., London district; also in Suffolk and Norfolk: 5-6.

184 IPS *Herbst.*

1088 4-guttata *Fab. E.* ii. 580. — *Pz. F.* iii. f. 18. — *Ste. M.* iii. 93. — Rather convex, wide, black, shining: thorax 4-drangular; elytra with a 3-lobed yellowish, or ochreous, spot at the base, and 2 red transverse-ovate ones (nearly divided in the centre) behind the middle; legs and antennæ pitchy-chestnut; club dusky. (L. 1¾-2¼ l.) Windsor and New Forest; under bark of felled oaks: 5-6.

1089 4-pustulata *L.* ii. 570. — *Oliv.* ii. pl. 3. f. 22. — *Ste. M.* iii. 93. — Linear-elongate, flattish; black, finely punctured: thorax transverse 4-drate; elytra with 2 red spots, the basal one sinuated and 3-lobed, the other transverse-ovate; antennæ and legs black; tarsi pitchy. (L. 2½ l.) Bexley; Coombe; Windsor; West Farley; Bottisham; Raehills, &c.; under bark of sallow: 5-6.

1090 4-punctata *Herbst.* iv. 165. pl. 42. f. 2. — *Ste. M.* iii. 94. — *Cur.* vii. pl. 306. — Somewhat ovate, flattish; glossy black, finely punctured: elytra with 2 ovate reddish spots, one of them at the base, the other, placed transversely, near the apex; legs pitchy-chestnut; tarsi paler. (L. 2½-3 l.) Windsor; New Forest; under bark of birch: 5-6.

1091 6-pustulata *Ste. M.* v. 408. — Broad; rather flat; shining black; punctured; the punctures coarse on the elytra, the latter with 2 ovate spots near the shoulder, placed obliquely; and a large transverse one near the apex on the disc; legs pitchy. (L. 3 l.) Near London: 6.

1092 ferruginea *L.* ii. 564. — *Ste. M.* iii. 94. — Ly. dermestoides *Pz. F.*

viii. f. 15. — Linear-elongate, somewhat cylindric; pale ferruginous, shining; thickly punctate: head dusky; eyes black; elytra with a single stria at the suture; club of antennæ dusky. (L. 2½-2¾ l.) Norwich; Manchester; Raehills; under bark of pine trees: *5.*

185 Synchita *Hellwig.*

1093 Juglandis *Fab. E.* ii. 561. — *Ste. M.* iii. 96. — Mo. striata *Herbst.* v. pl. 46. f. 1. — Obscure, dull fuscous; rough, finely punctured: head blackish; mouth and labrum testaceous; eyes black; anterior edge of the thorax, and the base of the elytra indeterminately obscure testaceous; elytra rather deeply crenate-striate, alternate interstices with a row of hairs; legs and antennæ rusty. (L. 2 l.) Under bark; London district: *5.*

186 Cicones *Curtis.*

1094 Carpini *Cur.* iv. pl. 149. — *Ste. M.* iii. 99. — Chestnut-black; slightly pubescent; punctured: thorax uneven, the base roughly punctured; elytra with 3 raised lines and a punctured stria, with an oblique spot at the shoulder, 3 near the middle, a transverse curved mark, and a 2d near the tip, dull orange; legs dull red; antennæ ochreous. (L. 2-2¼ l.) Epping Forest; under bark of hornbeam: 3; New Forest: 4-5.

187 Cryptophagus *Herbst.*

1095 Populi *Pk. F.* iii. 355. — *Cur.* iv. pl. 160. — *Ste. M.* iii. 74. — Oblong-ovate; rusty-brown; thickly punctate; pubescent: eyes black; thorax obtusely bidentate on the sides; elytra dusky or pitchy, the margin rusty or chestnut; legs pale rusty; antennæ fuscous, the club dull red. (L. 1½-2 l.) Walsam meadows, near Ripley; Norwich: 3-6.

1096 bituberculatus *Kirby.* — *Ste. M.* iii. 74. — Oblong-ovate; rusty-red, rather glossy and pubescent; thickly and coarsely punctulated: thorax with the anterior angle produced laterally into an obsolete tooth, and the sides with a minute one about the middle; the disc with 2 elevated smooth tubercular dots; antennæ stout. (L. 1-1½ l.) Fungi; London district; Netley; N. Wales: 4-6.

1097 humeralis *Ste. M.* iii. 74. — Oblong-ovate; rather convex; rusty-pitchy, punctulated, slightly pubescent: eyes black; thorax with the lateral margins finely denticulate; disc convex; elytra with the base pale testaceous; legs and antennæ the same: — elytra sometimes entirely pale. (L. 1-1¼ l.) London district: 4-6.

1098 uncinatus *Marsham.* — *Ste. M.* iii. 75. — Oblong-ovate; red; slightly pubescent; finely punctured: head with a transverse impressed line; eyes black; thorax with the anterior angles produced into a small recurved hook, the sides with a minute tooth near the middle; elytra and legs testaceous. (L. 1-1¼ l.) London and Ipswich: 4-6.

1099 Marshami *Ste. M.* iii. 75. — Oblong-ovate; rusty-red; slightly pubescent, and very finely punctulate: thorax with lateral margins sinuate-dentate, the anterior angle produced into a slightly round denticulation, and the middle with an angular projection; legs and antennæ deep rusty-red, the latter stout. (L. 1¼ l.) London district: 4-6.

1100 Lycoperdi *Herbst.* iv. 176. pl. 42. f. 13. — *Ste. M.* iii. 75. — Oblong-ovate; rusty-brown, very deeply punctured, and clothed with a long pubescence: eyes black; thorax with the edges dusky, the anterior angle very acute, and the sides with a minute acute tooth in the middle; elytra with the punctures somewhat disposed in lines; legs pale testaceous; an-

tennæ brownish; club paler. (L. 1-1½ l.) In Lycoperdon Bovista, near Guildford: 9; Swansea: 4-8.

1101† scutellatus *Ent. M.* (*Newm.*) ii. 202. — *Ste. M.* v. 408. — Head, thorax, and under side dark brown: eyes and scutellum black; elytra and legs testaceous, thighs darker; antennæ brown at the base, testaceous at the tip. (L. 1 l.) Newcastle: 6.

1102 fumatus *Marsh.* i. 110. — *Ste. M.* iii. 76. — Oblong-ovate; testaceous; finely but thickly punctured; slightly pubescent: thorax somewhat 4-drate, the lateral margins nearly straight, with an obtuse tooth at the anterior angle, and a minute one in the middle; elytra ovate; body obscurely testaceous beneath; legs paler. (L. 1 l.) Houses, &c., London district: 4-6.

1103 Ulicis *Kirby.* — *Ste. M.* iii. 76. — Oblong-ovate; rusty-red, pubescent: elytra paler, very obscurely punctured, acute at the tip, the punctures towards the suture slightly disposed in lines; thorax short, anterior angle forming an obtuse recurved tooth, the middle of the sides with an obscure tooth, the space thence to the base finely crenulated; legs and antennæ pale rusty-red. (L. ¼-1 l.) On furze; London district, and in Suffolk: 4-6.

1104 Abietis *Pk. F.* iii. 356. — *Ste. M.* iii. 77. — Der. Vini *Pz. F.* xl. f. 4.? — Rather oblong and convex; rusty-red; thickly punctate and pubescent: thorax broader anteriorly than long, narrowed behind, the lateral margin with the anterior angle produced into an obtuse tooth, thence to the hinder angle finely crenated; elytra elongate; legs and tip of the antennæ pale testaceous. (L. 1-1¼ l.) On spruce fir, near London; Bristol; Swansea, &c.: 4-6.

1105 cellaris *Pk. F.* iii. 356. — *Ste. M.* iii. 77. — Oblong-ovate, rusty-brown; slightly punctate and punctate: thorax short, the anterior angle produced into an oblique sharp tooth, the sides in the middle with an acute prominent one, thence to the hinder angle finely crenulated; scutellum black; elytra acute at the apex, entirely black or testaceous, sometimes with the base dull red; legs pale testaceous. (L. 1-1¼ l.) Houses &c., Hertford; Ensham, Oxon.: 4-8.

1106 serratus *Gyll.* i. 171. — *Ste. M.* iii. 78. — Oblong-ovate; rusty-brown; pubescent; deeply punctate: thorax somewhat 4-drate, the sides a little rounded, and serrated, the base rough; elytra punctulate, pitchy-brown, the tip paler; body pitchy-black, paler at the apex; antennæ and legs pale rusty-red. (L. 1 l.) London district; Swansea: 4-6.

1107 ruficornis *Ste. M.* iii. 78. — Oblong-ovate; pitchy-red; coarsely punctate, head and tip of the elytra pale: thorax short, the anterior angle produced into a sharp denticle, and the middle of the sides with an obtuse one; elytra punctulate, the punctures somewhat disposed in lines; legs dull red; antennæ bright red. (L. 1 l.) London district: 4-6.

1108 Caricis *Gyll.* ii. iv. — *Ste. M.* iii. 79. — Oblong; black; clothed with an ashy-greenish silken pile; thickly punctured: thorax rather long, hinder angles acute, the sides regularly dilated and rounded, and obsoletely crenulated, disc very convex; legs short, pale rusty-red; tarsi brownish. (L. 1-1¼ l.) In Carices, near London; Swansea, &c.: 5-8.

1109 Typhæ *Fall. Obs. E.* i. 16. — *Ste. M.* iii. 79. — Oblong; black; clothed with an ashy silken down; finely punctured: thorax short, transverse, round behind, the angles rather prominent, the sides obscurely crenulated; legs, tarsi, and antennæ pale testaceous. (L. 1-1½ l.) Aquatic plants, especially the bulrush; near London; in Cambridgeshire; N. and S. Wales: 5-8.

188 ANTHEROPHAGUS *Megerle.*

1110 pallens *L.* ii. 675. — *Mart. C.* pl. 39. f. 3. — *Ste. M.* iii. 72. — Dull ochreous-red; slightly pubescent: head and thorax rather coarsely punctured, the latter transverse, rectangular, disc convex; elytra paler than the thorax; legs the same, with the base of the tibiæ fuscous; ♂ with antennæ shorter and black, with the base and apex pale; tibiæ black at the base, and the hinder tarsi 4-jointed. (L. 2-2½ l.) On flowers; London district; Swansea; Bottisham; Devon, &c.: 4-6.

1111 silaceus *Herbst.* iv. 169. pl. 42. f. 7. — *Ste. M.* iii. 73. — Testaceous-yellow; slightly pubescent: head and thorax finely punctured; the latter transverse, rectangular; elytra slightly punctured, deep testaceous, with a short stria near the suture; abdomen ferruginous: legs pale, with the base of the tibiæ obscure; ♂ with intermediate joints of antennæ dusky-brown, the base of tibiæ black, and hinder tarsi 4-jointed. (L. 2¼-3 l.) Flowers; London district: 4-6.

1112 similis *Cur.* xii. pl. 546. — Ochreous; head and thorax somewhat ferruginous, deeply punctured, the latter transverse; elytra silky, very minutely punctured, obscurely striated towards the suture; base of tibiæ chestnut; ♂ with the antennæ pitchy in the middle, tibiæ pitchy, with the base chestnut, hinder tarsi 4-jointed. (L. 1⅔-1¾ l.) London district, and near Dover: 4-6.

1113 glaber *Gyll.* i. 178. — *Ste. M.* iii. 73. — Testaceous-red, glabrous, slightly flattened; head smooth, rusty-red; eyes black; thorax faintly notched in front, truncate behind, the sides rounded and slightly waved, disc smooth, rusty-red; elytra impunctate; legs pale testaceous. (L. 1½ l.) Rare: London district, and Scotland; in nests of Bombi (humble bees): 4-6.

189 MONOTOMA *Herbst.*

1114 picipes *Herbst.* v. 24. pl. 45. f. 10. — *Ste. M.* iii. 102. — Black; opaque; slightly hispid: antennæ and legs rusty-red; thorax oblong-4-drate, its lateral margins finely crenate, the disc with 2 oblong foveolets at the base; elytra crenate-striate, interstices transversely wrinkled. (L. 1-1¼ l.) Under bark, &c., Battersea fields; Petworth; Devon; Cramond, &c.: 7-4.

1115 angustata *Marsham.* — *Ste. M.* iii. 102. — Narrow; pitchy-black, shining; finely punctured: thorax oblong, with 2 approximating foveolets at the base; elytra very obsoletely striated; legs and antennæ dull red. (L. ¾ l.) Rotten wood, &c., near London, and in Suffolk: 5-6.

1116 pallida *Ste. M.* iii. 103. — Narrow; pale testaceous; slightly shining: head pitchy; thorax broad, with 2 deep foveolets behind; antennæ and legs pale. (L. ¾-1 l.) In rotten wood, &c., near London, and in Norfolk: 5-6.

190 BITOMA *Herbst.*

1117 crenata *Pz. F.* i. f. 24. — *Ste. M.* iii. 105. — *Cur.* vi. pl. 283. — Black; slightly opaque, punctured: thorax with the sides nearly straight, with 2 elevated lines parallel therewith on the disc, which has 2 small foveæ towards the base; elytra red, with a black cross; punctate-striate, the alternate interstices elevated; antennæ and legs pitchy-red:—sometimes the elytra are black, with a red dot at the shoulder, and a 2d near the apex; or wholly testaceous. (L. 1½-2 l.) Little Chelsea; New and Windsor forests; Duddingston; 5-9.

191 COLYDIUM *Herbst.*

1118 † elongatum *Pk. F.* iii. 313. — *Pz. F.* iii. f. 17. — *Ste. M.* v. 409. — Shining black: thorax with 3 grooves, the disc having 2 raised parallel

lines; elytra each with 4 elevated ribs, the interstices with a double row of punctures; antennæ and legs dull red. (L. 4 l.) New Forest: 6.

192 Nemosoma *Latreille.*

1119 elongatum *L.* ii. 561. — *Ste. M.* iii. 95. — *Cur.* vii. pl. 327. — Shining black, glabrous; punctate: front with a deep groove; thorax slightly narrowed behind; elytra with the base and a spot within the apex rusty-red; antennæ and legs red. (L. 2½-3 l.) Darenth Wood, 6; Sydenham, 3-4; Colwich, near Nottingham: 6.

193 Lyctus *Fabricius.*

1120 oblongus *Oliv.* ii. 18. pl. 1. f. 5. — *Ste. M.* iii. 117. — Opaque; deep fuscous or pale brown; pubescent: head roughly punctured; eyes black; thorax with an oblong, broad, short channel in the middle; elytra convex-cylindric, faintly punctate-striate, the interstices with a row of ashy-yellow hairs, producing a lineated appearance; legs pale testaceous. (L. 1-3½ l.)

Var. Ly. pusillus *Kirby.* — *Ste. Catal.* No. 1007. — Smaller, and of a paler colour; probably the ♂. Abundant on palings throughout the London district; Swansea on decaying oaks: 4-6.

194 Xylotrogus *Stephens.*

1121 brunneus *Ste. M.* iii. 117. pl. xviii. f. 4. — Elongate; brown; glabrous: head pitchy, delicately punctured; eyes black: thorax pitchy-brown, coarsely punctured, with a broad, shallow, dorsal groove; elytra bright chestnut-brown, finely striate and very faintly punctured; legs and antennæ rusty-piceous. (L. 2½ l.) Dulwich, 7, and Nottingham.

195 Lissodema *Curtis.*

1122 Heyana *Ent. M.* (*Cur.*) i. 187. — *Ste. M.* v. 409 — Pitchy-chestnut, shining, strongly and rather regularly punctured: thorax with 4 or 5 denticulations on each side, and a fovea near each hinder angle; elytra with numerous regular lines of punctures; mouth, antennæ, and legs chestnut. (L. 1⅓ l.) Near London, and at Ockbrook, Derbyshire: 6.

196 Anommatus *Wesmael.*

(1123 obsoletus *Spence.* — *Ste. M.* iii. 98. — Oblong; pale red, or rusty-chestnut; very glossy; glabrous; deeply punctured, especially on the elytra: the lateral margins of the thorax dilated and rounded; legs and antennæ pale rust-colour. (L. ⅔-1 l.) Houses: London; Hertford; Hull: 6.)

197 Cerylon *Latreille.*

1124 histeroides *Pz. F.* v. f. 16. — *Ste. M.* iii. 96. — Depressed; black, shining, glabrous; head and thorax punctured: elytra obsoletely punctate-striate, rounded at the apex; body pitchy-black beneath; mouth and labrum dull red; legs and antennæ testaceous-red. (L. 1¼-1½ l.) Under bark; London district; Bristol: 6.

1125 pilicorne *Marsham.* — *Ste. M.* iii. 97. — Oblong; flattened; pitchy: head and thorax punctured, the latter wide; elytra rather obsoletely punctate-striate; legs red; antennæ ferruginous, the apex paler and pilose. (L. 1½ l.) Under bark of oak; London district: 6.

1126 picipes *Oliv.* ii. 18. pl. 2. f. 12.? — *Ste. M.* iii. 97. — Black; shining; head punctured; thorax smooth, very obscurely punctulate; elytra

obsoletely striated; antennæ and legs pitchy, or dull red. (L. 1-1¼ l.) London district; Suffolk; Norfolk; Swansea: 6.

1127 ferrugineum *Ste. M.* iii. 98.—Elongate; dull red; rather opaque; antennæ and legs testaceous: thorax oblong, with 2 obscure foveæ towards the hinder margin, disc finely punctured; elytra faintly striate, interstices rough and clothed with short ashy hairs. (L. 1 l.) London district; 5.

198 TRIBOLIUM *MacLeay.*

(1128 castaneum *MacLeay, A. I.* 47. — *Ste. M.* iii. 97. note. — Ferruginous: head and thorax finely punctured; elytra punctate-striate; body beneath dull pitchy; legs red; antennæ with the apex pale. (L. 2 l.) In museums; not truly indigenous.)

199 RHYZOPHAGUS *Herbst.*

1129 ferrugineus *Pk. F.* iii. 326. — *Ste. M.* iii. 100. — Rusty-red, or pitchy, shining, glabrous: thorax somewhat 4-drate, coarsely punctate; elytra deeply punctate-striate; legs pale testaceous; antennæ with the basal joint fuscous. (L. 2-2½ l.) Under bark of pines; Hertford; Ripley; Swansea; Scotland, &c.: 5-6.

1130 depressus *Fab. E.* ii. 560. — Rusty-red; glabrous; shining, rather flat: beneath pitchy-red; thorax somewhat 4-drate, finely punctulate; elytra faintly punctate-striate; legs pale testaceous; antennæ wholly ferruginous. (L. 1½-2 l.) Under bark of oak; near London; Hertford; Suffolk, &c.: 5-6.

1131 terebrans *Oliv.* ii. pl. 1. f. 7. — Rusty-brown, spotless; elytra with crenate striæ: legs dusky. (L. 2½ l.) Under bark, &c.; London district: 5-6.

1132 cribratus *Gyll.* iv. 637. — Narrow; rusty-red, shining, glabrous: thorax 4-drate, with deep scattered punctures; scutellum smooth; elytra punctate-striate, the punctures remote; legs pale ferruginous; antennæ dusky in the middle, the base and apex rusty. (L. 1½ l.) Under bark: London district: 6.

1133 cylindricus *Ste. M.* iii. 100. — Cylindric; rust-coloured, shining, glabrous: head rather smooth; thorax elongate-4-drate, somewhat sparingly punctate; elytra deeply punctate-striate; legs pale dull red. (L. 2¼ l.) Under bark; London district: 5-6.

1134 rufus *Marsham.* — *Ste. M.* iii. 100. — Narrow; rusty-red, shining, glabrous: thorax very finely punctate, disc slightly convex; elytra also a little convex, faintly punctate-striate, the punctures somewhat remote. (L. 2 l.) Under bark; London district; Bottisham: 3-6.

1135 collaris *Ent. M.* (*Newm.*) ii. 203. — *Ste. M.* v. 409. — Rust-coloured, with the thorax brown: elytra crenate-striate. (L. 1¾ l.) In old coffins at Nottingham: 4-6.

1136 dispar *Pk. F.* iii. 328. — *Ste. M.* ii. 101. — Rh. bipunctatus *Herbst.* v. pl. 45. f. 9. — Linear, shining; colour variable: thorax rather oblong; slightly narrowed at the base, and very finely punctured; elytra punctate-striate, the base and apex more or less rusty-red, the middle with a dark band; antennæ and legs rusty. Occasionally the thorax above and the breast and base of the abdomen are pitchy black. (L. 1-1½ l.) Under bark; roots of grass, &c.; London and Edinburgh districts: 2-6.

1137 parvulus *Pk. F.* iii. 329. — *Ste. M.* iii. 101. — Pitchy-black, shining, flattish: thorax somewhat 4-drate, finely punctured; elytra testaceous, sometimes a little clouded with fuscous, punctate-striate; body pitchy beneath, with the tip red; legs and antennæ rusty. (L. 1-1¼ l.) Under bark: London district: 5-6.

1138 bipustulatus *Fab. E.* ii. 561. — *Ste. M.* iii. 101. — *Cur.* xiii. pl. 579. — Black, or pitchy-black, shining, glabrous: thorax transverse, a little narrowed behind, punctate; elytra punctate-striate, with a bright rusty spot near the apex, and sometimes a 2d at the base; legs and antennæ rusty, club of the latter palest. (L. 1¼-1½ l.) Under bark; roots of grass, &c.; Battersea Fields; Kensington Gardens; Scotland: 12-6.

Fam. 23. CUCUJIDÆ *Stephens.*

cc. TROGOSITA *Ant.* short, gradually increasing in size to the tips, the 4 terminal joints being largest, and compressed: *palpi* filiform, apical joint ovate, truncate: *maxillæ* with a single slender lobe: *labium* entire; somewhat 4-drate: *body* oblong-ovate: *elytra* slightly remote from thorax: *tarsi* 5-jointed.

cci. CUCUJUS *Ant.* short, or moderate; moniliform, or clavate; basal joint short: *palpi* with the terminal joints slightly thickened: *maxillæ* with a small external process: *labium* bifid: *body* oblong, or elongate, very flat: *tarsi* obscurely 5-jointed; heteromerous in ♂.

ccii. ULEIOTA *Ant.* as long as the body, filiform, basal joint longer than the head, 2d joint bent, remainder elongate: *palpi* filiform: *maxillæ* with an acute hook within: *mand.* in the ♂ with a long, curved horn-like process: *labium* slightly notched: *body* very flat: *tarsi* obscurely 5-jointed, the 4th joint very minute.

200 TROGOSITA *Fabricius.*

1139 mauritanica *L.* ii. 674. — *Ste. M.* iv. 221. — Tr. caraboides *Pz. F.* iii. f. 4. — Above black, shining; beneath pitchy-black, punctured: elytra faintly punctate-striate; legs and antennæ pitchy-red. (L. 3½-5 l.) Under bark of pines; Coombe Wood; Houses, at Hertford; Cambridge; London: 5-6.

201 CUCUJUS *Fabricius.*

(1140† depressus *Fab. E.* ii. 93. — *Roem. G.* pl. 34. f. 28. — *Ste. M.* iv. 222. note. — Black, rather shining; head, disc of thorax, and the elytra red; lateral margins of thorax denticulated, the disc with 2 grooves. (L. 5 l.) Improperly introduced as British.)

§ B. BIOPHLÆUS *De Jean.*

1141 dermestoides *Fab. E.* ii. 94. — *Pz. F.* iii. f. 13. — *Ste. M.* iv. 222. — Rusty-brown; punctured: thorax with 4 foveæ, placed tetragonally, the sides 4-dentate; elytra testaceous, flat; legs pale testaceous-red. (L. 1¾-2¼ l.) Under bark of oaks; near London; at Hertford, and in New Forest: 5-6.

§ C. LÆMOPHLÆUS *De Jean.*

1142 piceus *Oliv.* iv. pl. 1. f. 5? — *Ste. M.* iv. 223. — Chestnut-red, shining, immaculate; finely punctured: thorax with the base of the lateral margins slightly denticulated; elytra faintly striated. (L. 1⅛ l.) Under bark of elm; Wilts: 6.

1143 Spartii *Cur.* xi. pl. 510. — *Ste. M.* v. 421. — Deep pitchy-brown, sometimes of a chestnut hue, minutely punctured; antennæ, mouth, and legs paler: thorax obovate-truncate; elytra with 4 slightly raised lines, interstices with faint punctured lines. (L. 1-1½ l.) Under bark of broom; Coombe Wood: 4-5.

1144 ferrugineus *Megerle.* — *Ste. M.* iv. 223. — Testaceous-red, shining,

immaculate; finely punctured: head as wide as thorax, which is somewhat 4-drate, immarginate, with the sides smooth, the hinder angles prominent; the disc with 2 obscure striæ; elytra with 3 faint impunctate striæ; legs and antennæ pale testaceous. (L. 1-1¼ l.) Hertford: 5.

1145 unifasciatus *Lat. M.* xi. 256. — *Zool. J.* (*Westw.*) iv. pl. Sup. xlvii. f.2. — Pale tawny-testaceous: thorax somewhat 4-drate, with 2 faint striæ; lateral margin entire; elytra obsoletely punctate-striate, with an obscurely defined brown spot on the disc. (L. 1¼ l.)

Var. ? Cu. fasciatus *Ste. M.* 2d. ed. col. 65. — With a distinct brown band across the elytra. Under bark of hornbeam; Henault Forest. Var. ? New Forest: 6.

1146 monilicornis *Marsham.* — *Ste. M.* iv. 223. — Testaceous-red; head broad; eyes black; thorax finely and sparingly punctured; disc flat; elytra obsoletely striate; legs and antennæ pale testaceous, the latter elongate, filiform, with the 3 terminal joints thickened. (L. 1-1¼ l.) Old wood; London and Cambridge: 3-6.

1147 testaceus *Fab. E.* ii. 98. — *Ste. M.* iv. 224. pl. xxi. f. 6. — Testaceous, shining; eyes dusky; thorax very glossy, somewhat 4-drate, thickly punctured; the sides smooth; elytra spotless, faintly striated; legs pale testaceous, thighs compressed; antennæ very long, filiform, the 3 terminal joints more elongate. (L. ¾-1 l.) In flour, &c.; London and Norwich: 5-6.

(1148 minimus *Fab. E.* ii. 98. — *Ste. M.* iv. 224. note. — Ferruginous, with the thorax somewhat 4-drate, the sides entire: elytra pale, very smooth. (L. ¾ l.) Near, and in, London, in warehouses, &c.: 6.)

202 Uleiota *Latreille.*

1149 planata *L.* ii. 628. — Br. flavipes *Pz. F.* xcv. f. 4. — *Ste. M.* iv. 225. — Pitchy-black; opaque; very much punctured: thorax with the sides denticulated, the anterior angles produced; elytra punctate-striate, with an elevated ridge running parallel with the margin; antennæ, legs, and mouth reddish. (L. 3½ l.) Very rare: Hermitage, South Lambeth: 6.

Fam. 24. DERMESTIDÆ *Leach.*

cciii. Dermestes *Ant.* short; club 3-articulate, large, obtuse: *palpi* filiform; *max.* shorter than the maxillæ: *body* oblong, ovate, clothed with scales: *tarsi* entire, the basal joint shorter than the 2d.

cciv. Megatoma *Ant.* short; club perfoliate: *palpi* filiform; *max.* longer than the maxillæ, terminal joint ovate, truncate: *body* elongate, ovate: *elytra* parallel: *tarsi* with the 3 middle joints shortest.

ccv. Tiresias *Ant.* very short; club 3-articulate, serrated on the inner side: *palpi* with terminal joint somewhat securiform: *body* ovate, flattish: *tho.* with a central lobe behind: *tarsi* with the intermediate joints shortest.

ccvi. Attagenus *Ant.* moderate; club 3-jointed, terminal joint large, very long in ♂: *palpi max.* longer than the maxillæ, with apical joint elongate, ovate, narrowed: *body* ovate: *tho.* 3-lobate behind: *tarsi* with basal joint of poster. pair minute.

203 Dermestes *of Authors.*

1150 lardarius *L.* ii. 561. — *Ste. M.* iii. 121. — *Cur.* xv. pl. 682. — Oblong; black: elytra at the base with a very broad dense ashy-pubescent band, in which are 3 black dots: body beneath sparingly clothed with an ashy pile. (L. 3-4 l.) In skins, bacon, &c. Generally distributed: 3-8.

1151 murinus *L.* ii. 563. — *Don.* xv. pl. 515. — *Ste. M.* iii. 122. — Oblong; black: marbled above with cinerous; 2 spots on the disc of the

thorax, and the scutellum tawny; breast and abdomen beneath snow white; thighs with a snowy ring. (L. 3-4 l.) In dead moles, birds, &c. Also generally distributed: 4-8.

1152 laniarius *Ill. K.* i. 85. — *Ste. M.* iii. 122. — Short, convex; black; smooth; punctate: breast and abdomen with a whitish silken pile; antennæ short, rusty-red. (L. 3 l.) Furs; London district?: 4-8.

(1153 vulpinus *Fab. E.* i. 314. — *Ste. M.* iii. 123. — De. murinus *Pz. F.* xl. f. 10. — Oblong; black, above with a short ashy pubescence, beneath snow white; thorax with a distinct narrow border of cream-coloured and tawny down on each side; thighs with a white pilose ring. (L. 3-4½ l.) In hides, furs, &c., in kitchens; London and outports: 4-8.

1154 tessellatus *Fab. E.* i. 315. — *Ste. M.* iii. 123. — De. murinus *Oliv.* ii. pl. 1. f. 2.? — Oblong-ovate; black; pubescent: head and thorax varied with ferruginous; scutellum tawny; breast and abdomen beneath snow-white, spotted with black; thighs with a whitish fascia; antennæ rusty-brown. (L. 2½-3 l.) Dead oysters; Shoreham, Sussex, 8; Dover, 7.

204 Megatoma *Herbst.*

1155 undata *L.* ii. 562. — *Pz. F.* lxxv. f. 15. — *Ste. M.* iii. 125. — Black; pubescent; minutely punctured, shining: thorax with its hinder angles, and a small dot before the scutellum, clothed with white down; elytra with 2 remote varied bands of white scales, the basal one interrupted; tarsi pitchy. (L. 1¾-3 l.) Under bark; London district; York; Swansea; *5-6*.

205 Tiresias *Stephens.*

1156 Serra *Fab. E.* i. 319. — *Cur.* vii. pl. 244. — *Ste. M.* iii. 124. — Black, or pitchy (rarely chestnut), shining, thickly punctured, with a short, dusky pile; sides of thorax, tibiæ, and tarsi reddish; thighs pitchy; antennæ testaceous-yellow. (L. 1¾-2 l.) Under bark of willows, &c.; London district; Norfolk: *5-6*.

1157 † plantaris *Cur.* fo. 682. — De. nigripes *Pz. F.* xcvii. f. 5.? — Piceous: thickly and minutely punctured; middle of antennæ and tarsi ochreous. (L. 1⅔ l.) Near Windsor?

206 Attagenus *Latreille.*

1158 Pellio *L.* ii. 562. — *Don.* vii. pl. 231. — *Ste. M.* iii. 126. — Ovate; black; pubescent; minutely punctured: thorax with a white pubescent dot on each basal angle, and another before the scutellum; elytra somewhat pitchy, with a conspicuous snow-white pubescent spot on the back; antennæ reddish at the base. (L. 1¼-2 l.) In skins, furs, &c. Generally distributed: ⊙.

1159 † 3-fasciatus *Fab. E.* i. 313. — *Cur.* vii. pl. 247. — *Ste. M.* iii. 127. — Ovate; fuscous-black; glossy, clothed with decumbent hairs, and minutely punctured: thorax with the hinder margin, except in the middle, ashy white; elytra with 3 flexuous bands, composed of an ashy-white pile; and a spot of the same near the apex and scutellum; legs and base of antennæ testaceous. (L. 1½-2 l.) In birds' skins, and houses; Edinburgh: 3-4.?

§ 3. Stirps 1. HELOCERA *Dumeril.*

Fam. 25 Byrrhidæ. *Ant.* not geniculated, mostly placed during repose in a groove beneath the sides of the thorax; *mand.* not exposed.

Fam. 26 Histeridæ. *Ant.* geniculated, *i. e.* with the basal joint long, the remainder placed angularly at its tip; *mand.* rather long, exserted.

Fam. 25. BYRRHIDÆ *Leach.*

ccvii. Anthrenus *Ant.* 11-jointed; club somewhat solid, 3-articulate: *tho.* 3-lobed behind: *body* orbiculate-ovate, flattish, densely clothed with deciduous scales: *legs* short, compressed; *tarsi* exposed.

ccviii. Aspidiphorus *Ant.* 10-jointed; club long, 3-articulate: *tho.* 3-lobed behind: *body* somewhat orbiculate, slightly pubescent: *elytra* rounded at the apex: *legs* slender; *tarsi* elongate.

ccix. Trinodes *Ant.* 10-jointed; club 3-articulate: *tho.* 3-lobed behind: *body* ovate, somewhat convex, densely pilose: *legs* slender, pilose; *tarsi* longish.

ccx. Limnichus *Ant.* 11-jointed, longish; 2 basal joints short, stouter than the following; club 4-articulate: *tho.* waved at the base: *body* ovate, convex, slightly pubescent: *legs* short, compressed; *tarsi* short, stout.

ccxi. Syncalypta *Ant.* 11-jointed, 3d joint small; club 3-articulate: *tho.* rounded behind: *body* ovate, hemispheric: *elytra* striate, rigidly setose: *legs* compressed; *tarsi* elongate.

ccxii. Nosodendron *Ant.* 11-jointed, 3d joint very long; club large, 3-articulate: *tho.* rounded behind: *elytra* punctate, fasciculated: *legs* short, compressed; *tibiæ* serrated; *tarsi* short.

ccxiii. Byrrhus *Ant.* 11-jointed; club 5-articulate, gradually thickened to the tip: *palpi* with terminal joint truncate: *tho.* slightly waved behind: *body* ovate-globose, convex, sericeous: *legs* short, compressed; *tibiæ* dilated and slightly serrated; *tarsi* moderate.

ccxiv. Oömorphus *Ant.* 11-jointed, 8th joint small; club 5-articulate: *tho.* slightly waved behind: *body* glabrous, broadly ovate: *legs* short, compressed; *tibiæ* dilated, ciliated; *tarsi* short, 3d joint bilobed.

ccxv. Simplocaria *Ant.* 11-jointed; club 5-articulate: *palpi* with terminal joint acute: *tho.* waved behind: *body* ovate, convex; *elytra* pilose: *legs* longish, slender, slightly compressed; *tibiæ* not grooved to receive the *tarsi*, which are longish.

207 Anthrenus *Geoffroy.*

1160 Verbasci *L.* ii. 568. — *Ste. M.* iii. 129. — An. Scrophulariæ *Samou.* pl. 2. f. 4. ? — Brown-black; above nearly clothed with luteous-scales, the thorax with a narrow striola in front, a dot behind, and the sides broadly white; the elytra with 3 white bands; body ashy beneath; tibiæ and tarsi dusky. (L. 1½ l.) In flowers; London district: 4-7.

1161 Museorum *L.* ii. 568. — *Shaw, G. Z.* vi. pl. 13. — *Ste. M.* iii. 129. — Brown-black, irrorated with rusty scales; sides of the thorax and central lobe densely clothed with whitish ones: elytra with 3 bands composed of whitish and tawny scales, irregularly bent and sometimes confluent, and forming a pale spot; tibiæ and tarsi reddish. (L. 1-1¾ l.) London district; Bottisham; York; Swansea: 4-6.

1162 varius *Fab. E.* i. 108. — *Ste. M.* iii. 130. — Ashy; with the thorax and elytra varied with fuscous and cinerous scales; body beneath ashy and spotless. (L. 1 l.) London; and Crwmlyn Burrows, near Swansea: 4-6.

1163 Scrophulariæ *L.* ii. 568. — *Ste. D. F.* ii. pl. 36. — *Ste. M.* iii. 130. — Above black; beneath whitish, spotted with black on the sides; sides of the thorax, and 3 irregular flexuous bands on the elytra of white scales; the suture densely covered with bright red scales; tibiæ and tarsi reddish; antennæ testaceous, club black. (L. 1½-1¾ l.) Rare; near London and Edinburgh: 6.

1164 Pimpinellæ *Fab. E.* i. 106. — *Pz. F.* c. f. 1. — *Ste. M.* iii. 131. — Above black, varied with red and white scales: elytra densely clothed with

black scales, with a broad snowy-white band before the middle and a white dot near the apex, the tip itself with a few rusty scales intermixed; tibiæ and tarsi reddish, antennæ rusty-brown. (L. 1½ l.) Near London; in Devon and Suffolk: 5-6.

208 Aspidiphorus *Ziegler.*

1165 orbiculatus *Gyll.* i. 242. — *Ste. M.* iii. 131. — *Cur.* x. pl. 450. — Black, shining, somewhat pubescent; minutely punctured: elytra very convex, deeply punctate-striate; beneath pitchy-black; breast deeply punctate; legs reddish. (L. ¾-1 l.) In moss: Ripley; Epping Forest; Southgate; Marton: 6-11.

209 Trinodes *Megerle.*

1166 hirtus *Fab. E.* i. 108. — *Pz. F.* xi. f. 16. — *Ste. M.* iii. 132. — Black, or griseo-testaceous, shining, with a translucent appearance; above densely clothed with long hairs, beneath slightly pubescent: legs and antennæ testaceous. (L. 1¼-1½ l.) Windsor, and near Exeter: 5-6.

210 Limnichus *Ziegler.*

1167 sericeus *Duft.* iii. 24. — *Ste. M.* v. 411. — By. pygmæus *Stu. D. F.* ii. 114. pl. 35. f. *C.* — Oblong-ovate, slightly narrowed behind; black: very delicately punctured above, and clothed with a fine griseous down; legs and antennæ pitchy, or pale. (L. ½-¾ l.) Southend: 5-6; Stockton: 6.

211 Syncalypta *Dillwyn.*

1168 arenaria *Stu. D. F.* ii. 117. pl. 35. f. *E.* — *Ste. M.* iii. 133. — Subglobose; black; slightly glossy; elytra faintly and simply striate: thorax and elytra clothed with short rigid erect whitish capitate setæ, placed somewhat regularly on the latter. (L. ½-¾ l.) Sand and chalk pits, near London; in Norfolk, &c.: 4-8.

1169 cretifera *Marsham.* — *Ste. M.* iii. 133. — Somewhat globose; black, slightly glossy; elytra nearly smooth; the upper surface clothed with distinct erect white capitate setæ. (L. ⅓-½ l.) Chalk-pit, Little Blakenham, Suffolk: 9.

1170 maritima *Marsh.* i. 105. — *Ste. M.* iii. 134. — Somewhat ovate; black or pitchy; obscure; clothed above with dusky capitate setæ; elytra rather deeply striated; mouth rusty. (L. 1½ l.) Sandy coasts of Norfolk and Suffolk; Southend; Crwmlyn Burrows: 5-6.

1171† setiger *Ill. K.* i. 95. — *Stu. D. F.* ii. pl. 35. f. *D.* — *Ste. M.* iii. 134. — Short; ovate; dull black; above thickly clothed with short erect rigid capitate setæ, disposed in lines on the elytra, which last have 3 flexuous griseous-white transverse bands; body beneath and legs dusky-ferruginous. (L. 1¼ l.) Woodland, Devon: 6.

212 Nosodendron *Latreille.*

1172 fasciculare *Fab. E.* i. 94. — *Cur.* vi. pl. 246. — *Ste. M.* iii. 135. — Somewhat elongate, globose; black, shining; punctate, especially on the elytra, on which are little elevated tufts of obscure pale brown hairs, mostly disposed in rows; legs and antennæ chestnut brown; club dusky. (L. 2½ l.) Ashburton; and Southend, under bark of elms: 4-5.

213 Byrrhus *of Authors.*

1173 pilula *L.* ii. 568. — *Wood.* i. pl. 7. — *Ste. M.* iii. 136. — Oblong-ovate; brown or black; tomentose: elytra obsoletely striated, clothed

with an ashy-brown down, the alternate interstices with black silken stripes, interspersed with white or ash-colour. Variable: — some specimens occur with the dark stripes alone on the elytra; others have the alternate stripes dull-red, or golden-brown; others again are almost wholly black above, and the interstices appear elevated; and, when not quite mature, the abdomen and legs are dull red. (L. 3½-5 l.) Sandy and gravelly places; generally distributed: 3-6.

1174 Dennii *Kirby.* — *Cur.* iii. pl. 135. — *Ste. M.* iii. 136. — Oblong-ovate; black; clothed with a pale golden pubescence: thorax with 2 round black spots in front, and 2 angulated ones behind; elytra with 4 interrupted black stripes, and a broad waved transverse dorsal band; legs and antennæ pitchy-black. (L. 4 l.) Hampstead Heath, and chalk-pit at Barham: 4.

1175 fasciatus *Forst. C.* i. 12. — *Ste. M.* iii. 137. — By. ornatus *Pz. F.* xxiv. f. 1. var. — Short, ovate, black; tomentose: thorax clouded with golden pile; elytra with interrupted black stripes, and a transverse double curved rusty-red dorsal band, resembling a crown. Variable: the dorsal band on the elytra is sometimes composed of whitish dots; and the latter are sometimes so remote on the suture as to form a ring, instead of a crown. (L. 3½-4 l.) Sandy, &c., places; generally distributed: 3-5.

1176 oblongus *Stu. D. F.* ii. 97. pl. 34. f. *A.* — *Ste. M.* iii. 137. — Oblong-ovate; pitchy-black; with a fuscous pubescence: thorax spotless; elytra with 3 interrupted black streaks and several distinct white spots, forming 2 transverse waved nearly parallel bands. (L. 4 l.) Hampstead Heath; Wimbledon Common, &c.: 3-6.

1177 dorsalis *Fab. E.* i. 85. — *Ste. M.* iii. 137. — By. fasciatus *Pz. F.* xxxii. f. 1. var. — Short; oval; black; thorax with rusty patches: elytra with black stripes, and across the back an unequal short rust-coloured band, edged on each side with whitish, or ashy: these white spots are sometimes almost obsolete; and the thorax is occasionally spotless: and old specimens are entirely black. (L. 3-3¼ l.) Gravelly places; near London; Martlesham Heath, Suffolk; Swansea: 4-6.

1178 sericeus *Forst. C.* i. 16. — *Ste. M.* iii. 138. — By. varius *Pz. F.* xxxii. f. 3. — Ovate; black; above brassy-green, clothed with rusty-brown pubescence; slightly variegated on the thorax: elytra striated, green-bronze, the alternate interstices more brilliant and tessellated with black. Variable: sometimes dull obscure blackish-bronze above, and pitchy beneath; or with the abdomen and base of the thighs red. (L. 2½-3 l.) Sandy, &c., places; pretty generally distributed in England; also found at Collinton, near Edinburgh: 4-6.

1179 fuscus *Marsh.* i. 105. — *Ste. M.* iii. 138. — Ovate; black, or dull fuscous; thorax shining and thickly punctulate; elytra striated, with very obscure spots on the alternate interstices; legs and antennæ fuscous. (L. 2½ l.) Near London, and Holt, in Norfolk: 4.

1180 murinus *Fab. E.* i. 104. — *Pz. F.* xxv. f. 1. — *Ste. M.* iii. 138. — Ovate, fuscous; black beneath; clothed with griseous pubescence: thorax varied; elytra rusty-brown, with 3 short black silken stripes, and a double row of white spots on the middle of the back, forming a transverse band. (L. 2-2½ l.) Cobham; Martlesham Heath; Beachamwell: 4-6.

1181 æneus *Fab. E.* ii. 105. — *Pz. F.* xci. f. 3. — *Ste. M.* iii. 371. — Oblong-ovate; above shining brassy-green, with an ashy pile, punctured: scutellum whitish; elytra not striated, irregularly punctured; body with a dense ashy pile beneath; antennæ pitchy-black. (L. 2¼ l.) Near Edinburgh; near Hawick, in Dumfriesshire; and Sutherland: 4-8.

214 OÖMORPHUS *Curtis.*

1182 concolor *Stu. D. F.* ii. 109. pl. 35. f. *A.* — *Ste. M.* iii. 139. — Ph. maritimus *Ste. M.* ii. 197. pl. 15. f. 1. — Ovate; deep shining black, faintly bronzed, and very slightly pubescent: elytra deeply punctate-striate to the tip, interstices finely punctured; 2d joint of antennæ sometimes pale orange. (L. 1½ l.) London district, in moss; Dover, common; Bristol and Norfolk: 12-6.

215 SIMPLOCARIA *Marsham.*

1183 semistriata *Ill. K.* i. 97. — *Ste. M.* iii. 140. — *Cur.* vii. pl. 335. — Oblong-ovate, pitchy-black; punctured; pubescent: thorax and elytra somewhat brassy, the latter with a single stria at the suture, and several short ones at the base; legs and antennæ pale red. (L. 1¼-1½ l.) Grassy places; London district, and S. of England: 4-6.

1184 picipes *Oliv.* ii. 89. pl. 2. f. 9. — *Ste. M.* iii. 140.—Oblong, blackish-brass; shining: thorax with a griseous pile; elytra elongate, narrowed at the tip, rather deeply striate nearly to the apex, interstices minutely punctured; legs and antennæ testaceous-red. (L. 1½ l.) London district; Bristol; Swansea: 4-6.

Fam. 26. HISTERIDÆ *Leach.*

ccxvi. ABRÆUS *Body* somewhat globose, minute: *mand.* retracted: *prosternum* short, wide, truncate in front: *elytra* smooth: *legs* rather long; *tibiæ* entire, anter. compressed, poster. rounded.

ccxvii. ONTHOPHILUS *Body* subquadrate: *mand.* retracted: *prostern.* broad, truncate in front, slightly notched behind: *elytra* (and *tho.*) deeply sulcate: *legs* elongate, slender; *tibiæ* all rounded, entire.

ccxviii. HISTER *Body* robust, slightly flattened: *mand.* porrected: *prostern.* lobed in front, rounded or truncate behind: *elytra* striated, outer striæ entire: 4 *poster. tibiæ* compressed, and with 2 rows of spines.

ccxix. SAPRINUS *Body* robust, short, a little flattened: *mand.* porrected: *prostern.* compressed, produced, but not lobed, in front: *elytra* striated, outer striæ abbreviated; apex generally much punctured: 4 *poster. tibiæ* compressed, and with 2 rows of spines.

ccxx. DENDROPHILUS *Body* oval, or somewhat globose, slightly convex: *mand.* porrect: *prostern.* rounded behind: *elytra* faintly striated; striæ mostly abbreviated: *tibiæ* broad, angulated without, 4 *poster.* with 1 row of spines.

ccxxi. EPIERUS *Body* oval, flattish: *mand.* retracted: *prostern.* truncate behind: *elytra* deeply striated, to the apex: *tibiæ* short; *anter.* entire, serrate with spines; 4 *poster.* rounded, with 1 row of scattered spines.

ccxxii. PAROMALUS *Body* oval, flattish, small: *mand.* porrect: *prostern.* rounded behind: *elytra* slightly striated: *tibiæ* narrow, slightly incurved.

ccxxiii. PLATYSOMA *Body* flat: *mand.* exserted, equal, dentate: *prostern.* rounded behind: *elytra* slightly striated: *tibiæ* all denticulate.

216 ABRÆUS *Leach.*

1185 globosus *Ent. H.* i. 100. pl. 2. f. 1. — *Ste. M.* iii. 142. — Globose; pitchy-red; finely punctate; thorax considerably narrowed in front; elytra nearly as long as the abdomen, distinctly truncate at the apex: 4 hinder tibiæ linear and slender, anterior pair dilated in the middle. (L. 1½-¾ l.) Garden refuse; near London; Norwich; Netley: 4-6.

1186 minutus *Fab. E.* i. 90. — *Pk. M. H.* 87. pl. 8. f. 1. — *Ste. M.* iii. 142. — Somewhat round; pitchy; shining, very obsoletely punctate:

thorax slightly narrowed in front; elytra moderately convex, the sides dilated, shorter than the abdomen, the apex obliquely truncate; tibiæ all linear, anterior pair slightly bowed and a little dilated externally. (L. $\frac{1}{3}$-$\frac{1}{2}$ l.) In dunghills, &c.; near London; Norwich; Devonshire; Swansea: 4-6.

217 Onthophilus *Leach.*

1187 striatus *Forst. C.* i. 11. — *Pk. M. H.* 100. pl. 11. f. 1. — *Ste. M.* iii. 143. — Black; slightly shining: thorax and elytra with 6 raised lines, the suture also elevated; interstices delicately striate and punctured; antennæ black, club dusky. (L. $\frac{3}{4}$-1 l.) In dung, pretty generally distributed in England; also near Edinburgh: 4-6.

1188 sulcatus *Fab. E.* i. 89. — *Ste. M.* iii. 143. — *Cur.* v. pl. 220. — Dull black: head and thorax punctate, the latter with 5 raised lines; elytra with 3 lines and the suture much elevated, interstices with 4 finely raised ridges, the alternate ones sparingly punctate; mouth and antennæ dull red, basal joint of the latter black. (L. $1\frac{1}{4}$-$1\frac{3}{4}$ l.) Coombe Wood; Notts; Norfolk; W. of England: 4-6.

218 Hister *of Authors.*

§ A. *Thorax* with 2 striæ on the sides.

1189 Marshami *Ste. M.* iii. 144. pl. 18. f. 5. — Elongate, 4-drate; deep glossy black; flattish: elytra with 6 obsoletely punctured striæ, the sutural 1 shortened at the base, 4 next entire, 6th on the outer angle, short and impunctate; anter. tibiæ 3-dentate; 4 poster. with numerous chestnut spines. (L. $3\frac{1}{2}$ l.) Near London?

1190 merdarius *Ent. H.* i. 39. pl. 1. f. 3. — *Ste. M.* iii. 144. — Oblong 4-drate; shining black: thorax with the space between the lateral striæ thickly punctured; elytra with 2 short sutural striæ, 3 entire ones beyond, and 1 shortened on the margin; anter. tibiæ 4-dentate; antennæ with club rusty. (L. 3 l.) In dung, &c.; Copenhagen fields; Battersea fields; Sherwood Forest; and in Herefordshire: 4-6.

1191 unicolor *L.* ii. 567. — *Wood.* i. pl. 5. — *Ste. M.* iii. 145. — Somewhat ovate, and rather convex; deep glossy black: thorax with outer lateral striæ short; elytra with 3 short sutural striæ, the central one shortest, then 3 entire ones, and an abbreviated, interrupted one on the margin; anterior tibiæ 3-dentate, outer tooth bifid. (L. 2-4$\frac{1}{2}$ l.) In carcases, dung, &c.; generally distributed: ⊙, ∗.

1192 cadaverinus *Ent. H.* i. 34. pl. 1. f. 2. — *Ste. M.* iii. 145. — Rather ovate and convex; deep shining black or pitchy-brown: thorax with the inner lateral striæ remote from margin and waved; elytra with 2 short sutural striæ, then 5 nearly entire, the 2 nearest the suture not quite reaching to the base; anterior tibiæ with 5 or 6 small denticulations on the outer edge. (L. 2-4 l.) In carcases, &c.; also generally distributed: ⊙, ∗.

1193 4-maculatus *L.* ii. 567. — *Ste. M.* iii. 146. — *Cur.* x. pl. 470. — Oblong 4-drate; black; slightly glossy: thorax with the outer lateral striæ very short; elytra flattish, with 4 faint bent striæ, the outer one shortened; on the shoulder is a large crescent-shaped red patch, frequently divided in the middle, and sometimes half or wholly obliterated: anterior tibiæ 3-dentate, outer tooth entire: club of antennæ rusty. (L. $3\frac{1}{2}$-$4\frac{1}{2}$ l.) In carcases, &c.; coasts of Kent, Sussex, and Hants: 5-7.

1194 sinuatus *Ill. K.* i. 57. — *Ste. M.* iii. 146. — Hi. 4-maculatus *Don.* xv. pl. 525. — Somewhat rounded, glossy black: thorax with the outer lateral striæ short; elytra slightly convex, with 3 very faint and very short

sutural striæ, the 1 nearest the suture longest, then 3 entire ones, but not any lateral one; on the shoulder is a broad, bright red, curved spot, reaching from the base nearly to the apex; anterior tibiæ 3-dentate, outer tooth bifid. (L. 2½-3½ l.) In carcases, &c.; Dartford Heath; Swansea; Kingsbridge; Carlisle, &c.: 5-6.

1195 4-notatus *De Geer*, iv. 344. — *Pk. M. H.* pl. 12. f. 3. — *Ste. M.* iii. 147. — Rounded, broad; glossy black: thorax with both lateral striæ entire; elytra flattish, with 2 entire striæ towards the margin, and an indistinct one within, leaving a broad space between it and the suture; on the shoulder is a square red dot, and an oblique one on the disc, at times united to the former; anter. tibiæ with 3 teeth, outer one bifid; club of antennæ rusty. (L. 2½-3½ l.) In carcases, &c.; Bristol, and W. of England: 5-6.

§ B. *Thorax* with 1 stria on the sides.

1196 parvus *Marsh.* i. 93. — *Ste. M.* iii. 148. — Hi. bi-6-striatus a. *Pk. M. H.* 32. pl. 3. f. 3. — Shining black: thorax with a very short stria at each anterior angle, and a waved one within reaching nearly to the base; elytra with 6 striæ, the 2 inner more or less shortened at the base; legs pitchy; anter. tibiæ 3-dentate, outer tooth bifid. (L. 2-2¼ l.) In carcases, &c., London district; Netley; Swansea; Birmingham: 4-6.

1197 corvinus *Germar.* — *Pk. M.* pl. 3. f. 4. — *Ste. M.* iii. 148. — Deep black, shining: thorax with lateral striæ waved; elytra with 6 striæ, the 2 inner short, the sutural one longest; antennæ and legs rusty-red; anter. tibiæ 4-dentate. (L. 2 l.) In carcases, &c.; London district; near Hertford: 4-6.

1198 bimaculatus *L.* ii. 567. — *Pk. M. H.* pl. 3. f. 6. — *Ste. M.* iii. 148. — Flattish; black, shining: thorax with a small rounded fovea on each side near the anterior angle; elytra with the apex diagonally from the shoulder to the tip of the suture bright red, the disc with 6 punctate striæ, the sutural one not reaching to the base: tibiæ, tarsi, and antennæ rusty; anter. tibiæ 4-dentate. (L. 1½-2¼ l.) In carcases, &c.; London district; Netley; Swansea; Carlisle; Newcastle; Scotland: 4-8.

1199 12-striatus *Pk. M. H.* 36. pl. 3. f. 5. — *Ste. M.* iii. 147. — Shining black: forehead with a straight stria; elytra with 6 nearly equidistant striæ, the sutural one united to the 2d at the base, and enclosing an elliptic space; anterior tibiæ 3-dentate, outer tooth bifid; club of antennæ rusty. (L. 2 l.) In carcases, &c.; London district; Oxford; Swansea; Birmingham; Burnham; &c.: 4-6.

1200 14-striatus *Gyll.* i. 83. — *Klug Jahr.* (*Erich.*) i. 152. — Somewhat ovate; deep black, shining: forehead equal, with a stria, which is inflexed in the middle; thorax with 2 faint foveæ near the anterior angles; elytra with 6 entire equidistant punctate striæ, and a short humeral one; anter. tibiæ 3-dentate, outer one slightly bifid; antennæ pale rusty at the apex. (L. 2 l.) In carcases, &c.; London district: 4-6.

1201 nigrita *Ste. M.* iii. 149. — Rather oblong; deep black: thorax with the lateral striæ rather close to the margin; elytra with 2 short sutural striæ, the outmost one shortest, then 4 entire ones, but not any marginal one; anter. tibiæ with 5 teeth, outer one bifid. (L. 2 l.) In carcases, &c., London district: 4-6.

1202 stercorarius *Ent. M.* i. 57. pl. 1. f. 5. — *Ste. M.* iii. 149. — Oblong-ovate, black and very glossy: thorax with lateral stria remote from the margin, and recurved at the base; elytra with 3 very short sutural striæ, then 3 impunctate entire ones, and a short one in the middle of the margin, the reflexed portion of the latter with a smooth elongate fovea;

tibiæ all 4-dentate, anterior with middle teeth stoutest. (L. 2-3 l.) In carcases, &c., London district; S. of England; S. Wales, &c.: 4-6.

1203 neglectus *Zenker.* — *Germ. M.* i. 120. — *Ste. M.* iii. 150. — Oblong-ovate, deep black and shining: thorax with lateral striæ entire, straight: elytra flattish, with 2 short sutural and 5 entire striæ, the outer one rather flexuous and faint; anter. tibiæ with 5 obtuse teeth; antennæ pitchy, or red at the base, club dusky. (L. 3 l.) In carcases, &c.; generally distributed in the South; Notts; Forfarshire: 4-6.

1204 Leachii *Ste. M.* iii. 150. — Slightly convex; black, shining: thorax with the lateral striæ short; elytra with 2 sutural striæ of equal length — half that of the elytra — then 4 entire ones, and a short marginal one; the 5 last slightly punctate; anterior tibiæ 5-toothed; antennæ pitchy, club black. (L. 2½ l.) In carcases, &c., London district; Bristol: 4-6.

1205 carbonarius *Ent. M.* i. 54. pl. 1. f. 4. — *Ste. M.* iii. 150. — Deep shining black; or chestnut-brown: thorax narrowed in front, with the lateral striæ entire and curved; elytra with 2 very short sutural striæ, then 4 entire, the 1st of which is sometimes shortened at the base; and 1 on the margin, the reflexed margin of the latter with an oblong deeply punctured fovea; anter. tibiæ with 5 or 6 denticulations. (L. 2-3½ l.) In carcases, &c.; generally distributed in England; also near Edinburgh: 4-6.

1206 quisquilius *Ste. M.* iii. 151. — Very glossy black: thorax with the lateral striæ remote, and not reaching to the base; adjoining their termination on each side is a deep rounded fovea; elytra with 3 short sutural striæ, and 4 entire ones; anter. tibiæ 4-dentate; club of antennæ dusky. (L. 2½ l.) In carcases, &c., London district; Bristol; Swansea: 4-6.

1207 Kirbii *Ste. M.* iii. 151. — Shining black: thorax with the lateral striæ close to the margin, and short; elytra with 2 short sutural striæ, 4 entire ones, arranged in pairs, and 1 short on the margin; anter. tibiæ 5-dentate, the outer tooth bifid. (L. 3 l.) In carcases, &c., London district; Carlisle: 4-6.

1208 purpurascens *Fab. E.* i. 87. — *Pk. M. H.* 38. pl. 3. f. 7. — *Ste. M.* iii. 152. — Convex; shining black: elytra with 2 shortish sutural striæ, 4 entire ones, and a short marginal one; the disc with an undefined red spot, varying in size, and rarely obliterated; anterior tibiæ 5-dentate. In carcases, &c.: generally distributed; less common in S. Wales and near Edinburgh: 3-7.

1209 castanipes *Kirby.* — *Ste. M.* iii. 152. — Black, slightly shining; rather convex: elytra with 1 stria near the suture about ⅔ds the length of the elytra, next 1 very short one, then 5 entire ones; legs pitchy-chestnut; anter. tibiæ waved without; antennæ rusty. (L. 2 l.) In carcases, &c., near London; Notts; and Suffolk: 4-6.

1210 caliginosus *Ste. M.* iii. 152. — Rather oblong, deep glossy black: thorax with a faint bent stria on the anterior angles, the lateral one punctate; on the sides and base some remote impressions; elytra with 1 short sutural stria, then 2 half the length of the 1st, and united at the apex, then 3 entire ones, and a short basal one on the margin; anter. tibiæ 5-dentate; outer tooth bifid; club of antennæ rusty. (L. 2½ l.) In carcases, &c., near London: 4-6.

219 Saprinus *Erichson.*

1211 nitidulus *Fab. E.* i. 85. — *Samou.* pl. 2. f. 1. — *Ste. M.* iii. 153. — Ovate, bronzed-black; shining; forehead and sides of the thorax punctured; disc of the latter smooth: elytra with the hinder half thickly and

finely punctate, the anterior impunctate, with 5 short, oblique punctate-striate, the spaces between the 3d and 5th obliquely wrinkled; legs pitchy-black; anterior tibiæ slightly crenate-dentate. Elytra sometimes punctured and wrinkled throughout, with the usual striæ almost obliterated. (L. 2-3 l.) In dung, &c.: generally distributed in England and Scotland: ⊙, ✶.

1212 pulcherrimus *Weber, Obs.* 37. — *Ste. M.* iii. 153. — Hi. speculifer *Pk. M. H.* 70. pl. vi. f. 4. — Ovate, brassy-black; finely punctulate: disc of thorax very smooth, glossy; elytra with a single sutural stria, recurved at the base, and enclosing a highly polished bright impunctate space, a small spot between this and the shoulders, and the latter also, polished and impunctate; legs pitchy. (L. 1½-2 l.) In carcases, &c., S. Wales: 4-6.

1213 4-striatus *Pk. M. H.* 71. pl. vi. f. 5. — *Ste. M.* iii. 154. — Ovate, convex; bluish-black, ruggedly punctate: disc of the thorax, shoulders, and an oval space on the elytra, near the scutellum, impunctate and highly polished; elytra with 4 obscure striæ, and a sutural one, which is recurved at the base; anter. tibiæ strongly 4-dentate. (L. 1½-2 l.) In carcases, &c., N. Wales: Southend: 4-6.

1214 æneus *Fab. E.* i. 88. — *Pk. F.* 68. pl. vi. f. 6. — *Ste. M.* iii. 154. — Ovate; brassy or black; punctured; disc of thorax, and a broad space at the inner base of the elytra impunctate, the latter divided by a sutural stria, which is recurved, next stria very short, followed by 3 other longish ones, the space between which is obliquely punctate-strigose; anterior tibiæ crenulated. (L. 1-1½ l.) In dung, &c.; common in England and Scotland: 4-8.

1215 conjungens *Pk. M. H.* 65. pl. vi. f. 1. — *Ste. M.* iii. 155. — Ovate; brassy-black, or greenish: forehead, lateral margin, and extreme base of thorax and tip of elytra alone punctate; the elytra with 5 striæ extending beyond the middle, the internal one recurved; legs pitchy; anterior tibiæ 5-dentate. (L. 1½ l.) In dung, &c., N. Wales: 4-6.

1216 maritimus *Ste. M.* iii. 155. — Oblong-ovate; black: thorax very smooth, the extreme base punctured; elytra with a sutural stria and 4 short ones, extending beyond the middle of the disc, the 1st of them united to the sutural one at the base; the apical portion of the elytra thickly and coarsely punctured; anterior tibiæ 4- or 5-dentate; club of antennæ pitchy. Sometimes the space between the sutural and 2d striæ is entirely rugged. (L. 1½-1¾ l.) In carcases, &c., on the coasts; Essex; Norfolk; Suffolk; Yorkshire; S. Wales, and Edinburgh: 4-7.

1217 semistriatus *Ste. M.* iii. 156. — Convex; black, obscure; punctured: thorax with the disc smooth behind; elytra with the base smooth, the usual recurved sutural stria and 3 equidistant ones, the 3d longest, followed by a very short one, apex punctured within; anterior tibiæ waved. (L. 1½ l.) In dung, &c., Bristol: 4-6.

1218 metallicus *Fab. E.* i. 89. — *Pk. M. H.* 67. pl. vi. f. 3. — Deep violet-black, or greenish, with a metallic tint: forehead with 2 wrinkles; thorax punctate, disc smooth behind; elytra with the apex punctured within, the disc with the usual sutural stria and 4 abbreviated ones, extending rather beyond the middle; anterior tibiæ 5-toothed. (L. 1¼ l.) In carcases, &c., coasts of Norfolk, Suffolk, and Crwmlyn Burrows: 4-6.

1219 violaceus *Marsh.* i. 96. — *Ste. M.* iii. 157. — Ovate; violaceous: thorax with its entire disc punctate; elytra with the base smooth, the apex obliquely punctate, the foveæ with the usual sutural and 5 other striæ; anterior tibiæ 5-dentate. (L. 2-⅓ l.) In carcases, &c., Suffolk and Swansea: 4-6.

1220 virescens *Pk. M. H.* 69. pl. vi. f 7. — *Ste. M.* iii. 157. — Ovate;

shining blue-green: forehead and thorax entirely punctate; elytra also punctate, except a small ovate smooth space, bounded by the usual sutural stria, beyond which last are 3 other short striæ and the rudiments of a 4th: tibiæ pitchy; anterior multi-dentate. (L. 1¾-2 l.) In carcases, &c., Battersea and Copenhagen fields; Bottisham; Newmarket Heath; Welbeck; Swansea; Marsden: 4-6.

1221 rotundatus *Fab. E.* i. 190. — *Pk. M. H.* 77. pl. 7. f. 3. — *Ste. M.* iii. 157. — Ovate; deep black, sparingly punctate throughout: sutural stria extremely short, connected, as usual, with the 2d at the base, which is followed by 3 other short ones, gradually increasing in length, and a very short one on the shoulder; club of antennæ rusty; anterior tibiæ 5-toothed. (L. 1¼ l.) Under bark, &c., near London; Norfolk and Swansea: 4-6.

220 Dendrophilus *Leach.*

1222 † Sheppardi *Kirby.* — *Cur.* iii. pl. 131. — *Ste. M.* iii. 158. — Deep chestnut, slightly shining; very finely punctured: elytra with 1 straight and 5 broad, very shallow, striæ, extending the whole length. (L. 1½ l.) Dead snake, Nacton, Suffolk; Windsor: 5-7.

1223 † Cooperi *Ste. M.* iii. 159. — Black; rather glossy; finely punctured: scutellum minute; elytra with 5 striæ, extending nearly to the apex, and a 6th, shorter one, towards the suture; legs dull chestnut; antennæ rusty. (L. 1½ l.) Cobham: 10.

1224 punctatus *Ill. K.* i. 60. — *Pk. M. H.* 79. pl. 7. f. 5. — *Ste. M.* iii. 159. — Ovate; black; thickly punctate: elytra with 2 short slightly bent striæ at the base, remote from the suture, and then 2 others, extending nearly to the apex; legs pitchy-red; tibiæ dilated; anterior crenulated. (L. ¾-1 l.) Under bark, &c., Waltham Cross; Sherwood Forest; Norwich; Cramond: 4-6.

1225 pygmæus *L.* ii. 567.? — *Pk. M. H.* 81. pl. 7. f. 6. — *Ste. M.* iii. 159. — Pitchy-black: thorax very smooth; elytra very finely and delicately punctured, with 4 very obscure dorsal striæ, neither extending to the base nor to the apex, the 2 outer ones the shortest; legs pitchy; tibiæ all dilated, entire. (L. ½-1 l.) Under bark, &c., London district; Norfolk: 5-6.

1226 piceus *Pk. M. H.* 87. pl. 7. f. 7. — *Ste. M.* iii. 160. — Pitchy-red; nearly globose; very smooth: elytra with a longish marginal stria and 4 on the disc, abbreviated at each end, the inner one very short; legs pale reddish; tibiæ slender, simple. (L. ⅓-⅔ l.) Under stones, &c., London district; Netley, &c.: 5-6.

221 Epierus *Erichson.*

1227 14-striatus *Ste. M.* v. 412. — Deep black, very glossy, delicately, but obscurely punctured: elytra with 7 continuous striæ reaching from the base to the apex, and a little bent; legs pitchy-black. (L. 1¼-1½ l.) In rubbish, &c., Battersea fields: 6-8.

222 Paromalus *Erichson.*

1228 flavicornis *Herbst.* iv. 40. — *Pk. M. H.* 90. pl. 8. f. 6. — *Ste. M.* iii. 160. — Oblong-oval; flat; glossy black; thickly punctulated throughout, except the tip of the abdomen: elytra with a short lateral, and 3 much shorter, obscure slender striæ; legs and antennæ pale pitchy-red, the latter palest; anterior tibiæ denticulated. (L. ¾-1 l.) Boleti: near Bristol; Coombe Wood; South Creek, Norfolk: 6.

1229 parallelipipedus *Herbst.* iv. 37. — He. picipes *Stu. D. F.* i. pl. 19. f.

a. — *Ste. M.* iii. 161. — Oblong, flattish; pitchy-black; delicately punctured: thorax and elytra with the lateral margins almost parallel; base of the latter with 1 or 2 faint striæ; apex pitchy; legs and antennæ pitchy-red; anterior tibiæ slightly denticulated. (L. 1 l.) Under bark: Norwich; Swansea; Bristol; Camberwell: 6.

1230 complanatus *Pk. M. H.* 105. pl. 8. f. 7. ? — He. picipes *var.* ? *Ste. M.* iii. 161. — Pitchy-black: thorax margined; very smooth; elytra punctulated, base not striated; legs and antennæ pitchy; tibiæ simple, anterior slightly dilated. (L. 1 l.) Boleti: near Bristol; London: 6.

223 Platysoma *Leach.*

1231 frontale *Pk. M. H.* 44. pl. ix. f. 8. — Oval, flattish; black: lateral margins of the thorax, head, and abdomen, rather deeply punctate; disc and elytra very smooth, the latter with a very short sutural stria near the apex, 2 longer ones, extending forwards to about the middle, and 3 entire ones; legs dull pitchy; club of antennæ rusty. (L. 1½ l.) Under bark, near London: 6.

1232 depressum *Fab. E.* i. 91. — *Pz. F.* lxxx. f. 6. — *Ste. M.* iii. 162. — Deep glossy black: thorax finely punctured on the sides; elytra smooth, with 3 entire striæ on the outer edge, and 2 short ones at the apex towards the suture, the inner one sometimes wanting: legs pitchy; antennæ rusty. (L. 1½ l.) Under bark of oaks, near London; in Norfolk and Swansea: 5-6.

1233 oblongum *Fab. E.* i. 92. — *Pk. M.* 93. pl. x. f. 3. — *Ste. M.* iii. 162. — Linear-oblong; flattish, shining black: lateral margins of the thorax finely punctate; elytra linear, with 6 striæ, the 3 inner ones abbreviated at the base: legs pitchy; antennæ rusty. (L. 1½ l.) Under bark of beech, near Norwich and London: 6.

§ 3. Stirps 2. LAMELLICORNES *Latreille.*

Fam. 27 Lucanidæ. *Ant.* 10-jointed, geniculated; club somewhat perfoliated, or pectinated, consisting of 3 or 4 lamellæ (or plates): *mand.* in ♂ large: *legs*, especially the *anter.*, elongate; *claws* large, with a bifid claw-like process between them.

Fam. 28 Scarabæidæ. *Ant.* 9-jointed; club large, 3-leaved: *mand.* membranaceous: *maxillæ* with membranaceous processes; their *palpi* naked, *labial* hairy: *scutellum* concealed: *legs* stout; poster. remote; *tibiæ* broad, dentate; *tarsi* small; *claws* minute.

Fam. 29 Geotrupidæ. *Ant.* 11-jointed; club large, 3-leaved, somewhat globose: *mand.* porrect, horny: *maxillæ* with membranaceous processes; their *palpi* naked, *labial* slightly pilose: *legs* very stout; *tibiæ* broad, spinose at the tip, dentate; *tarsi* rather long, slender.

Fam. 30 Aphodiidæ. *Ant.* 9-jointed; club 3-leaved, somewhat globose-ovate: *mand.* concealed: *maxillæ* with membranous processes: *palpi* glabrous: *legs* short, equidistant; *thighs* with a row of hairs within; *tibiæ* broad, dentate.

Fam. 31 Trogidæ. *Ant.* 9- or 10-jointed; club 3-leaved, ovate, transverse: *mand.* horny, stout, acute at the tip: *maxillæ* horny: *labrum* conspicuous, coriaceous: *elytra* ample, gibbous: *legs* short, stout; *tibiæ* compressed, *anter.* slightly dentate.

Fam. 32 Dynastidæ. *Ant.* 10-jointed; club 3-leaved, short, ovate: *mand.* convex, obtuse at tip: *maxillæ* horny: *clypeus* concealing the *labrum*, and mostly horned: *legs* stout; *tibiæ* broad, *anter.* much dentate; *tarsi* long.

Fam. 33 Melolonthidæ. *Ant.* 9- or 10-jointed; club elongate, with from 3 to 7 leaves: *mand.* stout, horny, concealed: *maxillæ* short, with a horny process within: *labrum* with the anterior edge exposed: *legs* rather long, slender; *tibiæ* not dilated, often dentate; *claws* mostly bifid or dentate.

Fam. 34 Cetoniadæ. *Ant.* 10-jointed, glabrous: *mand.* compressed, slender, lanceolate: *maxillæ* with a membranaceous process within: *labrum* concealed: *scutellum* distinct: *legs* slender; *tibiæ* slender; *claws* simple, acute.

Fam. 27. LUCANIDÆ *Leach.*

ccxxiv. Platycerus *Ant.* with club pectinated, 4-leaved: *labium* entire: *mand.* of ♂ moderate, lunate: *body* flattened: *legs* shortish; *anter. tibiæ* irregularly serrated.

ccxxv. Dorcas *Ant.* with club somewhat perfoliated, 4-leaved: *labrum* distinct: *mand.* of ♂ moderate: *labium* bilobed: *head* broad, in ♀ with 2 shining tubercles: *body* flattened: *legs* rather short; *anter. tibiæ* narrow, serrated; *tarsi* short.

ccxxvi. Lucanus *Ant.* with club pectinated, 4-leaved: *labrum* concealed: *mand.* of ♂ gigantic; bent, irregularly dentate within and furcate at the apex, glabrous; of ♀ moderate, acute at tip: *labium* bifid: *body* slightly convex: *head* large; sometimes margined: *legs* long; *anter. tibiæ* dilated, compressed in ♀, dentate; *tarsi* long.

ccxxvii. Sinodendron *Ant.* short, with club pectinated, 3-leaved, compressed: *mand.* very short, concealed beneath the clypeus: *mentum* small: *head* and *tho.* in ♂ horned: *body* convex, cylindric; *legs* short; *tibiæ* spinous; *tarsi* short.

224 Platycerus *Geoffroy.*

1234 caraboides *L.* ii. 561. — *Cur.* vi. pl. 274. — *Ste. M.* iii. 164. — Above blue, or greenish, shining; minutely punctured; beneath dull pitchy-black, pubescent: elytra punctate-striate; legs pitchy; antennæ black; palpi pitchy. (L. 6-7½ l.) Bristol; Oxford; W. of England; and in Scotland: 6.

225 Dorcas *MacLeay.*

1235 parallelipipedus *L.* ii. 561. — *Don.* viii. pl. 164. — *Ste. M.* iii. 165. — Dull-black: ♂ finely punctured; with mandibles as long as the head, with an elevated tooth in the middle; labrum broad truncate; ♀ rather more glossy and roughly punctured; mandibles short; labrum small, deeply notched; head with 2 shining tubercles. (L. 9-15 l.) In rotten trees, especially ash; common in the S. of England: 7-8.

226 Lucanus *of Authors.*

1236 Cervus *L.* ii. 559. — *Ste. M.* iii. 166. — *Cur.* xi. pl. 490 ♂; *lower fig.* (*uncol.*) ♀. — Brown-black, thickly punctured; mandibles and elytra chestnut brown. (L. ♂ 1 in. 3 l. — 3 in.: ♀ 1 in. — 1 in. 8 l.)

Var. Lu. grandis *Haworth.* — Head wider than the thorax, with a high marginal ridge: mandibles very long, apex bifurcate, middle with a long acute tooth and several blunt smaller ones within. (L. ♂ 2 in. — 3 in.)

Var. Lu. dorcas *P2. F.* lviii. f. 11. — Head smaller than the thorax, without elevated margins; mandibles bifurcate at the tip, and irregularly crenulated in the middle within. (L. ♂ 1 in. 3 — 2 in. 2 l.) Abundant in Surrey; Kent; Essex; New Forest; Devonshire: occasionally in Berks and Suffolk: 6-8.

227 Sinodendron *Fabricius.*

1237 cylindricum *L.* ii. 554. — *Don.* xi. pl. 368. — *Ste. M.* iii. 167. — Black, shining; punctate, elytra roughly striate: ♂ with a compressed, bent, vertical obtuse horn on the head, clothed with a tawny down behind; thorax very convex, obliquely truncate in front and 5-dentate; ♀ with a short, straight horn on the head, and the thorax not truncate in front. (L. 4-10 l.) In decayed ash and willow trees, pretty generally distributed throughout England: 6-7.

Fam. 28. SCARABÆIDÆ *MacLeay.*

ccxxviii. Copris *Body* convex, ovate: *max. palpi* with terminal joint fusiform, acute: *labial* with apical joint minute: *clypeus* deeply notched in front: *tho.* transverse, distinctly shorter than the elytra.

ccxxix. Onthophagus *Body* broadly ovate, flattened: *max. palpi* with terminal joint fusiform, truncate; *labial* with apical joint evanescent: *clypeus* slightly notched, or entire: *tho.* broad, as long as the elytra.

(ccxxx. Oniticellus *Body* elongate-ovate, flattened: *max. palpi* with terminal joint somewhat ovate; *labial* with apical joint subulate: *tho.* large, nearly orbiculate, nearly as long as the elytra: *legs* rather long.)

228 Copris *Geoffroy.*

1238 lunaris *L.* ii. 543. — *Don.* v. pl. 154. f. 4. — *Ste. M.* iii. 170. — Glossy black; outer edge of clypeus, thorax, and base of elytra with chestnut ciliæ: clypeus with an erect subulate horn in the middle, 2-dentate within at the base; thorax punctured, channelled on the back, the front retuse, bilobed, the sides acute, middle broad, bifid; elytra sulcate: ♀ with a short horn on the head, notched at the tip; thorax scarcely tuberculated. (L. 8-10 l.) In dung, in sandy places: Charlton; Greenwich Park; Bexley; Richmond; Bungay, &c.: 5-6.

229 Onthophagus *Latreille.*

1239 Taurus *L.* ii. 547. — *Cur.* ii. pl. 52. — *Ste. M.* iii. 171. — Black, with a faint brassy tinge on the thorax: clypeus with 2 long, curved, reclined horns, united at the base by a transverse line; thorax depressed in the centre and on each side; elytra punctate-striate: tarsi and base of antennæ dull red: ♀ with 2 transverse lines on the clypeus. (L. 4-4½ l.) In dung: Brockenhurst and Lyndhurst: 8-10.

1240 Vacca *L.* ii. 547. — *Pz. F.* xii. f. 4. ♂. — *Ste. M.* iii. 173. — Greenish-brass, slightly glossy: clypeus somewhat notched in front; occiput with 2 elevated lines across, the hinder 1 shortest, and terminated at each end by a short, obtuse horn; thorax with an obtuse central lobe; elytra faintly striated and ochreous, very sparingly punctured with greenish: ♀ without the horns on the hinder occipital ridge. (L. 3½-4 l.) In dung; Martlesham Heath; Woodbridge, &c.: 5-6.

1241 medius *Ill. K.* i. 41. — *Pz. F.* 37. f. 4. — *Ste. M.* iii. 172. — Greenish-brass, obscure: clypeus rounded, obtuse, roughly punctured; occiput with 2 bent elevated lines, the posterior 1 longest, and terminated at each end by a short spine; thorax bronzed-black, excavated in front, and with a small central glossy lobe; elytra punctate-striate, griseous, thickly spotted with brassy-black clouds, often united: ♀ without the spines on the hinder occipital ridge. (L. 3-4¼ l.) In dung: Battersea fields; Epping Forest, and Norfolk: 5.

1242 fracticornis *Preysler B.* i. 99. — *Pz. F.* xlix. f. 9. ♂: f. 10. (Xiphias)

♀. — *Ste. M.* iii. 173. — Dusky-brassy; pubescent: elytra finely striate, lurid-griseous, sprinkled with somewhat united dusky-bronze spots, mostly disposed in lines: ♂ with the clypeus narrowed in front, reflexed, with an obsolete bent ridge on the middle and a 2d behind, tooth at each end, and produced in the middle into a long spine, or horn, bending forwards; thorax excavated in front; ♀ with the clypeus shorter, occiput with 2 raised lines, the hinder 1 shortest; thorax entire. (L. 3-4 l.) In dung: common in S. of England, and in S. Wales: 5-6.

1243 cœnobita *Fab. E.* i. 49. — *Pz. F.* xlviii. f. 6. — *Ste. M.* iii. 173. — Brassy-green; pubescent: elytra pale griseous-red, spotless or faintly sprinkled with greenish spots; slightly striated: ♂ with the clypeus notched in front and reflexed; occiput with a ridge produced in the middle into an erect horn; thorax excavated in front: ♀ with 2 single occipital ridges; thorax 2-tuberculated in front. (L. 3-4 l.) In dung; sandy places: Hampstead; Gravesend, &c.; sparingly distributed over the S. of England: 5-6.

(1244† austriacus *Schneid.* — *Pz. F.* xii. f. 6. — *Ste. M.* iii. 174. note. — Dull black, pilose: elytra griseous, obsoletely striated; with some black spots in the interstices: ♂ with the clypeus smooth, narrowed in front; occiput with a slender ridge produced in the middle into a sharp spine; thorax deeply excavated in front: ♀ with clypeus shorter, with 2 small ridges on the occiput, and a notched central tubercle in front of the thorax. (L. 5½-6 l.) Improperly given as British.)

1245 Dillwynii *Kirby.* — *Ste. M.* iii. 174. pl. 18. f. 6. — Brassy-black, slightly pubescent: elytra faintly striated, lurid, reticulated with bronzed-black: ♂ with the clypeus smooth; crown with a slight ridge, and occiput with a distinct 1, bearing a slightly nutant horn in the middle; thorax with 2 central tubercles in an excavation in front: ♀ with 2 curved ridges on the occiput; thorax entire. (L. 2½-3½ l.) In dung; sea coasts, &c.; meadows near Gravesend; Swansea; coasts of Suffolk; Kent; Suffolk; Hants, &c.: 5-6.

1246 nuchicornis *L.* ii. 547. — *Don.* viii. pl. 255. f. 2. — *Ste. M.* iii. 175. — Brassy-black, pubescent: elytra striated, irregularly sprinkled with bronzed clouds: ♂ with the clypeus notched; vertex with a bent ridge, occiput with a dilated 1, rising in the middle into an acute spine; part of thorax slightly retuse: ♀ with 2 ridges on the clypeus, the anterior 1 bent; thorax produced in front in the middle. (L. 2½-3 l.) In dung: generally distributed: 3-7.

1247 nutans *Fab. E.* i. 50. — *Don.* viii. pl. 255. f. 1. — *Ste. M.* iii. 175. — Black, slightly pubescent; elytra faintly punctate-striate: ♂ with an obscure ridge on the vertex, produced behind into a broad elevated leaf, terminating in a long nutant horn; thorax with a deep notch in front, to receive the occipital horn: ♀ with 2 ridges on the clypeus; thorax with a bifid central lobe. (L. 3½-4 l.) In dung: rather local; Darenth Wood; Epping Forest, &c.; occasionally in midland and northern counties: 5-6.

1248 ovatus *L.* ii. 551. — *Pz. F.* xlviii. f. 11. — *Ste. M.* iii. 176. — Black; obscure; pubescent: clypeus rounded, with 2 ridges, the anterior 1 curved, the 2d shorter and more elevated; elytra obsoletely crenate-striate; thorax with a slight tubercle in the middle. (L. 2-2½ l.) In sheep's dung: Ripley; Hertford; Darenth; Bottisham, &c.: 5-6.

230 Oniticellus *Ziegler*?

(1249‡ verticicornis *Fab. E. S.* i. 61. — *Ste. M.* iii. 176. note. — Black; clypeus rounded, brassy, with a very short recurved horn: thorax rounded,

smooth, griseous, with 2 anterior and 1 lateral spot, black; elytra smooth, griseous; legs pale. (L. 4 l.) Stated, erroneously, to be British.)

Fam. 29. GEOTRUPIDÆ *MacLeay.*

ccxxxi. Bolbocerus *Body* nearly orbicular: *ant.* short, 2d joint large, cup-shaped, longer than the 3d, which is transverse; club large, oval: *head* in ♂ with a horn, sometimes moveable; *tho.* cornuted in ♂, slightly tuberculate in ♀: *tarsi* long, 4th joint smallest.

ccxxxii. Typhœus *Body* ovate-orbicular: *ant.* slender, 2d joint globose, shorter than the 3d, which is elongate; club ovate: *clypeus* with a central tubercle: *tho.* in ♂ produced anteriorly into 3 horns, in ♀ tuberculated in front.

ccxxxiii. Geotrupes *Body* ovate-orbicular: *ant.* rather slender, 2d joint globose, shorter than 3d, which is elongate; club oval: *clypeus* rhomboidal, with a sharpish central tubercle: *tho.* unarmed in both sexes: *tarsi* with the basal joint shortest.

231 Bolbocerus *Kirby.*

1250 mobilicornis *Fab. E.* i. 24.— *Cur.* vi. pl. 259. ? — *Ste. M.* iii. 178. — Black, sometimes with a chestnut tinge, beneath testaceous: elytra deeply punctate-striate; legs and club of antennæ chestnut, base of latter tawny: ♂ with a long, linear, slightly recurved moveable horn on the clypeus; thorax 4-dentate in front: ♀ with obsolete tubercles on the head and thorax. (L. 4 l.) In dung: Hertford; Darenth; Birchwood; Dartford; Dorking: 7; Coombe Wood; Wisbeach: 4; Moushold Heath, Norwich; and near Bristol: 5-6.

1251 testaceus *Fab. E.* i. 26. — *Pz. F.* xxviii. f. 5. — *Ste. M.* iii. 178. — Rusty-testaceous, beneath paler: eyes black; elytra punctate-striate: ♂ with a shortish, slightly recurved, acute horn on the clypeus; thorax with 4 small tubercles in front: ♀ with 2 minute tubercles on the clypeus. (L. 3-3½ l.) In Norfolk and Suffolk, flying: 5-6.

1252† quadridens *Fab. E.* i. 23. — *Pz. F.* xii. f. 1. — *Ste. M.* iii. 179. — Dull-red; elytra punctate-striate: ♂ with a short immoveable horn on the clypeus; thorax with 4 nearly equidistant obtuse teeth near the anterior margin: ♀ with a faint ridge on the occiput, and another more obscure towards the front of the thorax. (L. 6 l.) Marshes between Peterborough and Wisbeach, during a flood: 4.

232 Typhœus *Leach.*

1253 vulgaris *Leach.* — *Sam.* 187. pl. 1. f. 1. — *Ste. M.* iii. 180. — Black, shining: clypeus angulated, with a dorsal ridge; thorax smooth in the middle, the sides punctated and foveolated; elytra striated, in rare instances chestnut: ♂ with an advanced acute horn at each anterior angle of the thorax, and a shorter ascending one in the middle: ♀ with the lateral horns very short, and in place of the central one, a long transverse ridge. Sometimes the thoracic horns are considerably longer than the head, at others much shorter. (L. 4½-11 l.) Under cow-dung; on heaths and commons, generally distributed, but rare towards the north: 4-6.

233 Geotrupes *Latreille.*

1254 vernalis *L.* ii. 551. — *Don.* xvi. pl. 547. f. 1. — *Ste. M.* iii. 181. — Somewhat hemispheric; glossy violet- or blue-black, or greenish: club of the antennæ fuscous; thorax very obsoletely punctate on the disc, rather coarsely so on the sides, which have a deep fovea; elytra smooth, faintly

striated, glabrous; body beneath violet or greenish: hinder thighs of ♂ with a tooth. (L. 6-9 l.) Under dung, on sandy heaths: London district; Devonshire; New Forest; Suffolk; Carlisle: 4-5.

1255 lævis *Ent. Tr.* (*Haworth*) i. 79. — *Cur.* vii. pl. 266. — *Ste. M.* iii. 181. — Somewhat hemispheric; deep violet or black, shining: thorax thickly and coarsely punctured throughout, with a fovea on each side near the margin; elytra very smooth, with several obscure irregular punctured striæ; hinder thighs of ♂ serrated within; club of antennæ black, tip sometimes dull-red. (L. 6-9 l.) In dung on heaths: London district; also on the mountains of Wales and Cumberland: 4-10.

1256 sylvaticus *Pk. F.* i. 5. — *Don.* xvi. pl. 547. f. 2. — *Ste. M.* iii. 182. — Somewhat hemispheric; above blue-black, purplish-violet, or black; edged with violet; beneath violet, coppery-purple, or golden-green: crown with an acute tubercle; thorax with numerous remote distinct punctures on the disc, and thickly punctured on the sides, with a deep fovea towards the edge; elytra faintly striated, interstices strigose: ♂ with a single tooth on the hinder thighs. (L. 6-10 l.)

Var. ? Sc. niger *Marsh.* i. 22. — *Ste. M.* iii. 183. — Dull black: legs greenish brass. In dung on wastes, &c., near woods: generally distributed; rather scarce in Scotland: 3-10.

1257 foveatus *Marsh.* i. 21. — *Sow. B. M.* i. pl. 55. f. 2. — *Ste. M.* iii. 183. — Somewhat oval; black, edged with bluish: thorax smooth, with a few scattered punctures on the disc, 2 foveæ on each side, and the sides themselves ruggedly punctate; elytra sulcate, interstices smooth, convex: hinder thighs of ♂ with 1 or 2 teeth. (L. 7-9 l.) In dung: London district and Suffolk: 3-6.

1258 punctato-striatus *Kirby.* — *Ste. M.* iii. 183. — Oblong-ovate; violet-black, beneath violet or purplish: crown with an obtuse minute tubercle; thorax with the disc impunctate; the dorsal line and sides with a few confluent punctures, the latter with a fovea; elytra equidistantly punctate-striate, interstices convex; legs violet; club of antennæ dull-red. (L. 6-8 l.) In dung: London district, and Suffolk: 4-6.

1259 mutator *Marsh.* i. 22. — *Millard, B. E.* pl. 2. f. 1. — Oblong-oval, above violaceous, green, or amethyst blue, brilliant and shining; beneath rich golden, or coppery-green, or purple: disc of thorax impunctate, except a few scattered points on the dorsal channel; scutellum with its margin membranaceous; elytra deeply punctate-striate, the striæ for the most part disposed in pairs; club of antennæ dusky. (L. 7-10 l.) In dung; abundant near South Lambeth; Camberwell, &c.; also near Bristol; Swansea; in Devon, &c.: ⊙.

1260 puncticollis *Act. H.* (*Molinousky*) i. 50. — *Ste. M.* iii. 184. — Oblong-ovate; black; beneath violet: crown with a minute tubercle; thorax with scattered punctures throughout the disc, and thickly punctured on the sides; elytra punctate-striate, interstices flattish; club of antennæ pitchy, or chestnut. (L. 7-10 l.) In dung: generally distributed throughout the S. of England: 4-8.

1261 sublævigatus *Ste. M.* iii. 185. — Oblong-oval; violet-black, the lateral margins of the thorax and of the elytra purple: disc of thorax smooth, sides each with 2 foveæ, and thickly punctured; elytra faintly striated, the striæ composed of remote punctures, interstices flat; club of antennæ rusty. (L. 10 l.) In dung: near London: 6.

1262 stercorarius *L.* ii. 550. — *Stu. D. F.* i. pl. 6. f. *a-v.* — *Ste. M.* iii. 185. — Oblong-oval; black, beneath violet; disc of thorax impunctate, with a short dorsal line, lateral margins thickly punctured, each with a small glossy punctate fovea; elytra deeply striated, the striæ punctured;

interstices convex, smooth; ♂ with hinder thighs toothed, anter. tibiæ with a spine within. (L. 8-12 l.) In dung: abundant throughout Britain: ☉, ✶.

Fam. 30. APHODIIDÆ *MacLeay.*

ccxxxiv. Aphodius *Body* oblong: *palpi* filiform, terminal joint slender: *maxillæ* with a fleshy lobe: *clypeus* lunate, sometimes notched, and frequently tuberculate: *tho.* entire.

ccxxxv. Oxyomus *Body* oblong-ovate: *palpi* with the terminal joint elongate, ovate: *clypeus* entire or faintly notched: *tho.* punctured, not grooved: *elytra* deeply sulcate.

ccxxxvi. Psammodius *Body* oblong-ovate, or ovate, somewhat tumid behind: *palpi* with the terminal joint ovate: *maxillæ* with a horny lobe: *clypeus* deeply notched: *tho.* transversely grooved: *tibiæ* dilated at the tip.

234 Aphodius *Illiger.*

§ A. *Scutellum* large, elongated.

1263 Fossor *L.* ii. 548. — *Don.* xii. pl. 417. f. 3. — *Ste. M.* iii. 187. — Very convex; deep glossy black: clypeus notched, with 3 tubercles, central one longest, acute; thorax retuse, the sides sparingly punctate; elytra faintly punctate-striate; ♀ with the tubercles on the clypeus small; thorax punctate throughout. (L. 4-7 l.) In dung: London district; Bottisham; York; Newcastle; Carlisle; Swansea; Notts; Scotland: 4-10.

1264 subterraneus *L.* ii. 548. — *Pz. F.* xxviii. f. 3. — *Ste. M.* iii. 188. — Slightly convex; shining black: clypeus notched, punctate on the edge, with 3 tubercles behind; thorax large, deeply punctured throughout; elytra deeply crenate-sulcate; tarsi pitchy. (L. 2½-3 l.) In dung: Battersea fields; Norfolk; Notts; Devon; Carlisle; York; Swansea: 4-8.

1265 hæmorrhoidalis *L.* ii. 548. — *Pz. F.* xxviii. f. 8. — *Ste. M.* iii. 188. — Short; black, rather glossy: clypeus a little notched, with 3 minute tubercles behind; elytra rather deeply crenate-striate, with the apex more or less bright red; beneath pitchy; tarsi reddish. (L. 2-3 l.) In dung: Hertford; Coombe and Darenth Woods; Dover; New Forest; Bristol; Devon; Swansea; Carlisle; Norfolk; Scotland, &c.: 4-8.

1266 erraticus *L.* ii. 548. — *Mart. C.* pl. 4. f. 37. — *Ste. M.* iii. 188. — Broad, flat; black: clypeus orbiculate, with 1 tubercle, and sometimes 2 ridges behind; thorax punctured throughout; elytra livid-griseous, suture dusky, finely punctate-striate, interstices faintly punctulate. (L. 3½-4 l.) In cow-dung: London district; Bottisham; Newcastle; Swansea; Notts; Keswick: 4-6.

§ B. *Scutellum* small, short.

a. Clypeus distinctly tuberculated, mostly notched.

1267 † Scrutator *Fab. E.* i. 69. — *Pz. F.* xxxi. f. 1. — *Ste. M.* iii. 189. — Convex; shining black: clypeus rounded, with 3 tubercles; thorax punctate, sides broadly red; elytra red, striated, with a raised point at the base and apex; abdomen wholly red. (L. 4-5 l.) Near Leeds. ?

1268 fimetarius *L.* ii. 548. — *Don.* xii. pl. 404. f. 1. — *Ste. M.* iii. 189. — Convex; shining black: clypeus obscurely notched, with a short ridge in front, and 3 tubercles behind: thorax sparingly punctured, both anterior angles red, front in ♂ excavated in the middle; elytra bright spotless

red, punctate-striate, interstices smooth; tarsi red. (L. 2¼-3½ l.) In dung: generally distributed throughout Britain: 3-6, ✶.

1269 æstivalis *Stephens.* — Ap. fœtens *Ste. M.* iii. 190. — Convex; shining black: clypeus entire, with a ridge in front and 3 tubercles behind; thorax sparingly punctured, anterior angles red; elytra also red, spotless, deeply punctate-striate; abdomen, antennæ, and palpi pale red, the latter with a pitchy ring on the terminal joint; tarsi reddish. (L. 2½-3 l.) In dung: London district; Bottisham; Swansea: 5-7.

(1270 † fœtens *Fab. E.* i. 69. — *Marsh.* i. 17. — Convex; shining black: clypeus with 3 tubercles, entire; thorax sparingly punctured, anterior angles red; elytra red, with a large common black blotch behind, having a clear red border; abdomen with the tip red. (L. 2½-3 l. ?) Introduced as British, for the preceding species.)

1271 scybalarius *Pz. F.* xxvii. f. 1. — *Ste. M.* iii. 190. — Convex; shining black: clypeus angulated, with a faint ridge in front, and 3 tubercles behind; thorax slightly punctured; elytra pale griseous, the suture dusky, punctate-striate; legs and antennæ testaceous, club of latter dusky. Elytra sometimes with a broad blackish patch on the disc. (L. 2½-3½ l.) London district; Norfolk; Suffolk; York; Newcastle; Carlisle; Swansea; Edinburgh: 3-6.

1272 rufescens *Fab. E.* i. 74. — *Ste. M.* iii. 190. — Convex, elongate; rusty-red, shining: clypeus with 3 tubercles; crown sometimes dusky; thorax thickly punctured throughout, the lateral margins broadly dull red, with an obscure fuscous spot; elytra punctate-striate, obscure red, sometimes with a broad pitchy or dusky patch on the disc; body beneath and legs rusty-red. (L. 2½-3 l.) In dung: London district; Norfolk; Bottisham; Swansea; Marsden; Scotland: 4-6.

1273 castaneus *Marsh.* i. 12. — *Ste. M.* iii. 191. — Convex, elongate; chestnut red, shining: clypeus with 3 obscure tubercles; thorax minutely punctured throughout, disc pitchy; elytra testaceous, punctate-striate; legs pale testaceous. (L. 2½ l.) In dung: near London: 4-6.

1274 ochraceus *Ste. M.* iii. 190. — Convex, oblong; black: clypeus angulated, with 3 small tubercles behind; thorax deeply punctate, anterior angles testaceous; elytra punctate-striate, ochreous, slightly clouded with dusky; legs pitchy-black; tarsi reddish. (L. 3 l.) In dung: London district: 4-6.

1275 sordidus *Fab. E.* i. 74. — *Pz. F.* xlviii. f. 2. — *Ste. M.* iii. 190. — Slightly convex; livid testaceous: clypeus entire, dull red, crown dusky, with 3 tubercles; thorax wide, disc scarcely punctured; margins pale, the lateral ones broadly so, with a black dot in the middle; elytra punctate-striate, suture obscure, a spot on the shoulders, and 1 or 2 on the disc black; legs clouded with dusky. (L. 2½-3¾ l.) In dung: Battersea fields; Rockcliff; Yarmouth; Swansea; Edinburgh: 4-6.

1276 nitidulus *Fab. E.* i. 75. — *Ste. M.* iii. 192. — Ap. merdarius *Pz. F.* xlviii. f. 3. — Elongate, somewhat cylindric; pitchy-black: clypeus in front dull red with 1, behind black with 3, tubercles; thorax minutely punctured, sides broadly testaceous; elytra punctate-striate, pale testaceous, suture dusky: body beneath rusty-piceous; legs paler. (L. 2-2½ l.) In dung: London district; Norfolk; Swansea: 4-6.

1277 lividus *Olivier.* — *Creutz. E. V.* i. pl. 1. f. 7. — *Ste. M.* iii. 192. — Oblong; livid, shining: clypeus rather orbicular, slightly notched; crown black, with 3 tubercles; thorax with the disc black, hinder and lateral margins livid, the latter with a black dot; elytra punctate-striate, the suture and a large patch on the disc fuscous; legs pale. (L. 2 l.) In dung: Darenth Wood: 7.

1278 conspurcatus *L.* ii. 549. — *Ste. M.* iii. 192. — Oblong, flattish; black, glossy: clypeus entire, with 3 tubercles behind, and a reddish spot before the eyes; thorax thickly punctured, sides broadly pale, with a fuscous dot; elytra faintly punctate-striate, interstices flat, with 7 distinct black spots; abdomen and legs pale testaceous. (L. 2½ l.) In dung: London district; West of England; Swansea; near Edinburgh: 4-6.

1279 sticticus *Pz. F.* lviii. f. 4. — *Ste. M.* iii. 193. — Oblong, slightly convex; shining black: clypeus entire, with 3 obsolete tubercles behind, and a dull red spot before the eyes; thorax thickly punctured, edged with testaceous, that colour being widest on the sides, and bearing a brown dot; elytra deeply punctate-striate, the suture and striæ brownish, the disc with several black spots united by black lines and streaks; abdomen fuscous; legs pale. (L. 2½ l.) In dung: near London; Ripley; Hertford; Edinburgh?: 4-6.

1280 inquinatus *Fab. E.* i. 73. — *Pz. F.* xxviii. f. 7. — *Ste. M.* iii. 194. — Rather convex; shining-black: clypeus faintly notched, with 3 tubercles; thorax finely and thickly punctured, anterior angles reddish (rarely black); elytra finely punctate-striate, griseous, suture dusky, the disc more or less varied with black spots and blotches of different forms, and more or less united; abdomen pitchy; legs griseous, varied with black. (L. 2-2½ l.) In dung: pastures in London district; Bottisham, Yarmouth; York; near Carlisle; Swansea; Edinburgh: 4-6.

1281 tessulatus *Pk. F.* i. 20. — *Ste. M.* iii. 194. — Sc. contaminatus *Pz. F.* xlvii. f. 7. — Short, very convex; black, shining: clypeus rough, with 3 small tubercles behind, and a stout bent ridge in front; thorax finely punctulate, the anterior angles slightly pitchy; elytra punctate-striate, pale griseous with black spots disposed irregularly in 2 or 3 confluent tessellated bands; legs black; tarsi reddish. (L. 2 l.) In dung: Tunbridge Wells; S. Wales; Henault Forest: 5-8.

1282 terrestris *Fab. E.* i. 71. — *Ste. M.* iii. 194. — Sc. ater *Pz. F.* xliii. f. 1. — Short, convex; black: clypeus slightly notched, rough, with 3 tubercles; thorax coarsely and thickly punctured; elytra obtuse, faintly punctate-striate, interstices opaque, thickly and minutely punctured; tarsi pitchy. (L. 2½-3 l.)

Var. Sc. obscurus *Marsh.* i. 18. — *Ste. M.* iii. 195. — Central tubercle on the clypeus elongate, with a curved ridge in front; elytra fuscous with the suture black, or chestnut. In dung: London district; Bottisham; York; Swansea; near Carlisle; Edinburgh: ⊙.

1283 terrenus *Kirby.* — *Ste. M.* iii. 195. — Convex; black, obscure: clypeus slightly notched, with 3 equal tubercles; thorax finely and thickly punctured; elytra dull brown or reddish, very faintly striate, striæ punctured; legs pitchy. (L. 2½ l.) London district; Norfolk; Suffolk; York; Bottisham; Swansea: 4-6.

1284 ater *Fab. E.* i. 71. ? — *Ste. M.* iii. 195. — Convex, black: clypeus rounded, slightly notched, with 3 minute tubercles, central longest; thorax faintly punctate, glossy; elytra shining, simply striate; legs pitchy. (L. 2½ l.) In dung: London district: 4-6.

1285 nitidus *Kirby.* — *Ste. M.* iii. 196. — Convex, black, very glossy: clypeus faintly notched, with 3 subequal tubercles; thorax finely and distinctly punctured; elytra pitchy-black, punctate-striate, interstices slightly convex, impunctate; legs pitchy-black. (L. 2½ l.) In dung: London district, and Suffolk: 4-6.

1286 lucens *Gyll.* ? — *Ste. M.* iii. 196. — Convex; deep glossy black: clypeus distinctly notched, with 3 tubercles, central longest; thorax coarsely punctate on the disc, the sides with an obscure pitchy spot; elytra punc-

tate-striate, interstices rather convex, impunctate; legs pitchy. (L. 2½ l.) In dung: London district and Norfolk: 4-6.

1287 hæmorrhous *Kirby*. — *Ste. M.* iii. 196. — Slightly depressed; black, rather opaque: clypeus notched, with 3 equal tubercles; thorax rather sparingly and finely punctate; elytra punctate-striate, interstices punctured, pitchy-black, the tip, and also the abdomen and legs pitchy-red. (L. 2½ l.) In dung: London district and Suffolk: 4-6.

1288 niger *Ill. K.* i. 24. — *Pz. F.* xliii. f. 1. — *Ste. M.* iii. 197. — Oblong, somewhat cylindric; black: clypeus angulated, notched in front, thickly punctate, with a ridge on the crown and a small tubercle behind; thorax very thickly punctured; scutellum minute; elytra delicately punctate-striate, very glossy; legs pitchy-black. (L. 2½ l.) In dung: London district: 4-6.

1289 bimaculatus *Fab. E.* i. 71. — *Pz. F.* xliii. f. 2. — *Ste. M.* iii. 197. — Oblong; black: clypeus with 3 tubercles; thorax thickly punctured; elytra rather parallel, deeply punctate-striate, interstices finely punctured, base with a large bright red spot, ending in a point near the middle of the disc; legs pitchy-black. (L. 2½ l.) In dung: near Windsor and Ripley: 5-6.

1290 granarius *L.* ii. 547. — *Ste. M.* iii. 197. — Ap. carbonarius *Stu. D. F.* i. pl. 14. f. c. — Convex; glossy-black: clypeus faintly notched, with a single tubercle; thorax large, disc smooth, lateral margins sparingly punctured, with a faint pitchy-red spot in the middle; elytra slightly punctate-striate, interstices smooth, extreme tip dull rusty-red: legs dull red; tibiæ obscure. (L. 2-2½ l.) London district; Norfolk; Suffolk; Carlisle; Swansea; Newcastle: 4-6.

1291 emarginatus *Ste. M.* iii. 198. — Convex; black, shining: clypeus rather deeply notched, with 3 obscure tubercles; thorax finely and sparingly punctate; elytra pitchy, faintly punctate-striate, interstices impunctate; legs pitchy-red. (L. 1½-2 l.) In dung: London district: 4-6.

1292 melanopus *Kirby*. — *Ste. M.* iii. 198. — Convex; shining black: clypeus rough, notched, with 3 tubercles behind, and a bent ridge in front; thorax finely and sparingly punctured; elytra pitchy-black, with the tip paler, punctate-striate, interstices somewhat convex and smooth; tarsi pitchy. (L. 2 l.) In dung: London district; Suffolk; Norfolk; Bottisham; Scotland: 4-6.

1293 borealis *Gyll.* iv. 248. ? — *Ste. M.* iii. 198. — Convex; pitchy-black, shining: clypeus angulated, margin dull red, with a bent ridge in front, and 3 tubercles behind, central longest; thorax rather thickly and deeply punctate, anterior angles dull red; elytra faintly punctate-striate, with a spot on the shoulders, and the apex pitchy-red; legs rusty-piceous. (L. 2¼ l.) In dung: London district, rare; Cumberland: 5-7.

1294 axillaris *Stephens*. — Elongate, flattish; deep black, shining: clypeus angulated, with 3 minute tubercles; and, with the thorax, very thickly punctured; elytra distinctly punctate-striate, interstices smooth, shoulders with a 3-angular bright red spot; tarsi reddish. (L. 2½ l.) In dung: near Ripley: 5-6.

1295 porcus *Fab. E.* i. 71. — *Ste. M.* iii. 199. — Sc. Anachoreta *Pz. F.* xxxvi. f. 1. — Rather flat; dull black: clypeus with 3 tubercles; thorax thickly punctured, anterior margin pale; elytra reddish-brown, punctate-striate, the striæ in pairs, interstices finely punctured; tibiæ and tarsi pitchy. (L. 2¼-2½ l.)

Var. ? Sc. ruficrus *Marsh.* i. 16. — *Ste. M.* iii. 199. — Smaller; clypeus

obsoletely tuberculate; colours brighter, and thighs pitchy. In dung: London district; Ramsgate; Swansea; Var. ? near Woodbridge: 8-9.

1296 fulvicrus *Ste. M.* iii. 199. — Rather flat; black, opaque: clypeus with 3 obscure tubercles; thorax coarsely punctured; elytra pitchy-black, simply punctate-striate, interstices impunctate; tarsi tawny. (L. 2 l.) In dung: Norfolk: 7-8.

b. Clypeus not distinctly tuberculated.

1297 rufipes *L.* ii. 559. — *Don.* xii. pl. 417. f. 4. — *Ste. M.* iii. 200. — Flattish, oblong; pitchy, beneath paler: clypeus entire, smooth; thorax with the sides slightly punctured; elytra obsoletely crenate-striate, interstices faintly punctured towards the base; legs rusty-red, anterior tibiæ 3-dentate. (L. 4-5 l.) In dung: generally distributed throughout Britain: 4-8. ⁎.

1298 muticus *Ste. M.* iii. 200. — Flattish, oblong; pitchy, paler beneath: clypeus entire, impunctate; thorax transverse, smooth; elytra faintly punctate-striate, interstices not punctured; legs pitchy-red, anterior tibiæ obscurely 1-dentate. (L. 4-5 l.) In dung: near London and N. of England: 4-8.

1299 Pecari *Fab. E.* i. 80. — *Pz. F.* xxxi. f. 3. — *Ste. M.* iii. 204. — Flattish, black: clypeus entire; thorax finely and sparingly punctate on the sides towards the anterior angles; elytra punctate-striate, interstices smooth, flat; bright red, with a large common black dorsal spot on the suture, which is also black; legs red. (L. 3 l.) In dung: near Windsor and Ripley: 5-7.

1300 depressus *Fab. E.* i. 80. — *Ent. Tr.* (*Sow.*) i. pl. in p. 246. fig. sup. — *Ste. M.* iii. 201. — Flat, short; black: clypeus entire; thorax thickly and coarsely punctured; elytra broad, bright- or pitchy-red, punctate-striate, interstices punctured; legs pitchy black; tarsi reddish. (L. 3 l.) In dung: Richmond Park; Bristol; Swansea: 3-7.

1301 nigripes *Fab. E.* i. 76. — *Pz. F.* xlvii. f. 9. — *Ste. M.* iii. 201. — Flat, short; black: clypeus angulated, entire, with a faint bent ridge; thorax thickly punctured; elytra finely crenate-striate, interstices minutely punctured; legs pitchy-black, tarsi reddish. (L. 3 l.) Common in dung in the South: York, rare: 5-7.

1302 luridus *Fab. E.* i. 76. — *Pz. F.* xlvii. f. 6. — *Ste. M.* iii. 201. — Flat; black, slightly glossy: clypeus entire; thorax deeply punctate; elytra opaque, punctate-striate, interstices punctulate, colour black, or pale griseous with dusky striæ, or with the interstices more or less filled up with elongate black spots, especially at the base, which is sometimes wholly black, with the apex pale, striped or spotted with black; tarsi reddish. (L. 4-5½ l.) In dung: generally distributed throughout Britain: 4-7.

1303 contaminatus *Fab. E.* i. 77. — *Creutz. E. V.* i. pl. 1. f. 5. — *Ste. M.* iii. 202. — Flattish, oblong; black, tinged with brassy; clypeus faintly notched; thorax somewhat 4-drate, anterior angles with a testaceous spot, sides ciliated, disc impunctate: elytra punctate-striate, pubescent, griseous, with several black spots; legs pale, joints dusky. (L. 2½-3 l.) In dung: abundantly distributed throughout England and Wales: ⊙. ⁎.

1304 prodromus *Creutz. E. V.* i. 37. — *Ste. M.* iii. 203. — Flattish; oblong; black: clypeus faintly notched, smooth; thorax transverse, smooth, lateral margins broadly pale and slightly punctate; elytra punctate-striate, pubescent; interstices (especially at the base) thickly punctured, griseous, the suture and a large blotch on the disc fuscous; legs pale. (L. 2½-3¼ l.) In dung: London; Bristol; Devon; Cornwall, &c.: 2-6.

1305 sphacelatus *Pz. F.* lviii. f. 5. — *Ste. M.* iii. 203. — Flattish, oblong; black; glabrous: clypeus faintly notched, deeply punctured, with a bent line on the crown; thorax also thickly punctured, lateral margins broadly pale; elytra punctate-striate, with a dusky patch on the disc: legs pale. (L. 2-3 l.) In dung: generally distributed: 2-8.

1306 marginalis *Ste. M.* iii. 203. — Flattish; oblong; black: clypeus faintly notched, with 3 most obscure tubercles; thorax with the disc sparingly punctured, all the margins, especially the lateral ones, pale; elytra punctate-striate, slightly pubescent, with a large fuscous patch on the disc; legs pale. (L. 1½-3 l.) In dung: London district; Bristol; Bottisham; Norfolk: 4-6.

1307 merdarius *Oliv. E.* i. 94. pl. 10. f. 173. — *Ste. M.* iii. 204. — Rather convex; black, shining: clypeus faintly notched; thorax with the anterior angles, and occasionally the lateral margins, pale; elytra punctate-striate, yellow-testaceous, suture black, lateral margins fuscous; legs pitchy, or testaceous. (L. 2 l.) In dung: generally distributed throughout Britain: 4-8.

1308 phæopterus *Marsham.* — *Ste. M.* iii. 204. — Rather convex; shining black, beneath pitchy: clypeus faintly notched; thorax very thickly and finely punctulated, the lateral margins reddish; elytra faintly punctate-striate, dull pitchy-red; legs the same. (L. 1¼ l.) In dung: near London; Tunbridge Wells; Suffolk: 6-8.

1309 pusillus *Herbst.* ii. 155. pl. 18. f. 6.? — *Ste. M.* iii. 205. — Slightly convex; glossy black: clypeus obscurely notched, smooth; thorax deeply and thickly punctured; elytra punctate-striate, interstices faintly punctured, entirely rusty-red, or pitchy; thighs rusty-piceous; tibiæ and tarsi red. (L. 1½-1¾ l.) In dung: near London; Dover; Bristol: 5-9.

1310 granum *Gyll.* i. 19. — *Ste. M.* iii. 205. — Rather convex; black: clypeus faintly notched, punctulated, with a slight ridge on the crown; thorax thickly punctured, anterior angles red; elytra deeply punctate-striate, interstices impunctate, tip somewhat reddish; thighs pitchy; tibiæ and tarsi dull red. (L. 1¾-2¼ l.) In dung: London district: 4-8.

1311 cœnosus *Pz. F.* lviii. f. 7. — *Ste. M.* iii. 205. — Rather convex; glossy black: clypeus slightly notched, a little punctate; thorax punctate, lateral margins dull red; elytra obsoletely punctate-striate, obscure dull red, the humeral angles paler; legs fuscous, or pitchy-red. (L. 2 l.) In dung: London district; Brighton, &c.: 4-8.

1312 tristis *Zenker.* — *Pz. F.* lxxiii. f. 1. — *Ste. M.* iii. 206. — Convex; black: clypeus punctured, with a ridge and 2 obsolete tubercles behind; thorax very thickly punctured, spotless; elytra deeply punctate-striate, interstices punctulate; the suture, a spot on the shoulders and the tip obscure rusty-red; tibiæ and tarsi pitchy, hinder tibiæ bent. (L. 2 l.) In dung: London district; Bristol; Swansea: 4-6.

(1313† 4-guttatus *Fab. S. E.* i. 78. — *Ste. M.* iii. 206. note. — Oblong; black: thorax smooth, shining, sides dull red; elytra obscurely striated, interstices smooth, with an angulated red spot at the shoulder, and a round one near the tip; legs red. (L. ½ l.) Said by Fabricius, I think erroneously, to be British.)

1314 4-maculatus *L.* ii. 558. — *Don.* ii. pl. 70. f. 3. — *Ste. M.* iii. 206. — Convex, short; black, shining; clypeus angulated, punctured; thorax thickly punctured spotless; elytra punctate-striate, interstices smooth, with a small red dot at the shoulder, and a large round one near the tip; tarsi reddish. (L. 1¼-1¾ l.) In dung: Coombe Wood; Windsor; Bristol; Swansea; Norfolk; Edinburgh: 4-6.

1315 plagiatus *L.* ii. 559. — *Pz. F.* xliii. f. 6. — *Ste. M.* iii. 207. — Ob-

long; somewhat cylindric; black: clypeus angulate, with an obscure ridge behind; thorax finely and thickly punctured; elytra faintly punctate-striate, with an elongate bright red dash on the disc; tarsi pitchy. (L. 1½-2 l.) In fungi: Wisbeach and Peterborough; also near Norwich: 4-6.

1316 arenarius *Ill. K.* i. 22. — *Stu. V.* i. pl. 2. f. *V.* — *Ste. M.* iii. 207. — Short; convex; black: clypeus convex, notched, punctured; thorax punctured; elytra dilated behind, pitchy-black, the sides and apex paler, punctate-striate, the striæ deepest towards the apex; interstices finely punctured; body beneath and legs pitchy. (L. 1½ l.) In dung, sandy places: Newmarket Heath; Swansea: 4-8.

1317 Scrofa *Fab. E.* i. 80. — *Pz. F.* xlvii. f. 12. — *Ste. M.* iii. 207. — Ovate, flattish; dull black; pubescent: clypeus rounded, coarsely notched; thorax thickly punctate; elytra punctate-striate, interstices coarsely and roughly punctured, pitchy-black, tip palest; legs rusty-pitchy. (L. 1¾-1½ l.) In dung: Pentire Point, Cornwall: 4-8.

1318† villosus *Gyll.* i. 40. — *Cur.* i. pl. 27. — *Ste. M.* iii. 208. — Oblong, flattish; rusty-piceous, shining, pubescent: clypeus angular, slightly notched, punctured; thorax thinly punctured, with a smooth dorsal line, sides pale; elytra sulcated, each groove bordered with a row of punctures, interstices flat, smooth; tip of abdomen and the legs pale pitchy. (L. 1½ l.) Newmarket Heath: 8.

1319 Sus *Fab. E.* i. 78. — *Pz. F.* xxviii. f. 11. — *Ste. M.* iii. 208. — Oblong, flat; dull red, or ochreous; pubescent: clypeus truncate, punctured, the crown fuscous; thorax finely punctured, the disc and a lateral spot dusky; elytra griseous, with broad, scarcely punctate scales; interstices smooth, 2d and 4th spotted with black; legs dusky-red, thighs paler. (L. 1¾-2⅓ l.) In dung: Norwich; Edinburgh; Swansea: 4-6.

1320 testudinarius *Fab. E.* i. 79. — *Don.* ii. 70. f. 1. — *Ste. M.* iii. 208. — Rather flat; dull black; pubescent: head and thorax thickly and coarsely punctured; elytra pitchy, with paler or reddish round spots on the disc, deeply sulcate, interstices narrow, ridged; tibiæ and tarsi dull red. (L. 1¼-2 l.) In dung, sandy places: Hampstead Heath; Bow; Coombe Wood: 2-4.

235 Oxyomus *Eschscholtz.*

1321 elongatus *Ste. M.* iii. 208. — Linear-oblong; flattish; black: clypeus deeply notched; thorax coarsely, but not very thickly punctured, anterior margin pale; elytra crenate-striate, interstices impunctate; legs rusty-red. (L. 2½ l.) Near Bristol?:

1322 cæsus *Fab. E.* i. 82. — *Pz. F.* xxxv. f. 2. — *Ste. M.* iii. 210. — Cylindric; black; shining: clypeus slightly notched, punctured, anterior margin pale; thorax coarsely punctured with 2 oblique sulci on each side; elytra deeply punctate-striate; legs pitchy. (L. 1½ l.) Sandy places: near Bristol and Pentire Point, Cornwall: 5-6.

1323 porcatus *Fab. E.* i. 81. — *Pz. F.* xxxviii. f. 13. — *Ste. M.* iii. 211. — Somewhat cylindric, narrow; pitchy-black: clypeus slightly notched; thorax very deeply punctured, with a short dorsal groove; elytra deeply sulcate, the sulci with coarse punctures; interstices narrow; legs pitchy; thighs dusky. (L. 1¼-1½ l.) In dunghills, &c.: South Lambeth; Clapham; Norfolk; Swansea: 3-5.

1324 Sabuleti *Ill. K.* i. 21. — *Stu. D. F.* i. pl. 15. f. *A. B.* — *Ste. M.* iii. 210. — Oblong; pitchy-black, shining: clypeus broad, punctured, entire; thorax thickly and deeply punctured; elytra convex, deeply punctate-striate; legs pitchy; anterior tibiæ and tarsi reddish. (L. 2 l.) Sandy

places: Bristol; on banks of Usk, near Crickhowel; and Esk, near Musselburgh: 3-6.

236 Psammodius *Gyllenhal.*

1325 asper *Fab. E.* i. 82. — *Pz. F.* xlvii. f. 13. — *Ste. M.* iii. 211. — Ovate; dull brown-black: clypeus convex, notched, margins dull red; crown sulcated; thorax convex, ciliated on the sides and behind, the disc with 4 transverse ridges, the two hinder waved and broken in the middle; elytra punctate-striate, interstices thickly granulated; legs pitchy. (L. 1¾ l.) Sandy coasts: near Bristol: 5-6.

1326 sulcicollis *Ill. K.* i. 20. — *Pz. F.* xcix. f. 1. — *Ste. M.* iii. 211. — Ovate; black, shining: clypeus notched, rough, reddish in front; thorax with 5 transverse ridges, the furrows slightly crenated, the 2 hinder broken by a dorsal fovea; elytra very convex, much dilated behind; deeply crenate-striate, interstices flat and smooth; legs pitchy. (L. 1½ l.) Sandy places; Weston; Bristol; Swansea; Suffolk?: 6-9.

Fam. 31. TROGIDÆ *MacLeay.*

ccxxxvii. Ægialia *Ant.* 9-jointed, exposed, basal joint nearly glabrous: *mand.* bifid at the tip: *body* short, ovate, very gibbous: *tho.* smooth, sides rounded.

ccxxxviii. Trox *Ant.* 10-jointed, basal joint very pilose: *mand.* simple, and acute at tip: *body* somewhat ovate, convex: *tho.* rough, waved behind: *elytra* also rugged.

237 Ægialia *Latreille.*

1327 globosa *Ill. K.* i. 20. — *Don.* xiv. pl. 470. — *Ste. M.* iii. 213. — Shining-black: clypeus semi-orbiculate, with rough eminences; thorax impunctate: elytra gibbous, suture sometimes pitchy, faintly and simply striated; body beneath and legs rusty-pitchy; antennæ and mouth dull red. Occasionally testaceous or dull red throughout. (L. 1½-2½ l.) Sea coasts; Southend; Yarmouth; South Shields; Leith, &c.; Swansea: 4-6.

238 Trox *Fabricius.*

1328 scaber *L.* ii. 573. — *Ste. M.* iii. 215. — Tr. arenarius *Pz. F.* xcvii. f. 1. — Dull black: clypeus rounded, punctate; thorax slightly convex, with a faint channel and punctured; elytra punctate-striate, all the interstices with a row of reddish-brown pilose tufts; body and legs pitchy. (L. 3 l.) S. Lambeth; Bottisham; Scarborough: 3-6.

1329 arenosus *Gyll.* i. 11. — *Ste. M.* iii. 215. — Black: clypeus rather acuminated in front, punctured; thorax unequal, punctured, with a dorsal channel; elytra obsoletely striated, alternate interstices with a row of conic tubercles at the base, and rigid ashy pilose tufts at the apex. (L. 3½ l.) Sandy and gravelly places: Coombe Wood; Lowestoft, Suffolk; Bristol; Swansea: 3-5.

1330 sabulosus *L.* ii. 551. — *Ste. M.* iii. 214. — *Cur.* xii. pl. 574. — Black: clypeus semi-orbiculate punctate; thorax unequal, with a dorsal channel, punctured, edged with red hairs; elytra coarsely punctate-striate, alternate interstices raised, and bearing a row of red-brown pilose tufts. (L. 4-4½ l.) Gravel pits: Coombe Wood; Wimbledon; Newmarket and Gamlingay heaths; Sundridge, Kent; Spitchweek: 4-5.

1331 † lutosus *Marsh.* i. 25. — *Ste. M.* iii. 215. — Ashy-brown: clypeus margined, acute; thorax rugged, waved behind, central lobe acute; elytra striated, alternate interstices with raised oblong spots, the inner ones

ridged: antennæ pale. (L. 6 l.) Taken at Livermere, Suffolk; during a flood.

Fam. 32. DYNASTIDÆ *MacLeay.*

(ccxxxix. ORYCTES *Maxillæ* unarmed: *ant.* with a 3-leaved plicatile club: *palpi* with terminal joint oval: *mand.* with outer edge not dentate: *tho.* retuse: *body* ovoid, convex, pilose.)

(ccxl. DYNASTES? *Maxillæ* toothed: *ant.* with an elongate-ovate 3-leaved club: *palpi* with terminal joint ovate, acuminate: *mand.* denticulated on the outer edge: *tho.* obtusely cornuted in front: *body* oblong, convex.)

239 ORYCTES *Illiger.*

(1332 nasicornis *L.* ii. 544. — *Stu. D. F.* i. pl. 4. — pl. 5. *lar. & pup.* — *Ste. M.* iii. 217. — Chestnut: head with a single horn, elongate and recurved in ♂, short in ♀; thorax retuse in front, with an obscurely 3-dentate keel in the ♂; elytra shining, finely punctate-striate. (L. 1 in. 1-3 l.) In old timber at Chelsea: probably imported.)

240 DYNASTES? *MacLeay.*

(1333 inermis *Martyn*, pl. 4. f. 35. — *Ste. M.* iii. 217. — Pitchy-black, smooth: clypeus dentate in front; thorax convex, with scattered punctures, anterior margin with a short obtuse horn in the middle, behind which is an excavation; elytra roughly striated, with remote punctures; body beneath, legs and antennæ dull red. (L. 6½ l.) Locality unknown; but not truly indigenous.)

§ B. — XYLOTRUPES *Hope.*

(1334 Juvencus *Fab. E.* i. 20. — *Oliv.* i. pl. 16. f. 143. ♂: pl. 8. f. 66. ♀. — *Ste. M.* iii. 217. note. — Pitchy: clypeus rounded, with a transverse ridge in the middle; thorax rounded, punctate, black, with an impressed point in the middle, and a short mucro beneath; elytra crenate-striate. (L. 7 l.) Introduced as British, in mistake for the foregoing insect.)

Fam. 33. MELOLONTHIDÆ *MacLeay.*

ccxli. SERICA *Ant.* 10-jointed; club 3-leaved, very long and narrow in ♂: *body* oblong-ovate, convex: *palpi* with terminal joint rather acute: *legs* long and slender; *claws* equal, bifid.

ccxlii. OMALOPLIA *Ant.* 10-jointed; club 3-leaved, ovate: *body* short, convex: *palpi max.* with terminal joint truncate: *legs* shortish; *claws* small, bifid.

ccxliii. RHISOTROGUS *Ant.* 9-jointed; club 3-leaved, slender and elongate in ♂: *body* very pilose: *palpi max.* with terminal joint dilated, acuminated to the tip: *elytra* shorter than abdomen: *anter. tibiæ* entire in the ♂, dentate in ♀; *claws* equal, simple.

ccxliv. MELOLONTHA *Ant.* 10-jointed; club 6-leaved and short in ♀, 7-leaved and considerably elongate in ♂: *body* scaly: *palpi max.* with terminal joint oval, rather acute: *elytra* shorter than abdomen: *anter. tibiæ* 2-dentate in ♂, 3-dentate in ♀; *claws* equal, with a basal tooth.

ccxlv. PHYLLOPERTHA *Ant.* 9-jointed; club 3-leaved, slightly elongate in ♂: *body* ovate, pilose: *palpi* nearly filiform: *clypeus* not produced, transverse, entire: *tho.* narrowed behind: *claws* unequal, of the 4 anter. feet, 1 slender and simple, the other bifid.

ccxlvi. ANOMALA *Ant.* 9-jointed; club 3-leaved, slightly elongate in ♂: *body* ovate, glabrous: *palpi* almost filiform: *clypeus* not produced, truncate in front, entire: *tho.* broad behind: *claws* unequal, of the 4 anter. feet, one slender and simple, the other bifid.

ccxlvii. Anisoplia *Ant.* 9-jointed; club 3-leaved, elongate, slender: *body* oblong-ovate, glabrous: *clypeus* advanced and reflexed: *tho.* with lateral margins a little waved, the base slightly produced in the middle, and narrower than the elytra: *claws* unequal, of the 4 anter. feet, one slender and simple, the other stout bifid.

ccxlviii. Hoplia *Ant.* 10-jointed; club 3-leaved, ovate: *body* ovate, flattened, scaly: *tho.* slightly produced in the middle behind: *elytra* shorter than the abdomen: *claws* of 4 anter. feet unequal, the largest bifid, poster. feet with a single simple claw.

241 Serica *MacLeay.*

1335 brunnea *L.* ii. 556. — *Pz. F.* xcv. f. 7. — *Ste. M.* iii. 219. — Pale testaceous red, sometimes with a faint brassy tinge: clypeus punctate, crown at times dusky; eyes black; thorax finely punctured, with an obscure dusky spot on each side; elytra faintly punctate-striate. (L. 4½-5 l.) Sandy places: generally distributed throughout Britain: 7-8. ✶.

242 Omaloplia *Köppe.*

1336 Ruricola *Fab. E.* i. 176. — *Don.* xi. pl. 378. — *Ste. M.* iii. 220. — Black, with a satiny gloss; punctured: head and thorax slightly hairy: elytra simply striated, testaceous-red, with the suture and margins black— or with the disc red, tinted with bluish; or wholly of a blue-black; with all intermediate changes; — legs pitchy; tarsi reddish. (L 3½-4 l.) Hedges: Darenth Wood; Newmarket Heath; Swaffham Bulbeck, Cambridge; and Sussex: 6.

243 Rhisotrogus *Latreille.*

1337 solstitialis *L.* ii. 554. — *Mart.* pl. 2. f. 17. — *Ste. M.* iii. 221. — Pale testaceous: clypeus dull red in front; crown, breast, and abdomen brown-black; elytra paler, suture and outer margin fuscous, disc with 4 obscure raised whitish lines; tip of abdomen granulated, dusky: legs reddish. (L. 7-10 l.) Hedges, &c., very abundant in London district, and pretty generally distributed throughout the S. of England: 6-7.

1338† Fallenii *Gyll.* iv. 258. — *Ste. M.* iii. 221. — Pitchy-brown: clypeus, sides of the thorax, and the elytra rusty-testaceous, the latter thickly punctate, and somewhat rugged towards the suture; tip of abdomen testaceous; punctured; legs pale testaceous-red. (L. 6½ l.) Derbyshire?: 7?

244 Melolontha *of Authors.*

1339 vulgaris *Fab. E.* ii. 161. — *Ste. M.* iii. 222. — Sa. Melolontha *Don.* viii. pl. 264. f. 2. — Pitchy-black; pubescent: elytra testaceous with concolorous margins, clothed with whitish scales, with 5 smooth ridges; abdomen gradually terminating in a sharpish point; sides with patches of snowy scales; legs rusty. (L. 10-14 l.) In pastures, flying about trees: very abundant throughout the S. of England; Wales; rather scarce in Scotland: common in S. of Ireland: 5-6.

1340† Hippocastani *Fab. E.* ii. 162. — *Pz. F.* xcvii. f. 8. — *Ste. M.* v. 412. — Pitchy-black; pubescent: elytra testaceous, with a narrow black margin; abdomen terminating in a broad obtuse process, which is slightly constricted before the apex. (L. 9½ l.) Banks of Windermere: 7.

1341 Fullo *L.* ii. 553. — *Ste. M.* iii. 223. — *Cur.* ix. pl. 406. — Blackish-brown, or testaceous; punctured: sides of clypeus and head, 3 longitudinal lines on the thorax, a bilobed spot on the scutellum, and numerous irregular patches on the elytra, densely clothed with snowy-white scales;

breast with a tawny down. ♂ with club of antennæ composed of very long leaves. (L. 1 in. 2-8 l.) Sandy places: Deal; Sandwich; Margate; Dover; Hythe: 7.

245 Phyllopertha *Kirby.*

1342 Horticola *L.* ii. 554. — *Pz. F.* xlvii. f. 15. — *Ste. M.* iii. 224. — Green or blue; pubescent: clypeus and thorax punctured; elytra rusty-testaceous, dull-red, or bluish black, with all intermediate shades, sides dusky; the disc punctate-striate; body and legs greenish-black. (L. 3-5 l.) In flowers: generally distributed throughout Britain; less abundant in the N. than in the S.: 6-7.

1343 suturalis *Ent. M.* (*Newm.*) i. 509. — *Ste. M.* v. 412. — *Cur.* xi. pl. 526. — Head and thorax black, with a bluish tinge: elytra testaceous, with black hairs, the margins and suture black; body beneath and legs black, with testaceous hairs; antennæ testaceous, club black. (L. 3½ l.) Sea shore in N. of Ireland, and in W. of Scotland: 6.

1344 errans *Fab. E.* ii. 173. — *Oliv.* i. pl. 8. f. 92. — *Ste. M.* iii. 224. — Pale testaceous: eyes dusky; thorax with an obscure dusky spot on each side; elytra faintly punctate-striate, the striæ disposed in pairs; denticulations of the tibiæ and the tarsi pitchy. (L. 4 l.) Near Dartford: 6.?

246 Anomala *Köppe.*

1345 Frischii *Fab. E.* ii. 172. — *Don.* xi. pl. 390. f. 2. — *Ste. M.* iii. 225. — Head, thorax, and scutellum green or blue, bronzed, punctured; sides of the thorax more or less broadly testaceous, or concolorous with the disc: elytra faintly punctate-striate, testaceous with a greenish tint, wholly brassy-green, blue-green, or rich blue, shining; antennæ testaceous, club dusky. (L. 5-7 l.) On the coast and in sandy places: Richmond; Ripley; Swansea; Aldborough; Newcastle; Montrose, &c.: 6-7.

1346† Donovani *Marsh.* i. 44. — *Ste. M.* iii. 226. — Black-brass, slightly shining: elytra punctate-striate, testaceous, the suture, apex, and sides bronzed-black, the disc with a brown-red band across the middle; legs pitchy. (L. 5 l.) On the sand hills near Newton Nottage, Glamorgan: 6.

1347 Vitis *Vill. E.* i. 38. — *Mart.* i. pl. 8. — *Ste. M.* iii. 226. — Short, ovate; rich, changeable, satiny green; sides of the thorax more or less broadly yellowish: elytra irregularly striated; hinder coxæ and front edge of the hinder thighs yellow; antennæ testaceous. (L. 6-7 l.) Gardens: London district: 6-7.

247 Anisoplia *Köppe.*

1348 Agricola *L.* ii. 553. ?— *Ste. M.* iii. 227. pl. xix. f. 1. — Brassy-black; thorax punctate, with a fovea near the angles at the base: elytra glabrous, livid, with the suture, margins, a squarish spot round the scutellum and a short band across the middle of the back, black; legs and antennæ black. (L. 7 l.) On the coasts of S. Wales, and Newcastle: 6.

(1349† austriaca *Herbst.* iii. 98. pl. 24. f. 8. — *West. Int.* i. (*Gen. Syn.*) 24. note. — Blue-black, glabrous: elytra dull red, with a square black patch round the scutellum: sides of the abdomen with white fascicles. (L. 7-8 l.) Introduced for the preceding species, probably in mistake for Me. crucigera *Herbst.*, which is considered as synonymous with Sc. Agricola *Marsh.* by Schönherr.)

248 Hoplia *Illiger.*

1350 argentea *Oliv.* i. 67. pl. 3. f. 22. — *Ste. M.* iii. 228. — Dull brown-black, slightly pilose; beneath and legs black, with shining silvery or

bluish scales; elytra dull rusty-red, or chestnut: ♀ with the base of the antennæ, palpi, elytra, and legs red. (L. 4-4½ l.) Local; hedges, &c.: Highgate; Epping; Newmarket; Nottingham, &c.: 5-6.

1351 graminicola *Fab. E.* ii. 175. — *Pz. F.* xxviii. f. 19. — Black, with scattered greenish scales above, beneath more densely clothed with silvery-green ones: elytra flattish, with obscure rudiments of striæ; legs pitchy-black; antennæ pitchy, with club black. (L. 4 l.) London district: 6.

Fam. 34. CETONIADÆ *MacLeay.*

ccxlix. Trichius *Body* densely tomentose: *metasternum* not produced: *abdomen* entire at the apex: *anter. tibiæ* 2-toothed.

ccl. Aleurostictus *Body* glabrous: *metasternum* not produced: *abdomen* with a notch at the apex: *anter. tibiæ* 2-toothed; *interm.* curved in the ♂.

(ccli. Valgus *Body* scaly: *metasternum* not produced: *tho.* with 2 longitudinal ridges: *anter. tibiæ* 5-toothed: *abdomen* in ♀ terminating in a slender point.)

cclii. Cetonia *Body* flat, nearly glabrous: *metasternum* porrected: *scutel.* very large: *epimera* also large and conspicuous: *elytra* sinuated on the sides.

249 Trichius *Fabricius.*

1352 fasciatus *L.* ii. 556. — *Don.* iv. 140. — *Ste. M.* iii. 230. — Black: head and thorax densely clothed with erect tawny hairs: elytra glabrous, deep satiny black, with a yellow band united (in general) at the suture; abdomen with the tip above densely pilose, beneath pubescent. (L. 7-8 l.) Flowers: Swansea; Exeter; Aberdeen; Loch-rannoch: 6-7.

250 Aleurostictus *Kirby.*

1353 variabilis *L.* ii. 558. — *Cur.* vi. pl. 286. — *Ste. M.* iii. 230. — Black, slightly shining; roughly punctured: thorax often with a white dot on the hinder angles; elytra with 5 or 6 white or ochreous spots; ♂ with a yellowish spot on the side of each abdominal segment. (L. 9-10 l.) Rotten oaks: Windsor Forest: 6-7.

1354 nobilis *L.* ii. 558. — *Don.* v. pl. 154. f. 1, 2, 3. — *Ste. M.* iii. 231. — Shining green or coppery gold-colour; beneath coppery: thorax roughly punctured, with a dorsal furrow and a whitish dot at each hinder angle; elytra transversely rugged, with several white spots; abdomen spotted with white on the sides and apex; breast clothed with reddish hairs. (L. 8-10 l.) Rotten fruit-trees, flowers, &c.: London district; Carlisle; Devonshire, &c.: 6-7.

251 Valgus *Scriba.*

(1355‡ hemipterus *L.* ii. 555. — *Herbst.* iii. pl. 27. f. 13, 14. — *Ste. M.* iii. 232. — Black, varied with black and white scales, slightly rugose-punctate: thorax and elytra spotted with white, the latter with 4 waved striæ; abdomen beneath and at the tip above clothed with white scales, the latter with 2 black spots. (L. 3-4 l.) London district: ? 6. ?)

252 Cetonia *Fabricius.*

1356 aurata *L.* ii. 557. — *Mill.* 150. pl. 2. f. 3. — *Ste. M.* iii. 233. — Shining golden-green, or deep black; beneath bright copper; head and thorax punctured; scutellum smooth; elytra irregularly punctured, the suture and 3 lines faintly elevated, the apical portion with several waved whitish scales and spots; sternum with its tip somewhat globose. (L.

7-11 l.) Flowers: abundant throughout the S. of England and S. Wales; Scilly Isles: 5-8.

1357 stictica *L.* ii. 552. — *Cur.* viii. pl. 374. — *Ste. M.* iii. 233. — Brassy, or coppery-black; clothed with scattered whitish hairs: clypeus longish, with a longitudinal ridge; thorax also with a ridge, 6 parallel white spots in pairs on the back, and others on the margin; elytra irregularly punctate-striate, with about 20 white spots; abdomen spotted with white. (L. 5-6 l.) Windsor; Chichester: 5-7.

§ 3. Stirps 3. STERNOXI *Latreille.*

Fam. 35 Buprestidæ. *Mand.* entire: *palpi* mostly filiform: *tho.* sometimes lobate behind, the hinder angles but slightly produced, never acute: *elytra* frequently narrowed at the tip: *tarsi* short, 3d and 4th joints generally heart-shaped.

Fam. 36 Eucnemidæ. *Mand.* terminated by a simple tooth: *palpi* with the apical joint large: *tho.* generally with grooves beneath for the reception of the antennæ: *elytra* rounded at the tip: *tarsi* compressed, or dilated; *claws* sometimes denticulated.

Fam. 37 Elateridæ. *Mand.* notched at the tip: *palpi* terminated by a large 3-angular joint: *tho.* with the hinder angles produced into an acute spine, the sides beneath with a groove for the reception of the antennæ: *prosternum* produced behind into a compressed spine, which fits into a groove in front of the mesothorax: *tarsi* longish and slender.

Fam. 35. BUPRESTIDÆ *Leach.*

cclxiii. Chrysobothris *Scutel.* distinct, nearly 3-angular: *ant.* filiform, 3d joint as long as 4th: *elytra* serrate at the tip: *prosternum* flat: *interm. legs* inserted close together; front thighs thick and toothed.

cclxiv. Lampra *Scutel.* distinct, transverse: *ant.* filiform, 3d joint short: *labrum* rectangular: *elytra* serrate at tip: *tarsi* not dilated, 4th joint scarcely smaller than 3d.

cclv. Dicerca *Scutel.* distinct, not transverse: *palpi* robust: *elytra* 2-toothed at the apex: *abdomen* with the terminal segment 3-dentate in ♂, 2-dentate in ♀: *tarsi* not dilated, 4th joint as large as 3d.

cclvi. Ancylochira *Scutel.* distinct: *palpi max.* with terminal joint as long as the preceding, slightly dilated at tip: *mentum* transverse: *elytra* 2-toothed at the apex: *anter. tibiæ* of ♂ bent and hooked; *tarsi* slender.

cclvii. Melanophila *Scutel.* distinct, 3-angular: *mentum* transverse: *tho.* waved at the base: *elytra* rounded at apex: *anter. tibiæ* ♂ simple; *tarsi* slender.

cclviii. Buprestis *Scutel.* distinct, rounded: *tho.* narrowed in front, 3-lobed behind: *elytra* rounded at the tip, the disc with raised lines; the sides somewhat waved beyond the middle: *tarsi* slender.

cclix. Anthraxia *Scutel.* distinct, 3-angular: *body* flat: *tho.* and *elytra* truncate at base, the latter rounded at tip: *interm. legs* placed close together; hinder thighs straight.

cclx. Ptosima *Scutel.* distinct, rounded: *body* cylindric: *tho.* truncate at base: *elytra* rounded at tip: *mentum* with a long central tooth.

cclxi. Agrilus *Scutel.* distinct, 3-angular: *body* elongate-linear, acuminate: *tho.* waved at base; somewhat 4-drate: *elytra* faintly serrated at the tip: *tarsi* with 4 basal joints pulvillated; *claws* toothed.

cclxii. Aphanisticus *Scutel.* minute: *ant.* with the 4 terminal joints dilated: *body* linear: *front* deeply notched: *labrum* entire: *palpi max.* with

apical joint acute: *interm. legs* wide apart: *tarsi* with 4 basal joints dilated, terminated by a single *claw.*

cclxiii. TRACHYS *Scutel.* wanting: *ant.* free, apical half serrated: *body* short, flat, very broad: *tho.* 3-lobed behind: *labrum* transverse, slightly notched: *tarsi* dilated, terminated by 2 *claws.*

253 CHRYSOBOTHRIS *Eschscholtz.*

(1358‡ chrysostigma *L.* ii. 660. — *Pz. F.* lxviii. f. 18. — *Ste. M.* iii. 236. note. — Bronzed-purple; beneath brilliant copper: thorax rough; elytra obscure, with 3 raised lines; the sides and 2 impressions on the disc golden-red. (L. 6½ l.) Improperly stated to be indigenous.)

1359† affinis *Fab. E.* ii. 199. — *Ste. M.* v. 413. — Obscure brassy-purple, very much punctured: elytra obscurely ribbed, the sides concolorous; the disc with 2 golden impressions. (L. 6 l.) Found near Southend: 6.

254 LAMPRA *Megerle.*

1360 rutilans *Fab. E.* ii. 192. — *Pz. F.* xxii. f. 8. — *Ste. M.* iii. 235. — Brilliant blue- or golden-green: elytra rich metallic green, with the margins bright gold, and the disc sprinkled with violaceous-black spots. (L. 7½ l.) Timber: Matlock, Derby; Westerham, Kent: 6.

255 DICERCA *Eschscholtz.*

1361† ænea *L.* ii. 662. — *Ste. M.* iii. 236. — Bu. subrugosa *Herbst.* ix. pl. 143. f. 2. — Brassy-brown above, rich copper beneath: head and thorax roughly shagreened; elytra striated, tip narrowed and 2-dentate; legs dusky-copper, punctured. (L. 9 l.) Ebberley House, Devon: 6.

256 ANCYLOCHIRA *Eschscholtz.*

1362 rustica *L.* ii. 660. — *Pz. F.* lxviii. f. 19. — *Ste. M.* iii. 236.—Shining brass; slightly tinted with green, or bluish: head and thorax punctured, the former narrowed in front; elytra rather deeply striated, truncate at tip; legs brassy. (L. 8 l.) On poplars: Old Brompton: 6.

1363 flavomaculata *Fab. E.* ii. 193. — *Pz. F.* xxii. f. 9. — *Ste. M.* iii. 237. — Above dull bronzed black; head and thorax punctured: the former with a yellow patch in front, the latter with the anterior edge and sides yellow; elytra striated, with 4 irregular yellow blotches; sides of abdomen spotted with tawny; legs brassy-black. (L. 8½ l.) On poplars: St. George's Fields: 6.

(1364‡ 8-guttata *L.* ii. 659. — *Herbst. A.* pl. 28. f. 7. — *Ste. M.* iii. 237. note. — Shining blue-black: head punctured, with some dots in front and the sides of the thorax yellow; elytra striated, with 5 distinct yellow spots; abdomen with 4 rows of spots, and the breast and sides, with other spots and lines, yellow. (L. 6 l.) Said, but incorrectly, to inhabit England.)

257 MELANOPHILA *Eschscholtz.*

1365† tarda *Fab. S. E.* i. f. 209. — *Pz. F.* lxviii. f. 21. — *Ste. M.* iii. 236. — Bluish metallic-green thickly punctured, beneath dusky bronze; elytra blue, rounded at tip; legs green or bluish; clypeus yellowish. (L. 6 l.) Near Windsor: ?

258 BUPRESTIS *Linn.*

1366‡ splendens *Fab. E.* ii. 204.—*Lin. Tr.* (*Marsh.*) x. 399. pl. 32. f. 1, 2.—*Ste. M.* iii. 237. — Golden-green: head rough, coppery; thorax punctured, with a smooth dorsal line; elytra with 5 raised lines, 1st, 4th, 5th

short, bluish-green, the sutures and sides golden. (L. 8 l.) In the Wandsworth road; and once in Guildhall, London: 6.

259 ANTHRAXIA *Eschscholtz.*

1367 Salicis *Fab. E.* ii. 216. — *Don.* iv. pl. 127. — *Ste. M.* iii. 238. — Brilliant green, spotless beneath; sides of the abdomen and apical half of the elytra golden-copper: legs and antennæ greenish-black. (L. 3 l.) On willows: Lordship Lane, Dulwich: 6.

1368 nitidula *L.* ii. 662. — *Cur.* i. pl. 31. — *Ste. M.* iii. 238. — Ovate; golden-green; slightly shining; thickly rugose-punctate; thorax with 2 foveæ at the base; legs green-brass. (L. 2½ l.) Flowers of whitethorn, near Brockenhurst: 6.

(1369‡ manca *Fab. E.* ii. 211. — *Pz. F.* xxii. f. 10. — *Ste. M.* iii. 238. note. — Red-copper: thorax golden, with 2 obscure lines; elytra obscure, thickly granulated; thighs coppery; tibiæ, tarsi, and antennæ obscure. (L. 4 l.) Given as British, but incorrectly.)

(1370† 4-punctata *L.* ii. 662. — *Herbst. A.* pl. 28. f. 17. — *Ste. M.* iii. 238. note. — Ovate; dull black, bronzed: thorax with 4 transverse foveæ; elytra thickly rugose-punctate. (L. 2½ l.) Also erroneously given as British.)

260 PTOSIMA *Serville.*

1371 9-maculata *L.* ii. 662. — *Ste. M.* iii. 240. pl. xix. f. 2. — Shining blue-black: forehead with a round yellow spot; thorax with a faint dorsal line, and 2 round yellow spots behind; elytra irregularly punctate-striate, with 3 yellow spots (varying in size); body slightly pubescent beneath. (L. 6½-7½ l.) Near Cockermouth, Cumberland: 7.

261 AGRILUS *Megerle.*

1372 biguttatus *Fab. E.* ii. 212. — *Pz. F.* xc. f. 8. — *Ste. M.* iii. 239. — Very brilliant blue- or bronzed-green, thickly granulated: front impressed; elytra with a deep fovea at the base, and a small white villose spot towards the apex, near the suture; abdomen with 3 or 4 bright white villose spots on the sides. (L. 4-8 l.) On felled timber: Darenth Wood; Hampstead and Cuckfield: 6.

1373 viridis *L.* ii. 663. — *Don.* v. pl. 174. — *Ste. M.* iii. 239. — Green- or bluish-brass: forehead convex, with a faint impression; thorax and elytra wrinkled transversely, the former a little narrowed and waved behind; legs and antennæ dull bronze. (L 2¾-3½ l.) On oaks: Darenth Wood; Ripley; Hertford; Kensington Gardens; Netley; Frostendon, Suffolk; York, &c.: 6-7.

1374 chryseis *Ziegler.* — *Cur.* ii. pl. 67. — *Ste. M.* iii. 240. — Golden-purple above, metallic beneath: front with a faint groove; thorax wrinkled transversely, and with a fovea in the middle and 2 at the base; elytra scabrous; legs and antennæ brassy-black. (L. 3½ l.) In the New Forest; near Windsor and near London: 9.

1375 amethystinus *Oliv. E.* ii. pl. xi. f. 128. — *Ste. M.* iii. 240. — Broadish; rich violet-purple; front impressed: thorax slightly dilated on the sides, with two foveæ behind; elytra with a rounded fovea at the base and faintly granulated; body brassy beneath; legs and antennæ black. (L. 3¼ l.) Near London: 5.

(1376‡ Rubi *L.* ii. 661. — *Pz. F.* xxix. f. 20. — *Ste. M.* iii. 241. note. — Bronzed-black: front deeply excavated; thorax foveolated; elytra dull bronze, with about 4 transverse wayed ashy bands; legs and antennæ brassy-black. (L. 6 l.) Indicated, erroneously, as British.)

262 Aphanisticus *Latreille.*

1377 pusillus *Oliv. E.* ii. pl. 12. f. 133. — *Cur.* vi. 262. — *Ste. M.* iii. 241. — Brassy-black: front deeply notched; sides of thorax expanded; elytra roughly punctate-striate; and an obscure longitudinal impression. (L. 1½-1¾ l.) Grassy places: Coombe Wood; Southend; Bath; Kingsbridge: ⊙.

263 Trachys *Fabricius.*

1378 pygmæa *Fab. E.* ii. 219. — *Don.* viii. pl. 282. — *Ste. M.* iii. 242. — Head and thorax glossy-copper, smooth: elytra rich blue, moderately punctured, the punctures disposed in lines towards the suture; body beneath brassy-black, rough; legs and antennæ brassy. (L. 1½ l.) Coombe Wood; Cambridge; and Norfolk: 5-6.

1379 minuta *L.* ii. 663. — *Don.* viii. pl. 256. — *Ste. M.* iii. 243. — Brassy-, bluish-, or greenish-black, slightly shining; pilose: front deeply excavated; thorax with a short stria on each side, and a punctured one near the base; elytra with faint scattered punctures, and 4 narrow waved, whitish, pilose bands. (L. 1¼-1½ l.) On hazel and birch: Coombe and Darenth Woods; Norwood; Epping Forest; Dorset; Hunts: 5-6.

1380 nana *Fab. E.* ii. 220. — *Pz. F.* xcv. f. 9. — *Ste. M.* iii. 243. — Dull brassy-black, glabrous: front slightly excavated; thorax faintly punctured: elytra somewhat 3-angular, rather coarsely punctured in lines; and within the lateral margin a short ridge; body beneath, legs and antennæ black. (L. 1¼ l.) Coombe Wood: 5-6.

Fam. 36. EUCNEMIDÆ *Westwood.*

cclxiv. Melasis *Ant.* distant at base; flabellate in ♂, serrated in ♀: *body* cylindric: *tho.* with hinder angles produced and acute, somewhat remote from elytra: *scutel.* elongate: *legs* short, compressed.

cclxv. Microrhagus *Ant.* approximating at the base, serrated, ramose in ♂: *body* narrow, flat: *tho.* waved behind, and closely attached to base of *elytra*, which are slightly narrowed behind: *legs* short, slender.

cclxvi. Throscus *Ant.* distinctly clavate; club 3-jointed, perfoliate: *body* elliptic, flat: *tho.* lobate, hinder angles acute; closely applied to the elytra: *palpi* clavate: *legs* short, compressed, contractile; *tarsi* with 4th joint 3-angular.

cclxvii Cerophytum *Ant.* longish, serrated, strongly pectinated in ♂: *body* ovoid, flat: *tho.* closely applied to the base of elytra: *palpi* with terminal joint stout, ovate: *tarsi* with 4th joint bilobed.

264 Melasis *Olivier.*

1381 buprestoides *L.* ii. 656. — *Cur.* ii. pl. 55. — *Ste. M.* iii. 244. — Black, opaque; sometimes a little chestnut: head and thorax punctured and slightly pubescent, the sides of the latter rather expanded in front, disc with an obscure stria; elytra with interrupted striæ, interstices rather rough; legs, antennæ, and palpi reddish. (L. 3-3½ l.) Decayed trees: Windsor and New Forests; Halesworth, Suffolk: 6.

265 Microrhagus *Eschscholtz.*

1382 † pygmæus *Fab. E.* ii. 246.? — *Mann. Euc.* pl. 2. f. 4 — 6.? — *Ste. M.* iii. 246. — Linear-elongate, black; with a griseous pile: head punctured; crown with a ridge; thorax longish, punctulate; elytra slightly punctured and faintly striate; thighs pitchy; tibiæ, tarsi, and antennæ reddish. (L. 2½ l.) In Norfolk?

266 Throscus *Latreille.*

1383 dermestoides *L.* ii. 656. — *Ste. M.* iii. 120. — De. adstrictor *Pz. F.* lxxv. f. 15. — Oblong-ovate; pitchy-brown; slightly pubescent; punctured: front with 2 ridges; thorax with a notch in front, and a faint ridge before the scutellum; elytra punctate striate, interstices each with a row of coarse punctures: body beneath and legs pitchy-red; antennæ brownish. (L. 1-1¾ l.) Old oaks, and gravel-pits: Coombe Wood; Hertford; Ripley; Bexley: 5-8.

1384 obtusus *Westwood.* — *Cur.* iv. pl. 163. — *Ste. M.* iii. 120. — Ovate; dull chestnut; finely pubescent; punctured: head rounded, front obtuse, not ridged; thorax slightly raised before the scutellum: elytra striated, interstices minutely punctured: legs and antennæ dull-red. (L. ¾-1 l.) On oaks: Plaistow marshes; Ripley, 6; Ensham, 9; moss, Highgate Wood: 1.

267 Cerophytum *Latreille.*

1385 † elateroides *Lat. H.* ix. 76. — *West. Int.* pl. 24. f. 5. — Ce. Latreillii *Ste. M.* iii. 246. — Black: elytra striated; thorax slightly convex; antennæ dusky. (L. 3 l.) Near Bristol: 6.

Fam. 37. ELATERIDÆ *Leach.*

cclxviii. Adrastus *Ant.* with 2d and 3d joints rather elongate, apical joint longest: *body* linear-elongate: *tho.* with the sides acutely margined in the middle: *plates* at base of the hind legs gradually dilated within.

cclxix. Dolopius *Ant.* serrate, with 2d and 3d joints slightly elongate, apical one longest: *body* nearly linear, somewhat robust: *tho.* with the sides acutely margined in the middle: *basal plates* abruptly dilated within.

cclxx. Agriotes *Ant.* somewhat moniliform, obtusely serrated, 2d joint longer than 3d, which is equal to the 4th, terminal scarcely longer than 2d: *body* oblong: *forehead* and *tho.* very convex, sides of latter not acutely margined in the middle.

cclxxi. Sericosomus *Ant.* short, serrated, 2d and 3d joints short, somewhat globose: *body* nearly cylindric, clothed with a delicate silken pile: *tho.* short, convex: *mouth* deflexed: *basal plates* broad, equal.

cclxxii. Ectinus *Ant.* elongate, 2d and 3d joints short, 4th distinctly longer than the 5th, terminal broad, ovate: *body* very convex, nearly glabrous, rough: *basal plates* rather broader within.

cclxxiii. Limonius *Ant.* longish, serrated, 2d and 3d joints very small: *body* oblong, somewhat cylindric: *tho.* elongate, convex: *forehead* with a distinct ridge: *tarsi* with the basal joint rather shorter than the 2d.

cclxxiv. Elater *Ant.* shortish, 2d and 3d joints small, 2d smallest: *body* flat: *tho.* with the sides not dilated; *forehead* with a distinct ridge: *basal plates* suddenly dilated within and toothed in the middle; *tarsi* setose, the joints gradually smaller.

cclxxv. Prosternon *Ant.* short, 2d and 3d joints small, not dilated, 2d smallest, shorter than 3d: *body* somewhat oval, flattish, densely pubescent: *tho.* dilated on the sides.

cclxxvi. Agrypnus *Ant.* short, compressed, 2d joint dilated, larger than 3d, basal very robust: *body* broad, somewhat oval, flattish, densely pubescent: *tho.* dilated on the sides, base tuberculated: *tarsi* slender, 2d joint shortest.

cclxxvii. Hypolithus *Ant.* short, stout, 2d, 3d, and 4th joints small, slender; basal joint very robust: *palpi* securiform: *body* wide, ovate,

nearly glabrous: *tho.* somewhat 4-drate, convex in the middle: *legs* slender.

cclxxviii. Cryptohypnus *Ant.* slender, 2d and 3d joints very small, apical joint short, obliquely truncate: *body* broad, elongate-ovate, glabrous: *tho.* transverse, convex: *legs* slender.

(cclxxix. Drasterius *Ant.* short, 2d joint very small, somewhat globose, 3d slightly elongate: *body* ovate: *palpi* acuminate: *forehead* with a distinct ridge: *hinder trochanters* suddenly dilated within: *tibiæ* with long ciliæ externally.)

cclxxx. Melanotus *Ant.* serrated, 2d and 3d joints short, nodose, terminal one long, slender, obtuse: *body* narrowed behind: *tho.* with hinder angles large, acute: *elytra* long: *tibiæ* short; *tarsi* long, slender; *claws* toothed.

cclxxxi. Ludius *Ant.* compressed, strongly serrated, 2d and 3d joints very small, somewhat globose, terminal abruptly narrowed at the tip: *palpi* short, rather slender: *body* convex: *tho.* narrowed in front, hinder angles large, acute: *hinder trochanters* spined within.

cclxxxii. Ctenicerus *Ant.* serrated, of ♂ often strongly pectinated, 2d joint minute, somewhat globose, terminal one elongate: *palpi* rather long: *labrum* transverse: *tho.* longer than broad, flattish: *body* (usually metallic) slightly narrowed behind: *hinder trochanters* narrow, lanceolate.

cclxxxiii. Selatosomus *Ant.* short, serrated, 2d joint very short, somewhat globose, 3d as large as the 4th, terminal with the apex conical: *body* broad, glabrous (of brilliant colours), slightly convex: *tho.* gibbous: *tarsi* simple.

cclxxxiv. Cardiophorus *Ant.* approximating, 2d joint very short, somewhat clavate, 3d as long as the 4th, obconic, terminal slender, ovate-acute: *palpi* short: *body* longish, slightly pubescent: *tho.* immarginate, very gibbous: *scutel.* heart-shaped: hinder *thighs* stoutest; *tarsi* slender, simple.

cclxxxv. Aplotarsus *Ant.* slightly serrated, 2d joint very minute, 3d rather longer and more slender than the 4th: *palpi* nearly filiform: *body* slightly pilose: *tho.* elongate, slightly convex: *tarsi* slender, simple, 4th joint smallest; *claws* simple.

cclxxxvi. Ctenonychus *Ant.* simple, not compressed, 2d joint short, slender, somewhat cylindric, 3d and following rather clavate: *body* clothed with long hairs: *tarsi* with the 2 basal joints dilated, 3d bilobed, spongy beneath, 4th minute; *claws* toothed.

cclxxxvii. Athous *Ant.* long, compressed, serrated, 2d joint short, or slightly elongate: *palpi* short, slender: *labrum* narrow, transverse: *body* somewhat linear, pubescent: *forehead* with a distinct ridge: *tarsi* with basal joint as long as the 2 following united, 3d dilated spongy; *claws* simple.

cclxxxviii. Campylus *Ant.* long, slender, serrated, 2d joint shortish, somewhat globose: *head* exserted, frontal margin elevated: *eyes* very large, prominent: *body* linear: *tho.* with sides dilated in front, and contracted near the hinder angles, which are somewhat bent outwardly: *tarsi* and *claws* simple.

268 Adrastus *Eschscholtz.*

1386 limbatus *Fab. E.* ii. 242. — *Herbst. C.* x. pl. 165. f. 11. — *Ste. M.* iii. 248. — Black, shining; pubescent; punctured: thorax very glossy, the anterior margin, and sometimes hinder angles, testaceous; scutellum black; elytra deeply punctate-striate, interstices faintly punctured, testaceous, suture and outer margin dusky black: legs and antennæ pale dull

red. (L. 2-2½ l.) Grassy places: London district; Devon; Cornwall; Swansea; Cambridge; near Edinburgh, &c.

1387 acuminatus *Ste. M.* iii. 248. — Rather narrowed behind; fuscous; pubescent; punctured: thorax obscure, hinder angles dull testaceous; scutellum dull ochreous; elytra fuscescent, with a broad testaceous streak on the disc, faintly punctate-striate, interstices thickly punctured; legs and antennæ testaceous. (L. 2½-3 l.) In hedges: near London (Coombe Wood), and Devon: 5-6.

269 DOLOPIUS *Eschscholtz.*

1388 marginatus *L.* ii. 654. — *Ste. M.* iii. 248. — El. lateralis *Oliv. E.* ii. pl. 8. f. 80. — Pitchy-brown, varying to testaceous; slightly pubescent: margin of the thorax and the legs rusty-red; scutellum dusky; elytra testaceous, with the suture and margins generally black; regularly punctate-striate, interstices roughly punctured. (L. 3-3½ l.) Among herbage, in woods: London district; Bottisham; Swansea; Carlisle; Edinburgh: 4-7.

270 AGRIOTES *Eschscholtz.*

1389 sputator *L.* ii. 654. — *Ste. M.* iii. 249. — El. variabilis *Herbst. C.* x. pl. 164. f. 11. — Black; pubescent, slightly shining: thorax longer than broad, sides nearly straight; anterior edge and hinder angles testaceous; elytra deeply punctate-striate, dull testaceous, or dusky, rarely blackish; legs and antennæ pale testaceous. (L. 3-3¼ l.) Meadows and pastures: very abundant throughout the S. of England: ⊙, ✶.

1390 obscurus *L.* ii. 65. — *Mart. C.* pl. 30. f. 20. — *Ste. M.* iii. 249. — Short; brown-black, pubescent; opaque; very obtuse in front: thorax gibbous, sides rounded; scutellum black; elytra faintly punctate-striate, pale dusky-black; thighs pitchy-black; tibiæ, tarsi, and antennæ dusky rust-colour. (L. 4-4½ l.) Meadows, &c.: also abundant everywhere: ⊙, ✶.

1391 lineatus *L.* ii. 653. — *Ste. M.* iii. 250. — El. striatus *Pz. F.* xciii. f. 13. — Fuscous, with a griseous pile: thorax blackish, margins nearly straight, hinder angles very acute; elytra punctate-striate, the striæ in pairs; griseous, with the narrowed interstices fuscous or dusky; antennæ and legs rusty-red. (L. 4-4½ l.) Pastures, &c.; generally distributed: ⊙, ✶.

1392 pilosus *Fab. E.* ii. 241. — *Ste. M.* v. 414. — Flattish; fuscous with an ashy pile: thorax coarsely punctured, hinder angles slightly bent outwards; elytra palish fuscous, regularly punctate-striate, interstices finely punctured; legs and antennæ dull red. (L. 4-5 l.) In grassy places: near Southend: 6.

271 SERICOSOMUS *Serville.*

1393 fugax *Fab. E.* ii. 237. — *Ste. M.* iii. 251. — Black, very much punctured; clothed with a golden pile: elytra dull chestnut, or dull brown, rather faintly striated; apex of the abdomen slightly testaceous; tip of the thighs, the tibiæ, and tarsi dull red. (L. 3½ l.) Near Brockenhurst: 6.

1394 brunnipennis *Step.* — El. brunneus *Ste. M.* iii. 252. — Dull black; opaque: thorax with the anterior and hinder angles dull rusty red, the sides beneath the same; elytra dull brown, finely striated; apex of thighs, tibiæ, and tarsi dull testaceous; tip of abdomen dull red. (L. 4-4¼ l.) Hedges: London district; New Forest and N. of England: 6.

1395 brunneus *L.* ii. 653. — *Herbst. A.* pl. 27. f. 6. — *Ste. M.* iii. 252.

var. — Dull rusty-red, very much punctured: thorax brighter, with a black streak in the middle, and 1 on each side scarcely touching the base black; head, antennæ, breast, and base of abdomen black; base of thighs sometimes pitchy. (L. 4 l.) In N. of England, and banks of Loch Tay: 5-6.

1396 fulvicollis *Ste. M.* iii. 252. — Deep black; punctured; clothed with yellowish pile: thorax bright tawny-red, rather coarsely punctured; elytra bluish-black, faintly punctate-striate; interstices transversely rugulose; sides of thorax beneath bright red. (L. 4 l.) Near Bristol.

272 Ectinus *Eschscholtz.*

1397 aterrimus *L.* ii. 653. — *Ste. M.* iii. 252. — *Cur.* xv. pl. 694. — Black, opaque; thickly punctate: thorax somewhat linear, disc very convex, especially in front, the base with a channel; elytra crenate-striate, each interstice with a row of short hairs; legs pitchy; tarsi reddish. (L. 5-6½ l.) Grassy places: near Twickenham; Deal; Swansea; Windsor: 6-7.

273 Limonius *Eschscholtz.*

1398 cylindricus *Pk. F.* iii. 24. — *Ste. M.* iii. 253. — Rather narrow; brassy-brown; pubescent; finely punctured: thorax somewhat gibbous in the middle, thickly punctured; elytra rather faintly punctate-striate; body beneath, legs and antennæ brassy-black, the latter longer than the thorax, slightly serrated; pectoral mucro incurved, and with a groove. (L. 5-5½ l.)

Var. ? or ♀ ? El. nigripes *Gyll.* i. 395. — *Ste. M.* iii. 253. — Larger (6 l.): thorax shorter, more deeply punctured, with a distinct dorsal channel; sternum somewhat convex; antennæ shorter than the thorax. Hedges: near Birch Wood; also in Norfolk; Suffolk; near Swansea, &c.: 6.

1399 serraticornis *Pk. F.* iii. 21. — *Herbst.* x. pl. 167. f. 7. — *Ste. M.* iii. 254. — Oblong; brassy-black; slightly pubescent: thorax oblong, convex behind, hinder angles rather long, acute, disc thickly punctured; elytra faintly punctate-striate, interstices thickly punctured; legs fuscous; antennæ long, acutely serrated. (L. 2½-3 l.) On flowers, &c., in hedges: near London; Bristol; and Wood Ditton, Cambridge: 5-6.

1400 minutus *L.* ii. 656. — *Ste. M.* iii. 254. — El. angustus *Herbst.* x. pl. 167. f. 4. — Elongate; black; slightly pubescent: thorax shining, oblong, hinder angles short, obtuse, disc punctate, convex behind, sides straight; elytra flattish; punctate-striate; scarcely shining: body brassy beneath; legs black. (L. 3-3¼ l.)

Var. ? El. nigro-æneus *Marsh.* i. 384. — *Ste. M.* iii. 254. — Above brassy-black, beneath black; thorax very glossy, faintly punctured; elytra slightly shining. In hedges: London district; Swansea; Edinburgh: 4-7.

1401 Bructeri *Fab. E.* ii. 243. — *Pz. F.* xxxiv. f. 13. — *Ste. M.* iii. 255. — Oblong, convex; brown-brass: thorax short, punctate, a little waved in front; sides slightly rounded, hinder angles short, acute; elytra acute, very faintly striated; interstices punctured: legs dusky-piceous. (L. 2½ l.) In Norfolk: 6.

1402 † nigrinus *Pk. F.* iii. 39. ? — *Ste. M.* iii. 255. — Elongate; deep opaque black, slightly pubescent: thorax rather oblong, very thickly punctate, with a slight fovea behind, the hinder angles long and with a ridge; elytra flattish, ruggedly punctured across. (L. 3½ l.) Cobham: 9.

274 Elater *Linnè.*

1403 ephippium *Fab. E.* ii. 238. — *Pz. F.* v. f. 14. — *Ste. M.* iii. 256. — Black, slightly pubescent: elytra blood-red, with a lanceolate black patch in the middle of the suture; tarsi pitchy. (L. 5-6 l.) In woods: Epping Forest; Darenth Wood; Bewdley Forest; Oxford; Salisbury; Christchurch: 6.

1404 sanguineus *L.* ii. 654. ? — *Don.* xv. pl. 508. f. 2. — *Ste. M.* iii. 256. — Black; clothed with reddish pile: thorax rather convex; elytra bright blood-red, spotless; punctate-striate; tarsi pitchy. (L. 4-6½ l.) On oaks: Highgate and Coombe woods; New Forest; Barmouth; Salisbury and Spitchweek: 6.

1405 rufipennis *Hoffmansegg.* — *Ste. M.* iii. 256. — Black; clothed throughout above with fuscous or black pile; thorax flattish; elytra bright blood-red, spotless; punctate-striate; tarsi dusky piceous. (L. 5-6 l.) W. of England; New Forest; Bagley Wood: 6.

1406 semiruber *Hoffmansegg.* — *Ste. M.* iii. 257. — Rather narrow; black: head and thorax clothed with black pile; the latter flattish; elytra bright blood-red, spotless, sparingly clothed with red hairs, punctate-striate; tarsi pitchy. (L. 5-6 l.) New Forest, near Brockenhurst; Bristol; Crwmlyn Bog: 6.

1407 crocatus *Ziegler* ? — Black; head and thorax clothed with fuscous pile; thorax slightly convex; elytra dull chestnut-red, with the tip blackish, clothed with tawny pile, and punctate-striate; tarsi pitchy. (L. 5-6 l.) Sherwood Forest: 6.

1408 Pomonæ *Hoffmansegg.* — *Ste. M.* iii. 257. — Rather narrow; black, clothed with fuscous pile: thorax slightly convex; elytra blood-red, tip black, punctate-striate; tarsi pitchy. (L. 4½-5½ l.) Darenth Wood; Barmouth: 6.

1409 præustus *Fab. E.* ii. 238. — *Pz. F.* xciii. f. 8. — *Ste. M.* iii. 257. — Black; head and thorax clothed with black pile, the latter slightly punctate; elytra blood-red, the tip black, clothed with a few red hairs, punctate-striate; tarsi dull red. (L. 3½-4¼ l.) On oaks: Darenth Wood; Nuthurst, Sussex: 6.

1410 balteatus *L.* ii. 654. — *Wood.* i. pl. 21. — *Ste. M.* iii. 258. — Black; pubescent; punctured: elytra deeply punctate-striate, the base to beyond the middle rusty-red, apex black; legs and antennæ at base pitchy, tip of the latter and tarsi reddish. (L. 3½-4 l.) Hedges, &c.: Coombe, Darenth, and Birch Woods; Windsor; Nutfield; Prestwick Carr, near Newcastle; Kingsbridge, Devon: 6.

1411 bipustulatus *L.* ii. 652. — *Pz. F.* lxxvi. f. 10. — *Ste. M.* iii. 258. — Black; flattish; slightly pubescent; punctured: thorax convex, shining, sides dilated; elytra punctate-striate, dilated in the middle, with a more or less distinct (rarely obliterated) red spot on the shoulder; legs and antennæ testaceous. (L. 3½-4 l.) Felled timber: New Forest; Bottisham; Bagley Wood; Kimpton; Norfolk: 6.

1412 ustulatus *Pk. F.* iii. 32. — *Ste. M.* iii. 258. — Black; flattish; slightly pubescent; finely punctured: thorax convex, shining, sides dilated; elytra punctate-striate, entirely pale testaceous-red; thighs dusky; tibiæ and tarsi pale testaceous. (L. 3½-4 l.) New Forest; Isle of Wight; Nuthurst: 6.

275 Prosternon *Latreille.*

1413 holosericeus *Fab. E.* ii. 228. — *Ste. M.* iii. 259. — *Herbst.* x. pl. 161. f. 9. — Dusky; densely clothed above with a changeable pale griseous

silken pubescence, disposed in somewhat irregular bands on the elytra; legs testaceous-brown, tibiæ and tarsi palest. (L. 4½-6 l.) Hedges, &c., Coombe and Darenth Woods; Epping; Swansea; Devon; Newcastle; Edinburgh: 5-6.

276 Agrypnus *Eschscholtz.*

1414 murinus *L.* ii. 655. — *Mart.* pl. 31. f. 17. — *Ste. M.* iii. 259. — Broad; dusky-black; densely pubescent; variegated with whitish above; beneath uniform griseous-ash; thighs and tibiæ pitchy; tarsi and antennæ dull red. (L. 5-8½ l.) Very abundant, everywhere: 5-6, ⁎.

(1415‡ fasciatus *L.* ii. 655. — *Pz. F.* lxvi. f. 2. — *Ste. M.* iii. 259. note. — Black: thorax shagreened, clothed with small silvery scales; elytra varied with white scales, and with a waved band of silvery ones a little beyond the middle. (L. 6 l.) Erroneously stated to be British.)

1416† varius *Fab. E.* ii. 229. — *Pz. F.* lxxvi. f. 3. — *Ste. M.* iii. 275. — Black, with a reddish tinge: side of the thorax, base of the elytra, and a broad band near the tip of the latter densely clothed with yellowish down; legs and antennæ dull red. (L. 5½ l.) Windsor Forest: 6.

277 Hypolithus *Eschscholtz.*

1417 riparius *Fab. E.* ii. 243. — *Ste. M.* iii. 260. — *Herbst.* x. pl. 165. f. 12. — Glossy brassy-brown; slightly punctured: elytra finely striated; legs testaceous-red; antennæ with 2 or 3 basal joints testaceous, remainder black. (L. 2½-3¼ l.) Grassy places: rare in London district; in N. of mountainous parts of Wales; Barmouth; Swansea; Edinburgh abundantly, &c.: 5-6.

1418 rivularius *Gyll.* i. 403. — *Ste. M.* iii. 261. — El. riparius *Pz. F.* xxxiv. f. 12. — Black; above brassy; slightly punctured: head with a broad frontal impression: thorax with the hinder angles rusty-red; elytra rather deeply striated, the outer margin more or less dull red; legs and antennæ wholly testaceous-red. (L. 2½-3 l.) Gloucestershire: 6.

278 Cryptohypnus *Eschscholtz.*

1419 Agricola *Zetterstedt.* — *Gyll.* iv. 357. — *Ste. M.* iii. 261. — Black, slightly pubescent: thorax short, convex, sides expanded in front, hinder angles pale, disc not carinated; elytra with a large oblong pale spot on the shoulder and a small narrow one near the tip; legs, mouth, and antennæ pale red. (L. 1¼-1½ l.) Grassy places: Bristol; Netley: 5-6.

1420 4-pustulatus *Fab. E.* ii. 248. — *Don.* xvi. pl. 545. — *Ste. M.* iii. 261. — Black, slightly pubescent: thorax convex, the sides dilated in the middle, the disc with a slight dorsal ridge; elytra flattish; with a pale yellowish spot on the shoulder and a smaller rounded one near the tip (rarely wanting); mouth and legs ochreous; antennæ black, the base testaceous. (L. 1¼-1½ l.) Grassy places: Dulwich; Hertford; Battersea and Copenhagen fields; Epping; Swansea; Devonshire; Dublin; Edinburgh, &c.: 6.

1421 Dermestoides *Herbst.* x. 85. pl. 165. f. 10. — *Ste. M.* iii. 262. — Black, slightly pubescent: thorax short, sides scarcely dilated; angles concolorous, disc not carinated: elytra faintly striated, spotless; legs and antennæ pale red. (L. 1¼-1½ l.) London district, &c., in grassy places: 6.

1422 pulchellus *L.* ii. 656. — *Pz. F.* lxxvi. f. 8. — *Ste. M.* iii. 262. — Oblong; black; convex: thorax rather long, the sides rounded and dilated in the middle; disc very convex, with a faint dorsal ridge; elytra deeply punctate-striate, interstices slightly raised; disc more or less spotted

with pale yellowish, rarely spotless; legs and base of antennæ pale red. (L. 1½-1¾ l.) Devonshire and Wales; Capel Cerig: 6.

279 DRASTERIUS *Eschscholtz.*

(1423† bimaculatus *Fab. E.* ii. 245. —*Pz. F.* lxxvi. f. 9. — *Ste. M.* iii. 269. — Black; shining: elytra red nearly to the middle, the apex black, with a white dot; towards the middle of the disc is a black dentate patch united to the black edge; tibiæ and tarsi yellowish. (L. 3½ l.) Said to be found in Devonshire.)

280 MELANOTUS *Eschscholtz.*

1424 fulvipes *Herbst.* x. 46. pl. 162. f. 2. — *Ste. M.* iii. 263. — Pitchy-black; pubescent: head and thorax coarsely punctured; elytra faintly punctate-striate, interstices sparingly punctured; legs bright ferruginous; antennæ brownish. (L. 6-10 l.) In rotten wood, &c., throughout the country; rare in Scotland: 5-6.

281 LUDIUS *Latreille.*

1425 ferrugineus *L.* ii. 654. — *Don.* x. pl. 356. f. 1. — *Ste. M.* iii. 264. — Above dull red, beneath black; thickly punctured: hinder margin of thorax, very rarely the entire disc, and scutellum black; elytra faintly striated; tarsi reddish. (L. 9-11 l.) Decayed trees: Darenth Wood; Windsor; Bottisham; Clengre; Swansea: 6.

282 CTENICERUS *Latreille.*

(1426‡ aulicus *Pz. F.* lxxvii. f. 6. — *Ste. M.* iii. 265. — Above dull brassy-green; beneath black-bronze: scutellum and elytra pale, spotless, testaceous, striate punctate; antennæ black, of ♂ pectinated. (L. 7-8 l.) Said to be found in Devonshire.)

1427 pectinicornis *L.* ii. 655. — *Don.* x. pl. 356. f. 2. — *Ste. M.* iii. 265. — Rich brassy-green, shining above, obscure and pubescent beneath: thorax with a deep dorsal furrow; elytra rich green, punctate-striate, interstices finely punctured; legs and antennæ black; the latter pectinated in ♂, serrated in ♀. (L. 7-9 l.) Grassy places in elevated districts; Malvern Hills; N. Wales; Yorkshire; Newcastle; Wastwater, Cumberland; Edinburgh, &c.: 5-6.

1428 cupreus *Fab. E.* ii. 231. — *Don.* xv. pl. 508. — *Ste. M.* iii. 266. — Beneath brassy-black, or coppery; above red-purple, greenish copper or dusky: thorax with a deep channel; elytra rather faintly punctate-striate, the base mostly with a large yellow or ochreous patch, but sometimes spotless; legs brassy; antennæ pectinated in ♂, serrated in ♀. (L. 5-7½ l.) In similar situations with the foregoing insect: 5-6.

1429‡ castaneus *L.* ii. 654. — *Pz. F.* lxxvii. f. 4. — *Ste. M.* iii. 266. — Black: thorax clothed with a short, changeable pile; elytra pale testaceous-yellow, with the tip black; disc striated; interstices punctured; antennæ of ♂ pectinated, of ♀ serrated. (L. 5-6 l.) Moushold Heath, Norwich; and in the Isle of Wight: 6.

1430 sanguinicollis *Hellwig.* — *Ste. M.* iii. 266. — El. ruficollis *Don.* xv. pl. 618. f. 1. — Black; pubescent; thorax narrowed in front, bright blood-red, spotless: elytra bluish-black, faintly striated, margin ciliated; tip of the apical joint of tarsi red; antennæ serrated in ♂. (L. 4-4½ l.) Under bark of decayed trees: Kensington Gardens; Copenhagen fields; Windsor; Southend; Norfolk: 6.

1431 tessellatus *L.* ii. 655. — *Herbst. C.* x. pl. 161. f. 1. — *Ste. M.* iii. 267. — Dusky-brass, pubescent: thorax and elytra clothed with short

depressed cinerous hairs disposed in tessellated patches, most evident on the elytra, variable in form and position, the alternate interstices between the striæ of the elytra being at times spotless; claws red; antennæ black, serrated in ♂. (L. 5-7½ l.) Hedges: Battersea fields; Bottisham and Horningsea fens; Epping; moist meadows near Swansea, &c.: 5.

1432 metallicus *Pk. F.* iii. 19. — *Ste. M.* iii. 267. — El. nigricornis *Pz. F.* lxi. f. 5.—Oblong, dusky-brass; pubescent: thorax convex, sides rounded: elytra faintly punctate-striate, tip slightly narrowed; legs pale testaceous; tarsi fuscous; antennæ with basal joint dull red, large and bent; the rest black. (L. 4-5 l.) Walsham meadows, near Ripley; in Somersetshire; Swansea: 6.

283 Selatosomus *Stephens.*

1433 æneus *L.* ii. 655. — *Ste. M.* iii. 268. — El. impressus *Don.* xv. pl. 535. f. 2.—Above glabrous, shining, brassy, green, blue, violet, or purple; elytra sometimes concolorous, at others dissimilar, deeply striate; body beneath green or bluish-brass; legs pitchy-black, or bright red, with dusky tarsi; antennæ black. (L. 7-9 l.) Grassy places: Birch Wood; Fakenham; N. Wales, 9; in Scotland: 6.

1434‡ cruciatus *L.* ii. 653. — *Pz. F.* lxxvi. f. 6. — *Ste. M.* iii. 269. — Black: thorax with a red line on each side; elytra striated, yellowish, the suture, a band across, rather beyond the middle, the outer edge thence to the apex, and a streak at the shoulders, black; edges of the abdomen red; legs red; tips of the thighs black. (L. 7 l.) Rare: near Windsor: 6.

284 Cardiophorus *Eschscholtz.*

1435 thoracicus *Fab. E.* ii. 236. — *Mart.* pl. 31. f. 32. — *Ste. M.* iii. 270. — Black; thorax globose, bright red; beneath with a black streak in the middle; claws red. (L. 4 l.) London district; at Windsor; New Forest; Collingbourne Wood; Baron Wood, Cumberland, &c.: 6.

1436 ruficollis *L.* ii. 653.—*Mart.* pl. 30. f. 3. — *Ste. M.* iii. 270.—Shining black: thorax smooth, red, anterior portion black, beneath red, with the front edge and a medial line black; elytra with a bluish tinge, deeply striate; tarsi reddish. (L. 2¾-3 l.) In decaying oaks, near London and in Norfolk: 6.

1437 Equiseti *Herbst. C.* x. 67. pl. 163. f. 12. — *Ste. M.* iii. 270.—Black; clothed with an ashy pile: thorax with an obscure dorsal channel; elytra flattish, punctate-striate; legs pitchy-black, base of the thighs, the joints and tarsi testaceous. (L. 3½-5 l.) In grassy lanes: Kew; Birch and Darenth Woods; Bristol; Edinburgh: 5-6.

285 Aplotarsus *Stephens.*

1438 testaceus *Fab. E.* ii. 238.—*Ste. M.* iii. 271.—Black, slightly shining; elytra finely striated, interstices minutely punctured, clear spotless testaceous; egs and basal joints of the antennæ the same, apical dusky; mouth pitchy. (L. 3½-4 l.)

Var.? Ap. ochropterus *Ste. M.* iii. 272. — Elytra pale testaceous, or ochreous; legs pitchy-black, tibiæ paler; antennæ black. Near Bristol and Edinburgh. Var.? S. Wales: 5-6.

1439 rufipes *Fab. E.* ii. 242. — *Pz. F.* xciii. f. 14. — *Ste. M.* iii. 272. — Shining black: thorax smooth, widest in the middle; elytra flattish; punctate-striate, tip rounded; legs dull red; tarsi brownish. (L. 3½-4 l.) In grassy places: near London; W. of England; Edinburgh, &c.: 6.

1440 Quercus *Oliv.* ii. 31. pl. 6. f. 60. — *Ste. M.* iii. 272. — Black; thorax

elongate, sides nearly straight, disc punctured in front; elytra fuscous, with a greenish tinge, tip slightly acute; clothed with an ashy pile, faintly striated, interstices slightly granulated; legs dull testaceous; tibiæ pale; basal joint of antennæ pitchy. (L. 3-3½ l.) Lanes near Birch and Darenth Woods; Cramond: 6.

286 CTENONYCHUS *Stephens.*

1441 hirsutus *Ste. M.* iii. 273. — Brown-black; densely clothed with longish yellowish-ash-coloured hairs, especially on the head and thorax; elytra elongate, striated; legs pitchy; antennæ testaceous. (L. 5 l.) Bristol: 6.

287 ATHOÜS *Eschscholtz.*

1442 rhombeus *Oliv. E.* ii. 31. pl. 2. f. 16. ? — El. pubescens *Marsham.* — *Ste. M.* iii. 274. — Pale testaceous-red; clothed with an ashy pile, the pubescence appearing abraded on the elytra obliquely, and forming an obscure V; eyes and legs black; antennæ slightly serrated. (L. 8-9½ l.) Decayed trees: Lea Wood, and in the New Forest, near Lyndhurst: 6.

1443 niger *L.* ii. 656. — *Pz. F.* ci. f. 16. — *Ste. M.* iii. 274. — Black, shining; clothed with fuscous down: elytra deeply punctate-striate at the base, obsoletely at the tip, interstices finely punctured; tarsi dull pitchy. (L. 4½-6 l.)

Var. El. nigrinus *Marsh.* i. 389. — *Ste. M.* iii. 275. — Slightly shining, and clothed with an ashy pile; striæ on the elytra very obsoletely punctate. Hedges and wood-sides: London district; Bottisham; Swansea; Edinburgh: 5-6.

1444 hæmorrhoidalis *Fab. E.* ii. 235. — *Ste. M.* iii. 275. — El. sputator *Don.* iii. pl. 96. f. 4. — Linear-elongate; dusky-black; pubescent: thorax linear, the hinder angles short, slightly reddish; elytra faintly punctate-striate, brownish; body beneath fuscous, with the margins of the abdominal segments and the entire terminal one red; legs dull-red, anterior thighs pitchy. (L. 6-8 l.) Abundant in hedges, &c., everywhere: 4-7, ✶.

1445 elongatus *Marsh.* i. 385. — *Ste. M.* iii. 276. — Elongate, narrowed behind; dull chestnut: thorax with hinder angles elongate, acute; elytra flattish, striated; body red chestnut beneath; legs reddish; eyes black. (L. 6 l.) Near Southgate?

1446 subfuscus *Gyll.* ii. 411. — *Ste. M.* iii. 276. — Linear-elongate; dusky-black; pubescent: head reddish: thorax with its angles, and generally the entire margins, testaceous-red; elytra pale testaceous, faintly punctate-striate, apex obtuse; sides and tip of abdomen, legs, and antennæ testaceous-red. (L. 4-5 l.) Grassy places in New Forest: 6-7.

1447 vittatus *Fab. E.* ii. 231. — *Don.* xv. pl. 518. f. 2. — *Ste. M.* iii. 276. — Elongate; pitchy-fuscous; pubescent: thorax with the anterior and lateral margins and the angles testaceous-red; elytra pale testaceous, with the suture and sides more or less broadly fuscous-black, leaving a pale discoidal stripe; sides and tip of the abdomen reddish; legs and basal joints of the antennæ pale testaceous: elytra sometimes entirely blackish. (L. 4-5 l.) Decayed trees in New Forest, and near Bristol; Swansea: 5-6.

1448 angularis *Ste. M.* iii. 277. — Oblong; pitchy-brown; pubescent: thorax whitish, slightly convex, hinder angles very short, red; elytra fuscous, with a griseous pile, punctate-striate, interstices convex; legs and antennæ red, 2d and 3d joints of the latter longish and slender. (L. 5 l.) Devonshire: 6.

1449 longicollis *Fab. E.* ii. 241. — *Pz. F.* xciii. f. 12. — *Ste. M.* iii. 277.— Black, very much punctured; pubescent: thorax elongate, narrow, with a short dorsal groove and 2 foveæ behind; the sides and hinder angles testaceous; elytra wider than the thorax, rather deeply punctate-striate; pale testaceous, outer margin broadly dusky, suture more or less black: ♀ with the thorax broader and more convex; antennæ reddish. (L. 4½-5¼ l.) Woody places: Darenth and Coombe Woods; New Forest; Norfolk; Bottisham; Swansea: 5-7.

1450† Campyloides *Ent. M.* (*Newman*) i. 509. — *Ste. M.* v. 415. — Ferruginous; eyes black: elytra faintly striate, rather convex; hinder angles of thorax slightly acute. (L. 4½ l.) In alders: Ramsgate: 6.

288 Campylus *Fischer.*

1451 linearis *L.* ii. 653. — *Ste. M.* iii. 278. — ♂ El. bicolor *Pz. F.* viii. f. 11.: ♀ El. mesomelus *Pz. F.* vii. f. 6. — Beneath black, sides and tip of abdomen testaceous: thorax red with an impressed cross: elytra striate-punctate, pale testaceous, suture sometimes dusky; base of thighs mostly blackish, rest of legs pale testaceous; antennæ testaceous, tips of the joints sometimes dusky: eyes black: ♀ with the elytra rather dilated, generally black with a red margin, thighs occasionally entirely testaceous. In both sexes the head and the disc of the thorax are at times black, &c. (L. 5-7 l.) Hedges, &c., in the S. of England; not uncommon: 5-6.

§ 3. Stirps 4. MALACODERMA *Latreille.*

Fam. 38 Cebrionidæ. *Ant.* 11-jointed, filiform, articulations cylindric: *palpi* filiform; *lab.* short: *head* small, inclined: *body* hard, convex: *tarsi* 5-jointed, penultimate joint bilobed.

Fam. 39 Cyphonidæ. *Ant.* 11-jointed, filiform, sometimes rather serrated: *max. palpi* filiform; *lab.* bifurcate: *mand.* concealed: *body* soft: *elytra* flexible: *head* very small: *tarsi* 5-jointed, penult. joint bilobed.

Fam. 40 Lampyridæ. *Ant.* 11-jointed, approximating at the base, filiform, sometimes serrated, or pectinated: *max. palpi* much longer than *lab.*, slightly thickened at the tip: *mand.* acute: *head* concealed beneath the anter. margin of thorax: *elytra* wanting in some ♀s.: *tarsi* 5-jointed, penult. joint bifid.

Fam. 41 Telephoridæ. *Ant.* 11-jointed, rather remote at their origin, elongate, setaceous, rarely serrated: *max. palpi* largest, terminal joint ovate or hatchet-shaped: *head* exserted: *body* very soft: *elytra* long: *tarsi* 5-jointed, penult. joint bifid.

Fam. 42 Melyridæ. *Ant.* 11-jointed, short, setaceous, sometimes serrated: *palpi* nearly equal, somewhat filiform: *mand.* elongate: *head* small, deeply inserted in the *tho.*, which is wider: *body* rather firm; elongate: *tarsi* 5-jointed, joints all simple.

Fam. 43 Tillidæ. *Ant.* 11-jointed, the 3 or 4 terminal joints, especially the apical one, thickened: *head* inflexed, retractile within the *tho.* to the *eyes*, the latter lunate, the *tho.* and *body* elongate, soft: *tarsi* 5-jointed, penult. joint bifid.

Fam. 44 Ptinidæ. *Ant.* 11-jointed, filiform, elongate, simple, occasionally serrated or pectinated; or shortish, slightly thickened at the apex, with the 3 terminal joints suddenly elongated: *mand.* and *palpi* short, apical joint of latter longest: *head* rounded, deeply inserted in the *tho.*, which is generally produced in front: *tarsi* 5-jointed, short, simple.

Fam. 45 Lymexylonidæ. *Ant* 11-jointed, short, fusiform, or somewhat serrated: *max. palpi* of ♂ with branched appendages; *lab.* simple: *neck*

distinct, narrow: *mand.* short, stout: *body* linear, soft: *elytra* gaping at tip: *tarsi* 5-jointed, simple.

Fam. 46 BOSTRICHIDÆ. *Ant.* 10- 11-jointed; clavate, basal joint robust; club solid or perfoliated; interm. joints small: *palpi* short: *head* globose, deeply inserted in the *tho.*, which is frequently roughened in front: *body* cylindric: *tarsi* simple, 4 or 5-jointed.

Fam. 38. CEBRIONIDÆ *Stephens.*

cclxxxix. ATOPA *Body* oval: *ant.* simple: *tarsi* with basal joints heart-shaped; *pulvilli* wanting.

289 ATOPA *Paykull.*

1452 cervina *L.* ii. 602. — *Cur.* v. pl. 216. ♂ & ♀. — *Ste. M.* iii. 280. — Dusky, or black; clothed with a dense ochreous pubescence; minutely and thickly punctured: the punctures coarse and somewhat in lines on the elytra; tip of abdomen and claws testaceous: ♀ livid, with the elytra, legs, and antennæ testaceous. (L. 4⅓-5¼ l.) In hedges: generally distributed throughout England, Scotland, and Wales: 5-7. ∗.

Fam. 39. CYPHONIDÆ *Stephens.*

ccxc. SCIRTES *Body* hemispheric: *ant.* simple, rather short, 3d joint scarcely shorter than 2d: *hinder thighs* thickened, formed for leaping; their *tibiæ* with a long spine at the tip.

ccxci. CYPHON *Body* oval, rarely hemispheric: *ant.* rather long, 3d joint minute, much smaller than the 2d, 4th to 10th more or less serrated, rarely simple: *hinder thighs* slender, simple; *tibiæ* with a short spine at the tip; *tarsi* with 4th joint bilobed.

ccxcii. EUBRIA *Body* hemispheric: *ant.* shortish, slightly serrated: *hinder thighs* simple; *tarsi* filiform.

290 SCIRTES *Illiger.*

1453 hemisphæricus *L.* ii. 595. — *Pz. F.* xcvi. f. 7. — *Ste. M.* iii. 282. — Black; pubescent; obsoletely punctate and slightly shining: apex of thighs, tibiæ, tarsi, and base of antennæ pale testaceous. (L. 1¼-1¾ l.) Damp places: Battersea fields; Plaistow marshes; Windsor; Swansea: 5-6.

1454 pallescens *Ste. M.* iii. 282. — Pale-testaceous; densely pubescent; obscurely punctulate; antennæ and legs pale, hinder thighs with a black dot; eyes black. (L. 1¾-2 l.) Marshy districts: Battersea fields and Spitchweek Park: 6.

291 CYPHON *Paykull.*

1455 chrysomeloides *Wilkin.* — *Ste. M.* iii. 283. — Hemispheric; testaceous-red; pubescent: eyes black; scutellum large, oblong, 3-angular; elytra wide, coarsely punctured; legs and antennæ pale, the latter serrated. (L. 2¼ l.) Hedges: Coombe Wood: 6.

1456 melanurus *Fab. E.* i. 502. — *Ste. M.* iii. 283. — Ci. pallida *Pz. F.* viii. f. 7.? — Oblong-ovate, testaceous; pubescent; shining: eyes black; tip of elytra, and the abdomen, fuscous; base of antennæ testaceous, apex dusky. Sometimes the elytra are not tipped with fuscous. (L. 2-2¼ l.) Hedges, &c., widely, but rather sparingly distributed throughout the country: 5-8, ∗.

1457 lætus *Pz. F.* viii. f. 8. — *Ste. M.* iii. 284. — Oblong-ovate; testaceous; pubescent: crown dusky or black; elytra punctured, the suture and apex more or less broadly black; abdomen and breast also black.

(L. 2¼ l.) On oaks: Lyndhurst; Devonshire; Edinburgh; Swansea; Liverpool: 5-7.

1458 assimilis *Ste. M.* iii. 284. — Ovate, short; livid testaceous; pubescent: thorax somewhat orbiculate, dusky in the middle: eyes and tip of the antennæ blackish. (L. 1½-2 l.) Hedges: near London; S. Wales: 5-6.

1459 lividus *Fab. E.* ii. 501. — *Ste. M.* iii. 284. — Oval, livid-testaceous; pubescent: thorax short, transverse, dusky in the middle; eyes and tip of antennæ brown-black. (L. 2-2¼ l.) Damp hedges, &c., Battersea fields; Epping, &c.; abundant: ⊙, ✶.

1460 testaceus *Ste. M.* iii. 285. — Oval; eyes black: body entirely pale testaceous; pubescent, palest below; antennæ also testaceous. (L. 1¾-2 l.) Near London and Bristol: 5-6.

1461 obscurus *Ste. M.* iii. 285. — Elongate-ovate; testaceous; slightly pubescent: head brownish; eyes black; thorax nearly straight in front, disc dusky; elytra brown-black, coarsely and transversely wrinkled; legs and 3 basal joints of antennæ pale testaceous, tip of antennæ black. (L. 2½ l.) Near London: 6.

1462 marginatus *Fab. E.* i. 502. — *Ste. M.* iii. 285. — Ci. nimbata *Pz. F.* xxiv. f. 15. — Oval; fuscous-black; pubescent: lateral and anterior margins of the thorax, tibiæ, and base of antennæ testaceous: elytra sometimes with a testaceous streak on the disc. (L. 1½-2 l.) Oaks, alders, &c.: S. Wales, about Penllergare; Leeds; Ambleside; Liverpool; Edinburgh: 5-7.

1463 pubescens *Fab. E.* i. 502. — *Ste. M.* iii. 285. — Ovate; fuscous-black; pubescent: head black; thorax short, griseous, front and hinder margins waved; elytra livid griseous; margins of abdominal segments pale; thighs dusky; tibiæ, tarsi, and 2d and 3d joints of antennæ pale. (L. 1¼-1½ l.)

Var. Cr. dorsalis *Marsh.* i. 210. — *Ste. M.* iii. 285. — Dull red; suture black at the base, brownish towards the middle and dull red at tip. Abundant in damp hedges, amongst rushes, &c., throughout the country: 5-6.

1464 griseus *Fab. E.* i. 502. — *Ste. M.* iii. 285. — Ovate; fuscous-black; pubescent: mouth testaceous; thorax very short, front and hinder margins waved; elytra griseous, deep chestnut or fuscous; legs and 4 or 5 basal joints of antennæ pale. Sometimes pale testaceous, with the eyes and tip of the antennæ black. (L. 1-1¼ l.) Abundant every where: 5-6.

1465 Padi *L.* ii. 588. — *Ste. M.* iii. 287. — Ovate; fuscous-black; with a silken pile: elytra deeply punctured, the apex pale, but the extreme margin fuscous; tibiæ, tarsi, and 2d and 3d joints of antennæ pale-testaceous: elytra rarely immaculate. (L. 1-1¼ l.) Hedges: London district; Dover; Brighton; Swansea; Dumfriesshire: 5-6.

1466 ater *Ste. M.* iii. 287. — Short, ovate; fuscous-black, clothed with a dense silvery pile; elytra rather paler; joints of the antennæ griseous at the base, blackish at the apex. (L. ⅝ l.) Near Ripley and Hertford: 6.

1467 ochraceus *Ste. M.* iii. 287. — Oblong; entirely pale ochreous, pubescent; eyes black; tip of antennæ dusky. (L. ¾ l.) Ripley: 6.

1468 immunis *Ste. M.* v. 415. — Elongate-ovate; deep black; very glossy; slightly pubescent: head and thorax minutely punctured; elytra rather coarsely and thickly punctured; thighs and tibiæ pitchy; tarsi and mouth red. (L. 1¼ l.) Hedges near London; Ripley; Windsor: 6.

1469 Pini *Cur.* xiii. pl. 602. — Shining pitchy; thickly and minutely punctured; slightly pubescent: head broad, not concealed by the thorax, the latter very short; elytra ovate; shoulders very prominent; legs,

mouth, and 3 basal joints of antennæ ochreous; tarsi fuscous in the middle. (L. 1 l.) On larches: Scotland and Ireland: 6-7.

1470 angulosus *Marsh.* i. 228. — *Ste. M.* iii. 287. — Ferruginous, shining; head not concealed by the front of the thorax, the latter convex; elytra thickly punctured, and with a slight double ridge reaching nearly from the base to the apex; legs pale; antennæ slightly serrated, black with the base dull red: head and thorax sometimes dusky. (L. 1¾ l.) Coombe Wood: 6.

1471 dubius *Ste. M.* iii. 288. — Oblong; testaceous-red; pubescent: eyes black: head not concealed beneath the front of the thorax; elytra with a slightly dusky streak on the suture; body beneath dusky-black, margins of the segments and the tip testaceous; antennæ a little serrated, 2d and 3d joints elongate testaceous; rest black. (L. 1½ l.) Darenth Wood: 6.

292 EUBRIA *Ziegler.*

1472 palustris *Germ. M.* iii. 238. — *Westwood Int.* 246. pl. 25. f. 18. — Brown-black; slightly pubescent; elytra remotely striated; tarsi red; basal joint of antennæ and apex of tibiæ flavescent. (L. 1-1¼ l.) Found near Edinburgh: 6.

Fam. 40. LAMPYRIDÆ *Kirby.*

ccxciii. DRILUS *Head* not rostrated, exserted: *tho.* transverse, narrowed in front: *mand.* bidentate at the apex: ♂ with *ant.* pectinated: ♀ apterous, and destitute of elytra.

ccxciv. LAMPYRIS *Head* small, not rostrated, concealed beneath the *tho.*, which is semicircular in front, and has 2 pellucid spots: *mand.* bidentate at the apex: *eyes* large: *ant.* short, approximating: ♀ apterous; and destitute of elytra.

ccxcv. DYCTIOPTERUS *Head* small, produced in front into a rostrum: *tho.* somewhat 4-drate: *mand.* entire: *ant.* long, compressed; *elytra* in both sexes; ♀ winged.

293 DRILUS *Olivier.*

1473 flavescens *Oliv. E.* ii. pl. 1. f. 1.—*Ste. M.* iii. 289. *Wilson, Enc. Brit.* pl. 223. f. 9. 12. ♂. 8. ♀. — Black; pubescent; elytra yellowish, clothed with a griseous pile: ♀ somewhat cylindric, narrowed in front, fleshy, yellowish-orange; with 2 darker patches on the upper side of each segment of the body. (L. ♂ 2½-3½ l.: ♀ 8-10 l.) Grassy places: Darenth Wood; Dover: 6.

294 LAMPYRIS *of Authors.*

1474 noctiluca *L.* ii. 643. — *Samou.* pl. 3. f. 1. ♂: f. 2. ♀. — *Ste. M.* iii. 290. — Fuscous: eyes black; margins of thorax pale ash; elytra with 3 elevated lines, interstices roughly punctured; terminal segments of the abdomen beneath yellowish: ♀ wingless, fuscous, abdomen with a slight dorsal ridge; the extreme edges of the segments palish, the 3 terminal ones below pale. (L. 5-8 l.) Grassy places, heaths, &c.; generally distributed; but rather local: 6-7.

(1475‡ splendidula *L.* ii. 644. — *Pz. F.* xli. f. 8. — *Ste. M.* iii. 290. note. Fuscous: thorax with 2 transparent crescents in front: ♀ wingless, varied with ashy-white. (L. 6 l.) Not truly indigenous.)

295 DYCTIOPTERUS *Latreille.*

1476 minutus *Fab. E.* ii. 117. — *Cur.* vi. pl. 263. — *Ste. M.* iii. 291. — Black; pubescent: thorax foveolated; elytra blood-red, with 4 elevated

lines, interstices with a double row of punctures, producing a beautifully reticulated appearance; terminal joint of antennæ testaceous. (L. 3-4 l.) Woods: Coombe and Birch Woods; Tunbridge Wells; Norfolk; Devon; 7-9.

§ B. LYGISTOPTERUS *De Jean.*

(1477‡ sanguineus *L.* ii. 646. — *Pz. F.* xli. f. 9. — *Ste. M.* iii. 291. note. — Glossy-black; sides of the thorax and the elytra blood-red, the latter obsoletely striate and ribbed. (L. 4 l.) Improperly introduced as British.)

(1478† festivus *Don.* xvi. pl. 544. — *Ste. M.* iii. 291. note. — Black; the margins of the thorax and the elytra tawny-red; the tip of the latter black; antennæ pectinated. (L. 6 l.) Also improperly introduced as British.)

Fam. 41. TELEPHORIDÆ *Leach.*

ccxcvi. SILIS *Elytra* covering the *abdomen*, and concealing the *wings*: *tho.* transverse, sides straight, with a notch at the hinder angle: *ant.* serrated, 2d joint minute.

ccxcvii. TELEPHORUS *Elytra* covering the *abdomen*, and concealing the *wings*: *tho.* with sides entire; transverse, rounded in front: *ant.* with 2d joint generally shortest: *claws* not toothed.

ccxcviii. PODABRUS *Elytra* covering the *abdomen*, and concealing the *wings*: *tho.* with sides rounded, entire, transverse, the anterior margin truncate, hinder slightly emarginate: *ant.* long, 2d and 3d joints shortest: *head* narrowed behind: *eyes* very prominent: *claws* toothed.

ccxcix. RAGONYCHA *Elytra* covering the *abdomen*, and concealing the *wings*: *tho.* elongate, truncate behind, rounded in front; sides entire, nearly straight: *ant.* very long, 2d joint shorter than 3d: *eyes* rather prominent: *claws* denticulated.

ccc. MALTHINUS *Elytra* short, not covering the *abdomen*, nor concealing the *wings*: *palpi* with terminal joint ovate, acuminated at the tip: *ant.* long and slender: *tho.* somewhat transverse.

296 SILIS *Megerle.*

1479 ruficollis *Fab. E.* i. 299. — *Ste. M.* iii. 293. — Si. rubricollis *Charp. H. E.* 195. pl. 6. f. 7. — Black; mouth, thorax, and abdomen red; tibiæ pitchy. (L. 3-3½ l.) Grassy places: Epping; Whittlesea Mere; Swansea.

297 TELEPHORUS *De Geer.*

§ A. *Thorax* with sides nearly straight.

a. Ant. with 2d joint shorter than 3d.

1480 thoracicus *Oliv. E.* ii. 12. pl. 1. f. 2. — *Ste. M.* iii. 293. — Testaceous-red; crown, elytra, and tip of the antennæ black: legs pale red; tarsi obscure; breast pitchy. (L. 3½-4 l.) Hedges, &c.; generally distributed: 6.

1481 fulvicollis *Sahlberg. J. F.* viii. 118. — *Ste. M.* iii. 294. — Black: mouth testaceous; thorax red, sometimes with black marks; scutellum pitchy; legs, base of antennæ, and of palpi and abdomen red, each segment (but the apical) of the latter black at the base. (L. 3-3⅓ l) Also common in hedges, &c.: 6.

1482 affinis *Ste. M.* iii. 294. — Linear-elongate; testaceous-red; crown, thorax in front, elytra, breast, base of abdomen, and tip of antennæ black. (L. 3-3½ l.) In hedges, &c., common: London district: 6.

1483 ater *L.* ii. 649. — *Oliv. E.* ii. pl. 1. f. 3. — *Ste. M.* iii. 294. — Elongate; brown-black: thorax short, edged with red; mouth, tip of thighs, tibiæ wholly, and 3 basal joints of antennæ yellowish-red. (L. 3-3½ l.) In damp hedges, common: 6.

1484 flavilabris *Fall. M. C.* i. 12. — *Ste. M.* iii. 295. — Oblong; black: mouth, 3 basal joints of antennæ, the margin of the thorax, tibiæ, and apex of the abdomen pale testaceous-red; palpi fuscous: apex of thighs sometimes ochreous. (L. 3-3½ l.) Hedges, flowers, &c.: London district; Swansea; Edinburgh; Waterford, &c.: 6.

1485 pulicarius *Oliv. E.* ii. 26. pl. 3. f. 20. — *Ste. M.* iii. 295. — Oblong; black: mandibles, margins of the thorax, especially the sides, which are broadly edged, sides and apex of the abdomen, and claws testaceous; basal joints of the antennæ ochreous beneath. (L. 2-2½ l.) Hedges: N. of England and Scotland: 6.

b. Ant. with 2d and 3d joints nearly of equal length.

1486 lateralis *L.* ii. 648. — *Ste. M.* iii. 296. — Black: head in front, antennæ beneath, thorax entirely, margins of the abdomen and the legs testaceous-red; outer edge and tip of the elytra yellowish, disc of the latter with an ashy pile; hinder femora mostly with a dusky ring in the middle. (L. 2-2½ l.) Hedges: Coombe Wood; Epping; Bristol; Southend: 6.

1487 marginatus *Ste. M.* iii. 296. — Deep black, pubescent: head in front, base of the antennæ, margins of the thorax and of the abdomen testaceous-red; outer edge and tip of the elytra yellowish; apex of thighs and the tibiæ pale testaceous; tarsi obscure. (L. 2½ l.) Hedges: Darenth Wood and Hertford: 6.

1488 testaceus *L.* ii. 649. — *Mart. C.* pl. 29. f. 6. — *Ste. M.* iii. 296. — Short; black; slightly glossy: thorax 4-drate, the lateral margins testaceous; elytra, tibiæ, and base of antennæ pale ochreous; palpi fuscescent. (L. 2-3 l.) Hedges, flowers, &c.: every where: 6.

1489 ochropus *Ste. M.* iii. 296. — Ca. testacea *Pz. F.* lvii. f. 4. ? — Black, slightly shining: thorax rather elongate 4-drate, with the lateral margins broadly testaceous; elytra, legs entirely, palpi and base of antennæ pale ochreous. (L. 2½-3 l.) Hedges: London district; New Forest; Devonshire; Swansea; Norfolk, &c.: 6.

§ B. *Thorax* with the sides distinctly rounded.

a. Ant. with 2d joint scarcely longer than 3d.

1490 clypeatus *Ill. K.* i. 299. — *Ste. M.* iii. 298. — Ca. nivea *Pz. F.* lvii. f. 5. — Above pale, with the crown, and the disc of the thorax black, margins whitish, the black patch narrowed in front; legs pale, the hinder pair clouded with fuscous. (L. 3½-4 l.) Dover; Hastings; Suffolk; and Swansea: 6.

1491 dispar *Fab. E.* i. 295. — *Ste. M.* ii. 299. — Black: thorax smooth, spotless red; elytra fuscous-black; sides of the abdomen and the anterior legs red; tip of middle thighs and middle of their tibiæ black; tip of hinder thighs and their tibiæ and tarsi wholly black; 2 or 3 basal joints of antennæ testaceous. (L. 5-6 l.) Rare near London; common in Scotland, and near Swansea: 6.

1492 nigricans *Fab. E.* i. 296. — *Ste. M.* iii. 299. — Fuscous black: mouth, base of the antennæ, margins of the thorax and of the abdomen, and the legs pale-testaceous; tip of hinder thighs and their tibiæ black: sometimes all, or interm. and hinder thighs only, are tipped with black:

and the thorax is occasionally wholly red. (L. 5-6 l.) Woods and hedges; common: 6, ✶.

1493 discoideus *Ste. M.* iii. 299. — Fuscous-black: mouth, base of antennæ, margin of the thorax and of the abdomen and the legs testaceous-red; hinder thighs with a black dot at the tip, their tibiæ blackish at the base. (L. 4-5 l.) London district: common: 6.

1494 obscurus *L.* ii. 648. — *Oliv. E.* ii. pl. 2. f. 10. — *Ste. M.* iii. 299. — Black: sides of the thorax bright pale red: the margin and apex of the abdomen, the mandibles, and the 2 basal joints of the antennæ, pale dull-red: legs wholly black. (L. 4½-6 l.) Trees; chiefly N. of England and in Scotland: 6.

b. Ant. with 2d joint shorter than 3d.

1495 cyaneus *Cur.* vi. pl. 215. — *Ste. M.* iii. 300. — Shining black; pubescent: head in front, thorax and abdomen red; elytra cyaneous, with 3 slightly raised lines; basal joint of antennæ red beneath. (L. 6-8 l.) Trees: Midgley Moor, &c., Yorkshire; Newbiggin Wood, Cumberland; S. and central counties of Scotland: 6.

(1496 † violaceus *Pk. F.* i. 260. — *Ste. M.* iii. 300 note. — Black: head, thorax, abdomen and legs red; elytra cyaneous; basal joint of antennæ pale: crown dusky in ♂. (L. 7 l. ?) Improperly recorded as British.)

1497 pellucidus *Fab. E.* i. 296. — *Ste. M.* iii. 301. — Black; head in front, thorax, abdomen and legs red; hinder tibiæ and extreme tip of their thighs black. (L. 5-6 l.)

Var.? Te. cantianus *Ste. M.* iii. 301. — Larger, with the base of the abdomen black. Hedges, &c.: London district; Netley; N. Wales and Swansea; Edinburgh, &c.: 6.

1498 fuscus *L.* ii. 647. — *Barb. G.* pl. 6. f. 3. — *Ste. M.* iii. 301. — Black: thorax punctate, red, with a black spot on the anterior margin; head in front, sides of the abdomen and 3 basal joints of antennæ red; legs brown-black. (L. 7-8½ l.) Hedges; Hertford abundantly; Hyde Park; Netley; Glanvilles' Wootton; Swansea; Edinburgh: 6.

1499 rusticus *Gyll.* i. 330. — *Ste. M.* iii. 302. — Te. fuscus *Oliv. E.* ii. pl. 1. f. 1. — Black: thorax punctate, red, with a central black spot; head in front, sides of the abdomen, base of the antennæ and of the thighs red. (L. 5-7 l.) Hedges, &c.; abundant within the metropolitan district; generally distributed throughout Scotland: 6.

1500 lividus *L.* ii. 647. — *Barb. G.* pl. vi. f. 8. — *Ste. M.* iii. 302. — Pale testaceous-red; thorax spotless: eyes, a dot on the forehead, the breast and base of the abdomen, the tip of the hinder thighs and the hinder tibiæ black; apex of the antennæ brownish. (L. 5-7 l.) Hedges, flowers, &c.: extremely abundant throughout England; less so in Scotland: 5-6, ✶.

1501 nigrifrons *Ste. M.* v. 415. — Pale testaceous-red; thorax spotless: forehead, apex of antennæ, 4 hinder tibiæ and tarsi, and hinder thighs at the tip, black; abdomen black, with a pale margin. (L. 4-5 l.) Gardens: near London: 6.

1502 confinis *Ste. M.* iii. 302. — Testaceous-red; thorax spotless: breast, and base of abdomen, and eyes black; legs wholly pale testaceous. (L. 4½-5 l.) Hedges: London district and near Bristol; 6.

1503 testaceipes *Ste. M.* iii. 303. — Pale testaceous-red, thorax spotless: eyes black; breast and base of the abdomen pitchy; elytra testaceous-brown; legs pale testaceous; each joint of antennæ tipped with fuscous. (L. 5 l.) Hedges; Ripley and Epping: 6.

1504 lituratus *Gyll.* i. 348. — *Ste. M.* iii. 303. — Above testaceous; thorax

with several angulated black united marks behind; eyes, breast and base of abdomen black, edges of the segments of the latter, and its apex, testaceous; elytra sometimes fuscescent; legs testaceous, thighs generally with a black line; tibiæ with a dusky spot near the apex, joints pale. (L. 4½-5 l.) Walsam meadows, near Ripley; Bristol; Glanvilles' Wootton; Swansea: 6.

1505 maculicollis *Ste. M.* v. 415. — Pale testaceous; thorax reddish, with a few irregular black marks on the disc; crown with 2 angulated spots, and base of abdomen black; antennæ dusky at the tip. (L. 5 l.) Ripley: 6.

1506 griseipennis *Ste. M.* v. 416. — Pale testaceous-red; thorax spotless: eyes black; elytra and abdomen pale griseous; legs and antennæ pale. (L. 5 l.) Hedges: London district; Berkshire: 6.

1507 rufus *L.* ii. 647. — *Ste. M.* iii. 303. — Ca. livida *Pz. F.* lvii. f. 3. — Testaceous-red; thorax somewhat 4-drate, spotless: eyes, wings, breast, and anterior segments of the abdomen at the base, black; legs immaculate; tarsi obscure: — breast and abdomen rarely concolorous. (L. 3-4½ l.) Hedges: S. of England, and S. Wales: 5-6.

1508 bicolor *Fab. E.* i. 303. — *Pz. F.* xxxix. f. 13. — *Ste. M.* iii. 304. — Testaceous-red; eyes, wings, breast, base of the abdomen and four hinder knees black; antennæ dusky at the tip. (L. 2½-3½ l.) Gardens, hedges, &c.: S. of England and S. Wales: 5-6.

298 Podabrus *Fischer.*

1509 alpinus *Pk. F.* i. 259. — *Ste. M.* iii. 304. — Testaceous: crown black; eyes black; thorax faintly notched behind; disc with a black spot or cloud; elytra lurid-testaceous, or brown-black, roughly punctured; abdomen dusky-black, sides and edges of the segments and its tip testaceous; tarsi dusky: hinder thighs and tibiæ sometimes blackish. (L. 6-7 l.) Trees; Coombe, Darenth, and Dulwich Woods; in Dorset, &c.: 6-7.

299 Ragonycha *Eschscholtz.*

1510 pilosa *Pk. F.* i. 264. — *Ste. M.* iii. 298. — Dusky-testaceous; pubescent: eyes prominent, black; thorax somewhat 4-drate, margined; elytra sometimes ochreous-brown; abdomen with the apex pale; antennæ longish, fuscescent, with the base pale. (L. 4-5 l.) Hedges: Ripley, Hertford; Darenth and Dulwich: 6.

1511 melanura *Fab. E.* i. 302. — *Oliv. E.* ii. pl. 2. f. 9. — *Ste. M.* iii. 297. — Pale red: thorax elongate, narrowed in front; antennæ, tarsi, and tip of the elytra black. (L. 3½-4½ l.) Hedges and flowers; every where: 6-8, ✳.

1512 fuscicornis *Oliv. E.* ii. 11. pl. 1. f. 4. — *Ste. M.* iii. 297. — Black: thorax somewhat 4-drangular, reddish; elytra pale ochreous, with the tip more or less fuscous; legs pale. (L. 3-3½ l.) Hedges: Coombe Wood; Hertford; Hants; Sussex; Suffolk; Norfolk, &c.: 5-6.

1513 pallida *Fab. E.* i. 299. — *Oliv. E.* ii. pl. 2. f. 9. — *Ste. M.* iii. 297. — Shining black: base of the antennæ, elytra entirely, and legs pale ochreous; thorax narrow, truncate behind. (L. 3-3¾ l.) Trees and hedges: London district; Oxford; Swansea; Carlisle; Edinburgh, &c.: 5-6.

300 Malthinus *Latreille.*

§ A. *Head* rhomboidal: *eyes* very prominent.

1514 flaveolus *Pk. F.* iii. 446. — *Ste. M.* iii. 305. — Te. minimus *Oliv. E.* ii. pl. 1. f. 6. — Yellow: crown black; thorax dull yellow, disc with

2 fuscous spots; elytra fuscous, tip rounded, sulphur yellow; legs dusky yellow; tip of antennæ dusky. (L. 2½ l.) Oaks, &c.: London district; Swansea: 5-6.

1515 immunis *Marsh.* i. 374. — *Ste. M.* iii. 305. — Yellow: crown black, very narrow: thorax light yellow, spotless; elytra pale fuscous, tip rounded, sulphureous. (L. 2¼ l.) On trees: London district: 5-6.

1516 humeralis *Marsh.* i. 374. — *Ste. M.* iii. 306. — Yellow; crown black: thorax bright yellow, disc fuscous, with a pale dorsal line; elytra fuscous, with the base pale yellow, and the tip sulphureous; abdomen black. (L. 1¾-2 l.) Trees: London district; Bristol: 5-6.

1517 luteolus *Kirby.* — *Ste. M.* iii. 306. — Ochreous-yellow: crown with a black band; thorax with a fuscous cloud towards the anterior and posterior edge of the disc; elytra pale ochreous, with the tip sulphureous. (L. 2-2¼ l.) Trees; London district; Dover; Devon; Suffolk: 5-6.

1518 fasciatus *Oliv. E.* ii. 18. pl. 4. f. 14. — *Ste. M.* iii. 306. — Black: mouth and spot on the front reddish; sides of thorax red; elytra punctate-striate, dusky-black, with a pale-yellowish band in the middle, and a round sulphureous spot at the tip; 4 anterior legs yellow; hinder pair dusky, with the knees paler. (L. 1½-1¾ l.) Trees: Dover; New Forest; Netley; Norfolk: 5-6.

1519 collaris *Lat. G.* i. 262. — *Ste. M.* iii. 307. — Yellowish: crown and disc of thorax dusky; elytra smooth, fuscescent, base rather obscure, apex bright yellow; antennæ dusky at tip. (L. 1¾-2 l.) London; Devonshire; Bristol: 5-6.

1520 biguttulus *Pk. F.* iii. 445. — *Oliv. E.* ii. pl. 2. f. 12. — *Ste. M.* iii. 307. — Black; punctate: mouth yellowish; thorax edged with testaceous; elytra as long as the abdomen, with 2 or 3 obscure striæ towards the suture, dull black, tip narrowed and sulphureous; margins of the abdominal segments and its apex yellowish; thighs yellow; tibiæ, tarsi, and tip of antennæ dusky. (L. 1¾-2¼ l.) Oaks, &c.: throughout the London district; Edinburgh, &c.: 5-7.

1521 frontalis *Marsh.* i. 363. — *Ste. M.* iii. 307. — Head black, slightly brassy; forehead yellow: thorax dusky; elytra fuscous, spotless; legs and base of antennæ dull testaceous. (L. 1½ l.) Trees: London district; Swansea: 5-6.

1522 immaculatus *Kirby.* — *Ste. M.* iii. 307. — Black: elytra fuscescent, tip spotless; anterior legs dull testaceous, hinder fuscous; antennæ dusky, testaceous at base. (L. 1½-1¾ l.) Trees: London district; Dorset: 6.

1523 Pinicola *Ste. M.* iii. 308. — Deep black: elytra brownish, tip spotless; legs brown-black, joints paler; antennæ fuscous, the base dull testaceous beneath; mouth sometimes pitchy. (L. 1¾-2 l.) Pines and firs: Ripley: 6.

§ B. *Head* rounded: *eyes* small.

1524 biguttatus *L.* ii. 648. — *Marsh. C.* pl. 29. f. 5. — *Ste. M.* iii. 308. — Black: head large, a little narrowed behind; thorax shortish, smooth, base and apex narrowly edged with reddish; elytra short, dusky, tip sulphureous; base of the thighs and of the antennæ beneath yellowish. (L. 2-2½ l.) Woods: London district; Dover; Swansea: 5-6.

1525 nigricollis *Kirby.* — *Ste. M.* iii. 308. — Black: head wide; thorax with the edges finely bordered with yellow; elytra short, fuscous, tip yellow; legs and antennæ entirely fuscous. (L. 2-2¼ l.) Woods: London district; Dover; Suffolk; Devon: 5-6.

1526 sanguinicollis *Fall. M. C.* 15.? — *Ste. M.* iii. 309. — Black: thorax

smooth, red, spotless; as wide as the head; elytra linear, roughly punctured, short, fuscous, tip sulphureous; margins of abdominal segments, and its tip, tibiæ, tarsi and base of antennæ yellowish. (L. 2 l.) Trees: London district; Edinburgh, &c.: 5-6.

1527 fulvicollis *Kirby.* — *Ste. M.* iii. 309. — Black: thorax tawny, spotless, smooth; elytra short, rather rough, fuscous, with the tip yellow; legs entirely and base of antennæ pale yellow. (L. 2 l.) Trees, &c.: London district and Suffolk: 5-6.

1528 minimus *L.* ii. 649. — *Ste. M.* iii. 309. — Black: head and thorax smooth, the anterior and posterior (and sometimes the lateral) edges yellow; elytra short, dusky, tip yellow; abdominal segments edged with whitish, apex yellow in the ♂; base of thighs pale. (L. 1½-2¼ l.) Trees: London district: 5-6.

1529 cognatus *Ste. M.* iii. 309. — Black: forehead with a yellow dot; thorax ochreous-yellow, with a black spot on the disc; elytra fuscous, with a small yellow spot at the tip; legs fuscous; antennæ pale at the base. (L. 2-2¼ l.) Woods: London district; Swansea: 5-6.

1530 melanocephalus *Marsh.* i. 374. — *Ste. M.* iii. 310. — Black: head spotless; thorax yellow, with a glossy central black spot; tip of the elytra yellow; thighs fuscous; tibiæ pale; antennæ fuscous, the base pale. (L. 1¾-2 l.) Trees: London district; Bristol; Swansea: 5-6.

1531 concolor *Kirby.* — *Ste. M.* iii. 310. — Black: thorax shining, spotless; elytra dull fuscous, longish, spotless; tibiæ and base of antennæ dull fuscous, or palish. (L. 1½-1¾ l.) Trees: London district; Bristol; Swansea: 5-6.

1532 brevicollis *Pk. F.* i. 269. — *Ste. M.* iii. 310. — Black: mouth fuscous; thorax very short, transverse, flat, shining; elytra linear, thickly punctulate, spotless; body and legs fuscous. (L. ¾-1¼ l.) Trees: Wandsworth Common; Woodland, Devon: 5-6.

Fam. 42. MELYRIDÆ *Leach.*

cccl. MALACHIUS *Palpi* filiform, narrowed at the tip: *head* transverse, deeply inserted into the *tho.*, which has a retractile *vesicle* in front on each side; and the *abdomen* is furnished with a similar appendage at the base.

ccclii. APLOCNEMUS *Palpi* unequal, slightly thickened, the terminal joint a little acute; pilose: *ant.* short, slightly serrated within, joints transverse: *body* short, oblong: *elytra* dilated behind the middle: *legs* short, stoutish; *tarsi* simple.

cccliii. ENICOPUS *Palpi* rather thickened at the apex, and obliquely truncate: *ant.* rather short, serrated, joints short: *body* oblong, very pilose: *elytra* parallel: hinder *thighs* robust; ♂ with hinder *tibiæ* bent; anter. and poster. *tarsi* with a long, recurved basal spine.

cccliv. DASYTES *Palpi* thickened at the tips, the terminal joint truncate: *ant.* rather long, joints elongate, occasionally serrated: *body* narrow, linear, pilose: *elytra* slightly gaping at the apex: *legs* long; *claws* with a membranous process beneath.

ccclv. DOLICHOSOMA *Palpi* short, slightly thickened at the tip, obliquely truncate: *ant.* longer than the head and thorax, slender, faintly serrated within: *body* very slender and elongate; *elytra* acute, scaly: *head* wider than *tho.*, which is elongate and somewhat cylindric: *legs* long, slender.

301 MALACHIUS *Fabricius.*

1533 æneus *L.* ii. 648. — *Wood.* i. pl. 20. — *Ste. M.* iii. 311. — Brassy-green; head reddish-yellow in front: elytra blood-red, with the base and half the suture brassy-green; thorax with its anterior angles blood-red;

♂ with 2d and 3d joints of antennæ produced within. (L. 4-4¾ l.) Gardens and flowery banks: generally distributed in the S. of England: less common in S. Wales and in Scotland: 5-6, ✶.

1534 bipustulatus *L.* ii. 648. — *Don.* xv. pl. 528. f. 2. — *Ste. M.* iii. 312. — Green or blue-brass; pilose: mouth ochreous: elytra with an ovate blood-red spot on the inner angle of the apex; antennæ black, with 2d and 3d joints short; ♂ with basal joints dilated. (L. 2½-3½ l.) Grassy places: generally distributed in England and S. Wales: 5-6, ✶.

1535 laticeps *Ste. M.* v. 416. — Brassy-green; pilose: head much wider than the thorax, the latter with the anterior angles red; mouth pale testaceous; elytra with a large blood-red spot at the tip; antennæ black, the 3d joint short; ♂ with basal joints much dilated. (L. 3½ l.) Trees: Ripley: 6.

1536 viridis *Fab. E.* i. 307. — *Oliv. E.* ii. pl. 3. f. 11. — *Ste. M.* iii. 312. — Blue-green, or violaceous, slightly brassy, pilose: mouth ochreous; elytra with a minute blood-red spot at the tip, or spotless; antennæ black, the first joint short, 2d very short, 3d long, obscure; ♂ with basal joint dilated. (L. 1¾-2½ l.) On flowers, &c.: Darenth Wood; Dulwich; Cobham; Cambridge; Swansea; Carlisle: 6.

1537 marginellus *Fab. E.* i. 307. — *Ste. M.* iii. 313. Ma. 2-spinosus *Cur.* iv. pl. 167. ♂. — Green or bluish; pubescent: front ochreous: thorax with the lateral margins pale blood-red; elytra with an ovate red spot at the apex, the latter in the ♂ with a concolorous spine within; legs and antennæ dull green, ♂ with basal joints dilated. (L. 2½-3 l.) Apparently confined to the coast: Norfolk; Suffolk; Essex; Kent; Devon: 6.

1538 fasciatus *L.* ii. 648. — *Don.* xv. pl. 528. f. 1. — *Ste M.* iii. 311. — Brassy-black; glabrous: mouth reddish; elytra with a band a little before the middle, not extending to the suture, and the tip pale red; margins of abdominal segments pale red. (L. 1½-1¾ l.) Hedges, &c.: London district; Dorset; Carlisle; S. Wales: 6. ✶

1539 bituberculatus *Ste. M.* iii. 311. — Brassy-black, glabrous: mouth yellowish; elytra fuscous, with a narrow band rather before the middle, not extending to the suture, and the apex reddish-yellow, the latter with 2 tuberculous processes. (L. 1½-1¾ l.) Hedges, &c.; with the preceding species: 6.

1540 sanguinolentus *Fab. E.* i. 307. — *Oliv. E.* ii. pl. 3. f. 18. — *Ste. M.* iii. 314. — Linear elongate, glabrous: brassy-black; lateral margins of the thorax, and the elytra, entirely pale blood-red, the latter sometimes with a dusky cloud towards the scutellum. (L. 2-2½ l.) Aquatic plants: Whittlesea and Bexley Meres; Crwmlyn Bog; Ealing: 6.

1541 ruficollis *Fab. E.* i. 307. — *Ste. M.* iii. 314. — *Mag. H. N.* (*Bab.*) vii. 378. f. 49. b. c. — Brassy-black, glabrous: thorax entirely red, tip of the elytra pale red; tibia and tarsi pale reddish. ♂ (Ma. bipunctatus *Ste. M.* v. 416.) with 2 impressed black points at the apex of the elytra. (L. 1½-2 l.) Hedges: Whittlesea Mere; Monk's Wood, and Norfolk: 6-7.

1542 † thoracicus *Fab. E.* i. 308. — *Oliv. E.* ii. pl. 2. f. 10. — *Ste. M.* iii. 314. — Blue-black; glabrous: thorax entirely red; elytra spotless; hinder tibiæ pale red. (L. 1¾ l.) New Forest: 6.

1543 rubricollis *Marsh.* i. 371. — *Ste. M.* iii. 315. — Ma. ruficollis *Oliv. E.* ii. pl. 2. f. 9. — Black; pilose: mouth ochreous; thorax wholly red; elytra with a minute red dot at the tip; margins of the abdominal segments reddish: ♂ with the elytra obliquely truncate, from the margin to the suture. (L. 1-1¾ l.) Grassy places: Hertford; Ripley; Dulwich; Bristol: 6.

1544 pulicarius *Fab. E.* i. 708. — *Pz. F.* x. f. 4. ♂. — *Ste. M.* iii. 315. —

Dull brassy-green: mouth ochreous; sides of the thorax red; elytra pubescent, apex tawny red; margins of abdominal segments slightly edged with red; tarsi pale; antennæ pale, with a black line above: ♂ with the tip of the elytra obliquely truncate. (L. 1½-2 l.) Grassy places: Peckham: gardens, Walworth: 6.

(1545 † pedicularius *Oliv. E.* ii. 8. pl. 1. f. 13. — *Ste. M.* iii. 315. note. — Black: thorax margined, spotless; tip of the elytra red; antennæ filiform. (L. 1½ l.?) Improperly recorded as British.)

1546 productus *Oliv. E.* ii. 13. pl. 7. f. 17. ♂. — *Ste. M.* iii. 315. pl. xix. f. 9. ♀. — Shining black: elytra with a yellowish-red spot at the apex; base of the antennæ and the legs yellow, base of thighs black; ♂ with the tip of the elytra retuse, with a black spine near the suture; hinder legs black, apex of tibæ pale. (L 1-1½ l.) Bristol; Devonshire and Windsor: 6.

1547 † equestris *Fab. E.* i. 309. — *Pz. F.* x. f. 6. — *Ste. M.* iii. 316. — Brassy-green: elytra bright red, with a 3-angular spot at the base, and an oblique band rather behind the middle brassy-black; thighs red; tibiæ and tarsi pale. (L. 2 l.) Bristol: 6.

1548 † humeralis *Leach* — *Ste. M.* iii. 316. — Brassy-green: elytra red at the base, brassy at the tip. (L. 1¾ l.) W. of England.?

302 Aplocnemus *Stephens.*

1549 impressus *Marsh.* i. 226. — *Ste. M.* iii. 317. — Brassy-black, with flavescent hairs: very thickly and coarsely punctured, the punctures somewhat confluent and irregular on the elytra; tibiæ black, with the base and and apex pale; or entirely pale; tarsi pale beneath. (L. 2½-3 l.) Under bark of elms: London district; New Forest; Carlisle; Dorsetshire, &c.: 3-5.

(1550† floralis *Oliv.* ii. pl. 3. f. 13.? — *Ste. M.* iii. 317. — Deep black; with a fuscous pile; spotless: thorax punctured, with a fovea on each side at the base; and a longitudinal marginal furrow; elytra rugged across, with 2 or 3 obscure striæ. (L. 2 l.?) Not rightly ascertained to be indigenous.)

(1551‡ 4-pustulatus *Fab. E.* ii. 59. — *Oliv. E.* ii. 10. pl. 1. f. 2. — Black; hairy: elytra with 2 red spots, one at the base, the other near the apex; the latter sometimes wanting. (L. 2-2¼ l.) Said to have been taken in Devonshire.)

303 Enicopus *Stephens.*

(1552‡ ater *Fab. E.* ii. 71. — *Oliv. E.* ii. pl. 2. f. 8. — *Ste. M.* iii. 318. — Black; densely pilose: deeply punctured, the punctures somewhat dispersed in striæ on the elytra; head with an ovate rough impression: ♂ with a long incurved spine at the base of the 1st joint of the tarsi, and the hinder tibiæ thickened and bent. (L. 3½ l.) Said to occur in Devonshire: 6.)

304 Dasytes *Paykull.*

1553 niger *L.* ii. 564. — *Pz. F.* xcvi. f. 9. — *Ste. M.* iii. 319. — Oblong; black; clothed with erect fuscous hairs, finely punctured: thorax with an impression on each side and a furrow parallel with the lateral margin; antennæ obtusely serrated. (L. 2 l.) Windsor; Petworth, and New Forest: 6.

1554 cœruleus *Fab. E.* ii. 73. — *Pz. F.* xcvi. f. 10. — *Ste. M.* iii. 319. — Elongate; hairy; above blue or green: thorax deeply sprinkled with punctures; lateral and hinder margins rounded; elytra obsoletely rugose-

punctate, the apex rounded; antennæ black. (L. 2½-3 l.) Flowers on the coast: Barton Cliff; Christchurch; Herne Bay: 6.

1555 viridis *Rossi. M.* i. 35. — *Ste. M.* iii. 319. — Me. cyaneus *Oliv. E.* ii. pl. 2. — Elongate, hairy; rich green, rarely bluish; thorax thickly and rather coarsely punctured, narrowed and angulated behind; elytra linear, deeply rugose-punctate, acuminated at the apex; legs black, tinted with brassy; antennæ brassy-green. (L. 3. l.) Flowers: coast of Cornwall.

1556 æratus *Ste. M.* iii. — Elongate; brassy or bluish-black, pilose: thorax somewhat cylindric; elytra rather dilated beyond the middle, thickly punctured, tip obtuse; legs and antennæ black. (L. 2-2¼ l.) In hedges, amongst nettles: generally, but rather sparingly, distributed throughout England and Wales; also in Dumfriesshire: 6.

1557 serricornis *Kirby.* — *Ste. M.* iii. 320. — Linear-elongate, brassy-black; pubescent: thorax somewhat transverse; elytra linear-oblong, slightly punctate; legs and antennæ black, the latter rather deeply serrated at the tip. (L. 2. l.) In hedges: near London, and in Suffolk: 6.

1558 flavipes *Oliv. E.* ii. 12. pl. 3. f. 16. — *Ste. M.* iii. 320. — Linear-elongate, greenish-black; pubescent; finely punctured: thorax with the sides and base rounded; tibiæ entirely, and anterior thighs, and base of antennæ pale testaceous. (L. 1½-2 l.) In thick hedges: London district; Glanville's Wootton; Swansea: 6.

1559 pallipes *Ill. K.* i. 83. — *Pz. F.* vi. f. ii. — *Ste. M.* v. 416. — Somewhat brassy, clothed with griseous pile: legs entirely pale; tip of antennæ black. (L. 2½ l.) Hedges, near London: 6.

305 Dolichosoma *Stephens.*

1560 linearis *Fab. E.* ii. 73. — *Ste. M.* iii. 320. pl. xix. f. 4. — Very slender, filiform, elongate; pale greenish, opaque; very thickly punctured: front foveolated; elytra obsoletely striated; abdomen glossy-brass; legs black, brassy on the thighs; antennæ black, 2d joint testaceous. (L. 2-3 l.) On the coast; Wrabness, Essex; Deal and Southend: 6.

Fam. 43. TILLIDÆ *Leach.*

cccvi. Tillus *Ant.* nearly filiform, serrated: *palpi* unequal; *lab.* filiform; *max.* with terminal joint hatchet-shaped: *tho.* cylindric; *body* elongate: *tarsi* distinctly 5-jointed.

cccvii. Tilloidea *Ant.* somewhat filiform, serrated: *palpi* irregular; *lab.* filiform; *max.* with apical joint hatchet-shaped: *tho.* nearly heart-shaped: *body* elongate, cylindric, convex: *tarsi* with 5 distinct joints.

cccviii. Opilus *Ant.* pilose, clavate, intermediate joints long: *palpi* all terminated by a hatchet-shaped joint: *body* elongate, flattish: *tho.* conic-cylindric: rather narrowed behind: *tarsi* 5-jointed, basal joint minute.

cccix. Thanasimus *Ant.* gradually clavate, the 3 terminal joints forming the club: *palpi* unequal; *lab.* with terminal joint large, hatchet-shaped; *max.* minute: *tho.* somewhat heart-shaped: *body* wide, pilose, flattish: *tarsi* 5-jointed, basal joint small.

cccx. Clerus *Ant.* slender, the 3 terminal joints abruptly larger, forming an ob-3-angular club, with the apical joint acutely produced within: *max. palpi* filiform; *lab.* with terminal joint hatchet-shaped; *eyes* notched: *body* pilose: *tarsi* 5-jointed, basal joint minute.

cccxi. Necrobia *Ant.* shortish, 2d joint nearly globose, the 3 apical joints forming an ob-3-gonal club, with the apical joint as large as the other 2, square and obtuse within: *palpi* nearly cylindric, terminal joint obconic: *tarsi* distinctly 5-jointed; *claws* entire.

cccxii. Corynetes *Ant.* rather long, 2d joint somewhat conic, the 3 apical

joints forming a rather slender club, the 2 basal joints rather longest; the terminal 1 acuminate within: *palpi* with the apical joint thickened, obconic: *tarsi* distinctly 5-jointed; *claws* with a small tooth at the base.

306 TILLUS *Olivier.*

1561 elongatus *L.* ii. 603. — *Oliv. E.* ii. 4. pl. 1. f. 1. — *Ste. M.* iii. 322. — Villose; head black; thorax bright red, with the front edge black; elytra bluish-black; faintly punctate-striate: antennæ and legs black. ♂ Ti. ambulans *Fab. E.* i. 282. — *Ste. M.* iii. 322. — with the thorax glossy black. (L. 2½-4 l.)

Var. Ti. bimaculatus *Don.* xii. pl. 411. f. 2. ♂. — with a pale testaceous spot on the disc of the elytra: both sexes occur. Hedges: Camberwell; Darenth; Coombe; Hertford; Windsor; Hereford; Devon; Swansea, &c.: 5-7.

307 TILLOIDEA *Laporte.*

1562 unifasciata *Oliv. E.* iv. 17. pl. 2. f. 21. — *Cur.* vii. pl. 267. — *Ste. M.* iii. 322. — Pilose; black: elytra punctate-striate, the base red, apex black, with an incurved white band a little behind the middle, not always touching the suture. (L. 3-3½ l.) On palings: Hertford occasionally; Windsor: 6.

308 OPILUS *Latreille.*

1563 mollis *L.* ii. 621. — *Samou.* pl. 12. f. 1. — *Ste. M.* iii. 323. — Elongate; pubescent; fuscous: forehead and anterior edge of thorax testaceous; elytra with an irregular oblique pale band at the base, a 2d distinct, angulated across rather behind the middle, not touching the suture, and the apex pale; breast pitchy; abdomen reddish; legs pale testaceous; thighs with a dusky ring near the tip; antennæ dull red. (L. 3-5 l.) Hedges: Coombe and Darenth Woods; Copenhagen fields; Holloway; Kew; Windsor, &c.: 3-6.

1564 univittatus *Rossi M.* i. 44. — Op. fasciatus *Cur.* vi. pl. 270. — *Ste. M.* iii. 324. — Fuscous-black, villose; deeply punctured: thorax with a dorsal furrow; elytra with a white band across rather behind the middle; legs dull red, with the base of the thighs black; antennæ dusky, dull red at the base. (L. 2½-3 l.) Hedges near Winchmore Hill: 6.

309 THANASIMUS *Latreille.*

1565 formicarius *L.* ii. 620. — *Don.* vii. pl. 271. f. 2. — *Ste. M.* iii. 325. — Pilose; red: head and anterior edge of thorax black; elytra black, the base red, towards the apex 2 snowy-white bands, the anterior flexuous, the other broad, and angular behind the middle; tarsi pitchy; terminal joint of antennæ rusty at the tip; breast and thorax beneath sometimes black. (L. 3-4½ l.) Under bark of decaying trees: Coombe Wood; Copenhagen fields; Cambridge; Windsor; Dublin, &c.: 4-6.

310 CLERUS *Geoffroy.*

1566 apiarius *L.* ii. 620. — *Ste. M.* iii. 325. pl. xix. f. 5. — Blue, slightly pubescent: elytra red, with 3 bluish bands, the 1st before the middle, 2d broader behind the middle, the 3d at the extreme tip; tarsi reddish; antennæ dusky, the base dull-red. (L. 4-8 l.) Hedges: Dover; Norfolk; and near Manchester: 6.

1567 alvearius *Fab. E.* i. 284. — *Cur.* i. pl. 44. — *Ste. M.* iii. 326. — Bluish-black, very hairy: elytra red, with a spot at the scutellum, a band united thereto, rather before the middle, a broader band behind the middle,

and a 3d short one within the apex, bluish-black. (L. 5-8 l.) Hedges: near Dorking and Leatherhead; also Manchester: 6.

311 Necrobia *Olivier.*

1568 Quadra *Marsh.* i. 323. — Ne. violacea *Ste. M.* iii. 327. — Violet-blue, or blue-green; villose: thorax and elytra thickly punctate, the punctures on the latter in rows; body beneath and legs dull blue, antennæ black. (L. 1¾-2¼ l.) Dried bones, skins, &c.: London district; Dorset; Norfolk; Suffolk; Swansea; Edinburgh: 4-7.

1569 ruficollis *Oliv. E.* iv. 6. pl. 1. f. 3. — *Ste. M.* iii. 327. — *Cur.* viii. pl. 350. — Villose; blue: head and thorax deeply punctate; the latter, base of elytra, and legs red; elytra punctate-striate; abdomen and legs black. (L. 2-2¾ l.) Old bones, &c.: London district; Dover; Bristol; Leith; Raehills, &c.: 4-8.

1570 rufipes *Oliv. E.* iv. 5. pl. 1. f. 2. — *Ste. M.* iii. 327. — Deep blue; pilose: thorax finely punctured; elytra shagreened; legs wholly red; antennæ black, red at the base. (L. 1¾-2¼ l.) Old bones, &c.: Copenhagen and Battersea fields; Epping, &c.: 4-10.

1571 amethystina *Ste. M.* v. 417. — Nearly glabrous; purple-violet; base of antennæ, thighs, and 4 anterior tibiæ red; tarsi and hinder tibiæ fuscous; tip of antennæ black: elytra punctate, the punctures somewhat placed in rows. (L. 3 l.) Old bones: near London: 6.

312 Corynetes *Paykull.*

1572 violaceus *L.* ii. 653. — *Ste. M.* iii. 328. — *Cur.* viii. pl. 351. — Shining blue or greenish; clothed with fuscous pile: thorax slightly punctured; elytra obscurely punctate-striate; legs greenish-brown; antennæ black, the base fuscous. (L. 1½-2⅓ l.) Hedges, old bones, &c.: Hertford; Ripley; Epping; Glanville's Wootton; Swansea, &c.: 5-7.

Fam. 44. PTINIDÆ *Leach.*

cccxiii. Xiletinus *Ant.* filiform, moderate, serrated in both sexes, 2d and 3d joints short: *palpi* with terminal joint hatchet-shaped: *body* short, ovate: *elytra* striated, sinuated at the sides: *tho.* transverse: *legs* longish.

cccxiv. Ptilinus *Ant.* filiform, 2d joint short, remainder strongly pectinated in ♂, serrated in ♀: *palpi* with terminal joint conic-acute: *tho.* somewhat globose, anter. margin reflexed: *body* elongate, cylindric: *legs* slender.

cccxv. Ptinus *Ant.* filiform, long, slender, simple, inserted close together; 2d joint short: *palpi* somewhat filiform; *tho.* advanced in front, constricted behind; *abdomen* rather ovate: *elytra* free: *scutel.* distinct: *eyes* rather prominent: *legs* long; *thighs* (especially in ♂) clavate.

cccxvi. Mezium *Ant.* approximating, somewhat compressed, scaly, 2d and 3d joints rather thickened: *tho.* pubescent, with longitudinal furrows: *scutel.* wanting: *elytra* united, gibbous, polished: *wings* 0: *legs* long; *thighs* clavate.

cccxvii. Gibbium *Ant.* approximating, somewhat cylindric, 2d and 4th joints rather thickened: *tho.* short, transverse, smooth, lobate behind: *scutel.* wanting: *elytra* united, gibbous, polished: *wings* 0: *legs* long; *thighs* suddenly clavate at tip.

cccxviii. Lasioderma *Ant.* with basal joint large, robust, 2d and 3d small, the latter to the 10th serrated, 11th elongate, conic, acute: *body* broad, pubescent: *head* convex, deflexed: *tho.* semicircular, transverse: *elytra* soft, oblong, rounded at apex: *tarsi* very short.

cccxix. Dorcatoma *Ant.* elongate, curved, 2 basal joints produced within,

3d — 8th minute, 3 following 3-angular, flattened, very large, sometimes slightly pectinated: *palpi* unequal, all securiform: *body* short, transverse, globose: *elytra* punctate on the back, striate on the sides: *tarsi* very short.

cccxx. ANOBIUM *Ant.* remote, the 3 terminal joints rather thickened and suddenly elongated, 9th and 10th being somewhat conical, apical ovate: *palpi* slightly clavate: *body* oblong-ovate: *tho.* gibbous; *elytra* embracing the abdomen: *tarsi* short.

cccxxi. DRYOPHILUS *Ant.* remote, the 3 terminal joints very long and slender, the 9th joint being as long as all the preceding joints united, and longer in the ♂, the apical one rather slender: *palpi* filiform: *eyes* very prominent: *body* somewhat cylindric: *tarsi* long, slender.

cccxxii. OCHINA *Ant.* long, slightly serrated, terminal joint elongate-ovate, acuminate: *palpi* short, simple: *tho.* transverse, narrowed, and slightly lobed in front: *elytra* convex, subovate, short: *tarsi* slender.

313 XILETINUS *Latreille.*

1573 pectinatus *Fab. E.* i. 329. — Xi. striatus *Ste. M.* iii. 330. — *Cur.* viii. pl. 375. — Black; opaque, with a silken pile; punctulate: elytra punctate-striate, the striæ in pairs; legs and antennæ red. (L. 1½-1¾ l.) Decayed wood: London; Cobham; Bridgewater; Spitchweek: 6.

1574 ater *Pz. F.* xxxv. f. 9. — *Ste. M.* iii. 331. — Dull-black, with a silken pile; punctured: elytra punctate-striate, the striæ regular; tibiæ and tarsi testaceous; antennæ black. (L. 1½-2 l.) Old trees, &c.: Hertford: 6.

314 PTILINUS *Fabricius.*

1575 pectinicornis *L.* ii. 565.—*Don.* x. pl. 326.—*Ste. M.* iii. 331. — Fuscous-black; opaque: thorax very convex, anterior margin entire; elytra testaceous-brown, irregularly punctate, the punctures somewhat disposed in striæ towards the margins, disc without ridges; legs, antennæ, and mouth pale testaceous. (L. 1½-2¼ l.) Old willows: London district; Suffolk; Norfolk; Dorset; Swansea; Edinburgh: 4-7.

1576 costatus *Gyll.* iv. 329. — *Ste. M.* iii. 332. — Deep satiny black: thorax convex, with the anterior margin notched; elytra dull chestnut, with 2 or 3 faint ridges, and deeply punctured; tibiæ, tarsi, and antennæ rusty-ochreous. (L. 1¾-2½ l.) Old willows and poplars, near London: 6.

315 PTINUS *of Authors.*

1577 imperialis *L.* ii. 565. — *Pz. F.* v. f. 7. — *Ste. M.* iii. 332. — Oblong; fuscous; with a whitish down: thorax carinated behind; elytra with a waved lobated white patch, and a spot of the same within the apex; legs and antennæ dull red. (L. 2-2½ l.) Old hedges: Darenth; Coombe; Hertford; Bristol; Suffolk; Norfolk: Jedburgh, Scotland, &c.: 4-6.

1578 germanus *Oliv. E.* ii. 7. pl. 1. f. 6. — *Ste. M.* iii. 333. — Oblong-ovate; rusty-brown; villose: scutellum snowy; elytra punctate-striate, black-brown, with 2 waved whitish bands and a spot of the same at the tip; antennæ and legs testaceous. (L. 2-2½ l.) Old hedges: near London; Cobham; Norfolk; Suffolk; Devon; Swansea: 4-6.

1579 rufipes *Fab. E.* i. 325. — *Oliv. E.* ii. 8. pl. 2. f. 8. — *Ste. M.* iii. 333. — Oblong-dusky, with a griseus pile: thorax with 4 teeth, and an impression behind; elytra deeply punctate-striate, shoulders gibbous; legs and antennæ red. (L. 2-2¾ l.) Old hedges, &c.: London district; Norfolk; Suffolk, &c.: 5-7.

1580 6-punctatus *Pz. F.* i. f. 20. — *Ste. M.* iii. 333. — *Cur.* xiv. pl. 646. — Oblong; fuscous; pubescent: forehead, scutellum, a short band towards the base of the elytra, and 2 spots towards the apex, snow-white: legs and antennæ rusty-brown. (L. 2-2⅓ l.) Old wood: Hyde Park; Norfolk; Farley, Dorsetshire; houses, Carlisle and Edinburgh: 5-6.

1581 Fur *L.* ii. 566. — *Wood.* i. pl. 4. — *Ste. M.* iii. 334. — Rusty-brown; pubescent: eyes black; thorax with 4 transverse fascicles, and a dorsal groove; scutellum ashy; elytra crenate-striate, with 2 interrupted whitish bands; legs rusty; thighs clavate; antennæ rusty: ♂ elongate and more slender. (L. 1½-2 l.) Old houses, museums, &c., throughout the country: ⊙, ∗.

1582 crenatus *Fab. E.* i. 326. — *Ste. M.* iii. 334. — Pt. testaceus *Oliv. E.* ii. pl. 2. f. 9.? — Dull testaceous; pubescent: thorax gibbous; obsoletely 2-tuberculated, the base narrowed; elytra crenate-striate, spotless; legs and antennæ dull red: ♂ small, pale and more elongate. (L. 1¼-1½ l.) Old houses, &c.: generally distributed: 4-8.

1583 Lichenum *Marsh.* i. 89. — *Ste. M.* iii. 335. — Pt. bidens *Oliv. E.* ii. pl. 2. f. 10.? — Black, or fuscous: thorax gibbous, obsoletely 2-dentate; scutellum white; elytra striate, obsoletely clouded and waved with white; legs and antennæ red: ♀ with abdomen tumid. (L. 1¼-1¾ l.) Old palings, &c.: Camberwell; Wandsworth; Cobham; Windsor; Raehills, &c.: 5-6.

316 Mezium *Leach.*

1584 sulcatum *Fab. E.* i. 327. — *Cur.* v. pl. 232. — *Ste. M.* iii. 335. — Head and thorax clothed with whitish scales; the latter with 2 central ridges, and the hinder margin thickened; elytra chestnut, highly polished; legs and antennæ whitish. (L. 1¼-1¾ l.) Old houses: London; Swansea: 4-8.

317 Gibbium *Kugellan.*

1585 scotias *Fab. E.* i. 327. — *Ste. M.* iii. 338. — *Cur.* viii. pl. 342. — Shining chestnut; impunctate; head black; antennæ and legs densely clothed with ochreous down. (L. 1-1½ l.) Old houses; London (Burton-street); Bristol; Newcastle-on-Tyne: 4-8.

318 Lasioderma *Stephens.*

(1586 testaceum *Ste. M.* v. 417. — Convex-ovate; pale testaceous-red; clothed with a pale down; elytra impunctate, the down slightly disposed in lines; legs and antennæ very pale testaceous; eyes black. (L. 1-1½ l.) Old houses, London: 5-6.)

319 Dorcatoma *Herbst.*

1587 Dresdense *Herbst.* iv. 104. pl. 39. f. 8. — *Ste. M.* iii. 337. — Oval, convex; black; elytra finely punctured, and with 2 deeply punctate striæ on the outer margin; legs and antennæ rusty-red; eyes entire. (L. 1-1¼ l.) Decayed trees: Cobham; near London and Barham: 7-8.

1588 Bovistæ *Ent. H.* ii. 100. pl. 3. f. 11. — *Ste. M.* iii. 337. — Somewhat globose; black; punctulate: thorax wide behind; elytra broad at the base, the outer margin with 2 entire striæ and 1 shorter within; legs and antennæ pitchy-brown; eyes divided by a deep groove. (L. 1¼ l.) Old trees: near London; Windsor and Spitchweek: 5-6.

1589 rubens *Ent. H.* ii. 103. pl. 3. f. 12. — *Ste. M.* iii. 337. — Globose; dull red: thorax very short, rounded behind; elytra punctured, lateral

margin with 3 entire striæ; shoulder with a callus; antennæ pale testaceous; eyes entire. (L. 1½ l.) Old trees: Regent's Park: 6.

320 ANOBIUM *Fabricius.*

1590 castaneum *Fab. E.* i. 322. — *Oliv. E.* ii. pl. 1. f. 2. — *Ste. M.* iii. 338. — Fuscous, inclining to chestnut; pubescent: eyes black; thorax roughly punctate, and with a transverse impression within the anterior edge; elytra very deeply crenate-striate, interstices slightly elevated; antennæ and legs dull red. (L. 2-2¾ l.) In whitethorn hedges: London district; Dorset; Cambridge; Scotland: 5-6.

1591 rufipes *Fab. E.* i. 322. — *Ste. M.* iii. 339. — An. brunneum *Oliv. E.* ii. pl. 2. f. 6. ? — Elongate; nearly glabrous; dull black: mouth reddish; thorax gibbous, rounded behind; with a dorsal channel, and a somewhat bilobed fovea behind; elytra punctate-striate, interstices convex; legs and antennæ red. Suture and sides of the elytra sometimes reddish. (L. 1½-2¼ l.) Hedges: London district?; Swansea: 5-6.

1592 pertinax *L.* ii. 565. — *Ste. M.* iii. 339. — *Cur.* ix. pl. 387. — Dusky-black; obscure; thorax very pubescent, convex; with a ridge behind, giving off 2 branches in front and a 3d in the middle behind, within the lateral margins an impression, and a deeper one at the hinder angles, densely clothed with ochreous pile; elytra punctate-striate, interstices flat: tibiæ and tarsi dull red. (L. 2¼ l.) Old oak trees: near London; Windsor and Bridgenorth: 6.

1593 denticolle *Creutzer.* — *Pz. F.* xxxv. f. 8. — *Ste. M.* iii. 339. — Dusky-ferruginous; slightly pubescent: thorax with the lateral margin depressed, and terminating behind in an acute tooth, the disc with an obscure channel, the base with a deep fovea on each side, and another near the anterior angles; elytra slightly punctate-striate; tibiæ and tarsi dull red. (L. 2½ l.) Hedges; near London: 6.

1594 striatum *Oliv. E.* ii. pl. 2. f. 7. — *Ste. M.* iii. 340. — Pitchy-brown; convex; pubescent: thorax compressed behind, with a dorsal channel and a triangular ridge: and 4 basal foveæ, the outer ones deepest; elytra striate, with distinct punctures, interstices flat and finely shagreened; legs and antennæ dull red. (L. 1½-2 l.) Abundant in old houses, throughout the country: 4-8.

1595 nitidum *Herbst.* v. 57. pl. 47. f. 4. — *Ste. M.* iii. 340. — Pitchy-black; slightly pubescent: thorax with a triangular ridge behind, in which are 2 deep curved foveæ; elytra punctate-striate; antennæ and legs pale testaceous; thighs sometimes dusky. (L. 1¼-1½ l.) Old houses: London district: 6.

1596 paniceum *L.* ii. 564. — *Pz. F.* lxvi. f. 6. — *Ste. M.* iii. 340 — Ovate; dull red; slightly pubescent: eyes black; thorax convex equal, finely punctured, and with a narrow fovea on each side at the base; elytra rounded at the apex, faintly punctate-striate, interstices flat and roughish; legs and antennæ rusty-red. (L. 1¼-1¾ l.) In old flour, bread, skins, &c.: London district: 4-7.

1597 tessellatum *Fab. E.* i. 321. — *Pz. F.* xlvi. f. 3. — *Ste. M.* iii. 341. — Rusty-brown; rough: thorax and elytra punctulate, tessellated with flavescent down, the former convex, its anterior edge considerably elevated, the base with 2 shallow foveæ; legs pitchy-brown. (L. 2-3¼ l.) In old trees, especially willows: widely, but sparingly, distributed throughout England; Swansea: 6-7.

1598 molle *L.* ii. 565. — *Herbst.* v. pl. 47. f. 9. — *Ste. M.* iii. 341. — Oblong; testaceous; pubescent: eyes brown-black; thorax rounded behind and margined, the sides deflexed and rounded; elytra finely

punctured, pale testaceous; legs and antennæ dull red, the 3 terminal joints of the latter (especially in the ♂) elongate, filiform, slender. (L. 1¾-2 l.) In pine woods: Ripley; Netley; Carlisle; Swansea; Scotland: 6-7.

1599 Abietis *Fab. E.* i. 323. — *Pz. F.* lxvi. f. 7. — *Ste. M.* iii. 341. — Oblong-ovate; testaceous-brown; pubescent: eyes blackish; thorax truncate behind, the sides flattened; elytra faintly punctured, pale reddish; breast dull brown; legs and antennæ pale dull red; the 3 terminal joints rather thickened. (L. 2 l.) Fir woods: near Edinburgh and Swansea: 5-6.

1600 † erythropum *Leach.* — *Ste. M.* iii. 342. — Pitchy-black; slightly shining, pubescent: antennæ, legs, and eyes ferruginous; elytra punctate. (L. 2 l.) Pine woods: Ravelston Wood, near Edinburgh: 8.

321 Dryophilus *Chevrolat.*

1601 anobioides *Guerin. M.* (*Chev.*) i. pl. 8. — *Ste. M.* v. 418. — Brown-black; elytra chestnut-brown, punctate-striate; legs and antennæ dusky testaceous. (L. 1½-1¾ l.) On old stumps of broom: Coombe Wood: 4.

322 Ochina *Ziegler.*

1602 ptinoides *Marsh.* i. 228. — *Ste. M.* iii. 342. — Chestnut; pubescent: elytra smooth, with 2 somewhat waved bands composed of pale ashy down; abdomen also with an ashy pile; legs and antennæ reddish; eyes black. (L 1¼-1¾ l.) Old trees, clothed with ivy: Coombe Wood; Cobham; Ripley; Suffolk; Norfolk: 5-6.

Fam. 45. LYMEXYLONIDÆ *Stephens.*

cccxxiii. Lymexylon *Ant.* simple, pilose; somewhat fusiform, the terminal joint suddenly narrowed in the middle: *head* vertical, somewhat orbicular: *tho.* oblong, rather cylindric: *body* long, linear, flat: *elytra* nearly covering the abdomen, subulate.

cccxxiv. Hylecœtus *Ant.* serrated, compressed, 4th and 5th joints equal: *head* vertical, somewhat globose: *tho.* short, transverse: *body* slightly convex: *elytra* covering the abdomen.

323 Lymexylon *Fabricius.*

1603 † navale *L.* ii. 650. — *Cur.* viii. pl. 382. — *Ste. M.* v. 62. — Pubescent; antennæ brownish; elytra with 2 obscure ridges: ♂ black, inner base of elytra, abdomen and legs testaceous: ♀ luteous; thorax reddish; head, margin and tip of the elytra and the wings dusky black. (L. 2-5 l.) Old oaks: Windsor Forest: 7.

324 Hylecœtus *Latreille.*

1604 † dermestoides *L.* ii. 650. — *Ste. M.* v. 62. note. — *Cur.* xiv. pl. 654. — Pubescent; black: elytra testaceous, with the apex black; legs pale: ♀ testaceous; eyes, wings and breast black. (L. 4 l.) Old birches; Sherwood Forest? 5.

Fam. 46. BOSTRICHIDÆ *Leach.*

cccxxv. Cis *Ant.* with the 3 terminal joints forming an elongate club: *max. palpi* with apical joint large, oval: *mand.* bidentate: *tho.* rounded on the sides, dilated in front: *body* cylindric, ovate: *tarsi* 4-merous, 3 basal joints very short: *head* in ♂ often tubercular or spinose.

cccxxvi. Sinoxylon *Ant.* short, the 3 terminal joints transverse and forming a somewhat laminated club: *palpi* filiform: *tho.* gibbous, produced in front: *body* short, villose: *elytra* retuse behind and spinose: *tibiæ* simple.

cccxxvii. APATE *Ant.* with 2d joint elongate, cylindric, the 3 terminal joints forming a perfoliated club: *palpi* slightly acuminate: *tho.* somewhat 4-drate, muricate in front: *elytra* linear, retuse behind, and tuberculate: *tibiæ* denticulated, anter. with a spine at the tip.

cccxxviii. BOSTRICHUS *Ant.* with 2d joint short, rather clavate, the 3 terminal joints forming a club, the 2 basal joints of which are obtrigonate, the other ovate-truncate, rather compressed: *tho.* globose, muricated: *elytra* rounded at the apex: *tibiæ* simple, 3d joint small.

cccxxix. DINODERUS *Ant.* with 2d joint somewhat globose; 3 terminal joints forming a perfoliated club: *head* transverse: *tho.* short, gibbous, rough in front: *elytra* retuse behind: *tibiæ* denticulated; *tarsi* short.

cccxxx. RHYZOPERTHA *Ant.* with the 3 terminal joints forming a somewhat laminated club: *head* small: *tho.* convex, scabrous in front: *elytra* elongate, rounded behind: *tibiæ* serrated.

325 CIS *Latreille.*

1605 Boleti *Fab. E.* i. 323. — *Ste. M.* iii. 344. — Dusky-brown, or chestnut; somewhat pubescent, rather glossy, and thickly punctured: thorax unequal, obtusely angulated behind; elytra somewhat irregularly rugulose punctate; legs and antennæ pale reddish. (L. 1¾-2 l.) In Boleti, &c.: London district; Carlisle; Swansea; Edinburgh; Gravesend: 3-8.

1606 concinnus *Marsh.* i. 87. — *Ste. M.* iii. 345. — Ferruginous; pilose: elytra punctate; abdomen red-brown beneath; breast and legs red. (L. ¾ l.) Boleti, &c.: London district; Norfolk; and Swansea: 6.

1607 flavus *Kirby.* — *Ste. M.* iii. 345. — Testaceous-yellow; somewhat glabrous: eyes black; thorax unequal, convex; elytra smooth; antennæ and legs pale testaceous. (L. 1¼ l.) Boleti, &c.: London district: 6.

1608 micans *Fab. E.* i. 324. — *Herbst.* v. pl. 47. f. 11. — *Ste. M.* iii. 345. — Pitchy-brown, with a short glossy pile: thorax equal, waved in front, the sides narrowly margined; elytra obsoletely and irregularly punctate-subrugose; legs and base of antennæ testaceous. (L. 1¼-1½ l.) In Boleti, &c.; London district: 5-6.

1609 hispidus *Pk. F.* i. 310. — *Ste. M.* iii. 345. — An. micans *Pz. F.* x. f. 8. — Pitchy-brown, with a short rigid pile: thorax equal, waved in front, the sides narrowly margined; elytra obsoletely punctate-striate; legs and antennæ wholly testaceous. (L. 1¼-1½ l.) In Boleti: London district; Devon: 6.

1610 pyrrhocephalus *Marsh.* i. 86. — *Ste. M.* iii. 345. — Red-brown; head and front of the thorax red, disc of the latter very convex, black behind; elytra irregularly punctured, clothed with short yellowish pile; body beneath and thighs black; tibiæ, tarsi, and antennæ red. (L. 1¼ l.) Boleti; London district: 6.

1611 pygmæus *Marsh.* i. 86. — *Ste. M.* iii. 346. — An. festivum *Pz. F.* vi. f. 7.? — Testaceous-brown, rather long and glabrous: thorax very convex, equal, truncate in front, the sides slightly margined; elytra pitchy, thickly, finely, and irregularly punctalated; legs and antennæ wholly testaceous. (L. 1 l.) Boleti: London district and Reading: 6.

1612 rhododactylus *Marsh.* i. 87. — *Ste. M.* iii. 346. — Black; narrow; slightly glossy and villose: thorax equal, punctate; elytra obsoletely punctured; legs black; tarsi red; antennæ red, club black. (L. 1 l.) Boleti: London district: 6.

1613 nigricornis *Marsh.* i. 87. — *Ste. M.* iii. 346. — Black; thorax equal, obscure; elytra smooth, slightly villose: legs testaceous-red; antennæ black. (L. 1 l.) Boleti: London district: 6.

1614 ruficornis *Marsh.* i. 87. — *Ste. M.* iii. 346. — Black, with a reddish pile:

thorax obliquely truncate in front, and slightly margined; elytra punctate; mouth, antennæ, and legs testaceous-red. (L. 1 l.) Boleti: London district: 6.

1615 nitidus *Fab. E.* i. 324. — *Pz. F.* x. f. 9. — *Ste. M.* iii. 347. — Pitchy, or dull red, shining, glabrous: thorax equal, punctate; a little waved in front, sides and hinder edge slightly margined; elytra very convex, rather coarsely and irregularly punctate; legs and antennæ pale dull red. (L. 1 l.) Boleti, common: London district; New Forest; Edinburgh: 6.

1616 fronticornis *Frölich*? — *Pz. F.* xcviii. f. 7. ? — *Ste. M.* iii. 347. — Short, convex; pitchy-red, with a whitish down; thorax very convex, truncated in front, minutely punctulated; elytra coarsely and irregularly punctured; tip testaceous; legs testaceous-red; antennæ pale, club dusky, ♂ with the head 2-tuberculate. (L. ¾ l.) Boleti: Ripley, 6; Barham: 9.

1617 bidentatus *Marsh.* i. 86. — *Ste. M.* iii. 347. — Pitchy-black, slightly glossy, nearly glabrous, very convex: thorax deeply waved in front, the middle lobe prominent and forming 2 horn-like processes in the ♂, disc finely punctured; elytra delicately punctured; antennæ and legs pale testaceous red: ♂ with 2 short spines on the head. (L. 1-1¼ l.) Boleti: London district; New Forest; Oakhampton, Somerset; Swansea; Scotland: 6.

326 Sinoxylon *Duftschmidt.*

(1618† bispinosum *Oliv. E.* iv. 77. pl. 4. f. 1. — *Ste. M.* iii. 349. — Black, villose; thorax gibbous, muricated: elytra red-brown, or chestnut, retuse behind and dentate, the dentations irregular. (L. 3½ l.) Improperly introduced into the British list.)

327 Apate *Fabricius.*

(1619 muricata *Fab. E.* ii. 378. — *Ste. M.* iii. 351. note. — Bo. terebrans *Oliv. E.* 77. pl. 1. f. 4. — Black: elytra reticulated, dentated and retuse behind; thorax gibbous and muricated; club of antennæ dull red. (L. 8 l.) A specimen taken in the Isle of Dogs, but evidently imported.)

1620 sinuata *Fab. E.* ii. 381. — *Ste. M.* iii. 351. pl. xix. f. 6. — Pitchy-black: head very pilose; thorax gibbous in front, with muricated tubercles; elytra irregularly and coarsely punctate, fuscous, behind retuse, with 1 small and 2 large tubercles on the disc, and the inner hinder angle of the suture tubercular; legs pitchy testaceous; antennæ rusty. (L. 3 l.) Under bark: Epping Forest: 6

328 Bostrichus *Geoffroy.*

1621 capucinus *L.* ii. 562. — *Cur.* vi. pl. 271. — *Ste. M.* iii. 350. — Black, opaque; slightly pubescent: thorax somewhat notched in front, the sides with muricated tubercles; elytra irregularly reticulate-punctured, deep red; abdomen and tarsi also red; legs and antennæ pitchy. (L. 5 l.) In decayed trees, &c.: London district; Cromer, Norfolk; Derbyshire; Notts; Bewdley: 5-6.

329 Dinoderus *Stephens.*

1622 substriatus *Pk. F.* iii. 142. — *Ste. M.* iii. 352. — Pitchy-black; opaque; slightly pubescent: head roughly punctured; thorax thickly tuberculated in front; elytra somewhat chestnut, irregularly and coarsely punctured; legs pitchy-red; tibiæ and tarsi paler; club of antennæ reddish. (L. 1⅓ l.) Decayed trees: New Forest: 6.

(1623 ocellaris *Ste. M.* iii. 352. — Pitchy-black; slightly glossy; thorax tuberculate in front, punctate behind; elytra rather deeply punctate, the

punctures disposed in striæ, distinctly ocellated, and largest behind; legs and antennæ pitchy. (L. 1½ l.) Sugar casks? Little Chelsea and London.)

330 RHYZOPERTHA *Stephens.*

(1624 pusilla *Fab. E.* ii. 378. — *Ste. M.* iii. 354. note. — Pitchy-ferruginous: thorax convex, rough in front; elytra glabrous, shining, punctate-striate; antennæ dull red. (L. 1¾ l.) Indian roots and seeds; therefore not British.)

1625† cincta *Ent. M.* (*Newm.*) ii. 203. — *Ste. M.* v. 418. — Head and thorax black, hinder portion of the latter testaceous: elytra testaceous, with a wide exterior margin black; legs and antennæ testaceous. (L. 1¼ l.) Newcastle.

§ 4. PSEUDOTETRAMERA *Westwood* (p.3.)

Stirps 1. RHYNCHOPHORA *Latreille.*

Fam. 47 SCOLYTIDÆ. *Ant.* short, slightly elbowed, basal joint elongate, apical joints forming a more or less solid mass: *labrum* obsolete: *head* slightly rostrated: *maxillæ* thin, broad, spined without; *palpi* conical, minute: *body* oblong, convex: *tibiæ* hooked at the tip; *tarsi* with 3d joint bilobed.

Fam. 48 CURCULIONIDÆ. *Ant.* mostly elbowed, basal joint elongated, 2d joint inserted obliquely at its end, 3 or 4 terminal ones forming a club: *labrum* obsolete: *palpi* minute; conical: *head* produced into a *rostrum*, often of considerable length, at the end of which the mouth is placed; its sides with a groove to receive the antennæ: *body* oval, narrowed in front; *tarsi* with 3d joint bilobed.

Fam. 49 ATTELABIDÆ. *Ant.* not elbowed; the 3 or 4 terminal joints forming a club: *labrum* obsolete: *palpi* conical: *head* produced into a *rostrum*, which is generally cylindrical and bent, without lateral grooves to receive the antennæ: *body* ovate, narrowed in front; *tarsi* with 3d joint bifid.

Fam. 50 BRUCHIDÆ. *Ant.* straight, nearly filiform, or slightly clavate, sometimes serrated or pectinated: *labrum* distinct: *palpi* exposed, filiform: *head* produced into a short, broad, and flattened *rostrum*: *elytra* abbreviated: *hind* legs elongate, often very large.

Fam. 47. SCOLYTIDÆ *Westwood.*

cccxxxi. TRYPODENDRON *Funiculus* 4-jointed; club solid, acute: *labium* parallel: *head* small: *tibiæ* serrated, broad at the tip; *tarsi* simple.

cccxxxii. PLATYPUS *Funic.* 4-jointed; club solid, nearly round: *mand.* exserted: *tho.* elongate, cut out on the sides: *tibiæ* short, striated; *tarsi* longer than the thighs and tibiæ united, and very slender.

cccxxxiii. POLYGRAPHUS *Funic.* 4-jointed; club solid, somewhat oval, acuminate: *tho.* narrowed in front; *elytra* rounded behind: *tibiæ* denticulate; *tarsi* simple.

cccxxxiv. TOMICUS *Funic.* 5-jointed; club 4-jointed, somewhat orbiculate, tunicate: *tho.* gibbous, broader than the head in front: *elytra* mostly retuse, and often dentate, behind: *tibiæ* serrated; *tarsi* simple.

cccxxxv. HYLESINUS *Funic.* 7-jointed; club 4-jointed, oblong, acuminate: *tho.* convex, waved behind: *body* short, ovate, sometimes pubescent: *tibiæ* compressed at the tip, denticulate: *tarsi* with penult. joint bifid.

cccxxxvi. SCOLYTUS *Funic.* 6-jointed; club 3-jointed, compressed, ovate, solid: *tho.* very large, narrowed in front: *elytra* truncate, retuse: *tibiæ* compressed, entire, hooked; *tarsi* with penult. joint bifid: *abdomen* obliquely truncate behind; mucronate in ♂.

cccxxxvii. Dendroctonus *Funic.* 5-jointed; club 4-jointed, somewhat orbicular, compressed: *tho.* slightly waved at base, narrowed in front: *tibiæ* denticulate without; *tarsi* short, 3d joint bifid.

cccxxxviii. Hylastes *Funic.* 7-jointed, club 4-jointed, orbicular, compressed: *tho.* elongate, nearly cylindric: *body* cylindric: *tibiæ* compressed, denticulate without; *tarsi* short, 3d joint bifid.

(cccxxxix. Hypothenemus *Ant.* 7 ?-jointed, basal joint long, bent, 2d large, cup-shaped, 2 next minute, remainder forming a large ovate compressed and hairy mass, apparently composed of 3 indistinct joints: *head* concealed by front of *tho.*, which is obtusely denticulated: *elytra* rounded behind: *tibiæ* compressed: *tarsi* entire.)

331 Trypodendron *Stephens.*

1626 dispar *Ill. M.* iv. 129. — *Ste. M.* iii. 353. — Bo. brevis *Pz. F.* xxxiv. f. 20. ♂. — Bo. thoracicus *Pz. F.* xxxiv. f. 18. ♀. — Pitchy-black, with a long griseous pubescence: elytra brown, distinctly punctate-striate, disc convex, sloping from the middle to the apex, which is palish; tip of femora, tibiæ, tarsi and antennæ pale testaceous: ♀ larger, the thorax somewhat globose, legs shorter, antennæ more slender. (L. 1½-2 l.) Decayed trees: near Lyndhurst: 5.

1627 domesticum *L.* ii. 563. — *Ste. M.* iii. 354. — Ap. limbatus *Pz. F.* xliii. f. 19. — Cylindric; black; nearly glabrous; punctulated: elytra obsoletely punctate-striate, livid, with the suture and lateral margins broadly fuscous-black; tarsi, apex of tibiæ and club of the antennæ, which is obliquely acuminated, dull red. (L. 1¼-1¾ l.) On alders: New Forest: 5.

332 Platypus *Herbst.*

1628 cylindrus *Herbst.* v. 120. pl. 49. f. 3. — *Cur.* ii. pl. 51. — *Ste. M.* iii. 355. — Brownish-black; punctured: elytra deeply striated, the interstices elevated, the apex retuse, dentate and villose; antennæ and legs chestnut. (L. 3¾ l.) Old oaks: New Forest and Windsor: 5-6.

1629 linearis *De Jean* ? — *Ste. M.* v. 419. — Elongate-linear; chestnut-red, faintly punctured: eyes black; elytra deeply striated, interstices elevated, and terminating behind in 3 irregular processes, of which the lateral one is longest, the tip of the elytra suffused with dusky; legs and antennæ pale chestnut. (L. 3 l.) Old post: Sydenham: 6.

333 Polygraphus *Erichson.*

1630 pubescens *Fab. E.* ii. 394. — To. polygraphus *L.* — *Pz. F.* xv. f. 5. — *Ste. M.* iii. 355. — Pitchy-brown, or dull red, pubescent, somewhat rugose: elytra obsoletely striated, rounded and entire behind; legs and antennæ pale testaceous. (L. 1¼ l.) Old trees: London district: 5-6.

334 Tomicus *Latreille.*

§ A. *Elytra* behind entire, and rounded.

1631 villosus *Pk. F.* iii. 154. — *Pz. F.* xv. f. 3. — *Ste. M.* iii. 356. — Brown, or dull red, slightly shining, clothed with long pale tawny hairs: thorax ovate, thickly punctate; elytra deeply punctate-striate, interstices flat, each with a row of minute punctures; legs and antennæ pale testaceous. (L. 1¼-1¾ l.) Old oaks, &c.: London district; Bristol; Dover; Swansea: 5-6.

1632 micrographus *Pk. F.* iii. 155. — *Pz. F.* lxvi. f. 11. — *Ste. M.* iii. 356. — Dull red, shining, slightly pubescent: thorax oblong, rough in front and opaque, punctured behind, with a smooth glossy space in the

middle of the base; elytra finely punctate-striate, the striæ vanishing before the apex. (L. 1½ l.) Old trees; near Hertford: 5-6.

1633 flavus *Wilkin.* — *Ste. M.* iii. 356. — Testaceous-yellow; slightly pubescent and glossy: thorax oblong, produced in front, very coarsely and thickly punctured; elytra faintly punctate-striate, interstices flat and minutely punctured; legs and antennæ pale testaceous. (L. 1¼ l.) Old trees: New Forest: 6.

§ B. *Elytra* retuse behind; sometimes dentate.

1634 fuscus *Marsh.* i. 53. — *Ste. M.* iii. 356. — Pitchy-brown, clothed with long hairs: thorax rough in front, opaque, rather glossy and finely punctured behind; elytra cylindric, finely punctate-striate, interstices with a row of minute punctures; legs and antennæ reddish. (L. 1-1⅓ l.) Old trees: London district; Devon; Cornwall; Swansea: 5-6.

1635 pubescens *Marsh.* i. 58. — *Ste. M.* iii. 357. — Bo. cinereus *Herbst.* v. pl. 48. f. 15.? — Black, slightly pubescent, nearly opaque, thorax ovate, delicately punctured; elytra fuscescent, deeply crenate-striate; legs and antennæ yellowish; forehead densely pubescent. (L. ½-¾ l.) Old trees: Kew and near London: 5-6.

1636 bidens *Fab. E.* ii. 389. — *Pz. F.* xxxix. f. 21. — *Ste. M.* iii. 357. — Pitchy-black; slightly shining; with a griseous pile; elytra thickly and finely punctate-striate, the apex retuse-truncate, each with a single large slightly bent tooth on the upper edge of the excavation; legs and antennæ pale red: ♀ with the apex of the elytra less retuse, and obsoletely dentate. (L. 1¼-1½ l.) Old trees: London district: 5-6.

1637 Laricis *Fab. E.* ii. 386. — *Pz. F.* xv. f. 4. — *Ste. M.* iii. 357. — Pitchy-black, slightly glossy, clothed with pale hairs: elytra punctate-striate, apex retuse, the retuse margin with several irregular denticulations; tibiæ and tarsi pale brown; antennæ reddish. (L. 1¼-2 l.) Old larches: Windsor: 5-6.

1638 chalcographus *L.* ii. 562. — *Pz. F.* xxxix. f. 20. — Pitchy-black, shining: elytra reddish, dusky at the base, the apex slightly retuse and armed with 3 short teeth; legs and antennæ pale testaceous: ♂ with a deep frontal impression. (L. 1½-2 l.) Old pines: London district: 5-6.

1639 monographus *Fab. E.* ii. 387. — *Ste. M.* iii. 358. — Cylindric; testaceous-brown; shining; clothed with pale hairs: elytra faintly punctate-striate, apex slightly retuse, with 3 teeth towards the suture, and 1 externally; legs and antennæ testaceous. ((L. 1¼ l.) Old trees: London district: 5-6.

1640 8-dentatus *Pk. F.* iii. 146. — *Ste. M.* v. 419. — Pitchy-black; shining; clothed with a yellowish pile: elytra punctate-striate, the apex circularly truncate-retuse, the circumference armed with 4 teeth, of which the 3d is largest. (L. 2 l.) Old trees: London district: 5-6.

1641 Typographus *De Geer*, v. 193. pl. 6. f. 1-7. — *Pz. F.* xv. f. 3. — *Ste. M.* iii. 358. — Pitchy-black, or testaceous; slightly shining; clothed with long yellowish hairs: thorax large, produced in front; elytra deeply punctate-striate, the apex truncate-retuse, the margin with 6 teeth, the 4th largest; legs and antennæ pitchy-red. (L. 3 l.) In firs: London district; Swansea: 5 6.

335 HYLESINUS *Fabricius.*

§ A. *Body* pubescent; rather elongate.

1642 crenatus *Fab. E.* ii. 390. — *Pz. F.* xv. f. 7. — *Ste. M.* iii. 359. — Black; punctured: thorax unequal, coarsely punctured; elytra pitchy-

black, deeply crenate-striate, interstices rough; thighs and tibiæ pitchy; tarsi and antennæ dull red. (L. 2-2½ l.) Old trees: London district; Netley; New Forest; Swansea; Edinburgh: 5-8.

1643 hæmorrhoidalis *Marsh.* i. 56. — *Ste. M.* iii. 359. — Black; opaque; punctured: head glabrous; thorax coarsely punctured; elytra punctate-striate, the apex red; tarsi and antennæ red. (L. 1½ l.) Old trees; London district: 5-6.

1644 picipennis *Ste. M.* iii. 359. — Deep black; rather opaque: head punctulate; thorax equal, obsoletely but thickly punctured; elytra pitchy, rather deeply crenate-striate; interstices punctate; legs and antennæ rusty-red. (L. 1½ l.) Old trees: London district; Lancashire; Leeds: 5-6.

§ B. *Body* pubescent; very short, broad.

1645 scaber *Marsh.* i. 56. — *Ste. M.* iii. 360. — *Cur.* xi. pl. 522. — Deep black; slightly shining; punctate; elytra deeply punctate-striate, interstices with short rigid hairs; tarsi beneath and antennæ rusty-red. (L. 1-1¼ l.) Old trees: near London; Ripley, and Cobham: 7.

§ C. *Body* clothed with scales.

1646 Fraxini *Pz. F.* lxvi. f. 15. — *Ste. M.* iii. 360. — Black, pitchy, dull red or ochreous; densely clothed beneath with an ashy pile, above variegated with ashy and brown scales; legs pitchy; tarsi and antennæ dull red, club of the latter large and fuscous. (L 2-2½ l.) In decayed ash trees: London district; Carlisle; Swansea; Edinburgh: 4-7.

1647 furcatus *Marsh.* i. 55. — *Ste. M.* iii. 360. — Short; dusky, dull red; beneath clothed with a pale pile: thorax above with 3 pale lines; elytra dull red, with an oblique whitish line terminating at the base, and fainter, a 2d near the suture, and a pale circle at the apex. (L. 1 l.) Old trees: London district: 5-6.

1648 coadunatus *Marsh.* i. 58. — *Ste. M.* iii. 360. — Black, or fuscous; elytra reddish, striated, with 2 or 3 obscure spots on each, connected on the suture; legs and antennæ pale red. (L. 1 l.) Old trees, &c.: London district: 5-6.

1649 sericeus *Marsh.* i. 55. — *Ste. M.* iii. 361. — Fuscous; above clothed with ashy scales; elytra dull red, faintly striate, and obscurely clouded with dusky: antennæ testaceous, club fuscescent. (L. ⅞ l.) Old trees: London district: 5-6.

336 Scolytus *Geoffroy.*

1650 Destructor *Oliv.* iv. 78. pl. 1. f. 4. — *Cur.* i. pl. 43. — *Ste. M.* iii. 361. — Black; shining: head rough; thorax finely punctulate; elytra pitchy-black or pitchy (sometimes reddish or dull red), punctate-striate, interstices irregularly punctured; abdomen beneath retuse, the 1st segment in the ♂ slightly mucronated; thighs and tibiæ pitchy-black; tarsi and antennæ reddish. (L. 1½-3 l.) Elm trees, throughout the S. of England: 4-7.

1651 picicolor *Kirby.* — *Ste. M.* iii. 362. — Pitchy-black, shining: thorax elongate, punctulate; elytra reddish, closely striated, the striæ obscurely punctate; abdomen retuse; legs and antennæ reddish. (L. 1½ l.) Old elms near London and Rye: 4-6.

1652 pygmæus *Oliv.* iv. 78. pl. 1. f. 5. — *Ste. M.* iii. 362. — Black; shining: head granulated; thorax reddish in front, coarsely punctulated; elytra pitchy-red, closely punctate-striate, each interstice with a row of minute punctures; abdomen retuse, mucronate in the ♂; legs pitchy-

red; antennæ testaceous. (L. 1½-1¾ l.) Old oaks and elms: London district: 5-6.

337 Dendroctonus *Erichson.*

1653 piniperda *L.* ii. 563. — *Cur.* iii. pl. 104. — *Ste. M.* iii 363. — Pitchy-black, or testaceous; slightly pubescent: head and thorax finely punctured; elytra punctate-striate; interstices somewhat roughly punctate; legs short, pitchy; tarsi pale testaceous; antennæ dull-red. (L. 1¼-1¾ l.) Fir woods: London district; Swansea; Scotland: 4-6.

338 Hylastes *Erichson.*

1654 ater *Fab. E.* ii. 394. — *Ste. M.* iii. 363. — Elongate, cylindric; black; shining, nearly glabrous: rostrum with a ridge; thorax elongate, somewhat cylindric, thickly punctured; elytra coarsely crenate-striate, interstices flat and transversely wrinkled; legs pitchy; tips of tibiæ, the tarsi, and antennæ dull red. (L. 2-2½ l.) Old trees: London district: 6-8.

1655 palliatus *Gyll.* iii. 540. — *Ste. M.* iii. 363. — Short, pitchy-black, or testaceous; slightly pubescent: thorax above, elytra, tibiæ, tarsi, and base of the antennæ rusty red; thorax short, the sides dilated, the disc with a ridge; elytra deeply crenate-striate: head punctured in front and with a ridge. (L. 1½ l.) Old trees: London district: 5-8.

1656 angustatus *Herbst.* v. 111. pl. 48. f. 9. — *Ste. M.* iii. 364. — Short; black, or pale red; rather pubescent: thorax somewhat cylindric, with a distinct dorsal ridge; elytra and legs pitchy, the former opaque, deeply crenate-striate, interstices narrow, roughish; tarsi and base of antennæ testaceous. (L. 1¼-1½ l.) Old firs: Hertford; Swansea: 5-8.

1657 obscurus *Marsh.* i. 57. — *Ste. M.* iii. 364. — Short, fuscous-black, obscure; slightly pubescent; thorax punctured, and with an obscure dorsal ridge; elytra dull red or pitchy, deeply punctate-striate; legs and antennæ dull red. (L. 1¼ l.) Old trees: London district; Swansea: 6-8.

1658 rufescens *Ste. M.* iii. 364. — Rather elongate; dull red; opaque; slightly pubescent: thorax cylindric, punctate, with an obscure dorsal ridge; elytra rather deeply punctate-striate; antennæ and legs pale pitchy-red. (L. 1½-1¾ l.) Old trees: London district: 5-8.

1659 rufus *Marsh.* i. 57. — *Ste. M.* iii. 365. — Short; robust, dull rusty-red; pubescent: head dusky or blackish; thorax deeply punctured; elytra rather deeply punctate-striate, interstices punctured; legs and antennæ pale red. (L. 1¼ l.) Old trees: London district: 5-8.

1660 piceus *Marsh.* i. 58. — *Ste. M.* iii. 365. — Rather narrow, slightly pubescent: head and thorax black, opaque; the latter coarsely punctate, and with a dorsal ridge; elytra dull pitchy, very deeply punctate-striate; body beneath black; legs and antennæ pitchy. (L. 1-1¼ l.) Old trees: London district: 5-7.

1661 fuscescens *Ste. M.* iii. 365. — Narrow; fuscous-black, obscure, slightly pubescent, very thickly punctured: thorax not carinated; elytra deeply crenate-striate, interstices rugose; legs black, tarsi reddish; antennæ testaceous. (L. 1 l.) Old trees: London district: 5-7.

1662 rhododactylus *Marsh.* i. 58. — *Ste. M.* iii. 365. — Minute; black or pitchy; clothed with rigid ashy hairs; head and thorax thickly punctate, the former pitchy; elytra deeply punctate-striate: tarsi and base of antennæ dull red. (L. ½-¾ l.) Old broom stumps: Coombe Wood: 4-5.

339 Hypothenemus *Westwood.*

(1663 eruditus *Ent. Tr.* (*Westw.*) i. 34. pl. vii. f. 1. — *Ste. M.* v. 418. —

Pitchy-black; with fine hairs: thorax tawny, convex and tuberculate in front; elytra punctate-striate; legs and antennæ yellowish. (L. $\frac{2}{3}$ l.) Found in the cover of a book in profusion.)

Fam. 48. CURCULIONIDÆ *Leach.*

cccxl. Rhyncolus *Ant.* 9-jointed, elbowed; *funic.* 7-jointed; club minute: *rostrum* short, broad, flat; or longer than the head, cylindric: *tarsi* sometimes simple.

cccxli. Cossonus *Ant.* 9-jointed, elbowed; *funic.* 7-jointed; club large, ovate, acute: *rost.* elongate, slender, dilated at tip in ♂, ant. near the base in ♀: *body* flat.

cccxlii. Calandra *Ant.* 9-jointed, elbowed; *funic.* 6-jointed; club 2-articulate, elongate subovate, acute: *rost.* elongate, rounded, a little bent: *body* flattish.

cccxliii. Baris *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club obtusely ovate: *rost.* linear, cylindric, longer than the head, bent: *anter. legs* distant at base, *tibiæ* with a stout hook within.

cccxliv. Mecinus *Ant.* 10-jointed, elbowed; *funic.* 5-jointed; club 4-articulate, oval: *rost.* rather short, robust: *body* elongate, nearly cylindric; *pygidium* covered: *anter. tibiæ* compressed, with a horizontal hook at the tip.

cccxlv. Gymnaëtron *Ant.* 10-jointed, elbowed; *funic.* 5-jointed; club ovate: *rost.* filiform, bent, inflexed: *body* ovate: convex, scaly; *pygid.* exposed: *anter. tibiæ* with a minute apical hook.

cccxlvi. Rhinusa *Ant.* 10-jointed, elbowed; *funic.* 5-jointed; club ovate: *rost.* free, narrowed at the tip, more or less bent: *elytra* flattish, sub-4-drate; *pygid.* exposed: *anter. tibiæ* with a minute apical hook.

cccxlvii. Miarus *Ant.* 10-jointed, elbowed; *funic.* 5-jointed; club ovate: *rost.* filiform, bent, with a pectoral groove for its reception: *elytra* flattish, somewhat 4-drate; *pygid.* exposed: *anter. tibiæ* with a minute apical hook.

cccxlviii. Cionus *Ant.* 10-jointed, elbowed; *funic.* 5-jointed, its 2d joint long, clavate; club oblong-ovate, indistinctly articulated: *rost.* elongate, rounded, bent: *tho.* small, transverse; *body* nearly globose, scaly: *elytra* ample, convex; *thighs* toothed; *tibiæ* truncate at tip, unarmed.

cccxlix Cleopus *Ant.* 10-jointed, elbowed; *funic.* 5-jointed, its 2d joint short, obscure; club indistinctly articulate: *rost.* elongate, bent: *tho.* transverse: *body* somewhat elongate-ovate: *elytra* ample, convex; *thighs* toothed; *tibiæ* truncate, anarmed.

cccl. Sphærula *Ant.* 9-jointed, elbowed; *funic.* 5-jointed; club distinctly 3-articulate, acute: *rost.* elongate, slightly bent: *tho.* conic: *body* convex, narrowed behind; *elytra* gibbous: *thighs* stout in the middle; *tibiæ* truncate, unarmed.

cccli. Orobitis *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club ovate, acute: *rost.* inflexed, with a short groove beneath the *tho.* for its reception: *tho.* transverse: *body* ovate, gibbous, polished: *legs* remote at base; *thighs* with a groove beneath; *tibiæ* straight, truncate, unarmed.

ccclii. Cælioides *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club ovate, acute: *rost.* long, inflexed, bent; pectoral groove extending to base of middle legs: *body* broad, ovate, rough: *thighs* unarmed; *tibiæ* with an obtuse tooth outside.

cccliii. Nedyus *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club ovate, acuminated; *rost.* elongate, slender, curved; pectoral groove scarcely reaching beyond the base of the 1st pair of legs: *body* somewhat rhomboidal, rough, scaly: *tibiæ* straight, unarmed.

cccliv. Poophagus *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club elon-

gate-ovate: *rost.* long, bent; pectoral groove short: *tho.* transverse, rounded on the sides: *body* rather elongated, flat: *thighs* with a tooth beneath.

cccliv. CEUTORHYNCHUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club ovate, acuminated: *rost.* long, bent, inflexed; pectoral groove scarcely extending to base of middle legs: *body* somewhat rhomboidal, rough: *tibiæ* straight, unarmed.

ccclvi. RHINONCHUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club ovate, acute: *rost.* short, thick; pectoral groove short: *eyes* prominent: *body* somewhat rhomboidal: *tho.* tuberculated: *elytra* shorter than abdomen: *thighs* and *tibiæ* unarmed; *claws* 2.

ccclvii. MONONYCHUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club oblong, ovate, acute: *rost.* long, slender, curved, cylindric; pectoral groove rather short: *body* broad, thick: *tho.* transverse, produced behind: *elytra* shorter than abdomen: *thighs* unarmed; *tibiæ* with a spur at tip; *claw* 1.

ccclviii. ACALLES *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club short, ovate: *rost.* long, stout, bent, inflexed; pectoral groove deep, elongate: *tho.* rather long: *elytra* somewhat gibbous, united: *scutel.* wanting: *legs* short; *tibiæ* straight, with a hook at the tip; *claws* 2.

ccclix. RUTIDOSOMA *Ant.* 12-jointed; *funic.* 7-jointed; club large, acuminated: *rost.* long, stout, bent; pectoral groove deep, extending to base of middle legs: *tho.* short, rounded on the sides: *scutel.* wanting: *elytra* moveable, globose: *legs* long, stout; thighs toothed; *tibiæ* straight, with a tooth at tip.

ccclx. CRYPTORHYNCUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, its 3 basal joints long; club oval: *rost.* rather long, bent; pectoral groove reaching beyond the base of middle legs, margined: *scutel.* distinct; *elytra* tuberculated: *legs* elongate; *tibiæ* bent at base, with a hook at tip.

ccclxi. BAGOÜS *Ant.* 12-jointed, short, elbowed; *funic.* 7-jointed; club large, oval: *rost.* short, robust, arched: *tho.* somewhat cylindric: *elytra* oblong-ovate, with a prominence behind: *thighs* unarmed: *tibiæ* long, bent, with a hook at tip; *tarsi* slender.

ccclxii. LYPRUS *Ant.* 11-jointed, elbowed; *funic.* 6-jointed; club large, oval: *rost.* long, cylindric, bent; pectoral groove deep, reaching to base of anter. legs: *body* elongate, somewhat cylindric, compressed: *thighs* clavate, unarmed; *tibiæ* slightly bent near the tip, the latter with a stout hook.

ccclxiii. PACHYRHINUS *Ant.* 11-jointed, elbowed; *funic.* 6-jointed; club oblong, somewhat ovate: *rost.* short, thick; no pectoral groove; *scutel.* minute; *elytra* short, ovate, rounded at tip: *thighs* stout, unarmed; *tibiæ* also unarmed.

ccclxiv. ANOPLUS *Ant.* 12-jointed, short, elbowed; *funic.* 7-jointed; club ovate: *rost.* thick, slightly bent, free: *scutel.* small: *elytra* convex, ovate; *pygidium* concealed: *legs* approximating; *thighs* unarmed; *tibiæ* simple; *tarsi* broad, terminal joint ciliated, without a claw.

ccclxv. AMALUS *Ant.* 11-jointed, elbowed; *funic.* 6-jointed; club oblong-ovate: *rost.* long, slender, bent: *scutel.* minute: *elytra* ample, convex, shorter than abdomen: *thighs* robust, unarmed; *tibiæ* straight, also unarmed.

ccclxvi. TYCHIUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club oblong-ovate: *rost.* elongate, free, bent, slightly narrowed at tip: *body* elongate-ovate, densely clothed with scales: *tho.* globose, rounded: *thighs* sometimes dentate; *tibiæ* angulated within, with a hook at the apex.

ccclxvii. MICCOTROGUS *Ant.* 12-jointed, elbowed; *funic.* 6-jointed; club ovate: *rost.* nearly filiform, free, elongate, bent: *body* slender, somewhat scaly: *tho.* transverse, globose: *thighs* and *tibiæ* unarmed.

ccclxviii. Sibinia *Ant.* 11-jointed, elbowed; *funic.* 6-jointed; club robust, oblong-ovate: *rost.* elongate, free, slightly bent and narrowed at the tip: *tho.* produced behind: *body* densely pubescent: *elytra* short, broad, flat: *thighs* stoutish, unarmed; *tibiæ* slightly compressed, tip rather spinose.

ccclxix. Orchestes *Ant.* 11-jointed, elbowed; *funic.* 6-jointed; club thick, oblong-ovate: *rost.* free, elongate, bent, inflexed: *eyes* approximating: *tho.* small; *elytra* wide, oblong-ovate, obtusely rounded at tip: *thighs* (especially the *poster.*) robust, formed for leaping, sometimes denticulated.

ccclxx. Tachyerges *Ant.* 12-jointed, elbowed; *funic.* 7-jointed; club thick, oblong-ovate: *rost.* free, longish, slightly bent, inflexed: *eyes* approximating: *tho.* small, nearly conic, base subtruncate: *elytra* subovate, shoulder obtusely angulated: *thighs* stout, hinder pair thickened, saltatorial, simple; *tibiæ* grooved.

ccclxxi. Balaninus *Ant.* 12-jointed, somewhat broad, elbowed; *funic.* 7-jointed, 2 basal joints longest; club more or less ovate: *rost.* nearly as long as the body, filiform, bent, slender: *body* pubescent, somewhat 3-angular: *scutel.* rounded, elevated: *pygidium* mostly exposed: *legs* longish; *anter. tibiæ* with a minute hook at the tip.

ccclxxii. Anthonomus *Ant.* 12-jointed, long, slender, somewhat basal; *funic.* 7-jointed; club elongate, narrow, acute: *rost.* long, slender, filiform, slightly bent: *body* oblong-ovate, convex: *pygidium* concealed: *thighs* toothed; *anter. tibiæ* dilated in the middle within, tip of all with a minute hook.

ccclxxiii. Hydronomus *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, 1st joint thick, 2d elongate; club large, short-ovate: *rost.* free, shortish, stout: *body* oblong, narrowed behind: *legs* slender; *thighs* unarmed; *tibiæ* curved, with a hook at the tip.

ccclxxiv. Grypidius *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, 2 basal joints longish; club oblong-ovate: *rost.* longish, slender, bent, cylindric: *tho.* globose: *scutel.* small; *body* somewhat ovate: *elytra* nearly ovate, gibbous, tuberculated, deflexed behind: *thighs* unarmed; *tibiæ* nearly straight, *anter.* with a minute hook.

ccclxxv. Erirhinus *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, 2 basal joints longish, obconic; club oblong-ovate: *rost.* very long, bent, nearly filiform: *scutel.* rounded: *body* oblong: *elytra* oblong, not tuberculated, rounded at tip: *thighs* simple; *tibiæ* slightly bent, hooked at the tip.

ccclxxvi. Notaris *Ant.* 12-jointed, elbowed, somewhat apical; *funic.* 7-jointed; club oblong-ovate, acute: *rost.* very long, bent, cylindric: *tho.* somewhat globose: *body* oblong, glabrous: *scutel.* 3-angular: *elytra* oblong-ovate: *thighs* unarmed; *anter. tibiæ* a little bent at tip, toothed.

ccclxxvii. Dorytomus *Ant.* 12-jointed, elbowed, somewhat apical; *funic.* 7-jointed, basal joint long; club oblong-ovate: *rost.* very long, slender, bent: *tho.* short, transverse: *scutel.* small: *elytra* elongate, rounded at tip: *legs* moderate, *anter.* sometimes elongate: *thighs* toothed; *tibiæ* with a slight bend near the tip, and hooked.

ccclxxviii. Pissodes *Ant.* 12-jointed, elbowed, central; *funic.* 7-jointed, basal joint shortish; club oval, acuminate: *rost.* as long as the *tho.*, which is narrowed in front: *body* very hard, oblong-ovate: *scutel.* rounded: *elytra* covering the tip of abdomen: *thighs* unarmed; *tibiæ* straight, hooked.

ccclxxix. Gronops *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, basal joint longish; club large, ovate: *rost.* deflexed, robust, slightly elongate: *tho.* with a deep notch in front: *elytra* ribbed, the ribs ending in a tubercle, the apex deflexed: *thighs* unarmed; *tibiæ* straight, with a hook at the tip.

ccclxxx. Orthochætes *Ant.* 12-jointed, elbowed; *funic.* 6-jointed; club

thick, ovate-globose: *rost.* shortish, ridged above, rough: *tho.* coarctate in front: *scutel.* wanting: *elytra* oblong-ovate, united, clothed with bristles: *wings* 0: *thighs* and *tibiæ* unarmed, the latter slightly waved.

cccclxxxi. PROCAS *Ant.* 12-jointed, slender, elbowed; *funic.* 7-jointed; club oblong-ovate, acute: *rost.* long, somewhat clavate, slightly bent: *tho.* rather globose, waved behind: *scutel.* minute: *body* oblong-ovate, not scaly: *legs* slender; *thighs* and *tibiæ* unarmed.

cccclxxxii. HYPERA *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, its basal joint shorter than the 2d; club oblong-oval: *rost.* stoutish, a little bent, about as long again as the head: *tho.* rounded on the sides: *scutel.* somewhat 3-angular: *body* oblong, or ovate, densely scaly: *thighs* and *tibiæ* unarmed.

cccclxxxiii. ELLESCUS *Ant.* 12-jointed, stoutish, elbowed; *funic.* 7-jointed, its basal joint longer than the 2d; club oblong-oval: *rost.* elongate, slender, slightly bent: *tho.* narrowed in front, the sides rounded: *scutel.* rounded; *body* densely scaly: *elytra* oblong-ovate, with a denuded central spot: *thighs* and *tibiæ* unarmed.

cccclxxxiv. PLINTHUS *Ant.* 12-jointed, stoutish, elbowed; *funic.* 7-jointed, 2 basal joints longish; club short, rather ovate: *rost.* somewhat cylindric, elongate: *tho.* with a dorsal ridge: *scutel.* wanting: *body* elongate, hard: *elytra* oblong, united; *wings* 0: *thighs* dentate; *tibiæ* with a stout hook at the tip.

cccclxxxv. MOLYTES *Ant.* 12-jointed, short, elbowed; *funic.* 7-jointed; club oblong-ovate: *rost.* deflexed, longish, thick, with an obscure stria on each side: *tho.* oblong, rounded on the sides: *scutel.* minute: *body* broad, ovate, glabrous, very hard: *thighs* toothed; *tibiæ* with a strong hook at the tip.

cccclxxxvi. LEIOSOMA *Ant.* 12-jointed, short, stout; *funic.* 7-jointed, basal joint longer than 2d; club oblong-ovate, acute: *rost.* deflexed, stout, longish, striated: *scutel.* minute: *body* broad, ovate, hard, wingless, glabrous: *elytra* punctate-striate: *thighs* obscurely toothed; *tibiæ* with a small apical hook.

cccclxxxvii. HYLOBIUS *Ant.* 12-jointed, shortish, elbowed; *funic.* 7-jointed, basal joint longish; club compact, oblong-ovate: *rost.* elongate, striated, rounded: *scutel.* distinct, rounded: *body* oblong-ovate: *elytra* with a tubercle towards the apex, free; *wings* ample: *thighs* toothed; *tibiæ* with a hook.

cccclxxxviii. TANYSPHYRUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, its basal joint short, thick; club large, somewhat globose: *rost.* elongated, stout, bent, flattish at tip: *scutel.* minute: *body* oblong-ovate: *elytra* deflexed near the apex, the latter narrowed: *legs* elongate; *tibiæ* with a stout apical hook.

cccclxxxix. ALOPHUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, 2 basal joints long; club oblong, somewhat ovate: *rost.* as long again as the head, thickened towards the apex: *tho.* rather oblong: *scutel.* minute, distinct: *body* oblong: *elytra* narrowed to the tip; united: *thighs* unarmed; *tibiæ* dilated at the apex, unarmed.

cccxc. BARYNOTUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, 2 basal joints longish; club oblong-ovate: *rost.* short, stout, thickened at the tip, ridged: *tho.* somewhat transverse, ridged: *scutel.* minute: *elytra* united, notched at the base; suture raised: *body* ovate, wingless: *thighs* unarmed; *tibiæ* with a minute hook.

cccxci. MERIONUS *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, 2 basal joints longish; club oblong-ovate: *rost.* short, stout, thickened at the tip, grooved: *tho.* nearly transverse, with a dorsal channel: *scutel.* minute:

body oblong, wingless: *elytra* united, notched at the base; suture raised at apex: *thighs* unarmed; *tibiæ* with a minute hook.

cccxcii. Leiophlæus *Ant.* 12-jointed, longish, elbowed; *funic.* 7-jointed, 3 basal joints longish; club elongate-ovate: *rost.* as long as the head, stout: *tho.* transverse: *scutel.* 3-angular: *body* ovate, pubescent, wingless: *elytra* entire at base, ample: *thighs* toothed; *tibiæ* unarmed.

cccxciii. Otiorhynchus *Ant.* 12-jointed, long, elbowed; *funic.* 7-jointed, 2 basal joints longish; club somewhat ovate: *rost.* as long as the head, horizontal, thickened and divaricating at the tip, furnished on each side with a lobe beneath the insertion of the antennæ: *tho.* convex: *scutel.* minute: *body* ovate, glabrous, wingless: *abdomen* concave towards the base in ♂.

cccxciv. Trachyphlæus *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, basal joint longer than 2d; club small, ovate: *rost.* as long as the head, deflexed, linear, flattish: *tho.* transverse; sides expanded: *scutel.* wanting: *body* ovate, short, retuse or hispid: *elytra* ample, united: *thighs* unarmed; *tibiæ* hooked.

cccxcv. Philopedon *Ant.* 12-jointed, elbowed; *funic.* 7-jointed, basal joints longer than 2d; club short, ovate: *rost.* very short, broad, flat above, notched at tip: *eyes* prominent: *tho.* transverse: *scutel.* 3-angular: *elytra* very convex, rounded: *thighs* and *tibiæ* unarmed.

cccxcvi. Strophosomus *Ant.* 12-jointed, slender, elbowed; *funic.* 7-jointed, basal joint shorter than 2d; club oblong-ovate: *rost.* short, very broad, notched at the tip: *eyes* globose, very prominent: *tho.* transverse: *scutel.* minute: *elytra* ample, ovate, convex, united: *thighs* and *tibiæ* unarmed.

cccxcvii. Sciaphilus *Ant.* 12-jointed, slender, elbowed; *funic.* 7-jointed, 2 basal joints long; club elongate-ovate, acute: *rost.* scarcely longer than the head, flattish, notched at tip: *eyes* moderate: *body* oblong-ovate, winged: *elytra* large, retuse: *thighs* toothed; *tibiæ* unarmed.

cccxcviii. Brachysomus *Ant.* 12-jointed, thickish, retuse, elbowed; *funic.* 7-jointed; club ovate: *rost.* very short, flat, smooth: *eyes* flattish: *tho.* small, robust: *elytra* ample, somewhat globose, united, hispid: *body* ovate, wingless: *legs* short.

cccxcix. Sitona *Ant.* 12-jointed, short, elbowed; *funic.* 7-jointed, basal joint longer than 2d, remainder nodose; club elongate-ovate: *rost.* short, horizontal, above flat, with a longitudinal channel: *eyes* rather prominent: *scutel.* minute, rounded: *elytra* elongate, rounded, mostly free: *body* oblong, generally winged.

cccc. Polydrusus *Ant.* 12-jointed, longish, elbowed; *funic.* 7-jointed, 2 basal joints nearly equal; club ovate, acute: *rost.* short, thick, slightly rounded: *eyes* slightly prominent: *tho.* small: *body* oblong, densely scaly, winged: *thighs* sometimes toothed; *tibiæ* unarmed.

ccccci. Nemoicus *Ant.* 12-jointed, slender, elbowed; *funic.* 7-jointed, 2 basal joints of nearly equal length; club elongate-ovate: *rost.* short, stout, recurved at tip: *eyes* prominent: *tho* small: *body* elongate, pilose: *elytra* somewhat cylindric, rounded at tip: *thighs* acutely toothed.

ccccii. Phyllobius *Ant.* 12-jointed, stoutish, elbowed; *funic.* 7-jointed, 2 basal joints elongate; club narrow, acute: *rost.* short, horizontal; deeply notched at tip: *eyes* prominent: *tho.* small, narrowed in front: *elytra* oblong, hard: *body* oblong-ovate, very scaly, winged: *thighs* sometimes toothed; *tibiæ* rounded.

ccccciii. Tanymecus *Ant.* 12-jointed, slender, elbowed; *funic.* 7-jointed, basal joint longer than 2d, remainder somewhat turbinated; club oblong-ovate, acute: *rost.* shortish, stoutish: *eyes* flattish: *tho.* oblong, hinder margin elevated: *body* elongate-ovate; *elytra* elongate, acuminated at the tip: *thighs* and *tibiæ* unarmed.

(ccccciv. BRACHYDERES *Ant.* 12-jointed, slender, elbowed; *funic.* 7-jointed, basal joint shorter than 2d; club slender, ovate: *rost.* short, stout, flat: *eyes* slightly prominent: *tho.* short: *elytra* somewhat ovate: *thighs* unarmed.)

(ccccv. RHYTIRHINUS *Ant.* 12-jointed, straight, or faintly elbowed; basal joint longish, 2d globose-conic, longer than 2d; club large, ovate, acute: *rost.* short, robust, inserted in a deep pectoral groove: *tho.* lobate in front, the disc porcate: *elytra* broad, convex, abruptly retuse, rough.)

ccccvi. CLEONUS *Ant.* 12-jointed, apical, short, elbowed; *funic.* 7-jointed, basal joint longer than 2d; club oblong-ovate: *rost.* very short, thick, ridged or grooved: *tho.* somewhat conic, being narrowed in front: *elytra* elongate, with a protuberance near the tip: *body* elongate, convex, pubescent: *thighs* unarmed; *tibiæ* with a small hook.

ccccvii. BOTHYNODERES *Ant.* 12-jointed, shortish, elbowed; *funic.* 7-jointed, 2 basal joints of nearly equal length, short; club somewhat fusiform: *rost.* longer than the head, ridged: *tho.* narrowed in front: *body* elongate: *elytra* oblong, with an apical tubercle: *tibiæ* with a minute hook.

ccccviii. LIXUS *Ant.* 12-jointed, shortish, basal, elbowed; *funic.* 7-jointed; club oblong, fusiform: *rost.* elongate, moderately robust, nearly straight: *tho.* oblong, conic, base waved: *body* oblong, narrow, somewhat cylindric: *elytra* sometimes narrowed and gaping at the apex: *thighs* unarmed: *tibiæ* with a hook.

ccccix. LARINUS *Ant.* 12-jointed, somewhat basal, elbowed; *funic.* 7-jointed; club oblong-ovate: *rost.* robust, shorter than the thorax, ridged at base: *tho.* with a small lobe behind the eyes: *elytra* broad, ovate: *scutel.* minute: *tibiæ* with a stout hook.

ccccx. RHINOBATUS *Ant.* 12-jointed, short, apical, elbowed; *funic.* 7-jointed; club elongate-ovate, obtuse: *rost.* longer than the thorax, slender; slightly bent: *tho.* produced in the middle behind: *elytra* broad, ovate, obtuse: *scutel.* minute: *body* somewhat convex: *thighs* unarmed; *tibiæ* with a minute hook.

ccccxi. RHINOCYLLUS *Ant.* 12-jointed, very short, stout, indistinctly elbowed, sub-apical, joints transverse; club 4-articulate ovate: *rost.* short, thickened, angulated, deflexed, a little bent; base with 2 ridges: *scutel.* very minute: *elytra* oblong, somewhat linear, convex, obtuse: *tibiæ* with a minute hook.

(ccccxii. CHLOROPHANUS *Ant.* 12-jointed, apical, not elbowed; basal joint elongate; club ovate: *rost.* short, with a ridge in the middle, tip deeply notched: *tho.* oblong: *elytra* ample, ovate, tip with a pilose point: *legs* elongate; *anter. tibiæ* curved, the tip hooked.)

ccccxiii. MAGDALIS *Ant.* 12-jointed, medial, slightly elbowed; *funic.* 7-jointed; club oblong-ovate, acute: *rost.* as long again as the head, bent, cylindric: *eyes* large, approximating: *tho.* with the sides produced into a spine-like process in front, or crenulated: *body* somewhat cylindric; *thighs* toothed; *tibiæ* hooked.

ccccxiv. RHINODES *Ant.* 12-jointed, medial, not elbowed; club small, elongate-ovate: *rost.* scarcely longer than the head, nearly straight, cylindric: *eyes* large, approximating: *elytra* somewhat cylindric: *tibiæ* with a minute hook.

ccccxv. PANUS *Ant.* 12-jointed, bent, stout, not elbowed, basal joint elongate; club very large (half the length of the ant.), robust, pilose, somewhat cylindric, the tip rather acute: *rost.* as long as the head, stoutish, slightly bent: *eyes* large: *elytra* convex: *thighs* unarmed.

340 Rhyncolus *Germar.*

1664 ater *L.* ii. 67. — *Ste. M.* iv. 5. note.—Cu. chloropus *Pz. F.* xix. f. 14. — Black; glabrous; punctured; rostrum short, broad, flat: elytra punctate-striate, interstices flat, each with a row of minute punctures; legs and antennæ pitchy-red. (L. 3 l.) Under bark of elm: Copenhagen fields: 4.

1665 lignarius *Marsh.* i. 275. — *Ste. M.* iv. 6. — Pitchy-black; glabrous: head and thorax finely punctured; the latter with an obscure ridge; rostrum longer than the head, cylindric: elytra punctate-striate, interstices flat, smooth: legs and antennæ pale pitchy-red; club of latter palest. (L. 1¼-1½ l.) Bark of elm: Darenth Wood; Hertford, &c.: 5-6.

1666 piceus *Wilkin.* ? — *Ste. M.* iv. 6. — Entirely piceous: thorax deeply and thickly punctate; elytra punctate-striate, interstices punctulate and with a few scattered hairs; rostrum moderate, punctured and porrect. (L. 1¾-2 l.) Taken (accidentally?) beneath Zostera marina, on banks of Orwell, near Ipswich: 5-6.

1667 truncorum *Schuppel.* — *Germ. I. N.* i. 308. — *Ste. M.* iv. 6.—Pitchy; glabrous: thorax convex, suboval, deeply punctured; elytra deeply punctate-sulcate, interstices slightly convex, faintly and remotely punctured: legs and antennæ pale dull red. (L. 1¾-2 l.) Under bark, near Cork: 5-6.

341 Cossonus *Clairville.*

1668 Tardii *Vigors.* — *Cur.* ii. pl. 59. — *Ste. M.* iv. 7. — Pitchy-black, or chestnut; rough, shining: head finely, thorax deeply, punctured; elytra deeply punctate-striate, interstices rough; legs and antennæ pitchy: rostum in ♂ dilated at tip, ♀ filiform. (L. 3-5½ l.) Decayed hollies: Powerscourt Waterfall, Ireland: 7.

1669 linearis *Fab. E.* ii. 496. — *Clairv. E. H.* i. pl. 1. f. 1, 2. — *Ste. M.* iv. 8. — Elongate; black; glabrous; punctured: crown smooth; thorax with a transverse impression behind, and a faint dorsal ridge; elytra of a chestnut hue, deeply punctate-striate; legs and antennæ pitchy-red. (L. 2½-3¼ l.) Boleti on old willows, &c.: Battersea fields; Holloway; Fulham; Epping; Granchester; Cambridge; Bristol; Swansea: 6-7.

342 Calandra *Clairville.*

1670 granaria *L.* ii. 608. — *Clairv. E. H.* i. pl. 2. f. 1, 2.— *Ste. M.* iv. 9. — Pitchy-red, or pale dull red, glabrous, punctured; coarsely so on the thorax: elytra deeply striate, striæ obscurely punctured; legs and antennæ dull red. (L. 1½-2 l.)

Var.? Cu. unicolor *Marsh.* i. 275. — *Ste. M.* iv. 9. — Entirely pale dull red; thorax minutely punctured; elytra obsoletely striated. Granaries: London; Epping; Swansea: 5-7.

(1671 Oryzæ *Fab. E.* ii. 438. — *Herbst. C.* pl. 60. f. 8. — *Ste. M.* iv. 9. note. — Black, or pitchy-black, coarsely punctured; elytra with a dull red spot near the base, and another towards the tip: legs and antennæ dull red. (L. 1-2 l.) Found in rice, London.)

343 Baris *Germar.*

1672 T. album *L.* ii. 609. — Cu. funereus *Herbst. C.* vi. pl. 71. f. 3. — Ba. Atriplicis *Ste. M.* iv. 10. — Linear-elongate; shining black, punctured; thorax with a smooth dorsal line; elytra striate, interstices flat, with a minute row of punctures, and in fine examples (Ba. pilistriatus *Ste. M.* iv. 10.) a line of dusky pile; body beneath and sides of abdomen

clothed with snow-white scales. (L. 1¾ l.) Damp meadows: Battersea; Hertford; Suffolk; Bristol; Crwmlyn Bog: 6.

1673 Artemisiæ *Fab. E.* ii. 456. — *Pz. F.* xviii. f. 10. — *Ste. M.* iv. 11. — Shining black, glabrous; punctate; punctures coarse on the thorax: elytra somewhat crenate-striate; interstices broad, flat, with a row of minute punctures; tarsi and base of antennæ pitchy. (L. 1¼-2 l.) Damp hedges; at roots of Artemesia vulgaris: Battersea; Southend: 6.

1674 picicornis *Marsh.* i. 276. — *Ste. M.* iv. 11. — Shining black, above tinted with deep blue: thorax deeply punctured; elytra striated, interstices finely punctured: tarsi reddish; antennæ pitchy-red, club large, dusky. (L. 1⅔-2 l.) Damp hedges; on Reseda lutea, &c.: Battersea; Gravesend; Norfolk: 6.

1675 impunctatus *Kirby.* — *Ste. M.* iv. 11. — Black, bluish above: thorax obscurely punctured; elytra striated, striæ obsoletely punctate, interstices smooth. (L. 1½ l.) Damp hedges: near London, and in Suffolk: 6.

1676 † analis *Oliv. E.* v. 151. pl. 16. f. 197. — Oblong, black: rostrum bent; thorax rather thickly punctured, with an obscure ridge in front; elytra crenate-striate, interstices obsoletely punctate, from the middle to the extreme tip red. (L. 1¾ l.) Hedges: Isle of Wight: 6.

344 Mecinus *Germar.*

1677 semicylindricus *Marsh.* i. 294. — *Ste. M.* iv. 12. — Cu. Pyrastri *Herbst. C.* vi. pl. 78. f. 6. ? — Linear-elongate; black, with an ashy pile; slightly rugose: elytra punctate-striate, tip sometimes reddish; tarsi and base of antennæ dull red; anter. thighs slightly toothed. (L. 1½-2 l.) Damp fields, &c.: Battersea; Hertford; Ripley; Bristol; Swansea; Norfolk; Raehills, &c.: 5-7.

1678 hæmorrhoidalis *Herbst. C.* vi. 226. pl. 80. f. 4. — *Ste. M.* iv. 12. — Linear-elongate; black, slightly pubescent: thorax thickly punctate; elytra obscurely punctate-striate, the sides and tip pitchy; tibiæ, tarsi, and base of antennæ dull red. (L. 1¼-1¾ l.) Damp hedges: London district; Swansea; Devonshire: 6-7.

1679 circulatus *Marsh.* i. 274. — *Ste. M.* iv. 12. — Linear-elongate; black, villose: lateral margins of thorax and of elytra and body beneath clothed with whitish down; thighs pitchy; tibiæ, tarsi, and antennæ red, club of the latter dusky. (L. 2 l.) Sandy hedges, &c.: London district; Barham, and near Swansea: 3-4.

345 Gymnaëtron *Schönherr.*

1680 Beccabungæ *L.* ii. 611. — *Ste. M.* iv. 13. — Black; densely pubescent: sides of the thorax and the breast clothed with whitish scales; elytra with a faint reddish streak towards the tip; tibiæ, tarsi, and base of the antennæ testaceous-red. (L. 1-1¼ l.) Ripley; New Forest: 5-7.

346 Rhinusa *Kirby.*

1681 Antirrhini *Pk. F.* iii. 257. — *Pz. F.* xxvi. f. 18. — *Ste. M.* iv. 14. — Ovate; black, with a dense whitish pubescence: rostrum straight, slender at tip; thorax roughly granulated; elytra punctate-striate; hinder thighs obscurely toothed. (L. 1½-1⅔ l.) Antirrhinum Linariæ (fl.): London district; Norfolk; Suffolk: 6.

1682 intaminata *Kirby.* — *Ste. M.* iv. 14. — Slender, oblong; black, pubescent: rostrum straight, narrowed at tip: thorax finely granulated; elytra striate, interstices with ashy pile: thighs unarmed. (L. ¾-1¼ l.) London district; Suffolk: 6.

1683 collina *Gyll.* iii. 209. — Black, flattish; rather densely clothed with griseous pile: rostrum slightly bent; thorax punctured; elytra striated, interstices finely punctured; antennæ stout, short, pitchy; thighs clavate, of ♂ with an acute tooth, of ♀ with a small one, nearly obsolete in anterior legs. (L. 1¼-1½ l.) Yorkshire: 6.

1684 tricolor *Marsh.* i. 259. — *Ste. M.* iv. 15. — Black, with an ashy down, brightest on the middle of the thorax behind; elytra rusty-red, base, suture, and 2 oblique bands black; base of antennæ, tibiæ, and tarsi rusty-red: elytra sometimes black, with a red tip. (L. 1¼ l.) Grassy places: London district; Norfolk; Suffolk; N. Wales; Yorkshire: 6.

347 Miarus *Schönherr.*

1685 Campanulæ *L.* ii. 607. — *Herbst. C.* vi. pl. 70. f. 15. — *Ste. M.* iv. 15. — Black; clothed with ashy-white hairs, which are disposed in lines on the elytra; thighs simple: ♀ with penult. segment of abdomen impressed and armed with 2 short teeth. (L. 1½-1¾ l.) On fl. of Campanula rotundifolia: near London; Norfolk; Swansea; New Forest; Carlisle, &c.: 6-7.

1686 Graminis *Gyll.* iii. 210. — *Ste. M.* iv. 16. — Black; clothed with ashy down, disposed in lines on the elytra; rostrum longish, bent, cylindric: legs rather long; thighs clavate, hinder pair with an obscure dentation; antennæ slender. (L. 1¼-1¾ l.) Grassy places: Ripley; Hertford; Cambridge: 6-7.

1687 Linariæ *Pz. F.* xxvi. f. 18. — *Ste. M.* iv. 16. — Black; sparingly clothed with ashy down; rostrum stoutish, very much bent; thorax with a faint dorsal ridge; elytra punctate-striate; thighs clavate, hinder pair slightly toothed. (L. 1½ l.) On Antirrhinum Linaria: Norfolk: 6.

348 Cionus *Clairville.*

1688 Scrophulariæ *L.* ii. 614. — *Don.* ii. pl. 60. — *Ste. M.* iv. 17. — Blackish-brown; thorax entirely and breast densely clothed with a yellowish down: elytra punctate-striate, alternate interstices raised and tessellated with black and white, and the suture with 2 large black satiny spots, with white ones attached; tarsi reddish. (L. 2¼-3 l.) On Scrophularia nodosa, Verbascum Thapsus, &c.; gardens: London district; Bath; Swansea; Harrowby: 6-8.

1689 Verbasci *Fab. E.* ii. 479. — *Ste. M.* iv. 18. — Deep black; sides of the thorax and the breast clothed with a griseous down; elytra as in the foregoing species, but the white replaced by ash-colour, and the sutural spots small. (L. 2-2½ l.) Verbasci, &c.: Hertford; Ripley; Battersea fields; Swansea, &c.: 7-9.

1690 Thapsi *Fab. E.* ii. 479. — *Herbst. C.* vi. pl. 73. f. 2. — *Ste. M.* iv. 18. — Fuscous-brown, clothed throughout with a greenish-ashy pubescence: elytra striated, obsoletely tessellated with somewhat denuded spots on the alternate interstices, the suture with 2 simple black spots; tarsi, and sometimes the anterior tibiæ, reddish. (L. 2½ l.)

Var. ? Cu. hortulanus *Vill.* i. 202. — *Ste. M.* iv. 18. — Clothed with a paler down, and the elytra obscurely tessellated with dusky. On Scrophularia, &c.: Hertford; Gravesend; Northfleet; Ripley; Swansea, &c.: 6-7.

1691 Blattariæ *Clairv. E. H.* i. 66. pl. 3. f. 1, 2. — *Ste. M.* iv. 18. — Fuscous-brown, clothed throughout with ashy-griseous down; the middle of the thorax brown behind: elytra striated, alternate interstices tessellated with brown and ashy, suture with 2 large black spots, the anterior edged with brown; near the scutellum clouded with brown and 2 black dots; legs

testaceous; thighs dusky. (L. 1½-1¾ l.) Verbascum nigrum, &c.: Hertford; Ripley; Norfolk; Bristol; Devonshire; Swansea; Dalmeny, &c.: 6-7.

349 CLEOPUS *Megerle.*

1692 pulchellus *Herbst. C.* vi. 356. pl. 88. f. 1. — *Ste. M.* iv. 19. — Fuscous-brown, clothed with griseous down; elytra striated, alternate interstices raised, tessellated with velvety black spots and erect whitish fascicles of hairs; legs dull red, thighs with a brown cloud. (L. 1½-1¾ l.) Scrophularia aquatica. Hertford abundantly; Cambridge; Bath; Swansea; Harrowby: 6-7.

350 SPHÆRULA *Megerle.*

1693 Lythri *Pk. F.* iii. 263. — *Pz. F.* xvii. f. 8. — *Ste. M.* iv. 20. — Shining black, with a slightly griseous pile; elytra punctate-striate, with a short testaceous band and spot behind covered with whitish hairs; legs and base of the antennæ pale: thorax sometimes red; spots on the elytra more or less united, or nearly wanting. (L. 1-1¼ l.) Lythrum Salicariæ (fl.): London district; Bath; Bristol; Monk's Wood; Swansea: 7-8.

351 OROBITIS *Germar.*

1694 cyaneus *L.* ii. 606. — *Ste. M.* iv. 21. — At. globosus *Pz. F.* lvii. f. 10. — Black, glabrous, shining; clothed with white scales beneath; thorax and elytra bluish, the latter faintly striated; legs and antennæ pitchy. (L. 1-1½ l.) Herbage in sandy lanes: Darenth Wood; Bristol; Swansea; Cumberland; Cramond: 6-7.

352 CÆLIOIDES *Schönherr.*

1695 Geranii *Pk. F.* iii. 256. — *Ste. M.* iv. 24. — *Cur.* xiv. pl. 670. — Black, with whitish scales beneath: thorax obscurely 2-tuberculated, and with a transverse impression in front; elytra striated, interstices with a row of scaly tubercles. (L. 1½-1¾ l.) Geranium pratense, &c.: Ripley; Darenth Wood; Norfolk; Devon; Swansea; Scotland: 6.

353 NEDYUS *Schönherr.*

§ A. *Thorax* not tuberculated, anter. margin not reflexed; *thighs* simple.

1696 Sisymbrii *Herbst. C.* vi. pl. 159. — *Ste. M.* iv. 27. pl. xx. f. 2. — Flattish, black, densely clothed with whitish scales, varied above with fuscous; the rostrum and a spot on the shoulders glabrous and black. (L. 1½-2 l.) On Sisymbrium amphibium: London district; Bristol; Norfolk; Netley; Cramond: 6.

§ B. *Thorax* tuberculated, or its anter. margin elevated, reflexed.

a. Thighs unarmed.

1697 assimilis *Pk. F.* iii. 257. — *Ste. M.* iv. 28. — Cu. Alauda *Herbst. C.* vi. pl. 92. f. 5. — Black, above sparingly, beneath densely, clothed with whitish scales: thorax flattish, with a deep dorsal groove, and obtuse tubercle at each anterior angle; elytra striated, interstices coriaceous; rostrum long, slender. (L. 1½ l.)

♀ ? Cu. obstrictus *Marsh.* i. 255. — *Ste. M.* iv. 28. — More sparingly clothed with scales, the thorax very slightly tubercled, and the elytra faintly striated, interstices simple. On flowers of Brassicæ, &c.: London and Edinburgh districts; Dover; Bristol; Swansea: 6.

1698 Erysimi *Pk. F.* iii. 265. — *Pz. F.* xvii. f. 7. — *Ste. M.* iv. 28. — Black-brass; shining; elytra glossy-blue or greenish, deeply punctate-

striate; thorax with an acute tubercle on each side, and a dorsal channel; legs and suture black. (L. 1¼-1½ l.)

Var. Cr. chloropterus *Kirby*. — *Ste. M.* iv. 29. — More brassy, the elytra brassy-green, and faintly striated. (L. 1-1¼ l.) On tetradynamous plants: London and Edinburgh districts; Netley; Swansea; Suffolk; Raehills, &c.: 5-6.

1699 contractus *Marsh.* i. 250.— *Ste. M.* iv. 29. — Black, rather shining: thorax with an obsolete channel, very suddenly narrowed in front, and with 2 acute tubercles; elytra bluish-black, shoulders prominent, deeply punctate-striate, the apex slightly tubercled. (L. ¾-1 l.) Grassy places: London district; Newcastle; Raehills; Carlisle; Edinburgh: 4-6.

1700 Cochleariæ *Gyll.* iii. 144. — *Ste. M.* iv. 29. — Black, with an ashy pile; base of the suture and the breast dusky, clothed with white scales: thorax convex, with a dorsal channel, its anterior edge bituberculate; elytra deeply punctate-striate, shoulders rounded. (L. 1-1¼ l.) On Cochlearia officinalis: London and Edinburgh districts; Ripley; Raehills: 6-8.

1701 nigrinus *Marsh.* i. 250. — *Ste. M.* iv. 29. — Black, densely clothed with whitish scales beneath: thorax flat, with an obsolete channel, sides with an acute tubercle, hinder margin truncate; elytra faintly crenate-striate, interstices with a row of ashy hairs, shoulders prominent: antennæ pitchy in the middle. (L. 1-1¼ l.) In grassy places: London district; Swansea: 5-6.

1702 constrictus *Marsh.* i. 258. — *Ste. M.* iv. 29. — Black, with an ashy pile: beneath densely clothed with whitish scales: thorax convex, with a faint channel, hinder margin waved, sides with an acute tubercle; elytra faintly crenate-striate, interstices with a row of ashy hairs; antennæ black. (L. 1 l.) On herbage, &c.: London district: 4-6.

1703 floralis *Pk. F.* iii. 266. — *Ste. M.* iv. 30. — Black; body beneath and suture densely clothed with whitish scales: thorax slightly convex, with a dorsal channel, the base bisinuated, the apex 2-tuberculate; elytra faintly crenate-striate, interstices with ashy hairs, shoulders prominent. (L. ¾-1 l.) Hedges: London district; New Forest; Devonshire; Swanel: 5-6.

1704 monostigma *Marsham.* — *Ste. M.* iv. 31. — Black, clothed above with ashy pile, beneath hoary: thorax with a dorsal channel; and an acute tooth on each side in front; elytra obsoletely striated, with a white spot on the suture near the scutellum; shoulders prominent. (L. 1 l.) Hedges, &c.: London district: 5-6.

1705 pyrrhorhynchus *Marsh.* i. 257. — *Ste. M.* iv. 31. — Black; beneath silvery-white: thorax punctured, with an obscure dorsal channel, the base straight, the apex with 2 obsolete tubercles; elytra faintly striated; rostrum with the tip red. (L. ½-¾ l.) Hedges: London district: 5-6.

1706 melanarius *Kirby*. — *Ste. M.* iv. 31. — Black, with an ashy pile, beneath with compact whitish scales: thorax slightly convex, with a faint dorsal channel, the apex with 2 obtuse tubercles; elytra deeply crenate-striate; shoulders slightly prominent. Hedges: London district; Suffolk and Yorkshire: 5-7.

1707 sulculus *Kirby*. ?— *Ste. M.* iv. 32. — Black, sparingly clothed with ashy pile above; the suture behind, and the body beneath, densely clothed with whitish scales: thorax slightly convex, with a deep dorsal channel, the apex with 2 obtuse tubercles, the base somewhat truncate; elytra faintly crenate-striate, shoulders slightly prominent. (L. ¾-1 l.) Hedges, &c.: London district; Suffolk; Norfolk: 4-6.

1708 phæorhynchus *Marsh.* i. 258. — *Ste. M.* iv. 32. — Dusky-black; clothed throughout with a silvery down, whitest beneath: thorax slightly

convex, the base truncate, the apex with 2 obtuse tubercles; elytra faintly crenate-striate; rostrum dull red. (L. 1 l.) Hedges, &c.: London district; Fynone, S. Wales: 4-6.

1709 ruficrus *Marsh.* i. 258. — *Ste. M.* iv. 32. — Black; sparingly clothed with whitish down: thorax convex, anterior margin red, with a tubercle on each side; elytra dull red, faintly striate, interstices with ashy lines; tibiæ testaceous. (L. 1 l.) Hedges, &c.: London district; Norfolk: 4-6.

1710 suturalis *Ste. M.* v. 419. — Black, with a whitish pubescence: thorax with an obscure tubercle on each side in front; elytra reddish, faintly punctate-striate, suture whitish; legs and antennæ pale red. (L. ¾ l.) Hedges: Ripley: 4-6.

1711 Ericæ *Gyll.* iii. 147. — *Ste. M.* iv. 33. — Black; clothed with ashy down, base of the suture and the breast whitish: thorax flattish, with 2 minute tubercles in front; elytra punctate-striate, shoulders slightly prominent; legs, antennæ, and rostrum red. (L. 1 l.) Heath: Ripley; New Forest; Yorkshire: 6.

b. Thighs toothed.

1712 ovalis *L.* ii. 612. ? — *Ste. M.* iv. 33. — Flattish; black, with whitish clouds and spots above, beneath wholly ashy-white: thorax with the disc and a spot on each side black, the former with an interrupted whitish dorsal line; elytra striated; tarsi dull red. (L. 1½-2 l.) Thick herbage: London district; Bristol; Swansea; Devonshire: 4-6.

1713 Litura *Pk. F.* iii. 210. — *Ste. M.* iv. 34. — Flattish, variegated above with black and white spots: thorax with the sides whitish, and an obscure black dot on each, disc with a faint channel; elytra striated; thighs acutely dentate; tarsi and antennæ dull red, or pitchy. (L. 1¾-2 l.) Hedges: London district; Netley; Suffolk: 4-6.

1714 pollinarius *Forst. C.* i. 33. — *Ste. M.* iv. 34. — Flattish; dull black; clothed above with ashy-piceous scales, beneath with whitish; thorax with an acute tubercle on each side in front; elytra faintly striated, with a bent row of tubercles towards the apex, within which is a whitish spot; thighs with a strong tooth, their tips, tibiæ, tarsi, and antennæ dull red, basal joint of the latter pitchy. (L. 1½-1¾ l.)

Var. Ne. caliginosus *Ste. M.* iv. 34. — Scales beneath ashy; elytra spotless. Hedges, among nettles: London district; Bristol; Swansea: 4-6.

1715 Boraginis *Pk. F.* iii. Add. 457. — *Ste. M.* iv. 35. — Cu. 4-dens *Pz. F.* xxxvi. f. 13. — Pitchy-black; with grisescent scales, beneath ashy: thorax with the anterior edge raised, the sides with a minute tooth, disc with a deep channel; elytra delicately punctate-striate, slightly clouded with griseous, base of the suture ashy; legs ashy-red; tarsi red. (L. 1½ l.)

Var. Cu. pallidactylus *Marsh.* i. 259. — *Ste. M.* iv. 35. — Thorax rather narrowed in front; tarsi very pale red. Thick herbage: London district; Swansea; Cummersdale: 5-6.

1716 Quercicola *Pk. F.* iii. 215. — *Herbst. C.* vi. pl. 91. f. 15. — *Ste. M.* iv. 35. — Black, flattish, clothed with ashy scales beneath: thorax with a pale dorsal line, the sides with a tubercle; elytra faintly striated, sprinkled with ashy scales, base of the suture white, apex roughish; thighs slightly toothed; tarsi rusty-red. (L. 1½-2 l.) On oaks, &c.: London district: 4-6.

1717 rugulosus *Herbst. C.* vi. 406. pl. 91. f. 16. ? — *Ste. M.* iv. 35. — Flattish; pitchy-black, with tawny-ashy scales above and ashy ones beneath: thorax flat, with a dorsal channel, the sides whitest, with a slight tubercle; elytra striped with whitish and ash-colour; suture with an

oblong black spot; antennæ and thighs pitchy; tibiæ and tarsi pale testaceous. (L. 1 l.) Hedges: London district; Bristol; Swansea: 5-6.

1718 Chrysanthemi *Germ. S. N.* i. 221. — *Ste. M.* iv. 36. — Black; thorax flat, with a fine dorsal line, and the sides whitish-ash, the latter with a single tooth: elytra with a slender scaly-white flexuous band towards the base, and an indistinct waved one near the tip, base and apex of the suture white, middle black; tibiæ, tarsi, and antennæ dull red. (L. 1¼-1½ l.) Grassy places: Ripley; Knaresborough; Norfolk: 5-6.

1719 melanostigma *Marsh.* i. 256. — *Ste. M.* iv. 36. — Black; beneath pale ashy; thorax ashy, with an obscure dorsal line; elytra black with an ashy pile, the base of the suture whitish, middle black: tibiæ and tarsi dull red; antennæ pitchy. (L. 1¼ l.) Herbage: near Swansea: 5-6.

1720 cinereus *Marsh.* i. 283. — *Ste. M.* iv. 36. — Ashy-black; with whitish scales beneath; ashy above: thorax with a small lateral tubercle; elytra striated, interstices striped with ashy; suture with the anterior half whitish, posterior black; antennæ and legs pitchy; tarsi reddish. (L. 1⅔-2 l.) Hedges: London district; Suffolk: 5-6.

1721 scutellatus *Ste. M.* iv. 37. — Black; thickly clothed with ashy scales, especially beneath: thorax with a faint dorsal channel, the anterior angle with a slight tubercle; elytra obscurely striated, spotless, suture with an oblong white spot at the base. (L. 1¼ l.) Hedges: Ripley and Hertford: 7.

1722 uniguttatus *Marsh.* i. 283. — *Ste. M.* iv. 37. — Black; clothed with ashy scales: thorax cinerescent, with an obscure dorsal line, and 2 obtuse tubercles in front: elytra striated, clouded with ashy brown and hoary; striæ with a fuscous spot in the middle; 4 anterior tibiæ and all the tarsi reddish. (L. 1 l.) Hedges: London district: 6.

1723 Asperifoliarum *Kirby.* — *Ste. M.* iv. 37. — Black; flattish; densely clothed with whitish scales beneath; thorax with the lateral margins rounded, scarcely tuberculate; elytra with a common white spot near the base of the suture, a 2d near the tip, and a bent one near the margin on each side; tibiæ, tarsi, and antennæ dull red, club of the latter dusky. (L. 1½ l.) Hedges: Putney; Hertford; Dover; Swansea: 4-5.

1724 4-maculatus *L.* ii. 609. — *Ste. M.* iv. 38. — Dusky; flattish; with white scales beneath: thorax with the sides rounded, and obscurely 2-tuberculate; elytra striated, with a white scaly spot near the base of the suture, a 2d near the tip, and another towards the middle of the outer margin; legs and antennæ black. (L. 1½ l.) Herbage: London district; Swansea; Yorkshire: 4-5.

1725 Echii *Fab. E.* ii. 482. — *Pz. F.* xvii. f. 12. — *Ste. M.* iv. 38. — Flattish; dull black: variegated above with irregular, more or less united, streaks of white scales; legs black, varied with white. (L. 2½-3 l.) On thistles, Echium vulgare, &c.: London district; Sandgate; Dover; Norfolk; Bristol; Southampton, &c.: 6.

§ C. *Thorax* unarmed, anterior edge reflexed.

1726 horridus *Pz. F.* lxxxiv. f. 9. — *Ste. M.* iv. 38. — Dull red; thorax gibbous, disc armed with spines: elytra striated, dusky towards the suture, and sometimes a central cloud dusky, interstices with a row of erect spines; 4 hinder thighs toothed; antennæ testaceous, club brown; rostrum fuscous. (L. 2-2½ l.) Thick hedges: London district; Norfolk; Bristol: 5-6.

1727 Troglodytes *Fab. E.* ii. 485. — *Ste. M.* iv. 39. — Red-brown, with whitish scales beneath: thorax punctate, notched in front, with 3 rows of

ashy spines; elytra deeply punctate-striate, interstices with sinuated whitish scale-like spines; base and suture occasionally brownish; legs and antennæ testaceous-red; rostrum pitchy-black. (L. 2-2½ l.)

Var.? Cu. pusio *Pz. F.* xxxvi. f. 15.— *Ste. M.* iv. 39. — Brighter; body glabrous; thorax not lineated; elytra with the suture dusky, or black, the tip with muricated scales; legs, antennæ, and rostrum red.

Var.? Cu. spiniger *Herbst. C.* vi. 410. pl. 92. f. 4. — *Ste. M.* iv. 39. — Pale testaceous; elytra with scattered muricated scales, suture fuscous; legs and antennæ pale. Hedges: London and Edinburgh districts; Dover; Swansea; Norfolk: 5-7.

1728 marginatus *Pk. F.* iii. 211. — *Ste. M.* iv. 39. — Black; flattish; with fuscous scales above and whitish beneath: thorax unarmed, reflexed in front; elytra faintly striated, suture with a patch of white scales at the base; thighs obsoletely toothed. (L. 1¼-1½ l.) Among herbage: London district; New Forest; Yorkshire: 6.

1729 Resedæ *Marsh.* i. 256. — Black, flat, with fuscous scales above, pale beneath: thorax unarmed, reflexed in front, the sides pale; elytra faintly striated; suture with a white patch of scales at the base; legs dull red. (L. 1¼ l.) On Reseda lutea: London district; Suffolk; Swansea: 6.

354 Poöphagus *Schönherr.*

1730 Nasturtii *Spence.* — *Ste. M.* iv. 16. f. 1. — Black, clothed with a griseous pile: thorax with a dorsal channel and punctate; elytra dull greenish-brass, punctate-striate, interstices flat; thighs black, toothed; tibiæ and tarsi reddish; antennæ red; tip of rostrum pitchy. (L. 1¾ l.) On Sysimbrium nasturtium: Yorkshire; Notts: 6.

355 Ceutorhynchus *Schüppel.*

§ A. *Thorax* not tuberculate, nor reflexed in front.

1731 Quercus *Herbst. C.* vi. 412. pl. 92. f. 7. — *Ste. M.* iv. 21. — Black-brown, with a few ashy scales above and densely clothed with whitish ones below; elytra faintly punctate-striate, testaceous, with pale ashy waved bands; legs dusky-red. (L. 1-2 l.)

Var. Cu. melanorhynchus *Marsh.* i. 250.— *Ste. M.* iv. 22. — Rostrum black; breast and base of the abdomen fuscous; elytra somewhat clouded with ashy scales. On oaks: London district; Ripley; Swansea; Edinburgh: Carlisle: 5-7.

1732 Cu. ruber *Marsh.* i. 251. — *Don.* xi. pl. 389. f. 1. — *Ste. M.* iv. 22. — Head and thorax fuscescent; breast, abdomen, and rostrum black, tip of latter red.

Var. Cu. rufirostris *Spence.* — *Ste. M.* iv. 23. — Head and thorax fuscescent; elytra pale testaceous-red, spotless, suture brownish; breast and abdomen red; rostrum black, the tip red, or wholly red. On oaks: London district; Bristol; Swansea; Caernarvon; Edinburgh: 6-7.

1733 rubicundus *Pk. F.* iii. 263. — *Pz. F.* xcix. f. 12. — *Ste. M.* iv. 23.— Rather convex, black; with ashy scales above, and whitish beneath; elytra deeply punctate-striate, testaceous-red, suture fuscous, with the base white; legs red. (L. 1 l.) Grassy places: London and Edinburgh districts; Raehills: 4-7.

1734 melanocephalus *Marsh.* i. 253. — *Ste. M.* iv. 23. — Rather convex, black; elytra and legs alone red, the former deeply striated, spotless, striæ obscurely punctured. (L. 1-1¼ l.) In grassy places: Battersea fields; Raehills; Inverary: 5-7.

1735 hæmorrhoidalis *Pz. F.* xcix. f. 11. — *Ste. M.* iv. 23 — Pitchy-brown;

elytra rather deeply crenate-striate, fuscous, with the tip red; legs red; rostrum deep glossy black. (L. 1¼-1½ l.) Grassy places: London district: 6.

§ B. *Thorax* tuberculated, anterior margin reflexed, or raised: *thighs* toothed.

1736 didymus *Pk. F.* iii. 213. — *Herbst. C.* vi. pl. 91. f. 6. — *Ste. M.* iv. 24. — Convex; black; with white scales beneath; thorax with sides densely scaly, with a short tubercle, the disc thickly punctate, and with a channel; elytra deeply punctate-striate, and with 4 whitish scaly spots; tibiæ, tarsi, and antennæ dull-red, club of latter dusky. (L. 1¼-1½ l.)

Var.? Cu. Urticæ *Marsh.* i. 281. — *Ste. M.* iv. 25. — Thorax obsoletely punctate; elytra with a central whitish spot only; tibiæ and tarsi fuscescent. Among nettles: abundant throughout London and Edinburgh districts; Bristol; Norfolk; Devon; Swansea: 4-8.

1737 guttula *Fab. E.* ii. 482. — *Ste. M.* iv. 25. — Cu. Cardui *Herbst. A.* pl. 24. f. 22.? — Flattish, dull black; with whitish scales beneath; thorax with a dorsal channel, punctate; elytra crenate-striate, interstices slightly granulate; suture with an ovate velvety-black spot near the base, and an oblong white one towards the tip; tarsi pitchy. (L. 1¾-2 l.) Hedges: London district; Bristol; Norfolk: 5-6.

1738 fuliginosus *Marsh.* i. 280. — *Ste. M.* iv. 25. — Flattish; brownish-black; whitish beneath: elytra crenate-striate, suture with a whitish scaly spot at the base, a black velvety one towards the middle, and an oblong white one towards the tip; tarsi pitchy. (L. 1½ l.) Hedges: London district: 5-6.

1739 ruficornis *Ste. M.* iv. 25. — Flattish; pitchy-black, with whitish scales beneath; elytra striated, the interstices alternately ashy-brown and fuscous-black; suture with a black spot towards the base; legs and antennæ red. (L. 1½ l.) Hedges: London district: 5-6.

1740 subrufus *Marsh.* i. 282. — *Ste. M.* iv. 26. — Flattish; dull red, with ashy down, whitish beneath; thorax granulated; elytra spotless, simply striate, interstices thickly clothed with short pile; legs and antennæ reddish; rostrum dusky. (L. 1 l.) Hedges: London district and Norfolk: 6.

1741 sulcicollis *Pk. F.* iii. 217. — *Ste. M.* iv. 26. — Rather convex; dull black, with ashy scales beneath; thorax strongly channelled, the anterior margin faintly 2-dentate; elytra with simple striæ, the interstices granulated; breast on each side with a dense patch of white scales. (L. 1½-2 l.)

Var.? Cu. affinis *Pz. F.* lvii. f. 15. — *Ste. M.* iv. 27. — Clothed throughout with ashy scales, especially beneath; elytra faintly striated, interstices scaly. Hedges, &c.: London and Edinburgh districts; Norfolk; Dorset; Swansea: 5-6.

356 Rhinonchus *Schönherr.*

§ A. *Thorax* with 1 tubercle on each side.

1742 Pericarpius *L.* ii. 609. — *Herbst. C.* vi. pl. 91. f. 12. — *Ste. M.* iv. 40. — Broad; black, whitish beneath: thorax with a faint dorsal channel, the lateral tubercles obtuse; elytra deeply punctate-striate, interstices rough; base of the suture snowy-white; legs and antennæ dull rusty-red. (L. 1½-2 l.) Thistles and docks: London district; Dalston, Cumberland; Rachills: 5-6.

1743 Spartii *Kirby.* — *Ste. M.* iv. 41. — Elongate-ovate; black; ashy beneath: thorax with a deep dorsal channel, and an obsolete lateral

tubercle: elytra deeply punctate-striate, interstices coriaceous; suture ashy at the base; legs and antennæ pitchy. (L. 1¼ l.) Broom, on heaths and commons: London district: 5-7.

1744 tibialis *Ste. M.* iv. 41. — Elongate; black, white beneath: thorax slightly punctured, with a faint dorsal channel, and an obscure lateral tubercle; elytra slightly punctate-striate, interstices roughish, suture white at base; thighs black; tibiæ and tarsi rusty-red; antennæ pale dull-red, with the club black. (L. 1-1¼ l.) Hedges: London district; Bristol: 5-6.

1745 flavipes *Ste. M.* iv. 41. — Pitchy-black; with luteous scales beneath: thorax with 3 streaks of luteous scales, lateral tubercles acute; elytra finely striated, interstices with dusky tubercles alternating with luteous scaly spots, suture luteous at the base; legs light luteous-yellow. (L. 1¼ l.) Hedges: London district: 5-6.

1746 Castor *Fab. E.* ii. 451. — *Ste. M.* iv. 41. — Cu. fruticulosus *Herbst. C.* vi. pl. 91. f. 10. — Black, clouded with ashy above; thorax as in the foregoing insect; elytra punctate-striate, interstices with black tubercles alternating with ashy scales; base of suture and body beneath white; legs dull testaceous-red. (L. 1¼-1½ l.) Hedges: London district; New Forest; Devonshire; Bristol; Norfolk; Suffolk; S. Wales: 5-6.

1747 leucostigma *Marsh.* i. 255. — *Ste. M.* iv. 42. — Rather elongate; black, pale beneath; thorax with a faint dorsal line, the sides broadly pale; elytra striated, clouded with ashy, interstices with black tubercles; suture with a white spot at the base, middle dusky, apex white; legs pitchy, anterior thighs dusky. (L. 1½ l.) Hedges: London district: 5-6.

1748 interstitialis *Reich. M.* i. 6. pl. 1. f. 2. — *Ste. M.* iv. 42. — Short; black; nearly glabrous; with a few whitish scales beneath: thorax with a narrow pale lateral margin; elytra faintly striated, interstices with black tubercles, alternating with whitish scales; suture with a white streak at the base; legs red. (L. 1¼ l.) Hedges: London district; Suffolk; Norfolk: 5-6.

1749 rufipes *Ste. M.* iv. 42. — Dull black, clouded above with ashy; thorax immaculate, with an obscure dorsal channel; elytra faintly striated, interstices with small dusky tubercles, alternating with dull ashy scales; legs and antennæ red. (L. 1½ l.) Hedges: London district; Dover: 5-6.

1750 crassus *Marsh.* i. 264. — *Ste. M.* iv. 42. — Dull brown-black, whitish beneath; thorax immaculate; elytra punctate-striate, interstices granulated; legs and base of antennæ red, club of the latter pitchy-black; rostrum black. (L. 1¼ l.) Hedges: London district; Norfolk: 5-6.

1751 canaliculatus *Marsham.* — *Ste. M.* iv. 43. — Cu. inconspectus *Herbst. C.* vi. pl. 91. f. 15.? — Brown-black, somewhat clouded with ashy, beneath whitish: thorax with a deepish dorsal channel, a dense patch of tawny scales behind, and a small dot of the same on each side; elytra striated, interstices granulated, slightly clouded with lutescent scales, base of suture lutescent; legs and antennæ pitchy-red. (L. 1½-1¾ l.) Hedges: London district; Bristol; Norfolk: 5-6.

§ B. *Thorax* with 2 tubercles on each side.

1752 4-tuberculatus *Fab. E.* ii. 448.— *Herbst. C.* vi. pl. 92. f. 3.—*Ste. M.* vi. 43. — Black; beneath whitish: thorax flat, with 3 foveolæ on the disc; elytra rather convex, striated, interstices clouded with ashy white; thighs dusky, with an ashy ring towards the tip, tibiæ and tarsi dull red; antennæ reddish, the club dusky. (L. 1¼ l.) Hedges: Hertford; New Forest; Norfolk: 5-6.

1753 4-cornis *Gyll.* iii. 154. — *Ste. M.* iv. 43. — Black, whitish beneath: thorax slightly convex, deeply punctate; sides whitish; elytra punctate-striate, spotless, suture white at the base; legs and antennæ testaceous, tip of the thighs sometimes dusky. (L. 1¼-1½ l.) Hedges: London district: 6.

357 MONONYCHUS *Schüppel.*

1754 Pseudacori *Fab. E.* ii. 450. — *Cur.* vii. pl. 292. — *Ste. M.* iv. 44. — Dull black; yellowish beneath; punctate; thorax with the lateral margins slightly reddish; elytra striated; suture with a whitish spot at the base; base of antennæ dull red. (L. 2 l.) On Iris pseudacorus: Isle of Wight and Devonshire: 7-8.

358 ACALLES *Schönherr.*

1755 Ptinoides *Marsh.* i. 258. — *Ste. M.* iv. 44. — Pitchy, with scattered ashy scales above, mixed with erect muricated black spines; thorax oblong, deeply punctate; elytra deeply and coarsely punctate-striate, variegated with ashy; legs, antennæ, and rostrum dull red, the former with ashy clouds. (L. 1-2 l.) On heaths, &c.: Hampstead; Coombe Wood, Hertford; Ripley; Devon; Swansea: 4-7.

1756 Roboris *Cur.* xii. pl. 550. — Ac. variegatus *Ste. Cat.* No. 1599. — Pitchy, with ashy ochreous scales above, slightly erected: thorax with the back flat and deeply grooved, blackish, the sides ochreous-yellow; elytra deeply and coarsely punctate-striate, interstices elevated, with an irregular blackish band across the middle, the space behind which is occasionally pale ashy; legs pitchy, annulated with brown; antennæ and rostrum dull red. (L. 1¾-2 l.) On oaks, &c.: Hertford; Suffolk: 6.

359 RUTIDOSOMA *Stephens.*

1757 globula *Herbst. C.* vi. 398. pl. 91. f. 7. — *Ste. M.* vi. 45. — Black; somewhat opaque; with the sides of the breast, and a stripe on the suture, clothed with whitish scales; elytra deeply sulcated and punctured, interstices narrow and crenate; legs and antennæ pitchy. (L. ¾-1 l.) On sallows: Coombe Wood: 6.

360 CRYPTORHYNCHUS *Illiger.*

1758 Lapathi *L.* ii. 605. — *Linn. Tr.* (*Curtis*), i. 86. pl. 5. f. 1 — 5. — *Ste. M.* iv. 46. — Black, opaque; sides of the thorax, an irregular band at the base of the elytra, and the tip of the latter whitish; thorax and elytra also varied with black scaly patches; legs black, varied with whitish. (L. 4-6 l.) On willows and alders: London and Edinburgh districts; widely distributed: 5-6.

361 BAGOÜS *Germar.*

1759 binodulus *Herbst. C.* vi. 247. pl. 77. f. 15. — *Ste. M.* iv. 47. — Black, densely clothed with fuscous scales: elytra flattish in front, faintly punctate-striate, alternate interstices raised, the 2 outer ones terminating in an elevated tubercle; tibiæ dull red at the tip. (L. 2½-3 l.) Marshy districts: Battersea fields; Norwich; Crwmlyn Bog: 6.

1760 lutosus *Gyll.* iii. 85. — *Ste. M.* iv. 48. — Black, clothed with ashy scales: elytra rather convex at the base, faintly punctate-striate, suture and alternate interstices elevated, 4th terminating in an obtuse tubercle; legs entirely pale dull red. (L. 2-2½ l.) Marshy places: Ripley; Hertford; Norfolk; Lancashire: 6.

1761 lutulentus *Gyll.* iii. 86. — *Ste. M.* iv. 48. — Black, variegated with

ashy scales; elytra with the tip rounded, faintly punctate-striate, alternate interstices slightly raised, the 4th terminating in an obscure tubercle; tibiæ dull red; tarsi fuscous. (L. 1½-2 l.) Marshy places: London district; Carlisle: 6.

1762 binotatus *Marsham*? — *Ste. M.* iv. 48. — Black; sides of the thorax ashy; elytra faintly striated, interstices not raised, the 4th with an obscure tubercle, apex rather narrowed; disc with a round white, or ashy, spot; legs fuscous. (L. 1½-2 l.) Marshy places: London district: 6.

1763 tibialis *Ste. M.* iv. 49. — Ba. Beckwithii *Kirby MSS.*? — Dusky-black; thorax immaculate: elytra slightly clouded with ashy, with a pale raised spot on the disc, the tip slightly narrowed, disc obscurely striated, interstices flat, the 4th with a faint tubercle; tibiæ pitchy-red. (L. 2 l.) Marshy places: London district; Suffolk: 6.

362 Lyprus *Schönherr.*

1764 cylindrus *Gyll.* iii. 78. — *Ste. M.* iv. 49. — *Act. Hal.* (*Ahr.*) ii. pl. 1. f. 9. — Linear-elongate; dusky, with ashy scales: elytra faintly punctate-striate, interstices coriaceous; thighs black; tibiæ and antennæ dull red, or slightly piceous; tarsi fuscous. (L. 1½ l.) On water-cresses, &c.: London district: 6.

363 Pachyrhinus *Kirby.*

§ A. *Thorax* with 1 tubercle on each side.

1765 leucogaster *Marsh.* i. 253. — *Ste. M.* iv. 50. — Fuscous; clothed with ashy scales above, whitish beneath: thorax with the sides and a faint dorsal line whitish; elytra simply striated, ashy-brown; legs reddish, joints black; antennæ pitchy-red, club dusky. (L. 1½-1¾ l.) Hedges: London district; Bristol: 5-6.

1766 rufescens *Ste. M.* iv. 50. — Dark pitchy-red, ashy beneath: thorax with a faint dorsal channel, covered with whitish scales; elytra broad, spotless, faintly striated, suture with a whitish patch at the base; legs and antennæ red. (L. 1¼-1½ l.) Hedges: London district; Bristol: 5-6.

1767 Comari *Herbst. C.* vi. 411. pl. 92. f. 6. — *Ste. M.* iv. 51. — Black; beneath whitish, above variegated with ashy: thorax punctured, the sides and a faint dorsal channel clothed with whitish scales, lateral tubercles obscure; elytra as wide again as the thorax, convex, obsoletely punctate-striate, interstices convex; thighs black; tibiæ and tarsi testaceous; antennæ pale dull red, 2d joint dusky. (L. 1¼-1½ l.) On Comarum palustre: London district; Bristol; New Forest; Norfolk: 6.

§ B. *Thorax* with 2 tubercles on each side.

1768 4-dentatus *Ste. M.* iv. 51. — Black, with ashy scales above, and whitish beneath: thorax with 4 acute tubercles, the sides rather ashy, the disc with a faint channel; elytra striated, interstices slightly raised, spotless; tibiæ dull red; tarsi dusky. (L. 1½ l.) Hedges: London district; New Forest: 5-6.

1769 4-nodosus *Gyll.* iii. 155. — *Ste. M.* iv. 51. — Black; beneath whitish: thorax deeply punctured, anterior margin with 2 approximating tubercles, lateral margins ashy, each with 1 tubercle; elytra very convex, pitchy-black, punctate-striate, interior interstices roughish, exterior with acute tubercles; base of suture whitish; legs red, thighs dusky at tip. (L. 1½ l.) Hedges: London district; Bristol: 5-6.

1770 Myriophylli *Gyll.* iii. 152. — *Ste. M.* iv. 52. — Flattish; black, opaque, densely clothed with white scales beneath, and sprinkled with dirty white and whitish above; thorax with a deep dorsal channel, and an

oblique fovea on each side; suture with a whitish spot at the base; legs testaceous red; joints and tarsi dusky. (L. 1½ l.) On water-dock, &c.: London district; Newcastle: 5-6.

364 Anoplus *Schönherr.*

1771 plantaris *Næzin. Act. Hal.* 1794. 270. — *Ste. M.* iv. 52. — Black; somewhet glossy; head and thorax punctured, the latter with a faint dorsal channel; elytra deeply crenate-striate, interstices smooth; scutel. whitish; body punctured beneath, sides of the breast with a dense whitish pile; antennæ with 2 basal joints testaceous; base of rostrum punctate. (L. 1 l.)

Var. Rh. nitidulus *Wilkin.*? — *Ste. M.* iv. 53. — Scutel. black; antennæ pitchy at the base.

Var. Rh. atratus *Wilkin.*? — *Ste. M.* iv. 53. — Scutel. and antennæ entirely deep black. On birch and alder: Coombe and Darenth Woods; Black Hall Wood, Cumberland: 5-6.

365 Amalus *Schönherr.*

1772 scortillum *Herbst. C.* vi. 418. pl. 92. f. 13. — *Ste. M.* iv. 53. — Black; with whitish scales beneath; elytra deeply punctate-striate, the tip red, the suture with a white patch of scales at the base: legs red. (L. 1 l.) Grassy places: Battersea fields; Ripley: 6.

1773 castaneus *Wilkin.*? — *Ste. M.* iv. 54. — Pitchy-red; whitish beneath: elytra punctate-striate, pale chestnut-red, with the tip paler, suture concolorous at the base; legs red. (L. 1 l.) Grassy places: London district and Norfolk: 5-6.

366 Tychius *Germar.*

§ A. *Thighs* toothed.

1774 5-punctatus *L.* ii. 614. — *Ste. M.* iv. 54. pl. xx. f. 3. — Black; clothed above with purplish-gold scales, beneath snowy; thorax with a snowy-white dorsal line: elytra with the suture and 2 spots white; thighs pitchy-black; tibiæ, tarsi, and antennæ dull red (L. 2½ l.) South Creek, Norfolk: 6.

1775 venustus *Fab. E.* ii. 456. — *Herbst. C.* vi. pl. 71. f. 2. — *Ste. M.* iv. 55. — Black, with ashy scales above and white beneath: thorax and elytra more or less striped with white; thighs slightly toothed, pitchy; tibiæ, tarsi, antennæ, and tip of rostrum dull red. (L. 1½-2 l.)

Var. Cu. nervosus *Marsh.* i. 282. — *Ste. M.* iv. 55. — Clothed with griseous scales; legs and rostrum wholly testaceous-red. On the broom: Darenth and Coombe Woods; Norfolk; Suffolk; Swansea: 5-6.

§ B. *Thighs* not toothed.

1776 Meliloti *Kirby.* — *Ste. M.* iv. 55. — Pitchy-red; densely clothed above with yellowish down; beneath whitish: thighs dusky; rostrum pitchy. (L. 1¼ l.) On the melilot: London district; Suffolk: 5-6.

1777 flavicollis *Kirby.* — *Ste. M.* iv. 56. — Pitchy-red; thorax clothed with a yellowish down, elytra with griseous, the edges of the former somewhat ashy; legs and antennæ wholly testaceous; rostrum pitchy. (L. 1¼ l.) In grassy places: London district; Suffolk: 6.

1778 tomentosus *Herbst. C.* vi. 278. pl. 81. f. 7. — Ty. picirostris — *Ste. M.* iv. 56. — Pitchy-black, clothed above with an uniform glossy silken olivaceous down, beneath ashy-white; legs, antennæ, and tip of the suture red (L. 1¼ l.) In corn fields, on Trifolium pratense, &c.: London district; Ripley; Suffolk; Swansea: 4-6.

1779 Stephensi *Sch. S.* (*Cur.*) iii. 412. — Ty. tomentosus *Ste. M.* iv. 56. — Black, clothed with pale down, tinted with ochreous on the thorax, legs and antennæ testaceous-red; rostrum pitchy at the tip. (L. 1½ l.) In corn-fields: London district: 4-6.

1780 canescens *Marsh.* i. 259. — *Ste. M.* iv. 56. — Pitchy, clothed with hoary down: eyes black; head, a narrow dorsal line, and the sides of the thorax somewhat ashy; suture of elytra dusky, or black; legs and antennæ pitchy-red. (L. 1½ l.) In fields: London district; Devon: 5-6.

1781 parvula *Kirby.* — *Ste. M.* iv. 57. — Black; sparingly clothed with olivaceous down; base of antennæ red-brown; legs and antennæ wholly red. (L. 1 l.) Fields: London district; Suffolk: 6.

367 Miccotrogus *Schönherr.*

1782 picirostris *Fab. E.* ii. 449. — Mi. cinerascens *Ste. M.* iv. 57. — Slender; dusky, with ashy down, beneath paler; thighs blackish; tibiæ and tarsi dull red; club of the antennæ fuscous. (L. 1¼ l.) Corn-fields: Ripley: 1-6.

1783 lineatulus *Kirby.* — *Ste. M.* iv. 57. — Dusky-black, with lead-coloured down; sides of the thorax and a narrow dorsal line pale; elytra with the suture white: legs and antennæ red. (L. 1¼ l.) Hedges: New Forest; Devonshire: 6.

368 Sibinia *Germar.*

1784 Arenariæ *Kirby.* — *Ste. M.* iv. 58. — Black, clothed with grisescent pubescence above, and whitish beneath; elytra with a large coarctate dusky-reddish patch at the base of the suture, edged behind with whitish; legs and antennæ dull testaceous. (L. 1½ l.) In sandy districts: New Forest; Devonshire: 6.

1785 primita *Herbst. C.* vi. 104. pl. 66. f. 8. — *Ste. M.* iv. 58. — Black; clothed above with a rusty-golden down, beneath with whitish; elytra with a common fuscous blotch in the middle of the back, edged with whitish behind; legs dusky, tibiæ and tarsi reddish; antennæ pitchy, club black. (L. 1-1¼ l.) Hedges: London district: 6.

1786 Viscariæ *L.* ii. 609. — *Ste. M.* iv. 58. — Black, densely clothed with greenish-ashy down above, beneath with whitish: thorax produced into an angle in the middle of the base; legs black; antennæ pitchy at the base. (L. 1½ l.) Chalky districts; Ripley; Brighton: 6-7.

369 Orchestes *Illiger.*

§ A. *Hinder thighs* denticulated beneath.

1787 Quercus *L.* ii. 609. — *Ste. M.* iv. 59. — Cu. rufus *Don.* xi. pl. 389. f. 3. — Testaceous-red, pubescent: eyes and breast black; scutel. whitish; elytra with a large triangular, common, ashy-pubescent blotch at the base; 4 anterior thighs with a minute spine in the middle; hinder pair with a double row of 6 or 7 spines. (L. 1½-2½ l.)

Var. Cu. depressus *Marsh.* i. 262. — *Ste. M.* iv. 61. — Brown-black; antennæ, tibiæ, and tarsi reddish; rostrum red. On oaks: widely distributed throughout Britain: 5-6.

1788 scutellaris *Fab. E.* ii. 495. — *Ste. M.* iv. 59. — Cu. rufus *Don.* vii. pl. 249. f. 1. — Oblong; rusty-red; eyes, tip of the rostrum, thorax beneath breast and abdomen black; scutel. clothed with whitish pile; anterior thighs unarmed, hinder pair with a single tooth in the middle. (L. 1½ l.) Alder and hazel: Coombe and Darenth Woods; Carlisle; Swansea: 5-6.

1789 semirufus *Gyll.* iv. 597. — *Ste. M.* iv. 60. — Oblong; black; pubescent: scutel. with whitish pile; elytra ample, rusty-red; legs dull testaceous-red; hinder thighs sometimes dusky, denticulated beneath; antennæ rusty-red, the club fuscous. (L. 1½ l.) London district: 6.

1790 melanocephalus *Oliv. E.* v. 100. pl. 32. f. 483. — Cu. ferrugineus *Ste. M.* iv. 60. — Oblong; flattish; black, with an ashy pile: thorax, elytra, apex and sides of the abdomen, antennæ and legs rusty-red, joints of the latter black; hinder thighs spinulose. (L. 1½ l.)

Var. Cu. atricapillus *Marsh.* i. 261. — *Ste. M.* iv. 60. — Testaceous, with the head, eyes, breast, and base of the abdomen black. On oaks: London district; Bristol; Devon; Swansea: 6-8.

1791 nigricollis *Marsh.* i. 261. — *Ste. M.* iv. 61. — Oblong; black; pilose: elytra dull red, disc rather obscure; apex of the abdomen, antennæ and legs dull red; hinder thighs with 2 rows of denticulations; tip of rostrum dull red. (L. 1½ l.) On elms: London district: 5-7.

1792 Alni *L.* ii. 611. — *Don.* vii. pl. 249. f. 2. — *Ste. M.* iv. 61. — Black; pubescent; thorax, elytra, tip of abdomen and tarsi testaceous-red: elytra with an oblong black spot at the base, and a large rounded one on the disc; hinder thighs angulated beneath, with a central tooth and a row of rigid cilia: — the spots on the elytra are sometimes united, or are very obscure, but rarely wanting. (L. 1¼-1½ l.) On elms: extremely abundant in S. of England; S. Wales, &c.: 4-8.

1793 Ilicis *Pk. F.* iii. 218. — *Oliv. E.* v. 101. pl. 32. f. 486. — *Ste. M.* iv. 62. — Oblong-ovate; black; variegated with an ashy-white pubescence; mixed with ochreous on the elytra; base of suture with a white streak; antennæ and tarsi testaceous; 4 anterior thighs with a single tooth, hinder pair with a tooth and a row of short spines. (L. 1½ l.) Hedges: London district, &c.: 5-6.

1794 pubescens *Sch. S.* (*Cur.*) iii. 495. — Ov. pilosus *Ste. M.* iv. 62. — Oblong-ovate; black, with a dense ashy pile; scutel. and sides of the breast whitish; elytra irregularly clothed with depressed ashy hairs, forming 5 somewhat denuded spots: base of antennæ testaceous; hinder thighs angulated beneath, and armed with a single tooth. (L. 1¼-1½ l.) On oaks and birches: London district; New Forest; Devon; Swansea; Bristol, &c.: 5-6.

1795 Fagi *Fab. E.* ii. 495. — *Ste. M.* iv. 62. — Cu. calcar *Oliv. E.* v. 103. pl. 32. f. 488. — Elongate-oval; black; spotless; slightly pubescent; antennæ and tarsi pale testaceous; all the thighs 1-dentate, hinder pair angulated, and with a stouter tooth. (L. 1¼ l.) Woods and hedges: London and Edinburgh districts; Swansea: 5-7.

1796 rhodopus *Marsh.* i. 263. — *Ste. M.* iv. 63. — Oblong; rough; fuscous; slightly pubescent: eyes brown; legs and antennæ red; elytra faintly striated; hinder thighs fuscous, slightly denticulate. (L. 1 l.) London district: 6.

1797 tomentosus *Vought.*? — *Schon. S.* (*Cur.*) iii. 497. — Ov. Waltoni *Cur.* xv. pl. 678. — Oblong; black, with short palish hairs throughout: rostrum rather long; eyes approximating; antennæ dull red, club pitchy at the tip; hinder thighs angulated beneath, and furnished with a few short bristles; tarsi dull red, the tip pitchy. (L. 1¼-1½ l.) Hedges: Hertford and Knaresborough: 8-9.

§ B. *Hinder thighs* simple.

1798 † Loniceræ *Fab. E.* ii. 495. — *Herbst. C.* vi. 427. pl. 93. f. 9. — *Ste. M.* iv. 63. — Oval; luteo-ferruginous; pubescent: eyes, breast, abdomen, and a band on the hinder thighs black: elytra with a humeral dot, and an

irregular narrowed central band blackish brown; antennæ pale. (L. 1¼ l.) On Lonicera Xylosteum; Spitchweek, Devon: 6.

1799 Populi *Fab. E.* ii. 495. — *Oliv. E.* v. 100. pl. 32. f. 484. — *Ste. M.* iv. 67. — Oblong-ovate, black; breast with a dense whitish pubescence: antennæ and legs pale testaceous; hinder thighs with a black ring. (L. 1⅓ l.) London district?

1800 Salicis *L.* ii. 611.? — Or. Avellanæ *Ste. M.* iv. 64. — *Don.* vi. pl. 205. f. 3. — Oval, black; thorax entirely clothed with a whitish pile; elytra with a large lobed, or heart-shaped, patch of the same, forming 2 crescents, and a short band behind, with a few dull red hairs intermixed near the tip; tibiæ, tarsi, and antennæ testaceous. (L. 1-1¼ l.)

Var. Or. X-album *Kirby.* — *Ste. M.* iv. 64. — With the lobate patch on the elytra forming an X; the posterior band wanting. On hazel: London district; Bristol; Suffolk; S. Wales: 5-6.

1801 Rusci *Herbst. C.* vi. 424. pl. 93. f. 16.? — Or. bifasciatus *Ste. M.* iv. 64. — Ovate, black: elytra somewhat deeply striate, with a pilose white stripe near the scutellum; a bent bar of the same near the middle, and a short straight one towards the apex, the latter sometimes ochreous; tarsi and antennæ red. (L. 1¼ l.) In woods: London district; S. Wales: 5-6.

370 TACHYERGES *Schönherr.*

1802 Capreæ *Fab. E.* iii. 452. — *Don.* iv. pl. 125. f. 5-7. — Ta. Salicis *Ste. M.* iv. 66. — Ovate, black: elytra striated; scutellum, and 2 unequal, bent, flexuous bands white, with a light rusty-red patch between the latter on the suture; antennæ red at the base. (L. 1¼-1½ l.) On willows: London district; Swansea; Carlisle, &c.: 5-7.

1803 decoratus *Schüppel — Germ. M.* iv. 333. — *Ste. M.* iv. 65. — Oval, black; scutellum white; elytra with 2 obscure bands, composed of whitish streaks; tibiæ, tarsi, and antennæ testaceous red. (L. 1¼-1⅓ l.)

Var. ? Or. affinis *Ste. M.* iv. 65. — Rather larger (L. 1½ l.), darker, elytra spotless. Woods: London district: 5-6.

1804 confundatus *Sch. S.* (*Cur.*) iii. 503. — rufitarsis *Ste. M.* iv. 67. — Oblong-ovate, black; scutellum of the same hue; tarsi and antennæ testaceous-red. (L. 1½ l.) Woods: London district: 6.

1805 Stigma *Germ. M.* iv. 334. — *Ste. M.* iv. 67. — Oblong-ovate, convex, black: thorax oblong, conic; scutellum with snowy pubescence; elytra deeply crenate-striate, interstices rough; eyes united in front: sides of the thorax sometimes clothed with whitish pile. (L. 1¼-1½ l.) On willows and alders: London district; Norfolk; Bristol; Swansea: 5-7.

1806 Saliceti *Fab. E.* ii. 496. — *Ste. M.* iv. 66. — Oblong-ovate, black, slightly pubescent; elytra convex, deeply punctate-striate; breast clothed with whitish pile; tibiæ and base of the antennæ testaceous. (L. ¾-1 l.)

Var. Or. scutellatus *Wilk.*? — *Ste. M.* iv. 67. — Scutellum whitish, and anterior femora dull red-brown. On willows, poplars, &c.: London district; Norfolk; Bristol: 5-8.

371 BALANINUS *Germar.*

§ A. *Pygidium* not covered by the elytra.

1807 elephas *Andersch.* — *Sch. S.* (*Cur.*) iii. 378. — Cu. nucum var. *Oliv. E. V.* 215. pl. 5. f. 47. — Elongate-ovate; red-brown, clothed with whitish scales, varied with griseous on the elytra: legs testaceous: rostrum very slender, long, of the ♀ longer than the body, smooth, red, with the tip black; funiculus with all the joints elongate, slender. (L. 4-5½ l.) Rare; woods: London district: 6.

1808 Nucum *L.* ii. 673. — *Samou.* pl. ii. f. 20. — *Ste. M.* iv. 68. — Elongate-ovate: covered with yellowish or ashy scales, somewhat variegated and banded on the elytra, and very dense on the angles of the breast and the scutellum, the latter large and rounded; legs dull pitchy-red; rostrum red, very long, especially in ♀, slender, rather stoutest at the base, carinated and striate; funiculus pilose, with the terminal joints short, somewhat nodose, and nearly globose. (L. 3-5 l.) On the nut and hazel: London district, and generally distributed: 5-7.

1809 glandium *Marsh.* i. 233. — *Ste. M.* iv. 69. — Ba. venosus *Germ. M.* iv. 294. — Oblong-ovate, clothed with yellowish or ashy pubescence, somewhat varied and banded on the elytra; the pile towards the apex of the suture elevated and forming a crest; thorax with a faint dorsal line and a broad stripe on each side pale; scutellum oblong, very narrow, with whitish scales; rostrum red, moderate, thickened at the base, striate; antennæ dull red, funiculus with oblong joints. (L. 3-4½ l.) On oaks: London district: 5-6.

1810 turbatus *Sch. S.* (*Cur.*) iii. 383. — Ovate; black; densely clothed with yellowish scales; scutellum whitish; legs dull pitchy-red; rostrum very long, of the ♀ nearly as long as the body, slender, much curved, smooth, red, funiculus with all the joints elongate, a little thickened at the tip. (L. 3½-3 l.) Woods: London district: 6.

1811 villosus *Herbst. C.* vi. 195. pl. 73. f. 8. — *Ste. M.* iv. 69. — Black, flattish; slightly sprinkled with griseous pubescence: scutellum, and a short broadish band across the elytra near the tip, dull yellowish; antennæ dull red. (L. 2½-4 l.)

Var. ? Cu. tenuirostris *Herbst. C.* vi. 210. — *Don.* vii. pl. 249. f. 3. — *Ste. M.* iv. 70. — With the scattered pubescence, scutellum, and band on the elytra, whitish. On the oak: London district; Suffolk; Bristol; Swansea: 6-7.

1812 Betulæ *Ste. M.* iv. 70. pl. xx. f. 4. — Cu. cerasorum *Herbst. C.* vi. 196. pl. 73. f. 9. — Flattish; red-brown, variegated with yellowish pubescence; scutellum whitish: legs testaceous; thighs obsoletely toothed; rostrum red, as long as the body. (L. 2-3 l.) On birch: Coombe Wood and Wimbledon Park: 6.

§ B. *Pygidium* nearly covered by the elytra.

1813 Brassicæ *Fab. E.* ii. 483. — Cu. Salicivorus *Herbst. C.* vi. 200. pl. 73. f. 12. — *Ste. M.* iv. 71. — Black, with an ashy down above; scutellum, body beneath, and breast entirely clothed with snow-white scales; elytra striated, interstices widish; basal joint of the antennæ dull red; rostrum very long, slender. (L. 1¾-2 l.)

Var. Ba. scutellaris *Wilkin.* ? — *Ste. M.* vi. 72. — With the antennæ wholly black; scutellum white.

Var. ? Ba. intermedius *Marsh.* i. 288. — *Ste. M.* iv. 72. — Smaller; the antennæ nearly, or entirely testaceous. Potherbs and willows: London district; Norfolk; Bristol; Swansea: 5-8.

1814 pyrrhoceras *Marsh.* i. 288. — *Ste. M.* iv. 71. ♂ — Cu. curvatus *Marsh.* i. 287. — *Ste. M.* iv. 71. ♀ — Black, with a slightly ashy pubescence above; scutellum and body beneath with white scales, the disc of the breast somewhat denuded; elytra striated, interstices rather narrow; antennæ testaceous, club dusky; rostrum very long, slender, the tip broadly red in the ♂. (L. 1½-2 l.) On willows, in hedges, &c.: London district; Swansea: 5-7.

1815 brunneus *Marsh.* i. 248. — *Ste. M.* iv. 72. — Pitchy-black, slightly

pubescent; ashy beneath: thorax rough; elytra deeply punctate-striate; legs wholly testaceous, antennæ pitchy. (L. 1 l.) Hedges: London district: 6-7.

1816 † Crux *Fab. E.* ii. 455. — *Oliv. E.* v. 154. pl. 29. f. 440. — *Ste. M.* iv. 37. — Black; antennæ red; thorax with 2 spots at the base, and a white cross on the elytra, of whitish scales. (L. 1 l.) Devonshire?

372 ANTHONOMUS *Germar.*

§ A. *Thighs* acutely toothed.

1817 incurvus *Pz. F.* xxxvi. f. 17. — *Ste. M.* iv. 73. — Pitchy-brown, with an ashy down: head, rostrum, and disc of thorax black; scutellum snowy; elytra dusky-black, shoulders and margins dull red, with an obscure oblique bar behind the middle on the back; club of antennæ dusky; elytra sometimes nearly wholly dull red. (L .2-3 l.) On flowers: London district; Bristol; and W. of England: 5-6.

1818 Pomorum *L.* ii. 612. — *St. M.* iv. 73. — *Cur.* xii. pl. 562. — Pitchy-brown or blackish, with an ashy down: elytra dull red, with an oblique whitish band behind, included between 2 blackish denuded ones; scutellum snowy; thighs dusky in the middle; rostrum slender, curved, pitchy. (L. $1\frac{1}{2}$-$2\frac{1}{2}$ l.) On blossoms of whitethorn, &c.: London and Edinburgh districts; rather generally distributed: 5-6.

1819 Ulmi *De Geer.* v. 215. pl. 6. f. 26—30. — *Ste. M.* iv. 74. — Testaceous-red, slightly pubescent: rostrum slender, curved, elongate, black; head and breast pitchy black: thorax with a whitish dorsal line; scutellum snowy; elytra with a white band, behind a fuscous patch. (L. $1\frac{3}{4}$-$2\frac{1}{4}$ l.)

Var. Cu. fasciatus *Marsh.* i. 286. — *Ste. M.* iv. 74. — Pitchy-brown: rostrum, antennæ, and legs red; elytra rusty-brown, with white bands.

Var. ? Cu pedicularius *L.* ii. 615. — *Ste. M.* iv. 75. — Rh. avarus *Oliv. E.* v. 230. pl. 22. f. 310. — Head dull red; rostrum slightly bent, testaceous-red, with the tip fuscous; elytra variegated with whitish towards the apex. On flowers: London district; New Forest; Bristol; Cambridge; Swansea; Raehills: 5-6.

1820 Druparum *L.* ii. 614. — *Herbst. C.* vi. pl. 70. f. 9. — *Ste. M.* iv. 75. Testaceous-red; with griseous pubescence: rostrum slender, nearly straight; elytra with 2 denuded, round, and dentate bands, the 1st on, the 2d behind, the middle; thighs 2-dentate. (L. $1\frac{3}{4}$-$2\frac{1}{2}$ l.) On flowers: London district; Bristol: 5-6.

§ B. *Thighs* very obsoletely toothed.

1821 obscurus *Ste. M.* iv. 75. — Pitchy-black, slightly pubescent; thorax roughish; scutellum black; tibiæ and basal joint of the antennæ pitchy-red. (L. $1\frac{1}{2}$-2 l.) Flowers: London district; Bristol: 5-6.

1822 ater *Marsh.* i. 285. —*Ste. M.* iv. 75. — Black, slightly pubescent: thorax opaque, roughish; rostrum slender. (L. 2 l.) In hedge-rows: London and Edinburgh district; Bristol; Swansea: 5-6.

1823 Rubi *Herbst. C.* vi. 167. pl. 71. f. 8. — *Ste. M.* iv. 76. — Black; slightly pubescent: thorax very finely and thickly punctured; scutellum white; joints of the legs, tarsi, and base of antennæ sometimes pitchy. (L. $1\frac{1}{2}$-$1\frac{2}{3}$ l.) On bramble flowers, &c.: London and Edinburgh district; Norfolk; Suffolk; Devonshire: 5-6.

1824 clavatus *Marsh.* i. 285. — *Ste. M.* iv. 76. — Black; slightly pubescent; white beneath: thorax rather rough; rostrum slender at the base, the tip abruptly clavate, club compressed. (L. $1\frac{1}{2}$ l.) London district.?

373 Hydronomus *Schönherr.*

1825 Alismatis *Marsh.* i. 273. — *Ste. M.* iv. 77. — Black; variegated above with ashy-white scales; elytra with the interstices flat, and a conspicuous pale blotch behind the middle; thorax with an impression on each side at the base; tibiæ testaceous. (L. 2-2¼ l.) On Alisma Plantago: Battersea fields; Wimbledon Common; Swansea; Edinburgh, &c.: 5-6.

374 Grypidius *Schönherr.*

1826 Equiseti *Fab. E.* ii. 443. — *Pz. F.* xlii. f. 4. — *Ste. M.* iv. 78. — Black; waved with whitish scales: rostrum very long, deep black; thorax globose; elytra with black tubercles, the margins and 2 spots on the disc whitish; thighs with a white ring; tibiæ dull red. (L. 3-4½ l.) On Equisetum arvense: Battersea fields; Coombe Wood, Hertford; Ripley; Bristol; Swansea; Edinburgh: 5-6.

375 Erirhinus *Schönherr.*

1827 Festucæ *Herbst. C.* vi. 327. pl. 85. f. 13. — *Ste. M.* iv. 79. — Oblong; fuscous; densely clothed with ashy scales: scutellum whitish; legs and rostrum testaceous-red, the latter very long, slender, and bent; antennæ pitchy, club pubescent. (L. 4 l.) On Carex acutus (fl.): London district: 5-6.

1828 Nereis *Pk. F.* iii. 240. — *Ste. M.* iv. 77. — Rh. Typhæ *Nov. A. H.* (*Ahr.*) ii. pl. i. f. 6. — Linear-elongate; pitchy-brown; above dull red, with ashy scales: elytra with a broad common pitchy blotch in front; legs and rostrum rusty-red; the latter very long, slender, and nearly smooth. (L. 2-2½ l.) Marshy places: London district; Norfolk; Oxon; Crwmlyn Burrows; Yorkshire: 5-6.

1829 scirrhosus *Sch. S.* (*Cur.*) iii. 312. — Er. inquisitor *Ste. M.* iv. 80. — Rh. brunnirostris *Oliv. E.* v. 83. pl. 34. f. 524.? — Elongate, pitchy brown, clothed with yellowish ashy scales; elytra variegated with ashy; legs and rostrum dull red; the latter long, stoutish, striated, and punctured. (L. 1½-2⅓ l.)

Var.? Er. Arundineti *Kirby. Ste. M.* iv. 80. — Rather narrower; the elytra with a slightly conspicuous palish patch behind the middle, towards the suture. Aquatic plants: London district; Bristol; Suffolk; Yorkshire: 5-6.

376 Notaris *Germar.*

1830 Acridulus *L.* ii. 607. — *Pz. F.* xlii. f. 10. — *Ste. M.* iv. 81. — Black, or pitchy-red, with a griseous pile; thorax with a dorsal ridge; elytra deeply punctate-striate, interstices rugose, disc sometimes with a white dot behind; legs and antennæ pitchy-red or pitchy, thighs sometimes dusky; rostrum very long, bent, deep black, punctured. (L. 1½-2½ l.) Marshy places: Battersea fields; S. Wales; Carlisle; Edinburgh: 3-6.

1831 Æthiops *Fab. E.* ii. 246. — *Ste. M.* v. 420. — *Cur.* xiv. pl. 634. — Deep black, or pitchy; glabrous; thorax oblong; elytra oblong-ovate, punctate-striate, interstices somewhat smooth; legs and antennæ pitchy-red; rostrum very long, and bent. (L. 3 l.) Marshy places: Askham Bryant, Yorkshire: 6.

1832 bimaculatus *Fab. E.* ii. 442. — *Herbst. C.* vi. pl. 82. f. 8. — *Ste. M.* iv. 82. — Black; opaque, with a fuscous pile; elytra faintly striated, interstices flattish, obscurely rugged, disc with a white pilose dot; tibiæ, tarsi, and antennæ pitchy; rostrum long, curved, and sparingly punctured. (L. 4-5 l.) Boggy places: Wimbledon Common; Norfolk; Bristol; Crwmlyn Bog; Carlisle: 6.

377 DORYTOMUS *Germar.*

1833 vorax *Herbst. C.* vi. 165. pl. 71. f. 4. ♀. — *Ste. M.* iv. 82. — Pitchy-brown, or pale testaceous: irregularly clothed with ashy pile; thorax transverse, narrowed in front; elytra punctate-striate, variegated with dull red and black, and a mixture of ashy spots and streaks: legs and antennæ dull red; anterior legs elongated in both sexes, but shortest in the ♀; rostrum very long, slender, much bent, black, striated above. (L. 3½-4 l.)

Var. Do. ventralis *Ste. M.* iv. 81. — Testaceous; with the breast and rostrum pitchy-black. On poplars and willows: Coombe Wood; Netley; Warwick; Norfolk; Suffolk; Dalston, Cumb.: 6.

1834 Tremulæ *Pk. F.* iii. 189. — *Oliv. E.* v. pl. 34. f. 520. — *Ste. M.* iv. 85. — Rusty-brown, with an ashy pile; elytra variegated with fuscous, ash colour, and blackish: thighs stout, clavate, strongly toothed; joints of legs dusky; rostrum long, slender, curved, black, the base slightly striated. (L. 1½-2½ l.)

Var. Cu. fumosus *Rossi. M.* i. 124. — *Ste. M.* iv. 85. — Head, band on the thorax, disc of elytra and legs pitchy-brown. Willows and alders: London and Edinburgh districts; S. Wales; Bristol; Carlisle: 3-6.

1835 vecors *Sch. S.* (*Cur.*) iii. 293. — Rusty-brown, with an ashy pile; thorax convex, with the sides much rounded, rather narrowed behind; elytra obscurely variegated with fuscous and dull red; thighs stout, clavate, strongly toothed; rostrum long, stoutish, curved, deep black, distinctly striated. (L. 2½ l.) Marshy places: London district: 6.

1836 affinis *Pk. F.* iii. 190. — *Ste. M.* iv. 85. — Rh. flavipes *Oliv. E.* v. pl. 34. f. 523. — Black, with a dense ashy pile: elytra variegated with dull red and ash colour; legs and antennæ dusky-rust colour; rostrum rather stout, shorter than the thorax, rough. (L. 2 l.) Willows: London district; Swansea: 4-5.

1837 tæniatus *Fab. E.* ii. 492. — *Ste. M.* iv. 86. — Pitchy-brown; thorax slightly narrowed behind; base and apex testaceous; elytra pale, spotted with fuscous; legs testaceous, or reddish; antennæ dull red; rostrum stoutish, rough. (L. 2½ l.) Willows: London district: 4.

1838 majalis *Pk. F.* iii. 177. — *Ste. M.* iv. 86. — Black, with an ashy pile; thorax, elytra, antennæ, legs, and tip of the abdomen rusty-red; disc of the elytra clouded with fuscous, or with a pitchy-black dorsal patch; rostrum stoutish, rough. (L. 2 l.) Willows: London district: 3-4.

1839 pectoralis *Pz. F.* xxxvi. f. 16. — *Ste. M.* iv. 84. — Testaceous-red, with an ashy pile; breast blackish, or pitchy; elytra variegated with fuscous and ash-colour; thighs clavate, acutely toothed; rostrum longish, punctulated, the tip fuscous. (L. 2 l.)

Var. Cu. melanophthalmus *Pk. F.* iii. 193. — *Ste. M.* iv. 84. — Testaceous-red, the eyes and tip of rostrum alone dusky-brown: — sometimes wholly pale, or yellowish (immature); — Cu. arcuatus *Pz. F.* xvii. f. 6. Willows and poplars: London district; S. Wales: 6-7.

1840 Tortrix *L.* ii. 615. — *Herbst. C.* pl. 18. f. 2. — *Ste. M.* iv. 83. — Pale-testaceous, rather glossy, spotless, very delicately pubescent; breast fuscous; elytra rather convex; rostrum moderate, slightly bent, fuscous at the tip. (L. 3. l.)

Var. Do. arcuatus *Ste. M.* iv. 84. — Body of a darker hue, breast blackish. On willows, &c.: London and Edinburgh districts; Bristol; S. Wales; Norfolk; Suffolk: 6.

(1841 † dorsalis *L.* ii. 608. — *Pz. F.* xvii. f. 9. — *Ste. M.* iv. 86. note. — Black, nearly glabrous: elytra red, the margins and anterior half of the

suture black; rostrum rather long, stoutish, striated (L. 2-3. l.) Erroneously stated to be British.)

378 Pissodes *Germar.*

1842 Pini *L.* ii. 608. — *Pz. F.* xliii. f. 1. — *Ste. M.* iv. 87. — Pitchy, with pale scales: thorax ridged, the disc with 2 large remote foveæ, densely filled with yellowish scales; elytra punctate-striate, with a short band of lutescent scales before, and a broader band of the same behind, the middle; rostrum longish, red-brown. (L. 4-5. l.) On firs: Edinburgh district; Dunkeld, Perthshire: 9.

1843 † notatus *Fab. E.* ii. 501. — *Ste. M.* iv. 88. — Bh. Pini *Oliv. E.* v. pl. 16. f. 42. — Pitchy-red, with whitish scales: thorax with 4 whitish spots; scutellum whitish; elytra deeply punctate-striate, punctures deepest on the back; disc with an indistinct pale band of scales before, and a broad dilated one behind, the middle; rostrum slender, pitchy-black. (L. 3-5 l.) Firs: Ravelstone Wood, Edinburgh: 7.

1844 Fabricii *Leach.* — *Ste. M.* iv. 88. pl. xxi. f. 1. — Rather elongate; slightly convex; pitchy-red, with pale scales; thorax with 4 luteous spots; scutellum luteous; elytra punctate-striate, with minute lutescent scales, an interrupted band of yellowish scales before, and a narrow one behind, the middle; rostrum rusty-griseous. (L. 4½ l.) Firs: Ravelstone Wood; Jedburgh, Roxburgshire: 5.

379 Gronops *Schönherr.*

1845 lunatus *Fab. E.* ii. 524. — *Ste. M.* iv. 89. pl. xx. f. 5. — Black, densely clothed with ashy scales; thorax with 3 foveæ, thickly punctate and faintly ridged; elytra striate, the alternate interstices much raised, and terminating in a double callus; disc with a pale crescent; legs fuscous. (L. 2-3¼ l.) Sandy places: Kew Lane; Livermere and Barham, Suffolk; South Creek, Norfolk; Bristol: 5-6.

380 Orthochætes *Müller.*

1846 setiger *Germ. I. N.* i. 304. — *Ste. M.* iv. 90. — Dull-reddish; abdomen dusky; elytra somewhat punctate-sulcate, the alternate interstices and suture elevated, each bearing a row of erect griseous setæ; legs also clothed with the same. (L. 1-1½ l.) Epping Forest; Ripley; Hertford; South Creek: 3-6.

381 Procas *Stephens.*

1847 picipes *Marsh.* i. 272. — *Ste. M.* iv. 91. — Black; obscure; elytra punctate-striate, interstices transversely roughened, obsoletely clouded with a few ashy hairs; tarsi and antennæ pitchy-red. (L. 3-4 l.) Marshy places: Battersea fields; Bristol and Norfolk: 6.

382 Hypera *Germar.*

§ A. *Body* short, ovate; *rostrum* short, stout.

1848 punctata *Fab. E.* ii. 529. — *Ste. M.* iv. 92. — Cu. austriacus *Herbst. C.* vi. pl. 77. f. 11. — Black, obscure, with griseous or ashy scales: thorax rather widest in front, with 3 ashy stripes; elytra punctate-striate, interstices each with a row of black scaly brushes; thighs with an ashy ring; antennæ pitchy. (L. 4-5 l.) Hedges, &c.: generally distributed in the S. of England; S. Wales; Netley and Wetheral; also in Scotland: 5-9.

1849 fasciculata *Herbst. C.* vi. 289. pl. 82. f. 6. — Hy. fasciculosa *Cur.* iii. pl. 116. — *Ste. M.* iv. 93. — Black, densely clothed with whitish and fuscous scales; thorax transverse, rounded on the sides, with 3 white lines; elytra faintly punctate-striate, with a crescent-shaped pale spot on the shoulder, and another near the middle of the disc; suture tessellated with 4-drate black brushes; tibiæ and antennæ dull-red. (L. 3-4 l.) Rare: Isle of Thanet and in Norfolk; more common in Scotland: 6.

§ B. *Body* oblong. *a.* With wings.

1850 Polygoni *L.* ii. 609. — *Pz. F.* xix. f. 10. — Cu. arator *Ste. M.* iv. 93. — Fuscous, pubescent: thorax rounded, with 3 pale lines; elytra testaceous, the suture with a toothed dark and pale streak behind, the disc with brown lines; antennæ rusty, club dusky. (L. 3-3½ l.)

Var. Cu. Polygoni *Fab.* ii. 520. — *Ste. M.* iv. 93. — Deep fuscous, or black; thoracic lines white; elytra with ashy scales, the suture dentated with black and white; the disc with short black lines. On Polygonum arvense, in corn fields: London and Edinburgh districts; Bottisham; Bristol; Carlisle; Inverness; Raehills: 4-6.

1851 canescens *Ste. M.* iv. 94. — Black, clothed entirely with ashy scales; elytra striated, the interstices slightly elevated, uniformly hoary; tarsi pitchy: — possibly a var. of No. 1850. — (L. 3 l.) On heaths: London district; Bristol: 6.

1852 Viciæ *Gyll.* iii. 101. — *Ste. M.* iv. 94. — Black; clothed with ashy or brassy scales; thorax flattish, very much dilated on the sides; elytra with 5 rows of denuded fuscous spots; antennæ pitchy at the base; rostrum whitish, a little bent: immature specimens are testaceous, with the back of the thorax and the legs fuscous; rostrum black. (L. 3 l.)

Var.? Hy. picicornis *Ste. M.* iv. 95. — Larger (4 l.); elytra spotless; antennæ wholly pitchy. Hedges: London district; New Forest; Bristol: 6.

1853 Kunzii *Ahr. F.* vii. f. 11. — Hy. alternans *Ste. M.* iv. 95. pl. xx. f. 6. — Black; with pale griseous or olivaceous scales, sometimes tinted with brassy: thorax with a broad lateral pale stripe on each side, and a narrow dorsal one; elytra striated, the alternate interstices brownish, antennæ pitchy, club dusky. ♂ narrow, sides of thorax slightly dilated; rostrum short and stoutish; elytra rather deeply striate. (L. 2½-3. l.) Marshy districts, London district; Suffolk; Bottisham; Bristol: 6.

1854 Rumicis *L.* ii. 614. — *Ste. M.* iv. 95. — Hy. Acetosæ *Pz. F.* xlii. f. 9. — Black; variegated with shining whitish-ashy scales: thorax somewhat cylindric, with 2 brown streaks: rostrum rather stout, nearly straight, somewhat cylindric, a little dilated at the tip: — scales very variable in colour. (L. 3-3½ l.) On the dock: London and Edinburgh districts; Bottisham; Cumberland; S. Wales, &c.: 6.

1855 palustris *Leach.* — *Ste. M.* iv. 96. — Black; tessellated with ashy and testaceous scales: thorax with the sides slightly dilated, ashy white, the disc spotless brown; rostrum longish and straight. (L. 3½ l.) Marshy places: Battersea; Bottisham; Bristol; S. Wales: 6.

1856 sublineata *Kirby.* — *Ste. M.* iv. 96. — Black, densely clothed with ashy scales: thorax fuscous, the sides and a dorsal line ashy; elytra with a squarish dusky patch at the base; tibiæ, tarsi, and antennæ pitchy-red: rostrum rather short and stout. (L. 3 l.) Marshy places: London district; Suffolk; Bristol: 6.

1857 Pollux *Fab. E.* ii. 457. — *Ste. M.* iv. 97. — Co. commaculatus *Herbst. C.* vi. pl. 76. f. 8. — Black; variegated with shining ashy-white scales; elytra with 3 rather distinct white lines tessellated with black;

antennæ dull pitchy rust colour, club dusky ; rostrum shortish, and a little bent (L. 3-3½. l.)

Var. Hy. nebulosa *Ste. M.* iv. 96. — Elytra clouded with ash-colour, not tressellated. Grassy places : London district ; Bottisham ; Bristol ; Norfolk ; Crwmlyn Burrows : 5-6.

1858 murina *Fab. E.* ii. 520. — *Ste. M.* iv. 98. — Black ; densely clothed with griseous scales : elytra with whitish stripes, dotted with black ; the suture with a broad fuscous patch at the base ; thorax orbiculate, with 2 brown lines ; tibiæ, tarsi, and antennæ dull red. (L. 2½-3½ l.)

Var. Hy. picipes *Ste. M.* iv. 97. — Narrower, the scales of a paler hue, and the elytra obscurely spotted with fuscous. Sandy places : London and Edinburgh districts ; Bristol ; S. Wales : 6.

1859 villosula *Wilkin.* ? — *Ste. M.* iv. 97. — Black ; densely clothed with ashy pilose scales : elytra immaculate ; tarsi and antennæ pitchy-red ; rostrum longish, rather thickened, and straight. (L. 2½-3 l.) London district ; Bottisham ; Norfolk ; Suffolk ; Bristol : 6.

1860 nigrirostris *Fab. E.* ii. 428. — *Pz. F.* xxxvi. f. 14. — *Ste. M.* iv. 98. — Pitchy-black, or testaceous ; legs and antennæ rusty-red ; rostrum black, rather short, glabrous, slender : thorax longish, with 3 green stripes ; elytra densely clothed with green scales, sometimes tinted with brassy. (L. 1¾-2½ l.) Hedges, gardens, &c. : London and Edinburgh districts ; Yorkshire ; Bottisham, &c. : 4-7.

1861 fulvipes *Ste. M.* iv. 98. — Deep black ; irregularly clouded with green and bronzed scales above : thorax short, the sides much rounded ; elytra prettily varied with brassy-green scales : legs, antennæ, and rostrum tawny-red. (L. 1¾-2 l.) On Geranium pratense : London district ; Yorkshire : 5-6.

b. Wingless.

1862 Plantaginis *De Geer. I.* v. 237. pl. 7. f. 17—21. — *Ste. M.* iv. 99. — Black, with ashy scales : thorax flattish, much dilated on both sides, transverse-oval ; elytra with a large oblong fuscous patch towards the sides ; legs and antennæ rusty-brown, club dusky. (L. 2-9 l.) In clover fields, &c : Darenth Wood ; Bristol ; Bottisham : 5-6.

1863 Trifolii *Herbst. C.* vi. 266. pl. 80. f. 5. — *Ste. M.* iv. 99. — Pitchy-black ; with ashy down ; thorax flattish, orbiculate, with the sides and a dorsal line pale ; elytra with obscure streaks and spots, suture fuscous, spotted behind with whitish ; breast with brassy scales ; tibiæ and antennæ dull red. (L. 2-3 l.)

Var. Cu. stramineus *Marsh.* i. 267. — *Ste. M.* iv. 100. — Pale-testaceous, thorax dull red above ; tip of rostrum fuscous : — sometimes the elytra alone are testaceous, and the rostrum more or less black ; arising from immaturity. On trefoil : London district ; Norfolk ; Suffolk : 5-6.

1864 bimaculata *Marsh.* i. 266. — Rh. posticus *Gyll.* iii. 113. — *Ste. M.* iv. 100. — Black ; with a slight ashy pile ; thorax flattish, short, somewhat orbiculate ; breast clothed with whitish scales ; tip of the elytra, tibiæ, and antennæ dull red ; rostrum shortish, glabrous. (L. 2½ l.) Meadows : London district ; Raehills : 6.

1865 variabilis *Herbst. C.* vi. 263. pl. 80. f. 1. — *Ste. M.* iv. 101. — Black ; with ashy scales : thorax flattish, rounded on the sides ; the latter, and a narrow dorsal line, pale, with a brown spot a little before the middle near each margin ; elytra spotted with brown ; thighs dusky ; tibiæ and antennæ dull red. (L. 3 l.)

Var. Hy. phæopa *Ste. M.* iv. 100. — Rather narrow ; thighs fuscous ; tibiæ and antennæ pitchy.

Var. Hy. rufipes *Ste. M.* iv. 100. — Brown, without spots; legs entirely and antennæ pitchy-red. Hedges, &c.: London district; Bristol; Devonshire: 6.

1866 elongata *Pk. F.* iii. 236. — *Ste. M.* iv. 101. — Black, with an ashy pile; thorax round, with 3 indistinct lines; elytra elongate, obscurely spotted with brown; rostrum rather short and bent; base of antennæ dull red. (L. 3½ l.) Fields: London and Edinburgh districts: 6.

1867 pedestris *Pk. F.* iii. 233. — *Ste. M.* iv. 102. — Black; equally clothed throughout with ashy scales and pile: thorax convex, rounded on the sides; elytra short, spotless; rostrum shortish, curved. (L. 3 l.) Meadows: London and Edinburgh districts; Bristol: 6.

1868 suspiciosa *Herbst. C.* vi. 265. pl. 80. f. 3. — Cu. Miles *Pk. F.* iii. 233. — *Ste. M.* iv. 102. — Black; densely clothed with ashy pile and scales: thorax convex, rounded on each side; elytra finely striated, spotted with brown, suture white towards the tip; antennæ rusty; rostrum short, bent. (L. 3 l.) Meadows: London district; Bristol; S. Wales: 6.

1869 Arundinis *Fab. E.* ii. 521. — *Herbst. C.* vi. pl. 71. f. 1. — *Ste. M.* iv. 101. — Black; densely clothed with testaceous pile and scales: thorax somewhat cylindric, with 2 brown stripes; elytra spotless; base of antennæ pitchy; rostrum longish, black. (L. 4-4½ l.). Marshy places: Exeter, and in Norfolk: 6.

383 Ellescus *Germar.*

1870 bipunctatus *L.* ii. 609. — *Pz. F.* xlii. f. 7. — *Ste. M.* iv. 103. — Black; densely clothed with an ashy pile; elytra each with a large denuded round black spot on the disc; tibiæ, tarsi, and antennæ testaceous. (L. 1½-2 l.) Hedges: New Forest; Raehills and Whim, Peebles-shire: 6.

384 Plinthus *Germar.*

1871 caliginosus *Fab. E. S.* ii. 427. — *Ste. M.* iv. 104. — Cu. didymus *Don.* xvi. pl. 570. — Flat; dull black; thorax oblong, ridged, deeply pitted; elytra deeply striate-punctate, the alternate interstices elevated; legs and antennæ pitchy, club of the latter ashy. (L. 4½-5 l.) Under stones, &c.: Dover; Sandgate; Hastings; Brighton; Charlton Wood; Hampstead: 6-7.

385 Molytes *Schönherr.*

1872 Germanus *L.* ii. 613. — *Mart. C.* pl. 22. f. 68. — *Ste. M.* iv. 105. — Black; thorax deeply punctured, its sides rounded; elytra with obscure round foveolets, and numerous dull yellow spots of hair; thighs obsoletely toothed. (L. 8-10 l.) Chalky districts: Dover; Ashdown; Sandgate; Maidstone, &c.: 6-7.

1873 coronatus *Fourc. E. P.* i. 126. — Cu. anglicanus *Don.* i. pl. 24. f. 2. — *Ste. M.* iv. 105. — Shining, black; thorax finely punctured, sides rounded, each with 2 yellowish spots; base and apex with a yellowish fringe; elytra coriaceous, with some scattered yellowish hairs; thighs acutely toothed. (L. 6-9½ l.) Hedges: Darenth Wood; Hertford; Copenhagen fields; Swansea: 4-6.

386 Leiosoma *Kirby.*

1874 ovatula *Clairv. E. H.* i. 84. pl. 6. f. 3—4. — Le. punctata *Ste. M.* iv. 106. — Shining black; glabrous: thorax thickly and coarsely punctured; elytra deeply punctate-striate, interstices wide; tarsi and antennæ reddish: — sometimes the thorax and legs are wholly dull red. (L. 1½ l.)

Weedy banks: London district; Norfolk; Suffolk; Devon; S. Wales; Raehills: 4-7.

387 Hylobius *Germar.*

1875 Abietis *L.* ii. 613. — *Ste. M.* iv. 107. — Cu. Pini *Don.* xv. pl. 529. — Pitchy-black, opaque; with yellowish hairs: thorax narrowed in front; elytra faintly cancellate-striate, interstices very rough, with irregular bands of yellowish pilose spots: legs pitchy-black. (L. 5-9 l.) Fir plantations: Ripley; Hertford; Brompton; abundant in the N. of England and in Scotland: 5-6.

1876 † Pinastri *Gyll.* iii. 168. — *Ste. M.* iv. 107. — Pitchy-black, rather glossy; with ashy hairs: thorax with the sides rounded; elytra deeply cancellate-striate, interstices delicately roughed, with irregular bands of whitish pile; legs red. (L. 6 l.) Fir plantations: Scotland: 6.

388 Tanysphyrus *Germar.*

1877 Lemnæ *Fab. E.* ii. 455. — *Pz. F.* xvii. f. 10. — *Ste. M.* iv. 108. — Pitchy-black: elytra ovate, deeply punctate-striate, and with scattered patches of ashy hairs; legs and antennæ pitchy-red. (L. $\frac{1}{2}$-1$\frac{1}{4}$ l.) On Lemna, in ponds: Wandsworth Common; Darenth; Bristol; Devonshire; Norfolk: 5-6.

389 Alophus *Schönherr.*

1878 3-guttatus *Fab. E.* ii. 521. — *Ste. M.* iv. 109. — Cu. cordiger *Clairv. E. H.* i. pl. 7. f. 3-4. — Black, densely clothed with griseous or brownish scales: thorax thickly punctured, with a short channel in front; elytra faintly punctate-striate, with a white spot towards the base, and a large, common, V-shaped one behind; rostrum with a faint channel; antennæ reddish. (L. 3-4 l.)

Var. Al. Vau *Schr. A.* 120. — *Ste. M.* iv. 109. — The basal spots on the elytra nearly obliterated, and the common V-like one very bright.

Var. ? Al. 3-notatus *Marsham.* — *Ste. M.* iv. 109. — Elytra somewhat tawny, the alternate interstices faintly raised, each with an obscure whitish spot near the base. In sand pits: widely distributed throughout the country from Dover to Cornwall; S. Wales to the S. of Scotland: 3-5.

390 Barynotus *Germar.*

1879 Mercurialis *Fab. E.* ii. 530. — *Ste. M.* iv. 110. — Cu. elevatus *Herbst. C.* vi. pl. 77. f. 3. — Black, sparingly clothed with coppery-brown scales: thorax with a ridge; elytra punctate-striate, alternate interstices, and suture behind slightly elevated; antennæ and tibiæ pitchy-red. (L. 3 l.) Chalky districts: London and Edinburgh districts; Swansea: 5-6.

1880 carinatus *Müll. Z. D. Pr.* 86. — Oblong-ovate; black, with scattered brassy-brown scales: thorax and rostrum ridged; elytra punctate-striate; suture behind, and alternate interstices, especially the 5th, much elevated; antennæ and tibiæ rusty-red. (L. 3 l.) Under stones: London district.

1881 Terricola *Ent. M.* (*Newm.*) v. 173. — Cu. globatus *Herbst. C.* vi. p. 87. f. 1. 3.? — Ovate: blackish-brown; densely clothed with ashy-brown coppery scales; elytra obscurely punctate-striate, interstices smooth; antennæ reddish; rostrum short. (L. 3 l.) Under stones: Herefordshire: 6.

391 Merionus *Megerle.*

1882 obscurus *Fab. E.* ii. 530. — *Herbst. C.* vi. pl. 87. f. 3. — *Ste. M.* iv. 111. — Pitchy-black, variegated with ashy and fuscous scales: elytra faintly

punctate-striate, 5th and 7th striæ united in a curve near the shoulder; rostrum smooth, with a single groove and some oblong foveolets: tibiæ and tarsi sometimes reddish. (L. 4¼-5 l.) Dry sandy places: London and Edinburgh districts; Crwmlyn Burrows: 5-6.

1883 elevatus *Marsh.* i. 306. — *Ste. M.* iv. 111. — Pitchy black; clothed with uniformly coloured ashy scales: elytra rather deeply punctate-striate, the 5th and 6th striæ united at some distance from the shoulders; rostrum scaly, with 5 channels: — legs and antennæ sometimes reddish. (L. 4-4½ l.) Dry stony hedges: London and Edinburgh districts; Norfolk; Suffolk; Devon; Bristol: 6.

392 Leiophlæus *Germar.*

1884 nubilus *Fab. E.* ii. 538. — *Millard.* pl. 2. f. 9. — *Ste. M.* iv. 112. — Black; opaque; densely clothed with ashy scales: elytra punctate-striate, tessellated with fuscous scaly spots; thorax slightly carinated; antennæ pitchy-red: scales on the rostrum sometimes coppery. (L. 3½-5½ l.)

Var.? Cu. maurus *Marsh.* i. 316. — *Ste. M.* iv. 113. — Entirely black, opaque; scaleless: — probably with the scales abraded. Thick hedges: London and Edinburgh districts; S. Wales; Cambridge; Carlisle, &c.: 6.

393 Otiorhynchus *Germar.*

§ A. *Thighs* toothed.

1885 Ligustici *L.* ii. 615. — *Herbst. C.* vi. pl. 86. f. 8. — *Ste. M.* iv. 113. — Ovate; black; clothed with griseous scales; thorax with the surface covered with minute tubercles, especially on the back: elytra rough, punctate-striate towards the sides. (L. 6-7 l.) Heaths: Godstone and Hartfield; Barham; Southend; Edinburgh: 6.

1886 sulcatus *Fab. E.* ii. 539. — *Herbst. C.* vi. pl. 87. f. 5. — *Ste. M.* iv. 114. — Oblong; black; thorax rough; elytra deeply furrowed, the furrows spotted with pale hairy tufts; antennæ pitchy; rostrum deeply grooved. (L. 4½-5½ l.) Gardens, &c.: London and Edinburgh districts; Bristol; S. Wales; Devonshire; Norfolk: 5-6.

1887 notatus *Bons. C. S.* ii. 33. f. 34. — *Ste. M.* iv. 114. — Oblong-ovate; pitchy, densely clothed with brown and ashy scales; thorax granulated; elytra sulcate, and with rows of ocellated impressions; legs pitchy red; thighs slightly toothed. (L. 3¼-4 l.) In hedges: London and Edinburgh districts; Yorkshire; Cumberland; S. Wales: 4-6.

1888 singularis *L.* ii. 1066? — *Ste. M.* iv. 115. — Oblong-ovate; fuscous; clothed with ashy scales: thorax granulated; elytra punctate-striate, punctures somewhat annular, with a central tubercle; legs reddish. (L. 3 l.) Weedy hedges: London district: 4-6.

1889 septentrionis *Herbst. C.* vi. 360. pl. 88. f. 6 — Cu. squamiger *Marsh.* i. 301. — *Ste. M.* iv. 115. — Oblong; reddish-brown or testaceous, variegated with ashy scales; head brown: thorax granulated; elytra striate, interstices raised and with elevated scale-like hairs disposed in rows; legs and antennæ pale brown. (L. 3-3½ l.) In hedges: London district; S. Wales, &c. 4-6.

1890 scaber *L.* ii. 609.? — *Ste. M.* iv. 115. — Oblong; ashy-black; head punctured; thorax granulated; elytra punctate-striate, interstices rugose and varied with whitish scales; legs and antennæ dull red. (L. 2½ l.) Hedges: London district: 6.

(1891 † Giraffa *Germ. It. Dalm.* 244. — *Schön. S.* (*Cur.*) ii. 576. — Oblong-ovate; spotted with shining golden yellow scales; thorax thickly granulated, the sides rounded; elytra convex, roughly punctate-striate,

or sulcate; interstices coarsely tuberculate. Supposed by Schönherr, but incorrectly, to inhabit England.)

1892 rugifrons *Gyll.* iii. 319. — *Ste. M.* iv. 115. — Oblong; black, opaque, with a slight ashy pubescence; elytra flattish on the back, punctate-striate; thighs with a minute tooth; tibiæ and tarsi pitchy; forehead and rostrum with several elevated lines. (L. 3 l.)

Var. Oti. Dillwynii *Kirby.* — *Ste. M.* iv. 116. — Thorax rough in the centre; front and rostrum slightly rugose; legs and antennæ pitchy. Hedges: London and Edinburgh districts; Bristol; S. Wales; Isle of Arran: 6.

1893 ovatus *L.* ii. 615. — *Herbst. C.* vi. pl. 88. f. 2. — *Ste. M.* iv. 116.— Short, ovate; black, with a fine griseous pile; thorax somewhat globose, very rugged, with a short ridge in the middle; elytra more glossy, punctate-striate; dorsal interstices flat, smoothish, lateral ones rugulose; legs and antennæ rusty-red. (L. 2-3 l.)

Var. Cu. pabulinus *Pz. F.* lvii. f. 19. — *Ste. M.* iv. 116. — Dull red; legs and antennæ testaceous. Hedges: London and Edinburgh districts; Bristol; Devonshire; S. Wales: 5-6.

1894 vorticosus *Schön. S.* (*Cur.*) ii. 630. — Oblong; black; with a slight ashy pile; thorax thickly rugged longitudinally; elytra elongate obovate, crenate-striate; interstices somewhat rugged; legs and antennæ rusty-red. (L. 2½-3 l.) Hedges: London district: 6.

§ B. *Thighs* unarmed. *a. Elytra* not distinctly striated.

1895 bisulcatus *Fab. E.* ii. 540. — Cu. Lima *Marsh.* i. 298. — *Ste. M.* iv. 117. — Oblong-ovate; entirely black and covered throughout with elevated points, disposed in slightly transverse wrinkles on the elytra; rostrum with a ridge. (L. 8 l.) Found near London?

1896 niger *Fab. E.* ii. 530. — *Clairv. E. H.* i. pl. 8. f. 1, 2. — Oti. atro-apterus *Ste. M.* iv. 117. — Oblong-ovate; deep black, rather shining, slightly dotted with an ashy pile; thorax oblong, narrow, thickly granulated; elytra remotely punctate-striate, interstices roughly granulated, the apex of each acutely rounded; legs red, knees and tarsi black. (L. 4 l.) Coasts of Devon; S. Wales, &c.: 6.

1897 tenebricosus *Herbst. C.* vi. 333. pl. 86. f. 5. — *Ste. M.* iv. 117. — Black; slightly glossy; thorax narrow, red, with the head finely coriaceous; elytra oblong-ovate, rather narrowed at the tip, very obscurely striated; legs elongate, pitchy-red; rostrum notched at the tip, and faintly ridged: apical joints of funiculus elongated. (L. 4-6 l.) Hedges: common in London district and in S. of England; S. Wales; Raehills: 5-6.

1898 atro-apterus *De Geer.* v. 243. pl. 7. f. 22. 24.— Oti. ater *Ste. M.* iv. 118. — Black; slightly glossy; thorax dilated on the sides, and, with the head, finely coriaceous; elytra ovate, obtuse, very obsoletely sulcate, granulated; legs pitchy-red; rostrum somewhat entire; ridged. (L. 3½ l.) Coasts: Devonshire; S. Wales, &c.: 6.

1899 Monticola *Germ. I. S.* i. 361. — Oti. lævigatus *Ste. M.* iv. 118. — Shining black: thorax suddenly rounded on the sides, finely punctured; elytra very delicately punctate-striate; interstices thickly but obscurely punctured; legs and antennæ pitchy. (L. 3-3½ l.) S. Wales: 6.

b. Elytra distinctly striated, rough.

1900 scabrosus *Marsh.* i. 298. — *Ste. M.* iv. 119. — Oblong-ovate; black with a fuscous pile; forehead sulcate; thorax thickly granulated; elytra

punctate sulcate, interstices thickly and roughly tuberculate; legs and antennæ dull pitchy red; terminal joints of funiculus longish. (L. 3 l.) Gravelly places: London and Edinburgh districts; Netley; Swansea; Yorkshire: 4-6.

1901 ligneus *Oliv. E.* v. 378. pl. 31. f. 473. — Oti. scabridus *Kirby.* — *Ste. M.* iv. 119. — Black, or pitchy-black; thorax globose, coarsely granulated; elytra deeply punctate-striate, interstices somewhat transversely wrinkled, and slightly pilose; tibiæ, tarsi, and antennæ pitchy-black, or dull red. (L. 1½-2 l.) Barren places: London district; Bristol; Barham; Cramond: 4-6.

1902 rugicollis *Ste. M.* iv. 120. — Ovate; black; opaque; thorax globose; thickly and coarsely granulated, the disc longitudinally wrinkled; elytra ovate, obsoletely punctate-striate, interstices rough and slightly pilose. (L. 3½ l.) Chalk pits: Dover: 6.

1903 maurus *Gyll.* iii. 293. — *Ste. M.* iv. 120. — Black; slightly shining; sparingly clothed with ashy pubescence: thorax very thickly granulated; elytra ovate, punctate-striate, interstices nearly smooth; legs and antennæ pitchy-red. (L. 3½-4½ l.) On the coasts: S. Wales; Scarborough; and Lancashire: 6.

1904 raucus *Fab. E.* ii. 529. — *Ste. M.* iv. 120. — Black: thorax convex, especially in the ♀, and with a slight ridge: elytra deeply punctate-striate, clouded with a griseous and brown pubescence; the suture slightly raised behind; legs and antennæ pitchy-red. (L. 2-3½ l.) In chalky places: Darenth and Greenhithe; Bottisham; S. Wales: 5-6.

c. *Elytra* deeply striated, glabrous. — Omias, p. *Schön.*

1905 brunnipes *Oliv. E.* v. 384. pl. 35. f. 551. — Oti. piceus *Ste. M.* iv. 119. — Oblong-ovate; pitchy-brown, slightly shining; sparingly clothed with a pale pubescence; thorax rather convex, deeply, but remotely, punctate, the sides somewhat rounded; elytra ovate, deeply punctate-striate; legs and antennæ testaceous; rostrum faintly punctured. (L. 1½-2 l.) Hedges: London district; Netley; Swansea: 6.

1906 mollicomus *N. A. Hall.* (*Ahr.*) ii. 17. pl. 1. f. 8. — Oblong-ovate; chestnut-red, rather glossy; with a whitish pile; legs and antennæ paler: thorax slightly convex, the disc sparingly, the sides thickly, punctured, the latter moderately expanded; elytra deeply punctate-striate; rostrum with a fovea at the tip, and faintly punctured. (L. 1¾ l.) Hedges: London district: 6.

1907 pellucidus *Chevrolat.* — *Schön. S.* (*Cur.*) ii. 507. — Oti. piceus var. *Ste. M.* iv. 119. — Oblong-ovate; shining pitchy; with a scattered ashy pile; thorax rather convex, deeply and rather thickly punctured, the sides dilated; elytra deeply punctate-striate; legs and antennæ rusty-red; rostrum slightly impressed, and distinctly punctate. (L. 2-2¼ l.) Hedges: London district: 6.

394 Trachyphlæus *Germar.*

1908 tessellatus *Marsh.* i. 307. — *Ste. M.* iv. 121. — Fuscous-black; anterior edge of thorax whitish: elytra deeply striated, interstices setose, tessellated with fuscous and ash-coloured scales; body beneath and legs dull red. (L. 2 l.) Hedges: London district; Bristol; Norfolk: 4-6.

1909 confinis *Ste. M.* iv. 121. — Black-brown, clothed with lighter scales: thorax obscurely punctured; elytra faintly striated, scales uniformly fus-

cous; legs black; apex of the tibiæ and the tarsi reddish. (L. 2. l.) Hedges: London district; Norfolk: 4-6.

1910 ventricosus *Germ. I. N.* i. 405. — *Ste. M.* iv. 122. — Varied with griseous and fuscous: thorax with a dorsal furrow; elytra sulcate, interstices furnished with short setæ; legs griseous; rostrum deeply grooved. (L. 2 l.) Sand pits: Hampstead; Bristol: 4.

1911 scabriculus *L. M.* ii. 531. — *Herbst. C.* vi. pl. 87. f. 10. ? — *Ste. M.* iv. 122. — Ovate; black; densely clothed with fuscous scales; thorax widish, roughly punctate, with a dorsal furrow; elytra punctate-striate, interstices roughly punctured and with a row of erect whitish scales; legs and antennæ dull rusty-red; rostrum furrowed. (L. $1\frac{3}{4}$-2 l.)

Var. ? Cu. hispidulus *Herbst. C.* vi. 354. pl. 87. f. 14. — *Ste. M.* iv. 122. — Elytra obsoletely tessellated with ash-coloured brown, and with scattered spine-like scales behind only. Sandy and gravelly places: London district; Swansea: 4-6.

1912 spinimanus *Germ. I. N.* i. 405. — *Ste. M.* iv. 123. — Ovate; black, clothed with an ashy-brown pigment, and sprinkled with erect ashy-white scales: elytra finely striated; legs and antennæ dull red; anterior tibiæ 2-dentate externally at the tip. (L. $1\frac{1}{2}$ l.) Sand pits: Hampstead: 6.

1913 digitalis *Gyll.* iv. 615. — *Ste. M.* iv. 123. — Short, ovate; clothed with a cinereous pigment; thorax flattish, with an obscure dorsal furrow; elytra faintly striated, and with a few whitish erect scales; antennæ and legs dull red; anterior tibiæ furnished with 2 long, acute denticles towards the apex. (L. 2 l.) Gravel pits: London district.: 5-6.

395 Philopedon *Schönherr.*

1914 geminatus *Fab. E.* ii. 323. — *Herbst. C.* vi. pl. 87. f. 7. — *Ste. M.* iv. 124. — Black; densely clothed with fuscous scales; thorax with the sides and a dorsal line pale; elytra faintly striate, alternate interstices generally ashy or whitish, and all with an ashy pubescence; antennæ dull reddish. (L. 2-4 l.)

Var. Cu. parapleurus *Marsh.* i. 306. — *Ste. M.* iv. 124. — Elytra with the sides and a few irregular spots white. On Arundo Arenaria, on sandy coasts: Southend; Deal; Barmouth; Swansea; Tynemouth; Cramond: 5-6.

1915 exaratus *Marsh.* i. 303. — *Don.* xii. pl. 414. f. 2. — *Ste. M.* iv. 125. — Fuscous; clothed with ashy scales: thorax fuscous; elytra ashy, rather deeply punctate-striate, the 6 dorsal striæ deepest; rostrum broadish. (L. $2\frac{1}{4}$-4 l.)

Var. Cu. plumbeus *Marsh.* i. 302. — *Ste. M.* iv. 125. — Ashy-black; legs pitchy-red; tibiæ and tarsi paler; antennæ red; eyes with a fiery splendour. Sand and gravel pits: Hampstead; Bottisham; Swansea; Hastings; Cumberland: 4-6.

1916 scrobiculatus *Marsh.* i. 307. — *Ste. M.* iv. 128. — Black; clothed with dull reddish scales; thorax with a fovea on each side at the base; elytra obscurely striated, hispid; antennæ dull red. (L. 2 l.) Devonshire: 6.

396 Strophosomus *Billberg.*

§ A. *Thorax* truncate at the base.

1917 Coryli *Fab. E.* ii. 524. — *Mart. C.* pl. 19. f. 20. — *Ste. M.* iv. 126. — Black; varied with fuscous and ashy scales: suture black at the base; legs and antennæ rusty-red; forehead and rostrum with a rough longi-

tudinal furrow, divided by a transverse ridge. (L. 2-3 l.) On hazel: generally distributed: 4-6.

1918 rufipes *Ste. M.* iv. 126. — Black; variegated with fuscous and ashy scales; suture concolorous, or with a minute black dot at the base; legs red; antennæ pitchy; forehead impressed; rostrum with a fovea, divided by a transverse ridge. (L. 1½-2½ l.)

Var. Cu. Asperifoliarum *Kirby ?* — *Ste. M.* iv. 126. — Thorax with 3 fuscous lines; elytra marbled with whitish and brown; club of antennæ reddish. Woods: London district; Suffolk; Bristol: 5-6.

1919 obesus *Marsh.* i. 304. — *Ste. M.* iv. 127. — Short, stout; black, with ashy scales; thorax faintly granulated; elytra slightly striated; legs reddish; antennæ pitchy; rostrum roughish, with an obscure furrow. (L. 2 l.)

Var. ? St. cognatus *Ste. M.* iv. 127. — Rather narrow; elytra distinctly punctate-striate; rostrum not furrowed. In woods, &c.: London district; Bristol; Swansea: 5-6.

1920 atomarius *Marsh.* i. 312. — *Ste. M.* iv. 127. — Griseous-red; sprinkled throughout with minute fuscous spots; thorax roughly punctured; elytra finely striated, the striæ composed of elongate punctures; legs red; antennæ rusty-red. (L. 1½-1¾ l.) Amongst thick herbage: London district; Bristol; Norfolk; Suffolk; S. Wales: 5-6.

1921 subrotundus *Marsh.* i. 304. — *Ste. M.* iv. 128. — Griseous; uniformly clothed with coppery or fuscous scales; thorax ovate; elytra gibbous, faintly punctate-striate, interstices rounded; legs and antennæ reddish; rostrum with a longitudinal furrow, and a transverse ridge at the base. (L. 3½ l.) Woods: London district; Bristol: 5-6.

1922 nigricans *Kirby.* — *Ste. M.* iv. 128. — Black, clothed with ashy-brown scales; thorax roughish; elytra faintly striated; legs and antennæ reddish; head broad, with a faint longitudinal furrow. (L. 2 l.) Woods: London and Edinburgh districts: 6.

1923 squamulatus *Fab. E.* ii. 527. — *Herbst. C.* vi. pl. 87. f. 12. — *Ste. M.* iv. 119. — Somewhat globose; fuscous, or black; densely clothed with whitish scales and hairs: thorax transverse, slightly convex; elytra ample, gibbous, finely striated; tibiæ, tarsi, and antennæ testaceous; rostrum broad, notched. (L. 1½ l.)

♂ ? Cu. retusus *Marsh.* i. 306. — *Ste. M.* iv. 129. — Narrower; eyes very prominent; legs of a clearer red; the thighs sometimes reddish. Heaths, woods, sand-pits, &c.: Hampstead; Isle of Wight; Bristol; S. Wales; Edinburgh: 4-6.

1924 nebulosus *Ste. M.* iv. 129. — Fuscous; clouded with ashy scales: eyes slightly prominent; elytra punctate-striate, alternate interstices slightly raised; legs and antennæ red; rostrum with a deep furrow. (L. 1¼ l.) Heaths: Ripley: 6.

§ B. *Thorax* waved at the base.

1925 chætophorus *Ste. M.* iv. 129. — Rather globose; black: densely clothed with ashy scales and short griseous hairs; thorax with a faint dorsal channel, and a deep transverse furrow at the base; elytra very obsoletely striate; head with a longitudinal furrow. (L. 3½ l.) Woods: London district; Bristol; Dorsetshire: 6.

1926 pilosellus *Gyll.* iii. 300. — *Ste. M.* iv. 130. — Cu. pilosus *Herbst. C.* vi. pl. 77. f. 6. ? — Rather elongate; black; clothed with griseous hairs and scales; forehead flat, with a deep furrow; thorax with 4 ashy stripes; elytra narrowed in front, deeply punctate-striate, alternate interstices a

little narrowed, the broader ones with compact ashy scales; antennæ pitchy. (L. 3-3½ l.) Hedges, &c.: London district: 5-6.

1927 limbatus *Marsh.* i. 301. — Cu. Sus *Kirby.* — *Ste. M.* iv. 130. — Black: shining; nearly glabrous; elytra ovate, base of the suture and the outer margins broadly dotted with silvery scales; legs pitchy-black; antennæ pitchy. (L. 2-3½ l.) Sandy places: London and Edinburgh districts; S. Wales: 5-6.

397 Sciaphilus *Schönherr.*

1928 muricatus *Fab. E.* ii. 544. — *Herbst. C.* vi. pl. 87. f. 9. — *Ste. M.* iv. 131. — Ashy-brown; densely clothed with ashy scales, intermixed with brown hairs on the elytra; thorax ashy, the sides and a dorsal line whitish; legs and antennæ rusty-brown. (L. 2½-3 l.)

Var. Cu. asperatus *Fab. E.* ii. 541. — *Bons. Cu.* ii. 34. f. 25. — *Ste. M.* iv. 131. — Dull ash; elytra spotted with fuscous; thorax fuscous, with 3 ashy lines.

Var.? Sc. pusillus *Ste. M.* iv. 131. — Griseous, not variegated or spotted; thorax without any pale streaks. (L. 1¾ l.) Shady places, in woods: London district; Bristol; Swansea; Cambridgeshire: 5-6.

398 Brachysomus *Schönherr.*

1929 hirsutulus *Fab. E.* ii. 526. — *Pz. F.* vii. f. 7. — *Ste. M.* iv. 132. — Black-brown, reddish, or dull red; pubescent: elytra globose, hispid, deeply punctate-striate; thorax narrow; legs and antennæ pale testaceous; rostrum not furrowed. (L. 1½-1⅞ l.) Hedges; sandy lanes, &c.: London and Edinburgh districts; Bottisham; Swansea: 4-6.

399 Sitona *Germar.*

§ A. *Eyes* small, flattish. *a. Elytra* hispid.

1930 regentsteinensis *Herbst. C.* vii. 46. pl. 98. f. 3. — Si. Ulicis *Kirby.* — *Ste. M.* iv. 133. — Wingless; black; variegated with ashy scales, sometimes tinted with greenish-copper on the head and thorax; the latter convex, deeply punctured, with its sides and a dorsal line pale; elytra faintly striate, shoulders with a pale streak; tibiæ, tarsi, and antennæ pitchy, club dusky: thighs sometimes pale. (L. 2-3¼ l.)

Var. Si. Spartii *Kirby.* — *Ste. M.* iv. 131. — Smaller, varied with greenish scales: tibiæ, tarsi, and base of antennæ dusky-pitchy.

Var.? Si. femoralis *Ste. M.* iv. 134. — Slightly clouded with greenish scales; thighs elongate, stout, and black. Abundant on furze (Ulex) throughout the country: ☉.

1931. hispidula *Fab. E.* ii. 526. — *Ste. M.* iv. 134. — Cu. crinitus *Herbst. C.* vi. pl. 77. f. 13. — Winged; oblong-ovate; black, with fuscous scales: thorax deeply punctured, and with the sides and a dorsal line ashy; elytra deeply punctate-striate, varied with ashy, and each interstice with a row of whitish hairs; thighs pitchy; tibiæ and tarsi testaceous. (L. 2-2¼ l.)

Var. Si. pallipes *Ste. M.* iv. 135. — Elytra spotless, legs wholly pale testaceous. Also abundant on sandy heaths throughout the country: 4-9.

b. Elytra pubescent, but not hispid.

1932 lineata *L.* ii. 616. — *Don.* xi. pl. 389. f. 2. — *Ste. M.* iv. 135. — Black; clothed above with fuscous and beneath with ashy-silvery scales, but of variable tint: thorax short, broad behind, very finely punctured; the lateral margins and a dorsal line mostly whitish; elytra punctate-striate,

alternate interstices frequently whitish; tibiæ, tarsi, and antennæ dull red: — the colour of the scales varies considerably. (L. 2-2½ l.)

Var. Cu. caninus *Fab. E.* ii. 524. — Elytra ashy-brown, with a short stripe at the base of the suture, and another on the shoulders whitish.

Var. Cu. ruficlavis *Marsh.* i. 312. — *Ste. M.* iv. 136. — Black, and slightly glossy, from the scales being abraded; antennæ wholly red. Very abundant, in gardens, pea-fields, &c., throughout the country: ⊙.

1933 sulcifrons *Thunb. Mus. A. U.* app. vi. 113. — Cu. campestris *Oliv. E.* v. 380. pl. 25. f. 366. — Si. tibialis *Ste. M.* iv. 138. — Black, sparingly clothed with coppery scales; thorax very finely punctured, with 3 obscure silvery lines, the 2 lateral ones continued to the margins of the breast; elytra rather short, punctate-striate; tibiæ testaceous; antennæ reddish; club dusky. (L. 2-2¼ l.) Pastures, &c.: abundant everywhere: ⊙.

1934 subaurata *Kirby.* — *Ste. M.* iv. 138. — Black, sparingly clothed with coppery or golden scales, somewhat tessellated on the elytra; thorax with 3 obscure pale lines and 2 more evident spots; antennæ, tibiæ and tarsi, and sometimes the thighs, rusty-testaceous. (L. 1½-2 l.)

♂ ? Si. pleuritica *Kirby.* — *Ste. M.* iv. 134. — Smaller and narrower, with the pleuræ somewhat silvery. Abundant in grassy fields: everywhere: ⊙.

1935 puncticollis *Kirby.* — *Ste. M.* iv. 137. — Black, densely clothed with fuscous or griseous scales: thorax rather long, finely punctured, the hinder angles slightly prominent; the sides and a dorsal line pale, with 2, 4, or 6 varied pale dots on the disc; tibiæ, tarsi, and base of antennæ dull red. (L. 2½-3 l.)

Var. Si. canina *Ste. M.* iv. 136. — Antennæ with the club dusky.

Var. Cu. nigriclavis *Marsh.* i. 312. — *Ste. M.* iv. 136. — Antennæ with the club black; thorax without pale spots.

Var. ? Cu. longiclavis *Marsham.* — *Ste. M.* iv. 137. — Antennæ with the club elongate and black.

Var. Cu. flavescens *Marsh.* i. 311. — *Ste. M.* iv. 137. — Testaceous yellow, beneath paler; eyes, and some minute dots on the elytra, black. Abundant in grassy places: generally distributed: ⊙.

1936 grisea *Fab. E.* ii. 520. — *Ste. M.* iv. 135. — Black; clothed above with griseous, and beneath with ashy, scales; thorax with 3 whitish lines; elytra spotless; tibiæ, tarsi, and antennæ reddish. (L. 2½-3 l.) Common in grassy places: everywhere: ⊙.

1937 suturalis *Ste. M.* iv. 138. — Black; sparingly clothed with ashy or greenish scales; thorax with the sides, and sometimes a dorsal line, pale; suture, and a streak down each elytron, also pale; legs and base of the antennæ dull red. (L. 2-2¼ l.) Grassy places: near London and Bristol: 6-9.

1938 humeralis *Kirby.* — *Ste. M.* iv. 138. — Black, or fuscous; clothed with griseous or ashy scales: thorax with 3 obscure lines; elytra delicately punctate-striate, with a humeral streak and the scutellum pale; legs and antennæ pale rusty-red: — club of the latter and the thighs sometimes scaly. (L. 1¾-2½ l.)

Var. Si. Pisi *Ste. M.* iv. 139. — Disc of thorax fuscous; thighs and club of antennæ black. Common in gardens, fields, &c., throughout the S. of England: 3-7.

§ B. *Eyes* large, prominent. *a. Elytra* hispid.

1939 crinita *Oliv. E.* v. 382. pl. 35. f. 550. — *Ste. M.* iv. 139. — Oblong-ovate, black; clothed with griseous or whitish scales; thorax faintly

punctured, the sides and a dorsal line pale; elytra slightly punctate-striate, interstices dotted with black, and with whitish hairs; tibiæ, tarsi, and base of antennæ red. (L. 2 l.)

Var.? Si. albescens *Ste. M.* iv. 140. — Elytra not spotted; legs and antennæ wholly red. Grassy places: London district; Bottisham; Suffolk; S. Wales: 5-7.

1940 lineella *L. F.* No. 546.? — *Bons. C.* ii. 30. f. 18.? — *Ste. M.* iv. 140. — Oblong; black; with fuscous scales; thorax with 3 whitish stripes; elytra faintly punctate-striate, somewhat hispid behind, with an irregular whitish dot on the disc, spotted with black; tibiæ, tarsi, and antennæ red. (L. 2 l.) Grassy places: London district; Swansea: 6-8.

b. Elytra slightly pubescent.

1941 cambrica *Kirby.* — *Ste. M.* iv. 140. — Short, ovate; black; spotless; above very sparingly clothed with ashy-brown scales; beneath with ashy; elytra faintly tessellated with ashy-brown; thorax somewhat glabrous, with 3 very faint pale streaks; legs and antennæ wholly black, with an ashy pile. (L. 3-3½ l.) Gravel-pits: London; Hertford; Ripley; S. Wales: 5-7.

1942 fusca *Marsh.* i. 313. — *Ste. M.* iv. 140. — Somewhat linear; elongate; brown-black; body whitish beneath; suture irregularly pale; legs and antennæ pitchy-black. (L. 3¼-4¼ l.) Sand and gravel pits: Hampstead; Wimbledon; Crwmlyn Burrows: 4-6.

400 Polydrusus *Germar.*

§ A. *Thighs* unarmed.

1943 undatus *Fab. E.* ii. 525. — *Oliv. E.* v. pl. 35. f. 553. — *Ste. M.* iv. 144. — Elongate; black; clothed with ashy silvery scales; thorax narrow, somewhat cylindric; elytra with 3 waved bands of dusky scales; legs and antennæ red. (L. 2-2½ l.) Woods and hedges: London and Edinburgh districts; Bristol; S. Wales; Devon: 6.

1944 fulvicornis *Fab. E.* ii. 525. — *Bons. Cu.* ii. 27. f. 13. — *Ste. M.* iv. 144. — Elongate; red-brown, with ashy scales; thorax unequal, with a dorsal line; elytra with 3 denuded bands; legs and antennæ pale red. (L. 2 l.) Woods: London district and Scotland: 6.

1945 micans *Fab. E.* ii. 529. — *Ste. M.* iv. 144. — Cu. Pyri *Don.* iv. pl. 121. f. 314. — Black; clothed with golden-fiery-copper, greenish, or ashy-silvery scales; elytra ample, gibbous behind; legs and antennæ red, the latter shortish; thighs very obscurely toothed. (L. 3-5 l.) On trees and hedges: London district; Swansea; Carlisle: 6.

1946 flavipes *De Geer*, v. 241. — *Ste. M.* iv. 145. — Elongate; black; clothed with brilliant satiny-green or bluish scales, with longish brown hairs intermixed: legs and antennæ pale testaceous, the latter slender; rostrum short. (L. 3-4 l.) Hedges, trees, &c.: London district; Bottisham; S. Wales: 6.

1947 impressifrons *Dej. C.* 93. — *Schön. S.* (*Cur.*) ii. 140. — Oblong; black; clothed throughout with brilliant green scales; with some short brown hairs intermixed; legs and antennæ pale testaceous; rostrum very short; forehead with a slight impression. (L. 3 l.) Hedges: London district: 6.

1948 flavovirens *Schön. S.* (*Cur.*) ii. 142. — Cu. sericeus *Herbst. C.* vii. pl. 97. f. 10. — Oblong; black; slightly pubescent; and clothed with dull yellowish-green scales; thorax flattish; legs and antennæ pale testaceous; rostrum moderate. (L 3-3½ l.) Hedges: London district: 6.

1949 speciosus *Ste. C.* 412. No. 1836 *. — *Cur.* vi. pl. 278. — Oblong; black; glabrous; densely clothed with silken-green scales; elytra deeply

punctate-sulcate; legs and antennæ pale testaceous; club of the latter black. (L. 3-4½ l.) Trees: Kimpton, Hants: 6.

1950 sericeus *Schall. A. H.* i. 286. — *Ste. M.* iv. 143. — Cu. splendidus *Herbst. A.* pl. 24. f. 30. — Oblong; black; clothed with opaque rounded green scales: elytra with the suture raised behind; legs and antennæ pale testaceous, the latter slender; club rather dusky; thighs very obscurely toothed, unarmed in ♀. (L. 2½-3 l.) Hedges: London district; Bristol: 6.

§ B. *Thighs* distinctly toothed.

1951 cervinus *L.* ii. 615. — *Ste. M.* iv. 143. — Cu. messor *Herbst. C.* vi. pl. 75. f. 11. — Oblong; black; clothed throughout with shining ashy or golden scales; elytra with irregular denuded brown spots; tarsi and antennæ red; club of latter black. (L. 2½-3 l.)

Var. Cu. melanotus *Kirby.* — *Ste. M.* iv. 143. — Scales of a greenish hue; elytra very indistinctly spotted. Hedges, &c.: London district; S. Wales; Coombe, &c.: 5-6.

1952 Chrysomela *Oliv. E.* v. 415. pl. 26. f. 386. — *Schön. S.* (*Cur.*) ii. 146. — Oblong-ovate; black; slightly pubescent; sparingly clothed with golden scales; thorax and elytra on each side with a whitish patch; elytra deeply striated; tibiæ, tarsi, and antennæ testaceous. (L. 2¼-3¼ l.)

Var. ? Cu. amaurus *Marsh.* i. 319. — *Ste. M.* iv. 141. — Ovate; black; clothed throughout with greenish-silvery scales; thorax and elytra convex, the latter slightly punctate-striate; legs long, dull testaceous; thighs clavate, the club black or fuscous; hinder pair toothed; antennæ dull red.

Var. Po. confluens *Kirby.* — *Ste. M.* iv. 142. — With all the thighs toothed. Grassy places: London district; Hastings; Brighton; New Forest; S. Wales; Suffolk; and Yorkshire: 5-6.

§ C. Metallites *p. Schönherr.*

1953 marginatus *Ste. M.* iv. 142. — Me. ambiguus *Schön. S.* (*Cur.*) ii. 157. — Oblong; reddish-griseous, or pitchy; sparingly clothed with narrow ashy-greenish scales, but rather dusky on the sides of the thorax and of the elytra; scutellum transverse, truncate, densely covered with greenish-ashy scales; legs and antennæ testaceous. (L. 1½-2½ l.) On juniper: Birch Wood: 5-6.

1954 pulchellus *Ste. M.* iv. 149. — Slender; black; rather sparingly clothed with golden-griseous scales; elytra striate, the 2d and 5th interstices and the margin densely clothed with pale greenish-ashy scales; legs and antennæ pale testaceous; thighs very slightly toothed. (L. 2½ l.) Darenth Wood: 6.

401 Nemoicus *Dillwyn.*

1955 oblongus *L.* ii. 615. — *Mart. C.* pl. 20. f. 33. — *Ste. M.* iv. 146. — Elongate, narrow; black, or brown; with a longish pubescence; legs and antennæ red; elytra pale dull red or brown, with the margin generally black: — sometimes entirely pale, or black, and with the elytra, legs, and antennæ pale, &c. (L. 2-2½ l.) In woods and hedges: generally distributed: 4-8.

402 Phyllobius *Schönherr.*

§ A. *Thighs* toothed.

1956 calcaratus *Fab. E.* ii. 539. — *Clairv. E. H.* i. pl. 8. f. 3, 4. var. — Oblong; black; slightly pilose; clothed with slender ashy, greenish, coppery, or golden scales; thorax narrowed in front, obsoletely constricted;

scutellum somewhat oval, rounded at the tip; legs and antennæ reddish, pitchy or black. (L. 4 l.) Woods: London district: 6.

1957 Pyri *L.* ii. 615. — *Pz. F.* cvii. f. 4. — *Ste. M.* iv. 147. — Oblong; black; clothed with narrow silky green or blue scales; thorax rather short, narrowed in front, transversely convex; scutellum triangular, acute; elytra slightly clouded with dusky scales; legs and antennæ rusty-red; club fuscescent. (L. 3-4 l.)

Var. ♂ Cu. cæsius *Marsh.* i. 318. — *Ste. M.* iv. 147. — Narrower; elytra spotless.

Var. ? Cu. Alneti *Fab. E.* ii. 542. — *Ste. M.* iv. 148. — Legs entirely black; antennæ dusky or pitchy. Extremely abundant amongst nettles, everywhere: 5-6.

1958 argentatus *L.* ii. 615. — *Don.* iii. pl. 107. — *Ste. M.* iv. 148. — Black; clothed with rounded green, or bluish, scales; and with scattered pale erect hairs; tibiæ and tarsi pale yellowish; antennæ rather stout, pale testaceous: — thighs sometimes flavescent. (L. 2½-3 l.) On oaks, &c.: abundant throughout the country: 5-6.

1959 maculicornis *Germ. I. N.* i. 449. — *Faun. I. E.* ix. f. 12. — *Ste. M.* iv. 148. — Oblong; black; clothed with bluish, golden-yellow, or greenish scales, and a few whitish hairs; tarsi (and sometimes the tibiæ) pitchy; antennæ dull red, with the tip of the scape and the club black. (L. 3 l.) On trees: common in the London district; Bottisham; Yorkshire; Inverness: 5-6.

1960 Mali *Fab. M.* i. 122. — *Mart. C.* pl. 19. f. 21, 22. — *Ste. M.* iv. 149. — Oblong; black; clothed with narrow golden-coppery scales, sometimes greenish, whitish on the scutellum: legs and antennæ, the latter stoutish, testaceous; thorax much narrower than the elytra, especially in front. (L. 3-4 l.) Abundant on trees within the London district; Bottisham; S. Wales: 5-7.

§ B. *Thighs* not toothed.

1961 Pomonæ *Oliv. E.* v. 380. pl. 35. f. 548. — *Ste. M.* iv. 149. — Black; clothed with green, golden, or bluish scales; thorax transverse, narrowed in front; abdomen densely scaly; tibiæ and antennæ dull red. (L. 2-2½ l.) Trees: London district: 5-6.

1962 uniformis *Marsh.* i. 311. — *Ste. M.* iv. 149. — Black; clothed with pale dull green, bluish, or golden scales; thorax oblong; tibiæ and tarsi testaceous; antennæ rather stout, also testaceous. (L. 1¾-2 l.)

Var. ? Ph. albidus *Ste. M.* iv. 150. — Scales pale whitish-ash; thighs dusky; antennæ rather slender. Hedges, &c.: London and Edinburgh districts; Bottisham; S. Wales: 5-7.

1963 parvulus *Fab. E.* ii. 528. ? — *Oliv. E.* v. 381. pl. 20. f. 271. — *Ste. M.* iv. 150. — Black; clothed with green, bluish, whitish, or tawny scales; thorax transverse; abdomen slightly scaly; apex pitchy; thighs dusky; tibiæ and tarsi dull testaceous; antennæ pale testaceous. (L. 1½-1¾ l.)

Var. Ph. minutus *Ste. M.* iv. 150. — Legs and antennæ rusty-pitchy; club of antennæ dusky. Trees, &c.: London district: 5-7.

1964 viridicollis *Fab. E.* ii. 528. — *Oliv. E.* v. 83. pl. 20. f. 268. — *Ste. M.* iv. 151. — Black; shining; sides of the thorax and the breast clothed with green scales; tibiæ, tarsi, and antennæ dull red; the latter rather stout. (L. 2¼-2½ l.) On the coast (on Artemisia maritima): Newcastle; Edinburgh; Yarmouth: 5-6.

403 Tanymecus *Germar.*

1965 palliatus *Fab. E.* ii. 513. — *Pz. F.* xix. f. 5. — *Ste. M.* iv. 152. — Elongate; densely clothed with short hairs and scales; fuscous above,

dusky-white beneath, and on the sides: thorax longish; rostrum with an obsolete impression. (L. 4-5½ l.) On nettles: Epping Forest; Darenth; Bottisham; Yorkshire; Bristol: 6.

(404 BRACHYDERES *Schönherr.*)

(1966 † incanus *L.* ii. 616. — *Ste. M.* iv. 151. note. — Elongate; black; with brown pubescence; antennæ slender, dull red. (L. 7-2 l.) Improperly stated as British.)

(405 RHYTIRHINUS *Schönherr.*)

(1967 porcatus *Marsh.* i. 255. — *Ste. M.* iv. 154. note. — Black; thorax clothed with griseous scales, deeply furrowed, and deeply foveolate, foveæ black; elytra gibbous, with 2 crenate ridges, terminating in a tubercle; thighs and tibiæ with ashy-white scales; claws and antennæ pitchy. (L. 3 l.) On Ornithogalum, Hammersmith.)

406 CLEONUS *Schönherr.*

1968 ophthalmicus *Herbst. C.* vi. 86. pl. 65. f. 3. — Cle. distinctus *Ste. M.* iv. 153. — Black; varied with ashy-white; thorax with a ridge in front, and 2 flexuous whitish stripes; elytra faintly punctate-striate, each with 2 distinct white spots behind the middle; rostrum with a longitudinal ridge. (L. 7 l.) Coombe Wood; Epping Forest: 6.

1969 nebulosus *L.* ii. 617. — *Bons. C. S.* ii. 20. f. 4. — *Ste. M.* iv. 154. — Elongate; black; densely and irregularly clothed with ashy pubescence; elytra acuminated, deeply punctate-striate, with 2 denuded oblique bands; thorax and rostrum ridged: — the pubescence varies from bright red to griseous, ashy and whitish. (L. 6-10 l.) Heaths: Wimbledon Common; Cambridge; Martlesham, Suffolk; New Forest: 5-6.

1970 glaucus *Fab. E.* ii. 516. — *Pz. F.* xix. f. 6. — *Ste. M.* iv. 155. — Shortish, black; irregularly clothed with an ashy-brownish down; elytra somewhat acuminated, deeply punctate-striate, with 2 somewhat bent denuded bands; rostrum with a ridge. (L. 7 l.) Heaths: Ockham and Ripley: 6-7.

1971 sulcirostris *L.* ii. 617. — *Don.* xv. pl. 509. f. 1. — *Ste. M.* iv. 155. — Black; densely clothed with ashy down; elytra obsoletely punctate-striate, with 2 very oblique denuded bands; rostrum with 3 somewhat equal grooves. (L. 7-10 l.) Barren heaths, &c.: Hertford; Southend; Bottisham; Yarmouth; Bristol; S. Wales; Leith: 3-8.

407 BOTHYNODERES *Schönherr.*

1972 albidus *Fab. E.* ii. 517. — *Pz. F.* xix. f. 7. — *Ste. M.* iv. 156. — Black; with whitish pubescence; disc of thorax, 4 spots and a band on the elytra denuded; rostrum with 2 furrows, the tip of the ridge bifid; antennæ with the base dull red. (L. 5-6 l.) Gravel-pits: Norwich; Ipswich; Cromer; Portobello, near Edinburgh: 5-6.

408 LIXUS *Fabricius.*

1973 ‡ Ascanii *L.* ii. 610. — *Pz. F.* xlii. f. 13. — *Ste. M.* iv. 157. — Elongate; black: clothed with a pale yellowish down; a line on each side of the thorax, and on the sides of the elytra, bluish-white; elytra finely punctate-striate, the apex scarcely acuminated; tarsi and antennæ dull pitchy. (L. 6 l.) Norfolk?

1974 paraplecticus *L.* ii. 610.? — *Don.* x. pl. 348. f. 2. — *Ste. M.* iv. 157. — Ashy-brown, pubescent, sprinkled with a testaceous powder; elytra somewhat cylindric, the apex terminating in a short mucro, the disc punctate-striate, striæ disposed in pairs, the alternate interstices most

lutescent; legs black; antennæ dull red; club black. (L. 8-9½ l.) On aquatic plants, Isle of Ely: 6.

1975 productus *Marsham.* — *Ste. M.* iv. 158. — Narrow; ashy-brown, pubescent, with a greenish or lutescent powder: elytra cylindric, regularly punctate-striate, lateral margins luteous, the apex produced into an elongate, more or less diverging, acute spine-like mucro; antennæ pale dull red, club fuscous. (L. 6-8 l.) On Sium latifolium: banks of Thames, between Fulham and Barnes; Isle of Ely; Holme Fen, Hants; Halvergate, Norfolk; near Carlisle, &c.: 6-7.

1976 angustatus *Fab. E.* ii. 502. — *Ste. M.* iv. 158. — *Cur.* xii. pl. 542. — Elongate; black; clothed with a yellowish, or ashy, pile: thorax subconic, rough, with an obscure impression at the base; elytra obtuse, striate-punctate; antennæ dull rust-colour; rostrum slightly bent, and coarsely punctured. (L. 6-9 l.) Hedges: Sydenham; Shoreham; Hickstead, &c., Sussex; Hastings: 6-7.

1977 bicolor *Oliv. E.* v. 244. pl. 30. f. 460.? — L. lateralis *Ste. M.* iv. 159. — Narrow, black; clothed with a tawny-brown pile: thorax with the sides broadly yellowish-white; elytra obtuse, finely punctate-striate, sides dusky, base impressed; rostrum straight, with a ridge. (L. 5 l.) Isle of Thanet, near Sandwich: 6.

409 Larinus *Schüppel.*

1978 Sturnus? *Herbst. C.* vi. 126. pl. 68. f. 5. ♀: pl. 62. f. 2. ♂? — *Ste. M.* iv. 159. — Black; thorax roughly punctured, the sides ashy; elytra punctate-striate, interstices finely roughened transversely, and with tufts of griseous pile, the 3d interstice with a broken whitish band; antennæ pitchy; club dusky. (L. 6 l.) Hedges: Merton: 6.

410 Rhinobatus *Megerle.*

1979 planus *Fab. E.* ii. 441.? — *Ste. M.* iv. 160. — Cu. ebeneus *Don.* xv. pl. 509. f. 2. — Black, clouded with fascicles of griseous down; thorax thickly roughened; elytra somewhat cylindric; punctate-striate, and finely coriaceous; antennæ dull pitchy. (L. 4½-5 l.) On the coasts: Dover; Sandgate; Brighton; Somersetshire: 6.

411 Rhinocyllus *Germar.*

1980 latirostris *Lat. H.* xi. 125. — Cu. Cardui *Don.* xv. pl. 512. — Rh. thaumaturgus *Ste. M.* iv. 161. — Dull black, clothed with ashy or yellowish pile: head and thorax with ashy-brown hairs; elytra striate, interstices striate; tarsi and antennæ pitchy; rostrum with an interrupted ridge. (L. 2½-3 l.) On thistles: coasts of Sussex, Hants, and Dorset; Isle of Wight; Canterbury: 6.

(412 Chlorophanus *Dalman.*)

(1981 † viridis *L.* ii. 616. — *Pz. F.* xvii. f. 3. — *Ste. M.* iv. 161. note. — Black, slightly sprinkled with green scales above; and densely clothed beneath and on the sides with yellowish-green. (L. 5-6 l.) Improperly recorded as British.)

413 Magdalis *Germar.*

1982 carbonaria *L.* ii. 612. — *Ste. M.* iv. 162. — Black; glabrous; slightly shining: thorax deeply punctured, opaque, anterior angle spiniform; elytra deeply punctate-sulcate. (L. 3-3½ l.) Hedges and fruit trees: London district; Bottisham; Carlisle: 6-7.

1983 atramentaria *Marsh.* i. 293. — *Ste. M.* iv. 162. — Ma. carbonarius *Cur.*

v. pl. 212. ?— Black, slightly shining; glabrous; thorax punctured, its sides crenulated: elytra with cancellated striæ, interstices convex, and somewhat smooth. (L $2\frac{1}{2}$-$3\frac{1}{4}$ l.) Hedges, &c.; not common: London district: 6-7.

1984 aterrima *Fab. E.* ii. 486. — *Ste. M.* iv. 163. — Rh. Cerasi, *Oliv. E.* vi. pl. 22. f. 309. — Deep black, opaque; glabrous: thorax somewhat 4-drate, sparingly punctured, the sides straight, produced in front into an acute tooth; elytra moderately punctate-striate, interstices finely coriaceous; antennæ pitchy, club black; rostrum short, broad. (L. 1-$2\frac{1}{2}$ l.) Abundant in hedges: London district; Bottisham; S. Wales: 6-7.

1985 asphaltina *Germ. I. N.* i. 193. — *Ste. M.* iv. 163. — Cu. Cerasi *Pz. F.* xlii. f. 19. — Deep black, opaque, glabrous; thorax granulated, the sides rounded in the middle, and terminating in front in an acute tooth; elytra punctate-striate; interstices very obsoletely punctured; antennæ rusty-red; club pitchy. (L. $3\frac{1}{2}$ l.) Hedges: Ripley and Camberwell: 6-7.

414 Rhinodes *De Jean.*

1986 Pruni *L.* ii. 607. — *Ste. M.* iv. 164. — Cu. erythroceros *Herbst. C.* vi. pl. 64. f. 6. — Black; slightly opaque: thorax with an obtuse tubercle on each side, the disc closely punctate: elytra elongate, somewhat cylindric, crenate-striate; antennæ dull red; rostrum short, straight. (L. 1-$1\frac{3}{4}$ l.) Hedges: London district; Bottisham; Carlisle: 6-7.

1987 Cerasi *L.* ii. 607. — *Herbst. C.* vii. pl. 64. f. 1. — *Ste. M.* iv. 164. — Black; opaque: thorax short, very much punctured; sides rounded, unarmed in front; elytra striated; interstices finely granulate-coriaceous; thighs with a very obscure tooth; rostrum short, cylindric. (L. 2-$2\frac{1}{2}$ l.) Hedges: London district: 6-7.

415 Panus *Schönherr.*

1988 barbicornis *Lat. G.* ii. 264. — *Ste. M.* iv. 165. — Black; somewhat opaque; thorax flattish above, 3-foveolated; elytra rather glossy, punctate-sulcate, interstices convex, finely strigose; antennæ dull red beneath, the club black-brown. (L. $1\frac{1}{2}$-$1\frac{3}{4}$ l.) Hedges: Ripley; Bristol; Norfolk: 6.

Fam. 49. ATTELABIDÆ *Westwood.*

ccccxvi. Apion *Ant.* 11-jointed, basal or medial: *rost.* porrect, more or less curved: *body* pear-shaped, nearly glabrous.

ccccxvii. Oxystoma *Ant.* 11-jointed, basal: *rost.* elongated, deflexed, not dilated at the tip: *body* oblong, convex, very pubescent.

ccccxviii. Ramphus *Ant.* 11-jointed, short, 2d joint elongated, somewhat clavate: *rost.* elongate, filiform, incurved: *post. thighs* thickened, formed for leaping.

ccccxix. Deporaüs *Ant.* 11-jointed, basal joints short, robust, 2d globose: *rost.* short, dilated at the tip: *post. thighs* thickened in ♂.

ccccxx. Rhynchites *Ant.* 11-jointed: *rost.* dilated at the tip, longer than the *head*, the latter inserted by a thick *neck* into the *tho.*, which is conie-cylindric: *body* slightly flattened.

ccccxxi. Attelabus *Ant.* 11-jointed: *rost.* shorter than the head, deflexed, dilated at the tip: *head* not narrowed behind: *elytra* somewhat 4-drate: tip of *abdomen* exposed: *body* broad, rather globose.

ccccxxii. Apoderus *Ant.* 12-jointed: *rost.* short, stout, scarcely dilated at the tip: *head* narrowed behind into a distinct neck: *tho.* narrowed in front, somewhat 3-angular.

416 Apion *Herbst.*

A. *Rostrum* subulated at the apex, thickened at base.

1989 Craccæ *L.* ii. 606.— *Herbst. C.* vii. pl. 102. f. ii. *B.* — *Ste. M.* iv. 166. — Black, obscure; with a slight hoary pubescence: rostrum compressed, gibbous beneath, apex attenuated; antennæ testaceous at the base; coleoptra somewhat globose, punctate-sulcate. (L. 1¼-1½ l.)

♂ Ap. ruficorne *Herbst. C.* vii. 110. pl. 102. f. 8. *U.* — *Ste. M.* iv. 167. — Rostrum more slender; antennæ wholly testaceous. On Vicia cracca: London district; Norfolk; Yorkshire: 5-7.

1990 Pomonæ *Fab. E.* ii. 425. — *Ste. M.* iv. 167. — Ap. cærulescens *Lin. Tr.* (*Kirby*) ix. pl. 1. f. 4. — Black; with a hoary pile: forehead rugulose; rostrum gibbous beneath, punctured; thorax somewhat convex, punctured; coleoptra somewhat ovate, bluish, punctate-sulcate: antennæ basal, 1st joint red at the base in the ♂, and forehead sulcate. (L. 1¾-2⅓ l.) On firs and whitethorn: Hertford; Dulwich; Southend; Cambridge: 3-7.

1991 subulatum *Lin. Tr.* (*Kirby*) ix. 28. pl. 1. f. 5. — *Ste. M.* iv. 167. — Black, opaque, somewhat pilose: rostrum elongate: forehead striated: head and thorax punctured, the latter with a short dorsal impression: elytra punctate-striate: ♂ with basal joint of antennæ reddish. (L. 1½-2 l.)

♂ Ap. Platalea, *Germ. M.* ii. 143. pl. 3. f. 23. — *Ste. M.* iv. 168. — Rostrum slightly dilated and flat before the tip; thorax cylindric, coleoptra oblong oval.

Var. ♀ Ap. Marshami *Ste. M.* iv. 168. — Bluish black: thorax very rough, with an obscure dorsal impression. On Lathyrus pratensis: London district; Suffolk; Yorkshire; Norfolk: 3-6.

B. *Rostrum* filiform, or somewhat cylindric.

a. Rostrum short.

1992 Limonii *Lin. Tr.* (*Kirby*) ix. 1. pl. 20. — *Ste. M.* iv. 168. — Brassy, with fine decumbent pile; above purplish copper or violet, rarely golden-green: head smooth behind; forehead and thorax punctured: coleoptra globose-ovate, punctate-striate: eyes and antennæ black. (L. 1-2 l.) On Statices Limonium: Clay, Burnham Market, &c., Norfolk and Suffolk: 4-6.

1993 Rumicis *Lin. Tr.* (*Kirby*) ix. 67. — *Ste. M.* iv. 169. — Black, or bluish, rather smooth and glossy: head, thorax, and rostrum punctured; the latter short, stout; coleoptra obovate, dark violet, obtuse, punctate-striate: antennæ long, club thickened. (L. 1-1¼ l.)

Var.? Ap. Spartii *Lin. Tr.* (*Kirby*) ix. 56. — *Ste. M.* iv. 170. — Head round, forehead roughly punctate; thorax somewhat cylindric, scarcely wider than the head: elytra deep-blue. On Rumex obtusifolia, broom, &c.: London district; Norfolk; Suffolk; Yorkshire: 6-8.

1994 affine *Lin. Tr.* (*Kirby*) ix. 68. — Black, glabrous; slightly shining: head large, punctured; rostrum thick, somewhat filiform; head and thorax punctured, the latter coarsely, and somewhat globose; coleoptra obovate, greenish, punctate-striate. (L. 1¼ l.) London district; Suffolk; Bottisham; Southend: 4-6.

1995 curtirostre *Germ. M.* ii. 230. — *Ste. M.* iv. 170. — Black, with a griseous pile; head punctured, rough between the eyes; thorax somewhat cylindric, punctured, and with an impression behind; coleoptra oblong-oboval, punctate-sulcate: rostrum short. (L. 1¼-1⅓ l.)

♂? Ap. humile *Germ. M.* ii. 232. pl. 3. f. 1. — *Ste. M.* iv. 170. — Thorax more cylindric, rostrum shorter; head broad, slightly rough between the eyes.

Var.? Ap. plebeium *Germ. M.* iii. 43.? — *Ste. M.* iv. 172. — Rather slender;

head small. Amongst herbage: London district; Norfolk; Suffolk; Yorkshire; Scotland: 5-7.

1996 minimum *Herbst. C.* vii. 115. pl. 103. f. 3. *g.* — Ap. velox *Lin. Tr.* (*Kirby.*) x. 349. — *Ste. M.* v. 173. — Black; somewhat opaque; very finely pubescent: head with confluent wrinkles between the eyes; thorax with united punctures and a faint dorsal line; coleoptra obovate, punctate-sulcate, interstices very narrow, ridged; rostrum short and stoutish. (L. ¾-1 l.) On willows: Coombe Wood; Dorking: 6-8.

1997 simile *Lin. Tr.* (*Kirby*) x. 351.— *Ste. M.* iv. 171. — Black, with a slight obscure pile: rostrum longish, curved; thorax somewhat cylindric, with confluent punctures, and a dorsal line; coleoptra obovate, brassy-black, and silky, punctate-striate, interstices flat. (L. 1-1¼ l.) Ripley; Hertford; Dorking; Hunstanton, Norfolk; Yorkshire: 6-7.

1998 tenue *Lin. Tr.* (*Kirby*) ix. 61. — *Ste. M.* iv. 171. — Very slender; deep black, somewhat glabrous and shining; head with united punctures; thorax oblong, cylindric, and slightly punctured, with a deeper impression behind; coleoptra oblong-oval, punctate-striate; rostrum moderate, slender. (L. 1 l.) On Medicago sativa, &c.: Ripley; Southend; Little Blakenham; Suffolk; S. Wales; Scotland: 5-9.

1999 seniculus *Lin. Tr.* (*Kirby*) ix. 61. — *Ste. M.* iv. 171. — Narrow; deep black, with rather long ashy pile; head narrow, faintly punctate between the eyes; thorax widish behind; punctured; coleoptra oblong-ovate, finely punctate-striate: rostrum rather long, slender, bent. (L. 1¼ l.) London district; Suffolk; Yorkshire: 5-9.

2000 pubescens *Lin. Tr.* (*Kirby*) x. 350. — *Ste. M.* iv. 179. — Black, with whitish pile: head deeply impressed between the eyes, and obscurely striated; thorax short, broadish behind, punctulate, the base with a furrow; coleoptra ovate, faintly punctate-striate, interstices flattish. (L. 1 l.) London district; Suffolk; Yorkshire: 5-9.

2001 Curtisii *Kirby.* — *Ste. M.* iv. 169. — Black; glabrous, slightly shining; head faintly impressed between the eyes, and delicately striated; thorax slightly elongate, punctulate; coleoptra obovate, sometimes with a bluish tinge; antennæ pitchy, club black. (L. 1¼ l.) London district; Norfolk: 6.

2002 violaceum *Lin. Tr.* (*Kirby*) ix. 65. pl. 1. f. 16. — *Ste. M.* iv. 172. — Deep black or brassy, mostly glabrous; head wrinkled with confluent punctures; obscurely furrowed between the eyes: thorax somewhat cylindric, irregularly but thickly punctured, and with a 3-angular pit at the base; coleoptra oblong-ovate, punctate-sulcate, blue, violet, or greenish: rostrum short, stout, bent. (L. 1¾-2 l.) On the dock: London district; Norfolk; Suffolk; Lancashire; S. Wales; Scotland, &c: 5-8.

2003 Hydrolapathi *Marsh.* i. 249. — *Lin. Tr.* (*Kirby*) ix. pl. 1. f. 17. — *Ste. M.* iv. 173. — Black; glabrous; thickly punctured: head punctate-striate between the eyes; thorax with a dorsal furrow; coleoptra oblong-ovate, punctate-striate, blue-green; rostrum very short, stout. (L. 1⅓-1¾ l.)

Var. ? Ap. cæruleopenne *Ste. M.* iv. 173. — Thorax coarsely punctured, and with a continuous dorsal furrow; elytra blue, punctate-striate, interstices convex. On the dock (Rumex Lapathus, &c.): London district; Cambridge; Carlisle; S. Wales; Scotland, &c.: 1-8.

2004 Malvæ *Fab. E.* ii. 426. — *Lin. Tr.* (*Kirby*) ix. pl. 1. f. 2. — *Ste. M.* iv. 173. — Black; clothed with whitish decumbent hairs; elytra, except the base, which is dusky, legs, and antennæ testaceous; coxæ black. (L. 1 l.) On the mallow (Malva): London district; Cambridge; Bottisham; S. Wales, &c.: 4-7.

2005 hæmatodes *Lin. Tr.* (*Kirby*) ix. 76. — *Germ. M.* ii. pl. 4. f. 25. — *Ste. M.* iv. 174. — Pale blood red, opaque; legs pale; eyes black; elytra crenate-striate; rostrum very short, bent, glabrous. (L. 1¼-1½ l.) Amongst furze on heaths: London district; Cambridge; S. Wales; Yorkshire: 4-6.

2006 rubens *Ingall.* — Ap. hæmatodes obs. — *Ste. M.* iv. 174. — Pale blood red, opaque, pubescent; legs paler; eyes black: elytra crenate-striate; rostrum rather long, slender, bent. (L. 1¾ l.) Shirley Common: 6.

2007 sanguineum *De Geer.* v. 251. — Pale blood red, opaque, slightly pubescent; legs paler; eyes black: elytra crenate-striate; rostrum rather long, narrow, straight. (L. 1½-2 l.) Near London and Yorkshire: 6.

2008 frumentarium *L.* ii. 608. — *Pz. F.* xx. f. 14. — *Ste. M.* iv. 174. — Deep blood red; eyes black: thorax somewhat globose, margined in front, and channelled behind; coleoptra oblong-ovate, punctate-sulcate; rostrum short, stout, slightly bent. (L. 2-2½ l.) On dock, &c.: London district; Cambridge; S. Wales; Yorkshire; Carlisle; Scotland: 4-8.

2009 vernale *Pk. F.* iii. 183. — *Ste. M.* iv. 174. — Cu. Lythri *Pz. F.* xvii. f. 8. — Pitchy-brown, clothed with a dense whitish-ashy pile; elytra with 2 oblique denuded fuscous stripes; legs and antennæ testaceous, the latter basal. (L. 1 l.) On Ballota, Lamium, and nettles: London district; Suffolk; S. Wales: 5-7.

2010 Onopordi *Lin. Tr.* (*Kirby*) ix. 71. — *Germ. M.* ii. pl. 2. f. 14. — *Ste. M.* iv. 175. — Black, glabrous: head flattish in front, rugulose, with confluent punctures between the eyes; thorax oblong, cylindric, deeply and coarsely punctured, and with a basal furrow; coleoptra ovate, greenish-brass or bluish, punctate-sulcate; antennæ basal. (L. 1½-2 l.)

Var. ? Ap. rugicolle *Germ. M.* ii. 201. pl. 3. f. 18. — *Ste. M.* iv. 175. — Brassy; sides of thorax rounded; elytra with interstices faintly punctured. On Onopordum acanthium, docks, &c.: London district; Cambridge; S. Wales; Yorkshire: 5-8.

2011 penetrans *Germ. M.* ii. 244. pl. 2. f. 12. ♂. f. 11. ♀. — *Ste. M.* iv. 175. — Elongate; narrow; deep black; opaque; with a griseous pile: head flat; thorax oblong, punctured, with a furrow behind; coleoptra oblong-ovate, punctate-sulcate; antennæ basal. (L. 1½ l.) Thistles: London district: 5-6.

2012 Radiolus *Marsh.* i. 247. — *Germ. M.* ii. pl. 2. f. 13. — *Ste. M.* iv. 176. — Shuttle-shaped; black; nearly glabrous; head wrinkled between the eyes; crown with a transverse impression: thorax finely punctured; coleoptra ovate, acute, brassy black, bluish or greenish, obtusely punctate-striate; antennæ long, basal. (L. 1½-2 l.)

♀ var ? Ap. nigrescens *Ste. M.* iv. 176. — Head broad, obscurely striate between the eyes; elytra black; rostrum longish. On mallows, &c.: London district; Cambridge; S. Wales; Yorkshire: 5-6.

2013 stolidum *Germ. M.* ii. 218. pl. 2. f. 5. — Slender; black; slightly pubescent: forehead with 2 longish furrows, approaching behind; thorax slightly narrowed in front, obsoletely punctured; elytra faintly punctate-striate; antennæ basal. (L. 1¼-1⅓ l.) London district and Sussex: 6.

2014 lævigatum *Lin. Tr.* (*Kirby*) ix. 70. — *Ste. M.* iv. 177. — Lanceolate; black; glabrous; smooth: forehead with 4 or 5 striæ between the eyes; thorax cylindric, punctate, disc smooth; coleoptra obovate, violet, finely and faintly punctate-striate; antennæ basal. (L. 1¼ l.) London district and Suffolk: 6.

2015 æneum *Fab. E.* ii. 423. — *Herbst. C.* vii. pl. 102. f. 1. *A.* — *Ste. M.* iv. 177. — Black; glabrous, rather glossy; head smooth behind, punctulated and with a deep furrow between the eyes: thorax finely punctured,

with a fovea behind; coleoptra ovate, acute, brassy, or greenish, simply striated; antennæ submedial. (L. 2 l.) On mallows, &c.: abundant: London district; Cambridge; Carlisle; Yorkshire; S. Wales; Scotland, &c.: 4-8.

2016 Carduorum *Lin. Tr.* (*Kirby*) ix. 72. pl. 1. f. 19. — *Ste. M.* iv. 177. — Black; with obscure pile: head roughly striate between the eyes, and with a smooth fovea in front: rostrum longish; with a tubercle on each side at the insertion of the antennæ, which are basal: coleoptra oblong-ovate, bluish, or greenish; punctate-striate. (L. 1¼-1⅔ l.)

Var. Ap. tumidum *Ste. M.* v. 420. — Elytra deep black: forehead slightly wrinkled. On thistles: London district; Cambridge; S. Wales; Yorkshire; Carlisle; Scotland: 5-7.

b. Rostrum more or less elongate. 1. *Antennæ* basal.

2017 rufirostre *Fab. E.* ii. 424. — *Ste. M.* iv. 178. — *Herbst. C.* vii. pl. 102. f. 10. ♂. — Black, with a slight ashy pile above, and dense whitish one beneath; legs and antennæ pale red; tarsi beneath black; thorax short, widest behind, with a faint dorsal impression; coleoptra ovate, shining, sulcate-punctate: rostrum of ♂ with the tip red, of ♀ wholly black; apex of abdomen red in the ♂. (L. 1½-1⅔ l.) On mallows; generally distributed: 5-7.

2018 pallipes *Lin. Tr.* (*Kirby*) ix. 38. pl. 1. f. 7. — *Ste. M.* iv. 178. — Black, obscure; with a slight griseous pile: head wide, punctulate, with a channel between the eyes: thorax slightly globose, very thickly punctured: coleoptra oblong-ovate, punctate-striate; base of the antennæ and legs testaceous; tarsi dusky. (L. 1¼ l.) Grassy places: London district; Yorkshire: 5-7.

2019 confluens *Lin. Tr.* (*Kirby*) ix. 62. pl. 1. f. 15. — *Ste. M.* iv. 179. — Slender, black; slightly pubescent; head with 2 deep furrows between the eyes, united behind: thorax cylindric, rather faintly punctured; and with an obscure dorsal line: coleoptra oblong-ovate, obsoletely punctate-sulcate. (L. 1½ l.) Meadows: London district; Suffolk and Yorkshire: 5-7.

2020 pusillum *Ger. M.* ii. 209. pl. 2. f. 4. — *Ste. M.* iv. 179. — Black, with a griseous pile: thorax rounded on the sides, narrowed in front, the base wide: coleoptra obovate, punctate-sulcate. (L. 1 l.) London district: 5-6.

2021 atomarium *Lin. Tr.* (*Kirby*) ix. 59. pl. 1. f. 14. — *Ste. M.* iv. 420. — Black; rather densely pubescent; thorax short, narrowed in front; elytra narrowish, punctate-striate; rostrum much bent, and a little deflexed. (L. 1 l.) London district: 5-6.

2022 picicorne *Walton?* — Rather narrow; black, densely pubescent; thorax slightly narrowed in front: elytra punctate-striate; anterior tibiæ, and base of the 4 posterior reddish-pitchy; antennæ pitchy, club black. (L. ¾-1 l.) London district, near Dorking; Suffolk: 5-6.

2023 vicinum *Lin. Tr.* (*Kirby*) ix. 25. pl. 1. f. 3. — *Ste. M.* iv. 180. — Black, slightly pilose; head punctured between the eyes; thorax short, narrowed in front, and with an obscure puncture behind; coleoptra somewhat globose, the shoulders prominent, deeply punctate-striate; antennæ wholly black. (L. 1¼ l.) London district; Suffolk and Yorkshire: 5-6.

2024 Hookeri *Lin. Tr.* (*Kirby*) ix. 69. pl. 1. f. 16. — *Ste. M.* iv. 180. — Black; slightly pubescent; obscure: thorax globose, delicately punctured; elytra punctate-sulcate, tinted with greenish or blue, interstices transversely strigose. (L. 1¼ l.) Hertford; New Forest; Norfolk and Yorkshire: 5-6.

2. *Ant.* more or less medial.

2025 striatum *Marsh.* i. 249. — *Lin. Tr.* (*Kirby*) ix. pl. 1. f. 10. — Ap. Pisi *Ste. M.* iv. 180. — Deep black, with somewhat hoary pile; rostrum moderate; head striated between the eyes: thorax punctulate, with a dorsal furrow, narrower than the coleoptra, which are globose, and deeply punctate-sulcate. (L. 1¼ l.)

♂ Ap. immune *Lin. Tr.* (*Kirby*) ix. 52. — *Ste. M.* iv. 181. — Smaller, and with the coleoptra obtuse.

Var.? Ap. atratulum *Germ. M.* ii. 192. pl. 3. f. 16. — *Ste. M.* iv. 181. — Opaque, black; thorax somewhat cylindric, very thickly punctate; coleoptra obconic. On heaths: London district; Southend; Midgley Moor, &c., Yorkshire; Scotland: 5-7.

2026 Sorbi *Herbst. C.* vi. 111. pl. 102. f. 9. — *Ste. M.* iv. 181. — Black, glabrous, and shining: head rough between the eyes; thorax somewhat globose, thickly punctured, with a very deep pit behind; coleoptra globose, black or tinged with brassy in the ♂, greenish blue in ♀, somewhat punctate-striate, interstices broad; rostrum long, especially in the ♀, cylindric, bent. (L. 1⅓-2 l.)

♂ var.? Ap. carbonarium *Germ. M.* ii. 176. pl. 3. f. 17. *Ste. M.* iv. 181. — Thorax rather cylindric, roughly punctured; coleoptra slightly globose. London district; Suffolk; Yorkshire: 4-8.

2027 Ervi *Lin. Tr.* (*Kirby*) ix. 23. — *Germ. M.* ii. pl. 3. f. 13. — Black; slightly pubescent: head striated between the eyes; thorax somewhat cylindric, base with a dorsal furrow; coleoptra subglobose, punctate-striate; rostrum elongate, slender, bent; antennæ testaceous, club black. (L. 1⅓-1½ l.)

♂ Ap. Lathyri *Lin. Tr.* (*Kirby*) ix. 24. — *Ste. M.* iv. 192. — Antennæ wholly testaceous. On Lathyrus pratensis: Hertford; Ripley; Suffolk; Hants; Yorkshire; S. Wales, &c.: 5-7.

2028 punctigerum *Pk. F.* iii. 179. — *Ste. M.* iv. 182. — Black, glabrous; thorax somewhat cylindric, slightly punctate, the sides rather gibbous, base with an obscure line; coleoptra globose-ovate, punctate-striate, interstices convex, blue-black; head with 3 furrows between the eyes; rostrum rather thickened at the base. (L. 1½-1⅔ l.)

Var.? ♂ Ap. sulcifrons *Herbst. C.* vii. 132. pl. 103. f. 12. — *Ste. M.* iv. 182. — Thorax more deeply punctate, and with a deeper basal furrow. On Vicia sepium: London district; Cambridge; Yorkshire: 5-7.

2029 Spencii *Lin. Tr.* (*Kirby*) ix. 57. pl. 1. f. 13. ♀. — *Ste. M.* iv. 183. — Black, with an obscure whitish pile: head with 3 furrows between the eyes: thorax shortish, slightly narrowed in front, punctured, and with a basal channel: coleoptra oblong, deep blue or greenish, punctate-striate. (L. 1½ l.)

♂ Ap. foveolatum *Lin. Tr.* (*Kirby*) ix. 48.— *Ste. M.* iv. 194. —Glabrous; head with a fovea between the eyes; thorax cylindric.

Var.? Ap. intrusum *Gyll.* iv. 550. — *Ste. M.* iv. 194. — Forehead more deeply excavated; rostrum stouter and more bent.

Var.? Ap. Columbinum *Germ. M.* ii. 185. — *Ste. M.* iv. 194. — Rather more slender; rostrum longer, and elytra oval, less convex. On Vicia cracca, &c.: London district; Suffolk; Hants; Yorkshire: 5-7.

2030 virens *Herbst. C.* vii. 118. pl. 103. f. 6. — *Ste. M.* iv. 184. — Black; somewhat glabrous, shining: head brassy, rugulose between the eyes; thorax obsoletely punctured, and with a basal fovea; coleoptra oblong-ovate, blue or greenish, punctate-sulcate, the sutural groove deepest. (L. 1¼-1½ l.)

♂ Ap. Marchicum *Lin. Tr.* (*Kirby*) ix. 54. — *Ste. M.* iv. 184. — Forehead with 3 obscure furrows: rostrum stouter. Grassy places: London district; Suffolk; Yorkshire; Cumberland; Scotland: 5-7.

2031 Astragali *Pk. F.* iii. 180. — *Lin. Tr.* ix. pl. 1. f. 12. — *Ste. M.* iv. 184. — Brassy, or greenish-brass, glabrous and shining: forehead rough; thorax cylindric, punctulated, and with a deep dorsal channel; coleoptra oblong-ovate, punctate-sulcate, bright green, or blue. (L. 1½ l.) On Astragalus glycyphyllus: Barham, Suffolk; and near Leeds: 6.

2032 Loti *Lin. Tr.* (*Kirby*) ix. 58. — *Ste. M.* iv. 185. — Black, with a griseous pile: forehead wrinkled; thorax somewhat cylindric, punctured, and with a basal fovea; coleoptra oblong-ovate, punctate-sulcate; rostrum rather long, bent and filiform. (L. 1⅓ l.) On Lotus corniculatus: London district; S. Wales; Yorkshire: 6-7.

2033 puncticolle *Waterhouse?* — Black, with a slight griseous pile; thorax somewhat cylindric, very thickly and coarsely punctured, and with a faint dorsal fovea; coleoptra oblong-ovate, punctate-sulcate. (L. 1⅓ l.) London district: 6.

2034 civicum *Germ. M.* ii. 234. pl. 3. f. 12. — *Ste. M.* iv. 185. — Black, with a griseous pile: thorax transverse, punctured, and with a channel behind: coleoptra broad, oblong-oval, punctate-sulcate; rostrum long and slender, bent; head roughish between the eyes. (L. 1⅓ l.) London district, at Dorking, &c.: 6.

2035 pavidum *Germ. M.* ii. 59. pl. 4. f. 4. — *Ste. M.* iv. 185. — Black, with a griseous pile: thorax somewhat cylindric, punctate, and with a channel behind: coleoptra oboval, dull green, punctate-sulcate; antennæ dull red at the base; head striate between the eyes. (L. 1½ l.) London district: 6.

2036 Waltoni. — Short, broad: black, with a palish pile: thorax short, slightly narrowed in front, punctured, and with a short channel at the base; coleoptra obovate, bluish-green, or lead colour; rather faintly punctate-sulcate; rostrum moderate, stoutish, slightly bent; head slightly excavated and roughish between the eyes. (L. 1-1¼ l.) Brighton: 6.

2037 Kirbii *Germ. M.* iii. 50. — *Ste. M.* iv. 191. — Black; with a griseous pile: head rough between the eyes; thorax cylindric, deeply punctate, and with a short basal channel: coleoptra oblong-oboval, punctate-striate, interstices flat: rostrum long and slender. (L. 1⅔-2 l.)

Var. ♀ Ap. scutellare *Lin. Tr.* (*Kirby*) x. 353. — Scutellum rather elongate. On furze, &c.: Charlton; Devonshire; Yorkshire: 5-7.

2038 obscurum *Marsh.* i. 244. — *Ste. M.* iv. 186. — Black; with a whitish pile; forehead with confluent punctures: thorax also deeply punctured, and with a slight basal furrow; coleoptra glabrous-oblong, obscure brassy black, faintly punctate-striate; 4 anterior legs dull red, joints black; rostrum rather long. (L. 1¾ l.) Wiltshire?

2039 flavipes *Herbst. C.* vii. 106. pl. 102. f. 5. — *Ste. M.* iv. 186. — Black; glabrous; shining: thorax somewhat cylindric, narrow; coleoptra ovate, punctate-sulcate: thighs and tibiæ red; tarsi black; antennæ pale red at the base: — 4 anterior coxæ of ♂ yellow, and tibiæ pitchy. (L. 1¼ l.) On clover: generally distributed: 4-7.

3. *Antennæ* medial.

2040 nigritarse *Lin. Tr.* (*Kirby*) ix. 31. pl. 1. f. 6. ♀. — *Ste. M.* iv. 187. — Black, shining; thorax cylindric; coleoptra ovate, gibbous, punctate-sulcate; 4 anterior coxæ, trochanters and legs, pale testaceous; antennæ pale testaceous, club black; apex of the rostrum pale testaceous: ♀ with

the 2 anterior coxæ alone pale testaceous, rostrum wholly black. (L. ¾-1 l.) Amongst clover, very abundant: London district; S. Wales; Yorkshire: 4-6.

2041 assimile *Lin. Tr.* (*Kirby*) ix. 42. — *Ste. M.* iv. 187. — Slender; black; glabrous: thorax cylindric, finely punctured; coleoptra narrow, somewhat elliptic, punctate-striate; all the thighs and the anterior coxæ and tibiæ testaceous; base of the antennæ pitchy; rostrum rather long and bent. (L. 1¼ l.) Clover fields, extremely abundant: generally distributed in the south; Yorkshire; S. Wales: ⊙.

2042 apricans *Herbst. C.* vii. 117. pl. 103. f. 5. — *Ste. M.* iv. 188. — Black; glabrous; thorax oblong, somewhat cylindric, delicately punctured, and with a basal fovea; coleoptra obovate, punctate-sulcate; thighs, trochanters, 2 anterior coxæ, and anterior tibiæ pale red; antennæ testaceous at the base. (L. 1⅓-1¾ l.) On Trifolium pratense: generally distributed: ⊙.

2043 æstivum *Germ. M.* ii. 189. pl. 4. f. 16. — *Ste. M.* iv. 189. — Black; shining: thorax cylindric, finely punctured, and with a small basal fovea: elytra rather broad, oval, sulcate-punctate; anterior coxæ and tibiæ, thighs and 4 hinder tibiæ within, pale testaceous; anterior trochanters pitchy. (L. 1-1⅓ l.)

Var.? Ap. ruficrus *Germ. M.* ii. 171. pl. 4. f. 17. — *Ste. M.* iv. 189. — Anterior coxæ and trochanters black.

Var. Ap. Leachii *Ste. M.* iv. 189. — Antennæ reddish at the base; thighs wholly tawny. Clover fields: London district; Yorkshire: ⊙.

2044 varipes *Germ. M.* ii. 173. pl. 4. f. 19. — *Ste. M.* iv. 190. — Black; shining: thorax oblong, deeply punctured, and with a basal channel; coleoptra oblong-oval, punctate-striate; legs testaceous; knees, lower half of the 4 hinder tibiæ, and all the tarsi, black; anterior tibiæ dusky at tip; antennæ with the basal joint red; rostrum short, bent. (L. 1½ l.) Clover fields: London district; Southend; Bottisham; Yorkshire: ⊙.

2045 lævicolle *Lin. Tr.* (*Kirby*) x. 348. — *Ste. M.* iv. 188. — Black, glabrous, shining; forehead 3-sulcate: thorax cylindric smooth, very finely punctured, and with an obscure basal fovea; coleoptra globose-ovate, gibbous; finely punctate-striate: thighs, anterior coxæ and tibiæ pale testaceous, apical portion of 4 hinder tibiæ black. (L. 1½ l.) Near Windsor; Dulwich; Isle of Oxney; Brighton. Southend: 5-6.

2046 difforme *Germ. M.* iii. 46. — *Cur.* v. pl. 211. — *Ste. M.* iv. 190. — Shining black: forehead punctured: thorax sub-4-drate, coarsely punctured, and with a basal furrow; coleoptra oblong-ovate; faintly punctate-striate; thighs and anterior tibiæ in the middle tawny-red, 4 hinder tibiæ with a tawny ring; antennæ red, with the basal joints dilated in ♂; club black. (L. 1½ l.) Meadows: near Coombe Wood; Bexley; Croydon; Brighton: 6-10.

2047 filirostre *Lin. Tr.* (*Kirby*) ix. 46. — *Ste. M.* iv. 191. — Black; glabrous; thorax somewhat cylindric, delicately punctured, and with a faint basal fovea: coleoptra somewhat globose-ovate, punctate-striate; legs and rostrum long, the latter filiform; ♀ with a pale ring at tip of anterior thighs. (L. 1⅓ l.) Little Blakenham, Suffolk; Brighton: 6-9.

2048 † glabratum *Germ. M.* iii. 47. — *Ste. M.* iv. 191. — Black, glabrous, shining; head punctate-rugose; thorax oblong, cylindric, punctured, and with a short basal furrow: coleoptra oblong-oval; punctate-sulcate; rostrum long, thickened at base. (L. 1½ l.?) Near Exeter.

2049 ebeninum *Lin. Tr.* (*Kirby*) ix. 55. pl. 1. f. 11. — *Ste. M.* iv. 191. — Deep black, very glabrous and glossy: thorax oblong, with the sides some-

what gibbous, coarsely punctured, and with a deep basal fovea; coleoptra oval, punctate-sulcate, interstices convex; antennæ short; rostrum moderate. (L. 1½ l.) On Lotus major: Hertford; Coombe Wood; Southend; Sheppy; Yorkshire: 5-6.

2050 Viciæ *Pk. F.* iii. 181. — *Germ. M.* ii. pl. 4. f. 15. — *Ste. M.* iv. 192. — Black, with an ashy pile above, and snowy pubescence beneath: thorax somewhat cylindric, short; finely punctured, and with a short basal furrow; coleoptra oval, punctate-sulcate; legs and antennæ testaceous; 4 anterior trochanters red: ♀ with club of antennæ black. (L. 1¼ l.)

Var.? Ap. Griesbachii *Ste. M.* iv. 179. — The 4 hinder tibiæ black at the apex. On Vicia cracca: near London; Hants; Suffolk; Yorkshire; Scotland: 5-6.

2051 Ononis *Lin. Tr.* (*Kirby*) ix. 25. — *Germ. M.* ii. pl. 3. f. 24. — *Ste. M.* iv. 192. — Black, with a hoary pile; rather obscure: forehead obscurely striated; thorax cylindric, slender, and with a dorsal channel; elytra oboval, punctate-sulcate; rostrum longish, filiform, subcylindric and shorter in the ♂. (L. 1¼ l.) On Ononis arvensis: London district; South Wales; Suffolk; Yorkshire; Scotland: 5-7.

2052 vorax *Herbst. C.* vii. 119. pl. 103. f. 10. — *Ste. M.* iv. 193. — Black, with an ashy pubescence; thorax somewhat conic, punctate, and with a dorsal channel; coleoptra oblong-oval, punctate-sulcate, dark blue; antennæ testaceous at the base: anterior tibiæ slightly flexuous in ♂. (L. 1½-1¾ l.) On Vicia cracca, &c.: London district; Cambridge, Southend; Yorkshire: 3-7.

2053 Pisi *Fab. E.* ii. 425. — Ap. punctifrons *Lin. Tr.* (*Kirby*) ix. 50. pl. i. f. 9. — *Ste. M.* iv. 193. — Black, glabrous; thorax somewhat cylindric, punctate, and with a basal channel; coleoptra obovate, globose, gibbous, blue, punctate-sulcate, interstices rather convex; rostrum moderate; head widish, coarsely punctured between the eyes. (L. 1½-1⅔ l.)

Var.? Ap. æratum *Ste. M.* iv. 185. — Of a brassy tinge; forehead obscurely punctured, elytra bluish. Grassy fields: London district; Wood Ditton, Cambridge; S. Wales; Yorkshire: 5-7.

2054 subsulcatum *Marsh.* i. 249. — *Ste. M.* iv. 193. — Ap. Æthiops *Herbst. C.* vii. pl. 103. f. 9.? — Black, glabrous; slightly shining: thorax slender, nearly cylindric, coarsely punctured, and with an obscure basal furrow; coleoptra somwhat globose, bluish, punctate-sulcate, interstices flattish; forehead wrinkled; rostrum moderate. (L. 1½-1¾ l.)

Var.? Ap. subcæruleum *Ste. M.* iv. 183. — Coleoptra oboval, deep blue-black. On Vicia sepium: London district; Hants; Yorkshire: 6.

2055 Gyllenhali *Lin. Tr.* (*Kirby*) ix. 63. — *Ste. M.* iv. 190. — Black; pubescent; head narrow, with wrinkled striæ between the eyes, which are flattish; thorax short, somewhat cylindric; coarsely punctured, and with a distinct basal channel; coleoptra oblong-ovate, deeply punctate-striate; rostrum very long, stoutish; antennæ sometimes pitchy at the base.

♂ Ap. unicolor *Lin. Tr.* (*Kirby*) ix. 58. — *Ste. M.* iv. 183. — More pubescent; rostrum shorter, stouter, and with 2 elevations between the antennæ. (L. 1½-1⅔ l.) London district; Suffolk; Yorkshire: 6-7.

2056 Meliloti *Lin. Tr.* (*Kirby*) ix. 64. — *Ste. M.* iv. 195. — Rather narrow; black, with a slight pile; head elongate, roughly striate between the eyes; thorax oblong-cylindric, punctate, and with a basal channel; coleoptra elongate-obovate, greenish blue or black, punctate-sulcate, interstices flattish; rostrum long, filiform, much bent. (L. 1½ 2. l.) On Melilot: Charlton, Kent; Windsor; Yorkshire: 4-8.

417 Oxystoma *Dumeril.*

2057 fuscirostris *Fab. E.* ii. 424. — *Ste. M.* iv. 195. — Ap. melanopum *Lin. Tr.* (*Kirby*) ix. pl. 1. f. 1. — Dusky, with an ashy pile above, whitish beneath: elytra brown, with an oblique ashy streak at the base; legs red; base of thighs and tarsi black; antennæ red, club dusky. (L. 1½ l.) London district; Suffolk: 6.

2058 Ulicis *Forst. C.* i. 31. — *Ste. M.* iv. 196. — Black, clothed with a dense ashy pile: anterior legs dull red; base of the thighs and 4 hinder legs black; tibiæ dull red; antennæ red at the base: — Legs sometimes all black, or red, or the 4 anterior ones dull red. (L. 1¼-1½ l.) On furze (Ulex Europæus): generally distributed: 4-8.

2059 Genistæ *Lin. Tr.* (*Kirby*) x. 347. — *Ste. M.* iv. 196. — Black, clothed with whitish hairs: elytra with a broad straight whitish streak on the disc of each, reaching nearly to the tip; legs red; coxæ, trochanters, and tarsi black. (L. 1⅓ l.) On Genista tinctoria: London district; Suffolk, &c.: 5-6.

418 Ramphus *Clairville.*

2060 pulicarius *Herbst. C.* vi. 429. pl. 90. f. 12. — *Ste. M.* iv. 197. — Black, slightly glossy; finely punctured; elytra punctate-striate: antennæ pale testaceous, with the club black, or very pale with the club dusky. (L. ½-¾ l.) On birch, willow, and whitethorn: London and Edinburgh districts; Bristol; Swansea; Halifax: 5-6.

419 Deporaüs *Leach.*

2061 Betulæ *L.* ii. 620. — *Wood.* i. pl. 15. — *Ste. M.* iv. 198. — Shining black; scarcely pubescent; thickly punctured; elytra deeply punctate-striate, interstices obscurely punctured. (L. 1¾-2½ l.) On birch, hazel, oak, &c.: widely distributed: 5-6.

420 Rhynchites *Herbst.*

§ A. *Rostrum* short, broad, dilated at the apex.

2062 cylindricus *Kirby* — *Ste. M.* iv. 199. — Somewhat cylindric; glabrous; black, shining: thorax coarsely punctured; elytra irregularly and deeply punctate-striate; tip of rostrum pitchy. (L. 1½-1¾ l.) Birch: Coombe Wood; Hertford; Raehills: 5-6.

2063 lævicollis *Ste. M.* iv. 199. — Somewhat cylindric, glabrous; shining black: thorax glossy, minutely punctured; elytra dark blue, deeply punctate-striate, interstices slightly convex; tip of rostrum pitchy. (L. 2 l.) Woods: Darenth: 6.

2064 cyaneopennis *Ste. M.* iv. 199. — Somewhat cylindric, glabrous; shining black: thorax rough, irregularly and deeply punctured, narrowed slightly behind; elytra blue or greenish, somewhat coarsely crenate-striate, interstices obscurely punctured; tip of rostrum pitchy. (L. 2½-3 l.) In woods: London district; Midgley Moor; Raehills: 6.

2065 pubescens *Herbst. C.* viii. 138. pl. 105. f. 3. — *Ste. M.* iv. 199. — Oblong, very pubescent; blue: thorax punctulate, rounded on the sides; elytra rather obsoletely punctate-striate, interstices with an obscure row of punctures; rostrum longish, rather straight, with 2 furrows at the base. (L. 3½-4½ l.) On oak and hazel: Darenth and Coombe woods; Epping; Monk's Wood: 6.

2066 sericeus *Herbst. C.* viii. 135. pl. 104. f. 12. — Rh. ophthalmicus *Ste. M.* iv. 200. — Oblong-ovate, pubescent; blue-green or violet: thorax longish, minutely punctate; elytra coarsely punctate-striate, interstices

thickly punctured; rostrum short, with 3 furrows at the base; antennæ black. (L. 1½-2¼ l.)

Var. Rh. similis *Cur.* xiv. pl. 642. — Apex of the rostrum, and sometimes the head, and anterior legs bronzed, or coppery. Woods: London and Edinburgh districts: 6.

2067 cavifrons *Chevrolat.* — *Schön. S.* (*Cur.*) i. 226. — *Ste. M.* v. 421. — Oblong; blue-green, with a long pubescence; thorax punctured: elytra punctate-striate, interstices with obscure rows of punctures; rostrum longer than the head, with 2 grooves at the base; forehead with a deep excavation. (L. 2½-3½ l.) Woods: London district: 6.

§ B. *Rostrum* elongate: *elytra* distinctly striated.

2068 nanus *Pk. F.* iii. 176. — *Ste. M.* iv. 200. — Oblong, glabrous; bluish-green: thorax deeply punctured; elytra somewhat cylindric, punctate-striate, interstices impunctate. (L. 1¼-1¾ l.) Birch: Coombe and Darenth woods; Bristol; Hertford: 6.

2069 Alliariæ *L.* ii. 606.? — *Oliv. E.* v. 81. pl. 25. f. 35. — *Ste. M.* iv. 200. — Oblong-ovate, pubescent; blue, sometimes with a greenish tinge: thorax somewhat conic, coarsely punctured; elytra deeply punctate-striate, interstices with a row of minute punctures; rostrum moderate, slightly carinated; antennæ dusky. (L. 1½-2¼ l.)

Var.? Rh. confinis *Ste. M.* iv. 202. — Bright violet; rostrum very short. Whitethorn hedges: London district; Wood Ditton, Cambridge; Weston, Oxon; Swansea, &c.: 4-6.

2070 pauxillus *Germ. I. N.* i. 186. — Rh. atrocæruleus *Ste. M.* iv. 201. — Ovate, blue-black, slightly shining, pubescent; eyes prominent; thorax somewhat cylindric, coarsely punctured; elytra deep blue-black, rather deeply punctate-striate, interstices narrow, convex, impunctate. (L. 1½ l.) London district: 6.

2071 interpunctatus *Wilkin.*? — *Ste. M.* iv. 201. — Ovate; blue, or greenish; slightly pubescent: thorax granulated, thickly but finely punctured, and with a smooth dorsal line; elytra deeply punctate-striate, interstices with a row of minute impressions; legs and antennæ black. (L. 1¼-1¾ l.)

Var.? Rh. longirostris *Ste. M.* iv. 202. — Thorax thickly and rather coarsely granulated; rostrum very long. Hedges: London district: 6.

2072 minutus *Herbst. C.* vii. 135. pl. 104. f. 11. — *Ste. M.* iv. 201. — Ovate; blue-green, slightly pubescent, and shining: thorax rather obscure, thickly and finely punctured; elytra deeply punctate-striate, interstices impunctate; legs bluish; rostrum and antennæ dusky-black. (L. 1-1½ l.)

Var. Rh. rugipennis *Ste. M.* iv. 202. — With the elytra transversely wrinkled between the striæ. Hedges: London district; Bristol; Norfolk: 5-6.

2073 æquatus *L.* ii. 607. — *Don.* iv. pl. 121. f. 1, 2. — *Ste. M.* iv. 202. — Dull brassy, thickly punctured, and with a dusky pile; thorax with an obscure furrow; elytra red, deeply punctate-striate; tibiæ pitchy-brown; tarsi dull black: — thighs and tibiæ sometimes red. (L. 1½-2½ l.) Hedges and whitethorn flowers: London district; Cambridge; Oxon; Edinburgh: 5-6.

2074 † cæruleocephalus *Fab. E.* ii. 423. — *Pz. F.* xciv. f. 6. — *Ste. M.* iv. 202. — Pubescent; violet or blue; thorax testaceous, punctured; elytra testaceous, punctate-striate, interstices impunctate; rostrum longish, slender, straight. (L. 3 l.) Hedges: Windsor: 6.

2075 æneovirens *Marsh.* i. 239. — *Ste. M.* iv. 202. — Oblong-ovate, slightly pubescent: brassy-green or black; elytra deeply punctate-striate, inter-

stices narrow, convex, coppery-green, brassy or blue; legs black, thighs brassy; body black beneath. (L. 1½-2 l.) Oaks; rather local: Epping Forest, near Wanstead; Hertford; Raehills: 6.

2076 cupreus *L.* ii. 608. — *Panz. F.* xx. f. 9.? — *Ste. M.* iv. 203. — Above dull brassy, with a slightly griseous pile, beneath brassy-black: elytra somewhat 4-drate, brassy, or coppery, deeply punctate-striate, interstices transversely wrinkled; tarsi black. (L. 2½-3 l.) Rare; hedges: Darenth Wood; Epping; Baron Wood, Cumberland: 6.

§ C. *Rostrum* elongate: *elytra* punctate: *thorax* in ♀ spinose.

2077 Betulæ *L.* ii. 611. — *Don.* iii. pl. 74. — *Ste. M.* iv. 203. — Glabrous; above shining silky-green, or blue, with all intermediate tints; beneath golden- or blue-green, or blue; legs and rostrum golden-green; forehead with an impression; elytra deeply punctured: — extremely variable in tint. (L. 3½-4½ l.) On birch: metropolitan woods; Swansea; Baron Wood; Scotland: 6.

2078 Populi *L.* ii. 611. — *Pz. F.* xx. f. 7. — *Ste. M.* iv. 204. — Glabrous; above shining brassy-green, or coppery; beneath with the legs and rostrum violet-blue; elytra rather deeply punctured; tarsi and antennæ black; forehead with a deep furrow. (L. 2-3½ l.) On aspens: Lee Wood, Surrey; Blenden, Kent; Epping; Coombe: 6-9.

2079 Bacchus *L.* ii. 611. — *Don.* i. pl. 24. f. 1. — *Ste. M.* iv. 204.—Very pubescent: oblong; shining golden-copper, with a bluish or greenish tinge; rostrum violet-black; thorax somewhat conic in ♂, nearly globose and spined in ♀, disc coarsely punctured; elytra deeply punctured and transversely wrinkled; tibiæ brownish; tarsi and antennæ black. (L. 4-5 l.) Rare; on Prunus spinosus: Crayford and Birch Wood, Kent: 6.

421 Attelabus *Linn.*

2080 curculionoides *L.* ii. 619. — *Ste. M.* iv. 205. — *Cur.* xv. pl. 710. — Glabrous; black; thorax, elytra and abdomen, above bright red; elytra finely punctate-striate, interstices remotely punctured; — basal joints of the antennæ sometimes reddish. (L. 1½-3 l.) Oak and hazel: London district; Norfolk; Suffolk; Cumberland; Edinburgh district: 5-7.

422 Apoderus *Olivier.*

2081 Avellanæ *L.* ii. 619. — *Clairv. E. H.* i. pl. 15. f. 1, 2. — *Ste. M.* iv. 206. — Glabrous; black; thorax, elytra, thighs, and tibiæ red; elytra crenate-striate: — thorax sometimes with a black streak or spot in front; and the head red, or reddish behind. (L. 3-3½ l.) On hazels: London and Edinburgh district; Cambridge; Cumberland; Swansea, &c.: 6-7.

(2082 † Coryli *Fab. E.* ii. 416. — *Ste. M.* iv. 206 note. — Black; elytra red, crenate-striate. (L. 3½ l.) Erroneously stated to be British.)

Fam. 50. BRUCHIDÆ *Leach.*

ccccxxiii. Rhinomacer *Ant.* clavate, club loose and slender: *rost.* elongate, dilated at the tip; *head* transverse; *elytra* soft, somewhat linear, pubescent: *tarsi* long.

ccccxxiv. Choragus *Ant.* clavate, long; club 3-jointed; *head* obscurely rostrated: *body* short, ovate cylindric: *legs* saltatorial.

(ccccxxv. Caryoborus *Ant.* long, serrated: *head* with a slight ridge: *eyes* large, notched, placed obliquely: *tho.* 2-sinuated behind, with acute angles; *hinder thighs* elongate, and very much thickened, pectinate-dentate beneath; *hinder tibiæ* much bent.)

ccccxxvi. Bruchus *Ant.* filiform, compressed, or slightly thickened to the

tips; sometimes serrated: *head* deflexed, slightly produced in front: *eyes* lunate: *tho.* lobed behind: *elytra* oblong-quadrate.

ccccxxvii. Brachytarsus *Ant.* short; abruptly clavate, club 3-jointed: *rostrum* short, broad: *eyes* entire: *tho.* transverse, hinder angles acute: *body* short, ovate: *tarsi* short, stout.

ccccxxviii. Phloeöbius *Ant.* clavate, slender, elongated; club obtuse, long: *eyes* prominent, notched; rostrum short, with the tip notched: *body* ovate: *legs* long, slender, *tarsi* elongate, slender.

ccccxxix. Tropideres *Ant.* longish, clavate, 2 basal joints elongate; club abruptly thickened, slightly compressed: *rostrum* short, broad, flat, perpendicular: *eyes* entire: *body* oblong.

ccccxxx. Platyrhinus *Ant.* rather long, clavate; 2 basal joints short; club abruptly thickened, compressed: *rostrum* broad, truncate, perpendicular: *eyes* prominent, entire: *body* oblong.

ccccxxxi. Anthribus *Ant.* of ♂ longer than the body, of ♀ short, 2 basal joints short; club narrow, acute: *rostrum* short, broad, deflexed, deeply notched at the tip: *eyes* notched: *body* oblong: *elytra* nearly covering the abdomen: *tarsi* elongate.

423 Rhinomacer *Fabricius.*

2083 Attelaboides *Fab. E.* ii. 428. — *Ste. M.* iv. 207. pl. xxi. f. 3. — Oblong; black, with a brassy tinge, densely clothed with an ashy or yellowish pile; antennæ and legs pale testaceous; elytra irregularly punctured. (L. 3 l.) Hedges: Inverness and its vicinity: 6.

424 Choragus *Kirby.*

2084 Sheppardi *Lin. Tr.* (*Kirby*) xii. pl. xxii. f. 14. — *Ste. M.* iii. 343. — Pitchy-brown, or black, punctured; slightly pubescent: elytra striated; legs and antennæ red. (L. ¾ l.)

Var. Ch. niger *Kirby.* — *Ste. M.* iii. 343. — Deep black; the legs and antennæ pitchy-brown. On willows: Barham, Suffolk; Ripley; Newmarket Heath: 6-7.

(425 Caryoborus *Schönherr.*)

(2085 cruciger. — Elliptic; black, with a delicate griseous pile above, and a dense whitish-ashy one beneath, and on the pygidium and base of hinder thighs: elytra flat, with a white X on the base of the suture; 4 anterior legs very pale testaceous; posterior black, their thighs with 1 broad and 4 acute teeth. (L. 2-2½ l.) In red West India seeds: evidently imported.)

426 Bruchus *Geoffroy.*

§ A. *Hinder thighs* toothed. 1. *Thorax* with a lateral tooth.

2086 Pisi *L.* ii. 604. — *Wood.* i. pl. 13. ? — *Ste. M.* iv. 213. — Black; thorax with a tooth on each side: elytra striated, varied with some griseous spots and obscure transverse streaks; anterior tibiæ, apex of the middle pair, all the tarsi, and the 4 basal joints of the antennæ, red; hinder thighs with an acute spine. (L. 2¼-2½ l.) Among peas: London and its environs: 5-7.

2087 rufimanus *Sch. S.* (*Cur.*) i. 58. — Br. Pisi *Pz. F.* lxvi. f. 14. ? — Oblong-ovate; black: thorax with a snowy spot before the scutellum; elytra spotted with white; base of the antennæ and the anterior legs testaceous-red; hinder thighs with an obsolete, obtuse tooth. (L. 1½-2 l.) London district: 6.

2088 granarius *L.* ii. 605. — *Ste. M.* iv. 213. — Br. Pisi *Samou.* pl. 2. f. 17. — Ovate; black; thorax dotted with white; elytra with a griseous-white patch towards the scutel; and some scattered white spots on the disc; 4 basal joints of the antennæ, and the anterior legs testaceous-red; hinder thighs with a single tooth. (L. 1½-2½ l.) On furze and broom: Darenth Wood; Cambridge; Cumberland; Bristol; S. Wales: 6.

2. *Thorax* unarmed; transverse.

2089 affinis *Ste. M.* iv. 214. — Ovate; black; thorax and elytra spotted with white, or whitish: base of the antennæ and the anterior legs, except the base of the thighs and tarsi, which are black, testaceous-red; hinder thighs obtusely dentate. (L. 1-1¼ l.) Broom: Darenth Wood: 6.

2090 Loti *Pk. F.* iii. 158. — *Ste. M.* iv. 214. — Ovate; black, with a griseous pile: elytra with a dense patch of griseous pile near the scutel; base of the antennæ and the anterior legs testaceous red; hinder thighs slightly toothed. (L. 1-1½ l.) On Lotus corniculatus: Hampstead; Bristol; Hertford: 6.

2091 Lathyri *Kirby* — *Ste. M.* iv. 214. — Ovate; black, with a delicate griseous pile; elytra spotless; anterior legs and base of the antennæ testaceous-red. (L. 1-1¼.) On Lathyrus pratensis: London district; Suffolk; Bristol: 6.

3. *Thorax* unarmed; conic.

2092 scutellaris *Fab. E.* ii. 399. — Br. rufus *De Geer.* v. pl. 16. f. 7. ♀? — Short, ovate; pitchy red; thorax with 2 united white tubercles at the base: scutel white; elytra somewhat remotely punctate-striate; obscurely spotted with dusky at the base, with 2 irregular whitish bars across the middle, and a more distinct white spot near the base of the suture; legs dull red; thighs sometimes black at base. (L. 1¼-1½ l.) On Heracleum sphondylium (fl.): Penge Wood: 7.

§ B. *Thighs* unarmed. 1. *Thorax* transverse.

2093 seminarius *L.* ii. 605. — *Oliv. E.* iv. 79. pl. 2. f. 12. — *Ste. M.* iv. 214. — Oblong ovate; black; somewhat variegated with a griseous pile: 4 back joints of the antennæ, and 4 anterior legs, testaceous red, their thighs, to beyond the middle, black. (L. 1½ l.) London district: Rare: 6:

2094 Cisti *Fab. E.* ii. 400. — *Pz. F.* lxvi. f. 12. — *Ste. M.* iv. 215. — Ovate; black, with a fine griseous pile; spotless: base of the antennæ dull red. (L. 1-1¼ l.) On Helianthemum, broom, &c. Coombe and Darenth woods; Bristol, &c.: 6.

2. *Thorax* conic.

2095 tibiellus *Schön. S.* (*Cur.*) i. 54. — Black; equally clothed with a fine ashy pile; thorax oblong, somewhat conic, narrow, finely punctured; elytra striated, striæ obscurely punctured; anterior tibiæ very obscure testaceous; antennæ long, 3 basal joints short, remainder broad, compressed, subserrate. (L. 1-1¼ l.) London district; Bristol: 6.

2096 canus *Germ. I. N.* i. 183. — Br. unicolor *Oliv. E.* iv. 79. pl. 2. f. 20. — Oblong-ovate; black; equally clothed with a delicate whitish-ash pile; thorax conic, finely granulated; elytra distinctly punctate-striate; antennæ with the 4th and following joints broad and serrate. (L. 1½ l.) Peas: London district: 6.

2097 debilis *Schön. S.* (*Cur.*) i. 53. — Black, with a very delicate ashy pile:

thorax longish, somewhat conic; elytra rather convex, punctate-striate; antennæ slender. (L. 1 l.) London district: 6.

427 BRACHYTARSUS *Schönherr.*

2098 scabrosus *Fab. E.* ii. 411. — *Pz. F.* xv. f. 15. — *Ste. M.* iv. 212. — Ovate; black; elytra red, punctate-striate; alternate interstices slightly raised, and tessellated with silken black and white spots, suture and outer margins brownish: — legs sometimes varied with red and black. (L. 1½-2¼ l.) Amongst elms: Copenhagen fields; Camberwell; Hertford; Ripley; Wood Ditton; Weston, Oxon; Swansea: 4-6.

2099 varius *Fab. E.* ii. 411. — *Pz. F.* xv. f. 16. — *Ste. M.* iv. 212. — Ovate; brown-black, opaque; thorax coarsely and thickly punctured, with several lines and 2 spots dull white; scutellum white; elytra punctate-striate, tessellated with alternate squarish spots of black dusky pile. (L. 1-2 l.) On firs: Ripley; common in the north and in Scotland: 5-6.

428 PHLOEÖBIUS *Schönherr.*

(2100 griseus *Fab. E.* ii. 410. ? — *Ste. M.* iv. 211. pl. xxi. f. 2. — Griseous-brown, clothed with griseous pile; elytra striate, striæ with minute punctures, interstices with pale griseous spots; legs anteriorly and base of antennæ dull red. (L. 2-3 l.) Rare: London; Suffolk; and Devon: probably imported: 6.)

429 TROPIDERES *Schönherr.*

2101 albirostris *Fab. E.* ii. 408. — *Pz. F.* xv. f. 13. — *Ste. M.* iv. 210. — Brown-black; rostrum longish, white; eyes approximating: thorax with a straightish ridge at the base, and 4 dorsal foveæ; elytra with a lobate whitish spot at the base, and a large snowy patch at the tip, varied with black, and some velvety black tufts near the suture; legs with whitish rings. (L. 3 l.) Palings, near Norwich: 6.

2102 niveirostris *Oliv. E.* iv. 80. pl. 1. f. 8. — *Ste. M.* iv. 210. — Brown-black; rostrum very short, snow-white: thorax black, a spot at base, and the scutellum white: elytra punctate-striate, alternate interstices tessellated with black and white; apex spotless white; legs variegated with whitish; tibiæ and tarsi reddish; antennæ dull red. (L. 2-2½ l.) Hedges; Coombe Wood, on hazel; New Forest; Darenth; Shirley Common; Norfolk: 6.

430 PLATYRHINUS *Clairville.*

2103 latirostris *Bons. Cu.* ii. f. 3. — *Ste. M.* iv. 209. — *Cur.* xvi. pl. 723. — Oblong; flattish; black; rostrum rough, ashy-white, with the tip black; thorax angulated, with a ridge across the base, wrinkled; elytra with interrupted punctate striæ, the tip clothed with ashy-pile, with 2 black dots and some brownish streaks; legs variegated with ashy. (L. 5-7 l.) In Sphæria fraxinea: chiefly in the west of England and S. Wales; Norfolk; rare in London district: 4-6.

431 ANTHRIBUS *Fabricius.*

2104 albinus *L.* ii. 616. — *Ste. M.* iv. 208. — *Cur.* xvi. pl. 726. — Convex; brown-black; forehead, rostrum, a lobed spot on the disc of the elytra, and the apex, clothed with white pile; base of the 8th and 9th joints of the antennæ snowy; thorax with 3 tubercles; elytra with convex black silken tufts on the disc; legs varied with whitish. (L. 3½-6 l.) Old trees and wood: Darenth Wood; Gravesend; Kensington Gardens; Eltham; Dorsetshire; Norfolk; Newcastle: 6.

§ 4. Stirps 2. LONGICORNES *Latreille.*

Fam. 51 PRIONIDÆ. *Eyes* notched: *labrum* very small or obsolete: *head* not narrowed behind into a neck: *mand.* large, robust: *tho.* transverse, mostly toothed on the sides: *body* elongate, convex: *ant.* moderate, stout, serrated in ♂.

Fam. 52 CERAMBYCIDÆ. *Eyes* notched: *labrum* exserted, transverse: *head* exserted, nutant: *tho.* somewhat cylindric, the lateral margin sometimes spined: *body* long and flattish, occasionally rather convex: *ant.* very long, never serrated.

Fam. 53 LEPTURIDÆ. *Eyes* entire, rounded, or very slightly notched: *labrum* exserted, transverse: *head* nutant, with a distinct neck: *tho.* somewhat conical, narrowed in front, sometimes with a lateral spine: *elytra* narrowed behind: *ant.* moderate.

Fam. 51. PRIONIDÆ *Leach.*

ccccxxxii. SPONDYLIS *Tho.* somewhat globose; sides entire: *ant.* short, moniliform: *legs* short; *tibiæ* somewhat serrated: *elytra* smooth.

ccccxxxiii. PRIONUS *Tho.* with the lateral margins acutely spined: *ant.* serrated, especially in ♂: *legs* longish; *thighs* and *tibiæ* compressed, the latter smooth: *elytra* rough.

432 SPONDYLIS *Fabricius.*

2105 † buprestoides *Fab. E.* ii. 376. — *Pz. F.* xliv. f. 19. — *Ste. M.* iv. 226. — Black; spotless; very thickly and irregularly punctured; elytra each with 2 raised lines, which do not reach to the tip. (L. 7 l.) Windsor Forest: 8.

433 PRIONUS *Geoffroy.*

2106 coriarius *L.* ii. 622. — *Don.* xiv. pl. 491. — *Ste. M.* iv. 226. — Pitchy-black; rather chestnut beneath; thorax on each side with 3 acute spines: elytra roughly punctured, and with 3 very obscure raised lines. (L. ♂ 9-16 l.: ♀ 11-20 l.) Old trees: Coombe Wood Lane; Hertford; Broxbourne; Sevenoaks; Cambridge; Norwich; Netley; Epping; Colchester; Glamorganshire, &c.: 6.

Fam. 52. CERAMBYCIDÆ *Kirby.*

ccccxxxiv. CERAMBYX *Elytra* not shortened: *eyes* not divided: *body* convex: *tho.* transversely wrinkled; its sides with a spine: *middle tibiæ* simple: *ant.* not spined, very long.

ccccxxxv. AROMIA *Elytra* not shortened: *eyes* undivided: *body* flat: *tho.* tuberculated, and with a spine on each side; *tibiæ* compressed, simple: *ant.* glabrous, rather elongate.

(ccccxxxvi. PURPURICENUS *Elytra* not shortened: apex slightly truncate, the angles a little prominent: *eyes* undivided: *body* flattish: *tho.* cylindric, with 1 lateral tubercle: *middle tibiæ* simple: *ant.* glabrous, elongate.)

ccccxxxvii. MONOCHAMUS *Elytra* not shortened: *eyes* undivided: *body* convex, elongate-cylindric: *tho.* with a lateral spine: *fore legs* long; *middle tibiæ* 1-toothed: *anter. tarsi* of ♂ hairy: *ant.* longer than the body, glabrous.

(ccccxxxviii. EBURIA *Elytra* not shortened, truncate at the tip, the angles prolonged into a spine; disc with raised spots, resembling ivory: *eyes* undivided: *body* convex: *tho.* cylindric; generally armed with 2 approximating dorsal spines or tubercles; sides 1-toothed: *tibiæ* simple: *ant.* velvety.)

(ccccxxxix. ELAPHIDION *Elytra* not shortened, linear, spinose at the tip:

eyes undivided: *body* slightly convex: *tho.* with disc tuberculated, sides unarmed: *middle tibiæ* simple: *ant.* moderate, joints spined at the tip.)

ccccxl. ASTYNOMUS *Elytra* not shortened: *eyes* undivided: *body* broad and flat: *tho.* transversely tubercled, the sides 1-spined: *middle tibiæ* 1-toothed: *ant.* very long, in ♂ especially.

ccccxli. POGONOCHERUS *Elytra* not shortened, variegated, spined at tip: *eyes* undivided: *body* short, slightly convex: *tho.* with disc tubercled, the sides spinose: *middle tibiæ* 1-toothed: *ant.* longer than the body, pilose beneath.

ccccxlii. LEIOPUS *Elytra* not shortened, variegated, entire at tip: *eyes* undivided: *body* short, rather convex: *tho.* with a short lateral spine: *thighs* clavate; *middle tibiæ* 1-toothed: *ant.* longer than the body, glabrous.

ccccxliii. LAMIA *Elytra* not shortened: *eyes* undivided: *body* convex, robust: *tho.* somewhat 4-drate, cylindric, the sides spined: *legs* robust, shortish, similar in the sexes; *middle tibiæ* 1-toothed: *ant.* shorter than the body, glabrous.

ccccxliv. MESOSA *Elytra* not shortened: *eyes* undivided: *body* broad, flattish: *tho.* transverse, unarmed: *middle tibiæ* simple: *ant.* slender, pilose within: *palpi* with terminal joint elongate, acute at tip.

(ccccxlv. TETRAOPES *Elytra* not shortened: *eyes* divided, forming 4: *body* broad, convex: *tho.* tubercled: *middle tibiæ* faintly notched near the tip: *ant.* rather short, robust, pilose, 2d joint nodose: *palpi* with terminal joint truncate.)

ccccxlvi. AGAPHANTIA *Elytra* not shortened: *eyes* undivided: *body* narrow, somewhat cylindric: *tho.* unarmed: *middle tibiæ* simple: *ant.* distinctly 2-jointed.

ccccxlvii. SAPERDA *Elytra* not shortened: *eyes* undivided: *body* linear, somewhat cylindric: *tho.* cylindric, unarmed: *thighs* not clavate: *tibiæ* simple: *ant.* 11-jointed: *palpi* with terminal joint elongate, acute at tip.

ccccxlviii. TETROPS *Elytra* not shortened: *eyes* divided, as if 4: *body* narrow, somewhat cylindric: *tho.* cylindric, unarmed: *thighs* and *tibiæ* simple: *ant.* 11-jointed, 2d joint elongate: *palpi* with terminal joint conic.

(ccccxlix. CYLINDERA *Elytra* not shortened, parallel: *eyes* undivided, prominent: *body* broad, flattish: *tho.* elongate, somewhat cylindric: *thighs* stout: *tibiæ* simple: *ant.* shortish: *head* as wide as *thorax*.)

cccl. ARHOPALUS *Elytra* not shortened: *eyes* undivided: *body* broad, slightly convex: *tho.* short, flattish: *thighs* short, clubbed, compressed: *tibiæ* simple: *ant.* setaceous, moderate: *palpi* with terminal joint 3-angular.

cccli. ASEMUM *Elytra* not shortened, rough, with raised lines: *eyes* not divided: *tho.* short, flattish; sides entire, unarmed: *body* broad, linear, elongate: *thighs* short, slightly clavate and compressed: *tibiæ* simple: *palpi* with terminal joint cylindric-conic: *ant.* very short, joints elongate-conic.

ccclii. HYLOTRUPES *Elytra* not shortened: *eyes* undivided: *body* broad, flattish: *tho.* short, villose, with 2 distinct tubercles, the sides rounded, entire: *thighs* slightly clavate: *tibiæ* simple: *ant.* longish, slender: ♀ with an exserted ovipositor.

ccccliii. CALLIDIUM *Elytra* not shortened: *eyes* undivided: *body* broad, flattish: *tho.* short, flat, rounded on the sides, unarmed: *thighs* elongate, suddenly clavate, compressed: *palpi* with terminal joint trigonate: *ant.* moderate, setaceous: ♀ with ovipositor concealed.

(ccccliv. CURTOMERUS *Elytra* not shortened: *eyes* undivided: *body* broad, flattish: *tho.* slightly convex, a little elongate, unarmed: *thighs* long,

suddenly and greatly clavate: *ant.* elongate, densely fringed within from base to apex.)

(ccccxlv. Penichroa *Elytra* not shortened: *eyes* undivided: *body* rather elongate, flat: *tho.* with the sides obtusely angulated, the apex narrower than the head, disc flat: *thighs* long, stout, barely clavate: *ant.* long, slender, pilose.)

ccccxlvi. Gracilia *Elytra* not shortened: *eyes* undivided: *body* narrow, linear; *tho.* unarmed, flat: *thighs* slightly clavate: *ant.* glabrous, 11-jointed: *max. palpi* longer than the *labial;* terminal joint linear, slightly compressed, of *labial* short: *head* inclined downwards.

ccccxlvii. Obrium *Elytra* not shortened: *eyes* undivided: *body* short, linear, pubescent: *tho.* with an obtuse lateral tubercle: *thighs* suddenly clavate; *tibiæ* not compressed: *palpi* with terminal joint elongate, cylindric: *ant.* pubescent.

(ccccxlviii. Tritomacrus *Elytra* not shortened, narrowed behind: *eyes* undivided: *body* slender: *tho.* long, flat, wider than the head, unarmed: *thighs* slightly thickened: *ant.* longer than the body, 3d joint very long.)

ccccxlix. Clytus *Elytra* not shortened, gaping: *eyes* undivided: *body* somewhat cylindric: *tho.* globose, unarmed, truncate at base and at apex: *thighs* elongate, slightly clavate: *ant.* setaceous, unarmed.

(ccccl. Stenopterus *Elytra* nearly as long as the abdomen, suddenly attenuated, and not covering the wings: *eyes* small, not divided: *tho.* somewhat globose: *head* a little produced in front: *thighs* slightly clavate: *tibiæ* rather bent: *ant.* filiform, joints cylindric.)

ccccli. Necydalis *Elytra* very short, rounded, and gaping at the tip: *wings* expanded: *eyes* not divided: *tho.* tubercled; sides unarmed: *body* elongate: *legs* long; thighs very much clavate; 4 posterior *tarsi* elongate: *ant.* filiform, slightly pubescent.

434 Cerambyx *Linn.*

(2107 ‡ Heros, *Fab. E.* ii. 270. — *Pz. F.* lxxxii. f. 1. — *Ste. M.* iv. 228. — Oblong, narrowed behind; black; elytra with the apex pitchy, and with a minute spine at the inner angle. (L. 1 in. 6-8 l.) Said to occur in Devonshire and at Colney Hatch: Portsmouth Dock-yard, among foreign timber: 6.)

2108 ‡ Cerdo *Fab. E.* ii. 270. — *Pz. F.* lxxxii. f. 2. — *Ste. M.* iv. 229. — Oblong; black: elytra very rough, especially at the base, the apex scarcely narrowed, and unarmed. (L. 1 in. 4-6 l.) On willows: Deptford and Isle of Ely: 6.

435 Aromia *Serville.*

2109 Moschata *L.* ii. 627. — *Ste. M.* iv. 229. — *Cur.* xvi. pl. 738. — Shining green, coppery, or bluish; glabrous: head slightly punctured; thorax irregularly tuberculated; elytra thickly roughened, especially at the base; with 3 faint varied hairs; legs and antennæ bluish. (L. 1 in. 1-7 l.) On willows: Battersea fields; Lewisham; Hackney; Hertford; Devonshire; Ely; Yorkshire; Keswick; S. Wales, &c.: 7.

(436 Purpuricenus *Zeigler.*)

(2110 † Kœhleri *L.* ii. 631. ? — *Oliv. E.* iv. 67. pl. 3. f. 13. ? — Black; elytra blood-red, with a black spot on the back. (L. 1 in. 3-5 l.) Said to occur near London: 6.)

437 Monochamus *Megerle.*

2111 Sutor *L.* ii. 628. — *Don.* xiii. pl. 435. f. 1. — *Ste. M.* iv. 230. — Black; with pale scattered pubescent spots above; scutellum densely

clothed with yellowish pile, having a naked central line; elytra coarsely punctured throughout, and with 2 or 3 slightly raised lines. (L. 10-15 l.) Rare: on trunks of trees: Colney Hatch; Norfolk: 6.

2112 † Sartor *Fab. E.* ii. 294. — *Cur.* v. pl. 219. — *Ste. M.* iv. 231. — Black, with remote pale pubescent spots; scutellum wholly clothed with yellowish pile; elytra of a brassy tint, coarsely punctate at the base, faintly punctulate at the apex. (L. 1 in. 4-5 l.) Old trees, near London; Weybridge, Surrey; Devonshire; Norfolk: 5-6.

(2113 dentator *Fab. E.* ii. 294. — *Ent. Tr.* (*Haw.*) i. pl. 1. fig. sup. — *Ste. M.* iv. 231. note. — Varied with fuscous and ash-colour: antennæ very long, dull, and with the base black. (L. 1 in. 4 l.) Old wood; in and near London: doubtless imported, being a N. American insect: 6.)

438 EBURIA *Serville.*

(2114 ‡ 4-maculata *Fab. E.* ii. 308. — *Oliv. E.* iv. 67. pl. 21. f. 164. — *Ste. M.* iv. 233. note. — Glabrous; pale testaceous-yellow; thorax with 2 black tubercles: elytra with 2 faint raised lines, arising from a glossy yellow double spot at the base, and passing through a 2d on the disc. (L. 11 l.) Found in Essex: imported from America?)

439 ELAPHIDION *Serville.*

(2115 spinicorne *Fab. E.* ii. 306. — *Oliv. E.* iv. 67. pl. 17. f. 130. — *Ste. M.* iv. 232. note. — Ashy, densely pilose, with elevated glabrous rusty-brown points; thorax with a central ridge and 3 tubercles on each side; glabrous and shining; elytra with glossy raised spots, the tip 2-dentate; legs and antennæ dull red. (L. 10-11 l.) In timber; from S. America? Bermondsey: 6.)

(2116 † litteratum *Don.* xvi. pl. 546. — *Ste. M.* iv. 233. note. — Ashy; base of wing-cases with raised black dots; outer margin brown, with 2 confluent spots; the hinder one branching into a letterform band. (L. 11? l.) Taken near Manchester: imported from America?)

440 ASTYNOMUS *De Jean.*

2117 Ædilis *L.* ii. 608. — *Don.* ii. pl. 72. — *Ste. M.* iv. 232. — Brownish-ash, with a dense griseous pubescence: thorax with 4 pilose, yellowish tubercles; elytra with 2 oblique brown bands: antennæ in ♂ 5 times, and in ♀ twice, as long as the body. (L. 8-10 l., excl. ant.) Rare: in timber, &c.: generally distributed; most frequent in Scotland: 6-7.

441 POGONOCHERUS *Megerle.*

2118 pilosus *Fab. E.* ii. 278. — *Ste. M.* iv. 233. — Ce. hispidus *Wood.* i. pl. 16. — Dusky-brown, pubescent; thorax with acute lateral spines: elytra with a dirty-whitish streak at the base, some black marks near the suture, and a single spine at the apex. (L. 2½-4 l.) Hedges: Coombe and Darenth woods; Yorkshire; Keswick: 6.

2119 hispidus *L.* ii. 627. — *Don.* ii. pl. 64. f. 2, 3. — *Ste. M.* iv. 234. — Fuscous-brown; pubescent, variegated; thorax with short obtuse lateral spines: elytra with a broad ashy-white band at the base, and some black fascicles of hair near the apex, which is 2-dentate; legs varied with ashy; antennæ with base of joints whitish-ash; apex black. (L. 2-3½ l.) Whitethorn hedges: generally distributed: 5-7.

2120 fasciculatus *Fab. E.* ii. 277. — *Ste. M.* iv. 234. — C. fascicularis *Pz. F.* xiv. f. 15. — Fuscous-brown; pubescent; variegated; thorax with small lateral spines: elytra with the tip obtuse, not toothed; the base with a curved whitish band, the disc with 4 or 5 raised black patches of hair:

legs and antennæ varied with black and dull red; the latter hairy. (L. 3½ l.) On paling; near Norwich: 6.

442 Leiopus *Serville.*

2121 nebulosus *L.* ii. 627. — *Don.* xi. pl. 394. — *Ste. M.* iv. 235. — Dull-black, with an ashy pile: elytra griseous, the base and apex sprinkled with black dots, leaving a pale band before the middle: antennæ with the base of each joint rusty-ash, the apex black. (L. 2¾-4½ l.) Old hedges: generally distributed: 5-6.

443 Lamia *of Authors.*

2122 textor *Fab. E.* ii. 285. — *Samou.* pl. 2. f. 24. — *Ste. M.* iv. 235. — Opaque black; disc of thorax thickly variegated; sides with a sharp spine: elytra coarsely granulated. (L. 6-15 l.) Old decaying willows: Hants; Bath; Bristol: 6.

444 Mesosa *Megerle.*

2123 nubila *Oliv. E.* iv. 67. pl. 3. f. 15. — *Ste. M.* iv. 236. — Varied with black and dull red; thorax dull red, with black streaks; elytra punctate, varied with brown shades, and a large ashy patch on the middle of the outer edge; legs and antennæ dull red, ringed with black. Old oaks: Coombe Wood; Windsor; New Forest; Bewdley Forest: 6.

(445 Tetraopes *Dalman.*)

(2124 tornator *Fab. E.* ii. 301. — *Oliv. E.* iv. 68. pl. 8. f. 52. — *Ste. M.* iv. 237. note. — Dusky-ash: head and thorax red, the latter with 4 black spots: elytra red, with a small spot at the shoulders, and 2 larger ones on the back, ashy-black; scutellum and legs black; base of anterior and posterior thighs red; antennæ fuscous. (L 6½ l.) Occasionally found in England; but a native of N. America.)

446 Agaphantia *Serville.*

2125 Cardui *Fab. E.* ii. 325. — *Ste. M.* iv. 238. — Ce. lineatocollis *Don.* vi. pl. 209. — Brown-black; clothed with a yellowish down; thorax with 3 yellow longitudinal lines; head with 1, continuous with the central one on the thorax; elytra irregularly sprinkled with yellowish downy spots; scutellum yellow; antennæ with alternate griseous and black rings. (L. 5-8 l.) On thistles: Whittlesea Fens; Monks' Wood, Hunts; Norfolk; Weston, Oxon: 6-7.

447 Saperda *Fabricius.*

§ A. *Elytra* entire. 1. *Elytra* narrowed towards the apex.

2126 carcharias *L.* ii. 631. — *Pz. F.* lxix. f. 1. — *Ste. M.* iv. 238. — Dusky-black; densely clothed above with a griseous, and beneath with a yellowish, pubescence; and dotted throughout with black: elytra slightly narrowed towards the tip; antennæ griseous, annulated with black. (L. 10-15 l.) On poplars: vicinity of Cambridge; Forest of Dean: 6-8.

2. *Elytra* not attenuated; with discolorous markings.

2127† Tremulæ *Fab. E.* ii. 327? — *Ste. M.* iv. 239. — Sa. Atkinsoni *Cur.* vi. pl. 275. — Black, clothed throughout with a short ochreous pubescence, tinted with green; elytra with 2 black dots at the middle near the suture, and 2 others more apart, towards the apex. (L. 5 l.) Locality not stated.

2128 scalaris *L.* ii. 632. — *Don.* xi. pl. 393. — *Ste. M.* iv. 239. — Black, pilose; slightly shining; yellowish beneath: sides of thorax with a yel-

lowish pile, in which is a brown dot; elytra with a toothed yellowish line on the suture, and 5 or 6 spots of the same within the outer margin. (L. 8-11 l.) On poplars: near Cockermouth and Manchester, not uncommon; Raehills; London, rare: 6-7.

2129 populnea *L.* ii. 632. — *Mart. C.* pl. 24. f. 8. 9. — *Ste. M.* iv. 239. — Black, villose; deeply and roughly punctured: thorax with 3 yellowish lines; elytra irregularly clothed with yellowish pile, and with 4 or 5 large patches of the same on the disc; antennæ with ashy rings. (L. 5-7 l.) Willows, aspen, and hazel: Darenth Wood; Highgate; Epping; Monks' Wood; Whittlesea Mere: 6.

3. *Elytra* not attenuated; without discolorous markings: — STENOSTOLA *De Jean.*

2130 ferrea *Schr. F. A.* 145. — *Ste. M.* iv. 239. pl. xxii. f. 1. — Black; with a pale griseous down: thorax with a whitish streak on the sides; elytra coarsely punctured, steel-blue, or greenish; scutellum griseous; antennæ with faint griseous rings. (L. 4-7 l.) On Tilia parvifolia: Nottinghamshire; Lancashire; Warwick: 6.

§ B. *Elytra* truncate in a straight line at tip: — PHYTŒCIA *De Jean.*

2131 cylindrica *L.* ii. 633. — *Pz. F.* lxix. f. 4. — *Ste. M.* iv. 240. — Black, very finely punctured: thorax with a central line, and the scutellum with a whitish pile; elytra, each with 2 short ridges; anterior legs luteous, with the base of the thighs black. (L. 4-5 l.) On hazel: Copenhagen fields; Dulwich; Ripley; Hertford; Cambridge; Whittlesea Mere, &c.: 6.

§ C. *Elytra* truncate in a curve at the tip: — OBEREA *Megerle.*

(2132‡ linearis *Fab. E.* ii. 320. — *Pz. F.* lxix. f. 7. — *Ste. M.* iv. 240. note. — Linear-elongate, narrow; black: palpi and legs entirely pale luteous; disc of elytra coarsely punctate-striate. (L. 5 l.) Improperly introduced as British.)

2133 oculata *L.* ii. 633. — *Don.* v. pl. 305. — *Ste. M.* iv. 241. — Linear-elongate, narrow: testaceous-yellow: head, antennæ, elytra, and 2 dots on the disc of thorax, black: elytra regularly and coarsely punctured. (L. 8-10 l.) Willows? — Isle of Ely; near Carlisle; and in Scotland: 6-7.

2134 pupillata *Schneider.* — *Schön. S.* iii. *App.* 185. — Linear: testaceous-yellow: head, 3 dots on the base of the thorax, and 2 others on the sides, middle of the abdomen beneath, and elytra, black; the latter with an irregular elongate yellow patch near the scutellum, which is transverse and pale testaceous. (L. 5 l.) West of England: 6.

448 TETROPS *Kirby.*

2135 præusta *L.* ii. 641. — *Mart. C.* pl. 28. f. 12. — *Ste. M.* iv. 242. — Black; villose: eyes brownish: elytra pale testaceous, punctured, apex more or less tinted with black, rarely spotless; legs testaceous; the 4 hinder thighs generally black. (L. $1\frac{3}{4}$-$2\frac{1}{2}$ l.) Whitethorne hedges and flowers: London district; Cambridgeshire; Newcastle; Monk's Wood; Weston, Oxon: 6.

(449 CYLINDERA *Newman.*)

(2136 pallida *Ent. M.* (*Newm.*) i. 510. — *Ste. M.* v. 422. — Pale brown; eyes dark: thorax and elytra slightly rugose; the former with an indented ring near the anterior, and another near the posterior, margin. (L. 4 l.) In timber: Battle Bridge and Camberwell: 6. Imported?)

(450 Aropalus *Serville.*)

(2137‡ rusticus *L.* ii. 634. — *Pz. F.* lxx. f. 8. — *Ste. M.* iv. 246. note. — Elongate; dull testaceous-brown: elytra paler, with 2 longitudinal ridges, and a 3d short one on the shoulders; thorax with 3 foveæ placed 3-angularly. (L. 8-10 l.) Not truly indigenous.)

(2138‡ fulminans *Fab. E.* ii. 346. — *Sower. B. M.* i. pl. 58. — *Ste. M.* iv. 245. note. — Black: thorax ashy, with 3 black spots, the discal one largest; margin of scutellum ashy: elytra with angulated waved white bands; antennæ ashy. (L. 6-7 l.) In a garden at Kensington; introduced with North American timber?)

451 Asemum *Eschscholtz.*

2139 striatum *L.* ii. 635. — *Cur.* vii. pl. 295. — *Ste. M.* iv. 246. — Elongate; convex; dull black, opaque; very finely punctured: elytra with about 6 raised lines alternating in height; interstices rough; tarsi pitchy; antennæ dusky-black. (L. 7-9 l.) Old trees: Edinburgh; Kinnordy; Glasgow, &c.: 7-8.

452 Hylotrupes *Serville.*

2140 Bajulus *L.* ii. 636. — *Mart. C.* pl. 24. f. 1-5. — *Ste. M.* iv. 246. — Pitchy-brown, pubescent: thorax villose, black, with 2 glabrous dorsal tubercles; elytra finely shagreened, with a waved whitish patch of hairs near the middle; antennæ dull rusty-pitchy: — elytra sometimes wholly pale, or testaceous. (L. 4-10 l.) Old posts, rails, &c., near London; Hertford; Epping; Frostenden Hall, Suffolk.

453 Callidium *Fabricius.*

§ A. *Elytra* punctate; without distinct raised lines.

(2141† dilatatum *Pk. F.* iii. 91. — *Ste. M.* iv. 246. note. — Cal. variabile *Pz. F.* lxx. f. 6. — Broad; flat; above greenish, brass, or coppery: thorax finely coriaceous; elytra coarsely reticulated, rugose; broadest behind, and brassy; legs and antennæ brown. (L. 5 l.) Improperly indicated as British.)

2142 sanguineum *L.* ii. 636. — *Don.* xvi. pl. 553. f. 1. — *Ste. M.* iv. 247. — Broad, flat; black: thorax, elytra, and tip of the abdomen bright blood-red; tibiæ and tarsi pitchy; antennæ pitchy-black. (L. 3-6 l.) Old timber: Exeter; North Wales; London.

2143 violaceum *L.* ii. 635. — *Don.* ii. pl. 64. f. 1. — *Ste. M.* iv. 247. — Broad, flat: violet or purple; sometimes greenish or brassy: thorax rather narrowed behind; elytra coarsely punctured: abdomen pitchy-black; legs bluish. (L. 4-9 l.) Old fir posts, &c.: Roehampton; Wanstead; Epping; Lowestoft; Norfolk; Manchester: 6-7.

2144 variabile *L. F.* No. 669. — *Ste. M.* iv. 248. — Ca. fennicum *Pz. F.* lxx. f. 2. — Linear-elongate; rusty-red, or testaceous; slightly pubescent: thorax faintly tuberculated, sometimes with a black spot; elytra finely punctured, violet, lateral margin sometimes dull red, or the surface wholly testaceous; antennæ as long as the body: crown, breast, base of abdomen, and club of thighs sometimes black. (L. 4-8 l.) Old trees: South Lambeth; Hertford; Ripley; Windsor; Epping; Weston, Oxon; New Forest: 6-7.

2145 russicum *Fab. E.* ii. 336. — *Ste. M.* iv. 248. pl. xxii. f. 2. — Linear-elongate; black; slightly pubescent: thorax rounded, tubercled; elytra rather thickly punctured, base pale testaceous-yellow, apex black, with a violet tinge, and, on the yellow base, a round patch of the same; tarsi pale testaceous; labrum luteous. (L. 4½ l.) Near Bideford, Devon: 6.

(2146† undatum *L.* ii. 536. — *Pz. F.* lxx. f. 15. — *Ste. M.* iv. 249. note. — Rather long, narrow; black with pale hairs; thorax slightly tuberculated; elytra with 2 waved bands and the outer margin whitish-yellow; antennæ short. (L. 3½ l.) Indicated erroneously as British.)

2147 Alni *L.* ii. 338. — *Mart. C.* pl. 28. f. 14. — *Ste. M.* iv. 249. — Short; black; finely punctured, shining: mouth pitchy; elytra red at the base, each with a white crescent a little behind the red base, and a 2nd broader and straighter towards the apex; thighs pitchy, club black; tibiæ, tarsi, and antennæ dull red: — base of elytra sometimes black. (L. 2-4 l.) Dry hurdles, &c., in woods: Coombe and Darenth woods: Hertford; Epping; Monk's Wood; Gibside; Rose Castle, Cumberland; Forest Hill, Oxon: 5-7.

§ B. *Elytra* with distinct raised lines: — Isarthron *De Jean.*

(2148† luridum *Fab. E.* ii. 342. — *Pz. F.* lxx. f. 10. — *Ste. M.* iv. 248. note. — Short, flattish, finely punctured: thorax glossy black, with a faint dorsal channel, and an obscure reddish lateral line; elytra opaque, with a raised line, frequently livid testaceous, or fuscous, sometimes black; legs pitchy, or occasionally rusty-red. (L. 5 l.) Erroneously indicated as British.)

(454 Curtomerus *Stephens.*)

(2149 luteus *Marsham.* — *Ste. M.* iv. 249. — Ca. pilicorne *Fab. E.* ii. 341.? — Testaceous-red: tomentose: eyes black; elytra very thickly punctured: legs rather paler; antennæ longer than the body. (L. 6 l.) West India docks, evidently imported: 6.)

(455 Penichroa *Stephens.*)

(2150 fasciata *Wilkin.* — *Ste. M.* iv. 250. — Fuscous-brown; finely punctate throughout; legs and antennæ paler: elytra with an indistinct palish band, a little behind the middle; head with a short frontal channel. (L. 7-9 l.) Norwich, in plenty once: doubtless imported.)

456 Gracilia *Serville.*

2151 minuta *Fab. M.* i. 150. — *Don.* xvi. pl. 553. f. 2. — *Ste. M.* iv. 250. — Red-brown; legs paler: eyes black: elytra with an angular ridge in the middle: abdomen shining black beneath: antennæ testaceous; short in the ♀, in which sex the thorax is also short. (L. 2½-3 l.) Elms; hazel twigs, &c.: London; Ripley; Dulwich; Brompton; Epping; Cambridge; Bristol: 5-6.

457 Obrium *Megerle.*

2152 cantharinum *L.* ii. 637. — *Cur.* ii. pl. 91. ♂. ♀. — *Ste. M.* iv. 251. — Rusty-red, shining, pilose; elytra irregularly punctured; eyes black; legs brown, or black; antennæ brown, or black. (L. 3-6 l.) On trees: Epping; Laytonstone; Broxbourne; Brighton, &c.: 6.

(458 Tritomacrus *Newman.*)

(2153† testaceus *Ent. M.* (*Newm.*) i. 510. — *Ste. M.* v. 423. — Testaceous; eyes a little darker: antennæ much longer than the body, pubescent, and tapering gradually to a point. (L. 5 l. ant. 8 l.) Near Cork, in Ireland: 6.?)

459 Clytus *Fabricius.*

2154 mysticus *L.* ii. 639. — *Don.* iii. pl. 82. f. 2. — *Ste. M.* iv. 242. — Linear elongate; black: elytra red at the base, then black; the apex and 2 or 3 more or less curved approximating stripes of ashy-white pile; tarsi pitchy: — base of the elytra rarely black. (L. 3-6 l.) Old posts, &c.: London district; Bottisham; Yorkshire: 5-7.

2155 Arietis *L.* ii. 640. — *Don.* i. pl. 27. — *Ste. M.* iv. 243. — Obscure black; anterior and posterior edges of thorax yellow; elytra with 3 bands, the 2d bent anteriorly, and the apex, as also the scutellum, yellow; legs and antennæ dull red: — thighs sometimes pitchy or black; and the bands on the elytra slightly variable. (L. 2½-6½ l.) Old posts, rails, &c.; generally distributed in England and South of Scotland: 4-7.

2156 arcuatus *L.* ii. 640. — *Don.* iii. pl. 84. f. 1. — *Ste. M.* iv. 243. — Obscure black; with a band on the head, an interrupted (and sometimes nearly obsolete) one on the thorax; 4 dots and a shoulder stripe on the elytra, and also 3 recurved bands and an oblique line at the apex, bright yellow; legs and antennæ rusty-red, thighs generally stained with black in the middle. (L. 6-10 l.) Local; on old posts, &c.: Hertford; Epping; Hainault Forest; Chisselhurst; Suffolk; Newcastle; Baronwood, Cumberland: 6.

(2157 ‡ detritus *L.* ii. 640. — *Pz. F.* xciv. f. 5. — *Ste. M.* iv. 244. — Black; an obscure band on the head, 2 distinct ones on the thorax, 5 nearly straight ones, the 2 first of which are remote and interrupted, yellow; legs and antennæ rusty red. (L. 7 l.) Indicated as British erroneously.)

2158 ‡ 4-punctatus *Fab. E.* ii. 352. — *Cur.* v. pl. 199. — *Ste. M.* iv. 244. — Black, with a dense yellowish pubescence above, and ashy beneath: elytra each with 4 black spots, placed longitudinally. (L. 5 l.) Found in a window in Norwich: 6.

(2159 villicus *Oliv. E.* iv. 70. pl. 8. f. 94.? — Cl. upsilon *Marsham.* — *Ste. M.* iv. 244. — Brownish-black; thorax rough: tip of scutellum yellowish; elytra with a broad recurved band at the base, a straight broader, indented one behind the middle, and the apex reddish-white; margins of the abdominal segments, and a round spot at its base, yellowish-white; legs and antennæ pitchy. (L. 6 l.) Found near Norwood, but probably imported in N. American timber: 6.)

(2160 † plebeius *Fab. E.* ii. 349. — *Pz. F.* lxxxiii. f. 7. — *Ste. M.* iv. 243. note. — Black; obscure: elytra with a humeral spot, a bent band reaching to the scutellum, another behind, and the apex, as also 2 dots on the sides of the breast, and the edges of the abdominal segments, dotted with whitish pile. (L. 5 l.) Apparently introduced as British improperly.)

(2161 † erythrocephalus *Fab. E.* ii. 350. — *Oliv. E.* iv. 70. pl. 5. f. 60. — *Ste. M.* iv. 245. note. — Head, thorax, and antennæ dull red; elytra black, with 4 straight yellow lines; tip 2-toothed; legs dull red; thorax with several acute dorsal tubercules. (L. 6 l. ?) Old timber: Epping Forest, 6.; doubtless introduced from N. America.)

(460 Stenopterus *Illiger.*)

(2162 ‡ rufus *L.* ii. 642. — *Oliv. E.* iv. 74. pl. 1. f. 6. — *Ste. M.* iv. 252. note. — Black; slightly pubescent: elytra and antennæ red; sides of the breast and of the abdomen with silky, yellowish-white spots. (L. 3-5½ l.) Indicated as indigenous erroneously.)

461 Necydalis *Linné.*

(2163 † major *L.* ii. 641. — *Ste. M.* iv. 252. note. — Mo. abbreviatus *Pz. F.* xli. f. 20. — Black; pubescent; elytra dull-red, spotless; mouth, base of the antennæ, and legs rusty-red; tips of the hinder thighs black. (L. 8½ l.) Erroneously indicated as British.)

2164 minor *L.* ii. 641. — *Cur.* i. pl. 11. — *Ste. M.* iv. 252. — Black; pubescent; elytra testaceous, with an oblique white streak; margin of the abdominal segments with a whitish line on each side; legs testaceous-brown; thighs abruptly clavate; antennæ dull pitchy-red. (L. 3-5 l.) Hedges: Windsor; Hertford: 6.

2165 Umbellatarum *L.* ii. 641. — *Mart. C.* pl. 23. f. 2. — *Ste. M.* iv. 252. — Black; pubescent; elytra testaceous-brown, spotless: legs the same, with the thighs gradually clavate; antennæ dusky-brown. (L. 3-4½ l.) On flowers in hedges: Darenth Wood; Coombe: 6.

Fam. 53. LEPTURIDÆ *Leach.*

ccccclxii. RHAGIUM *Tho.* with an acute spine on each side: *body* broad, flat: *legs* and *ant.* short: *palpi* with terminal joint somewhat hatchet-shaped.

ccccclxiii. TOXOTUS *Tho.* with a tubercle on each side: *body* elongate, narrow; *elytra* attenuated towards the tip; humeral angles prominent: *legs* and *ant.* long: *palpi* with terminal joint enlarged, hatchet-shaped.

ccccclxiv. STRANGALIA *Tho.* unarmed, narrowed in front, flattish above: *body* very narrow, somewhat pointed behind: *head* produced in front: *eyes* globular: *elytra* cut out at the apex: — *hinder tibiæ* of ♂ bidentate.

ccccclxv. LEPTURA *Tho.* unarmed, slightly convex: *body* elongate; rather narrow: *eyes* moderate: *elytra* attenuated, apex slightly cut out.

ccccclxvi. GRAMMOPTERA *Tho.* unarmed, rather convex: *body* linear: *eyes* moderate: *elytra* not attenuated, the apex entire.

ccccclxvii. PACHYTA *Tho.* somewhat conical, with a slight obtuse tubercle on each side; disc slightly convex: *body* very robust, rather pubescent: *elytra* short, nearly parallel, or scarcely attenuated; humeral angles not prominent.

462 RHAGIUM *Fabricius.*

2166 Indigator *Fab. E.* ii. 313. — *Pz. F.* lxxxii. f. 5. — *Ste. M.* iv. 254. — Black, obsoletely punctured, and clothed with an ashy pubescence: anterior edge of thorax dull red; elytra dull testaceous, with 3 raised lines, the disc reticulated with black, and with 2 or 3 distinct oblique black bands; thighs and tibiæ dull ashy-testaceous; antennæ thickened in the middle. (L. 8-10 l.) Decayed trees: Shropshire and Scotland: 6-7.

2167 Inquisitor *L.* ii. 630. — *Pz. F.* lxxxii. f. 4. — *Ste. M.* iv. 254. — Black; thickly and rather coarsely punctured, clothed with yellowish pile: elytra with 2 raised lines, the disc with 2 approximating, irregular, transverse testaceous bands, with a glabrous black spot between them on the outer margin; antennæ setaceous. (L. 7-11 l.) Decayed trees: London district; generally distributed throughout the country: 4-7.

2168 bifasciatum *Fab. E.* ii. 314. — *Don.* iii. pl. 94. f. 1. — *Id.* x. pl. 253. f. 1. var. — *Id.* xi. pl. 395. f. 1. var. — *Ste. M.* iv. 254. — Black; shining: elytra fuscous, reddish exteriorly; disc with 2 raised lines and 2 short oblique testaceous-yellow bands; base of thighs and the antennæ (which are setaceous) red: — the elytra vary considerably, sometimes being testaceous-yellow, with a few black dashes, or almost wholly black, with a brassy tinge; the bands sometimes united into a large dorsal blotch, more or less shaded off into the ground-colour, or bordered with black, &c. (L. 8-10 l.) On decayed stumps of fir trees: generally distributed; abundant in the North: 4-8.

463 TOXOTUS *Megerle.*

(2169‡ Cursor *L.* ii. 630. — *Oliv. E.* iv. 69. pl. 1. f. 9. f. 10. (*Noctis*) ♂. — *Ste. M.* iv. 255. note. — Pubescent: thorax with acute lateral spines: elytra with 2 or 3 raised lines, the disc rough, the tip acuminated. ♂ black; mouth, and base of antennæ, dull red: ♀ black; mouth, antennæ, abdomen, and legs varied with dull red; elytra red, suture and a stripe black. (L. 8-9 l.) Indicated as British erroneously.)

2170 meridianus *L.* ii. 630. — *Don.* xiii. pl. 435. f. 2. — *Ste. M.* iv. 256. —

Finely punctured; clothed above with an ashy, and beneath with a silvery or golden, pubescence; colour various, generally black, with the mouth, base of the antennæ, elytra, greater portion of the legs, abdomen of ♂, and its apex in ♀, testaceous-red: —at times the suture and apex of the elytra are black; or the entire insect is black, except occasionally the mouth, base of antennæ, base of elytra, thighs, and tip of abdomen, being red: all intermediate changes occur. (L. 5-13 l.) On flowers and trunks, especially of ash-trees: generally distributed throughout the country: 5-7.

464 STRANGALIA *Serville.*

2171 elongata *De Geer*, v. 134. — *Don.* iii. pl. 84. f. 4. — *Ste. M.* iv. 257.— Black, with a fine griseous down: elytra yellow, with 4 black bands, the 1st composed usually of 3 or 4 round spots, the 2d interrupted towards the suture; 4 anterior legs yellow; apex of tibiæ and tarsi black; hinder pair black, tip of the thighs and of the tibiæ yellow; 2 basal joints of antennæ black, the rest yellow with black tips. ♂ with hinder tibiæ black and 2-dentate; ♀ with abdomen yellow at the base: the fasciæ on the elytra vary considerably. (L. 5-7½ l.) On umbelliferous flowers: generally distributed: 5-8.

2172 attenuata *L.* ii. 639. — *Oliv. E.* iv. 73. pl. 1. f. 8.— *Ste. M.* iv. 258.— Slender; black; slightly pubescent; elytra luteous, very much attenuated, with 4 broad black bands; abdomen reddish in the middle; legs testaceous, the tip of the hinder thighs and of their tibiæ black; apical joints of antennæ reddish. (L. 6½ l.) On flowers: Salisbury and Southend: 6.

465 LEPTURA *of Authors.*

§ A. *Elytra* with transverse bands: — STENURA p. *De Jean.*

2173 aurulenta *Fab. E.* ii. 364. — *Pz. F.* xc. f. 15. — *Ste. M.* iv. 259. — Deep black; thorax with a narrow band of golden yellow down in front and behind; elytra testaceous-yellow, with golden down, and 4 transverse bands, the 1st dull reddish, black at the suture, the others deep black: legs testaceous; thighs black at the base; antennæ testaceous-red; black in ♂. (L. 5-11 l.) Old stumps: New Forest; Briton-ferry, Swansea; N. coast of Devon: 6-7.

2174 4-fasciata *L.* ii. 639. — *Mart. C.* pl. 27. f. 9. — *Ste. M.* iv. 259. — Black, with a griseous pubescence: elytra bright testaceous-yellow, with 4 dentate black bands, the 1st and sometimes the 2d occasionally interrupted. (L. 7-10 l.)

Var. Le. apicata *Haworth.*— Le. apicalis *Cur.* viii. pl. 362. — *Ste. M.* iv. 260. — With the 3 or 4 terminal joints of the antennæ luteo-testaceous. On flowers: rather widely distributed; abundant at Darenth Wood: 6-7.

§ B. *Elytra* without transverse bands.

2175 revestita *L.* ii. 638. — *Mart. C.* pl. 27. f. 1. — *Ste. M.* iv. 258. — Rusty-red, slightly pubescent; antennæ, eyes, breast, scutellum and elytra black; tips of tibiæ and the tarsi dusky. ♀ with the elytra and base of the antennæ rusty-red. (L. 5-6 l.) Flowers, &c.: Coombe Wood; Windsor; Colney Hatch; Gamlingay, Cambridgeshire: 6.

(2176† rubrotestacea *Ill. M.* iv. 122. — *Ste. M.* iv. 258. note. — ♂ *Pz. F.* lxix. f. 12 ♀ *Id.* f. 11. — Black, with a griseous pile; tibiæ and tarsi testaceous. ♂ with the elytra pale testaceous, spotless; ♀ with the thorax above, and the elytra, red and spotless. (L. 6 l.) Improperly indicated as British.)

2177 virens *L.* ii. 638. — *Ste. M.* iv. 260. pl. xxii. f. 3. — Black; densely clothed throughout with a silken yellowish-green pubescence; densest

beneath: thorax with hinder angles obtuse; antennæ with the 2 basal joints black, the remainder luteous at the base, black at the tips. (L. 9 l.) Decayed trees: Forest of Dean: 6.

2178 scutellata *Fab. E.* ii. 359. — *Pz. F.* lxix. f. 15. — *Ste. M.* iv. 260. — Broad; black; slightly pubescent, thickly and coarsely punctured: scutellum densely clothed with yellow pile; apex of elytra less coarsely punctured. (L. 7-10 l.) Old trees: abundant in Hainault and New Forests; Epping: 6-7.

2179 tomentosa *Fab. E.* ii. 355. — *Oliv. E.* iv. 73. pl. 2. f. 13. — *Ste. M.* iv. 261. — Short, black; thickly, but finely, punctured; clothed with an ashy pile: elytra testaceous, with a black patch at the apex. (L. 5-6 l.) Old trees: New Forest, near Lyndhurst; Haslar; Ryde; Kingsbridge, Devon; Penllergare: 6-7.

2180 sanguinolenta *L.* ii. 638. — *Don.* xvi. pl. 557. — *Ste. M.* iv. 261. — Elongate; black, rather convex; thickly and distinctly punctured; clothed with a griseous pubescence; elytra livid, and with the tip black in the ♂; broader, red, and spotless, in the ♀; legs longish. (L. 5-6 l.) Old trees, &c.: in London; Bickham, Devon; Norfolk; Suffolk: 6-7.

2181 melanura *L.* ii. 637. — *Pz. F.* lxix. f. 19. ♀. — *Ste. M.* iv. 261. — Narrow; black; clothed with a griseous pile; finely and thickly punctured: thorax oblong, hinder angles acute; elytra of the ♂ livid, the suture slightly, and the apex black, of ♀ red, with the suture broadly, and apex black; legs rather long and slender. (L. 3-5 l.) Hedges and flowers: generally distributed: 5-9.

2182 nigra *L.* ii. 639. — *Mart. C.* pl. 27. f. 8. — *Ste. M.* iv. 262. — Narrow; black; rather glossy, and a little pubescent: thorax conic, obsoletely punctured; hinder angles acute; elytra finely punctured; abdomen bright red, the base sometimes, and the apex rarely, black; legs and antennæ long. (L. 4-5 l.) On flowers: Coombe Wood; Darenth; Chevening; Ripley; Norfolk; Suffolk; Devonshire; S. Wales, &c.: 6-7.

2183 sexguttata *Fab. E.* ii. 364. — *Pz. F.* lxix. f. 22. — *Ste. M.* iv. 262. — Linear-elongate, black, thickly puuctured and clothed with an ashy pubescence; elytra each with 3 luteous spots placed longitudinally; claws dull red: ♂ with the 2 hinder spots on the elytra united by a pale line, forming a reversed note of ? (L. 5-5½ l.) On flowers: Darenth Wood and New Forest: 6.

466 GRAMMOPTERA *Serville.*

2184 abdominalis *Ste. M.* iv. 262. — Linear-elongate; black, finely punctured, and with an ashy pubescence: thorax short, convex, hinder angles acute; abdomen with the apical segments black; legs black; base of all the thighs mostly red; antennæ wholly black. (L. 4-5 l.) Flowers: Darenth Wood; and Brockenhurst, New Forest: 6.

2185 lævis *Fab. E.* ii. 355. — *Pz. F.* xxxiv. f. 16. — *Ste. M.* iv. 263. — Linear-elongate; narrow; black; clothed with a pale pubescence: thorax oblong, convex, punctured; elytra livid, finely punctured, the suture a little stained, the apex dusky, or black; legs long, testaceous, tip of hinder thighs sometimes dusky. (L. 3½-4¼ l.) In hedges, &c.: common every where: 5-7.

2186 ruficornis *Fab. E.* ii. 360. — *Stur. V.* 1796. pl. 2. f. 9. — *Ste. M.* iv. 263. — Somewhat linear; black, thickly punctured; clothed with a griseous pubescence: mouth varied with testaceous; legs elongate, red; tips of the anterior and hinder thighs, knees of the middle legs, and tarsi black; 2 basal joints of antennæ red, the rest red, with their tips black. (L. 3-4 l.) Woods and hedges: very common, and generally distributed: 6-7.

2187 pallipes *Ste. M.* iv. 263. — Somewhat linear; blackish; finely punctured, and clothed with a griseous pile: mouth, legs, and antennæ pale testaceous-red; the latter long and slender. (L. 3½ l.) Near Dover, and in Norfolk: ? 6.

2188 præusta *Fab. E.* ii. 360. — *Pz. F.* xxxiv. f. 17. — *Ste. M.* iv. 264. — Somewhat linear; black; thickly clothed with a short, shining, golden down, excepting the head and the apex of the elytra, which are glabrous and black: mouth testaceous; legs testaceous, tarsi fuscous; antennæ fuscous, the basal joint testaceous. (L. 3-4 l.) Flowers: New Forest: 6-8.

(2189† atra *Fab. E.* ii. 359. — *Pz. F.* lxix. f. 14. — *Ste. M.* iv. 264. note. — Body wholly black; abdomen clothed with a dense shining white pubescence. (L. 4? l.) Erroneously stated to be indigenous.)

467 PACHYTA *Megerle.*

2190 livida *Fab. E.* ii. 355. — *Mart. C.* pl. 28. f. 13. — *Ste. M.* iv. 265. — Black; rather deeply punctured; clothed with an ashy pubescence: elytra pale testaceous, spotless; anterior tibiæ and tarsi pale dull red. (L. 3-4 l.) Flowery banks: Hertford; Ripley; Darenth; Frostenden, Suffolk; S. Wales; Devon: 6.

2191 collaris *L.* ii. 639. — *Mart. C.* pl. 27. f. 5. — *Ste. M.* iv. 265. — Black; with fuscous pubescence: thorax somewhat globose, bright red above; abdomen also red; elytra deep blue-black, shining; legs long. (L. 4-5 l.) On flowers: Shooter's Hill; Darenth, in plenty at times; Bexley; New Forest; Hertford; Devon: 6.

(2192† virginea *L.* ii. 639. — *Oliv. E.* iv. 73. pl. 2. f. 24. — *Ste. M.* iv. 265. note. — Black, above glabrous; thorax with a deep dorsal channel; elytra violet-blue, roughly punctured; abdomen dirty-red. (L. 6 l.) Improperly recorded as British.)

2193 8-maculata *Fab. E.* ii. 361. — *Ste. M.* iv. 266. — Le. 6-maculata *Don.* x. pl. 353. f. 2. — Black, clothed with a griseous pile; elytra pale testaceous, each with 4 black spots, placed 2 obliquely at the base, 1 in the middle of the margin, and the 4th at the apex, the 2 basal ones sometimes united, or divided into 3. (L. 4-6½ l.) Flowers: Colney Hatch Woods; New Forest; S. Wales; Devon; Gibside, Durham; Baron Wood, Cumberland: 6.

(2194‡ 6-maculata *L.* ii. 638. — *Oliv. E.* iv. 73. pl. 4. f. 43. — *Ste. M.* iv. 265. note. — Black; pubescent: thickly punctured: elytra testaceous-yellow, with the outer margin and 3 waved bands black. (L. 5-6 l.) Indicated improperly as British.)

2195 Lamed *L.* ii. 630. — *Don.* xi. pl. 395. f. 2. — *Ste. M.* iv. 266. note. v. 423. — Black; slightly glossy; clothed with griseous pubescence: elytra roughly punctate, livid, with an oblique black streak at the shoulder, and an elongate spot of the same colour near the apex. (L. 8 l.) Found near London; perhaps not truly indigenous.

§ 4. Stirps 3. EUPODA *Latreille.*

Fam. 54 CRIOCERIDÆ. *Body* generally elongate: *head* and *tho.* narrower than the *abdomen;* the former immersed, nearly to the eyes, in the *tho.*, which is usually cylindric or somewhat 4-drate: *ant.* filiform: *eyes* prominent: *hinder thighs* frequently elongate and clavate, sometimes toothed.

Fam. 54. CRIOCERIDÆ *Leach.*

ccccIxviii. DONACIA *Ant.* with the 4th and following joints elongated: *elytra* entire at the apex: *legs* moderate; *hinder thighs* generally elongate, and frequently toothed; *tarsi* short: *body* mostly of a metallic hue above.

ccccclxix. Macroplëa *Ant.* with the 4th and following joints elongated, 2d and 3d very short: *elytra* with a spine at the apex: *legs* slender, longish; *tibiæ* simple, hinder pair more or less flexuous; *tarsi* long.

ccccclxx. Orsodacna *Ant.* with short joints; terminal ones slightly thickened: *palpi* elongate, thickened at the tips: *head* exserted: *tho.* narrowed behind, not tubercled: *legs* longish, simple.

ccccclxxi. Crioceris *Ant.* with short joints, gradually increasing in length to the apex: *palpi* moderate, filiform: *tho.* immarginate, much narrower than the *elytra*, which together are somewhat 4-drate, and broad.

ccccclxxii. Zeugophora *Ant.* with short joints, the 5 apical ones shorter than the 3 preceding: *palpi* short, filiform, stout: *tho.* tuberculated on the sides, the base narrower than the *elytra*, which are rather oblong and rounded at the tip.

468 Donacia *Fabricius.*

§ A. *Hinder thighs* elongate, with 2 or 3 teeth beneath, in ♂.

2196 crassipes *Fab. E.* ii. 126. — *Ste. M.* iv. 268. — Le. aquatica *Don.* iii. pl. 31. ? — Broad, flat; above violet or greenish, beneath with silvery pile: disc of thorax smooth, with a short channel; elytra deeply punctate-striate, interstices smooth; hinder thighs very long, curved, 3-toothed in the ♂, 1-toothed in the ♀. (L. 4-5 l.) On the water lily: near Brentford; Kew; Tottenham; Windsor; N. of England: 6-8.

2197 cincta *Germ.* — *Kunzé, E. F.* 5. — *Ste. M.* iv. 268. — Le. aquatica *Mart. C.* pl. 28. f. 16, 17. — Rather convex; above brassy-green, tinted with violet; beneath with silken silvery pile; thorax with a short dorsal channel, the disc wrinkled; elytra deeply crenate-striate, interstices thickly rugose-punctate transversely; thighs thickened, violet brown, hinder pair moderately elongate, of ♂ with 2, of ♀ with 1, short tooth. (L. 3¼-4 l.) Aquatic plants: Ealing; Windsor; Wimbledon Common; Weston; Newcastle; Scotland: 6-8.

2198 dentata *Kunzé E. F.* 7. — *Hoppe,* 40. f. 2. — *Ste. M.* iv. 269. — Flattish; brassy, with a glossy pile beneath; head punctate; thorax wide, roughly punctured, and with a short channel behind; elytra flat, impressed towards the suture, the apex narrowed, obliquely truncate, and with a slight appendage; disc punctate-striate; interstices rough; legs reddish; hinder thighs 2-toothed; hinder tibiæ of ♂ with 4 or 5 minute denticulations near the tip within. (L. 3½-4½ l.) Water lily, &c.: Windsor; Hainault; Hertford; Epping; Salisbury; Cumberland: 6.

2199 angustata *Kunzé, E. F.* 8. — *Ste. M.* iv. 269. — Do. bidens *Oliv. E.* iv. 75. pl. 2. f. 12. ? — Flattish; narrow; brassy or coppery; head punctured; thorax 4-drate, roughly punctured, with a short channel in the middle of the disc; elytra slightly convex, with 4 depressions towards the suture, apex narrowed, sinuate-truncate, slightly appendiculated; disc moderately punctate-striate; legs reddish, thighs and tibiæ brownish above, hinder thighs 2-dentate. (L. 4-4½ l.) Aquatic plants: banks of Thames; Wandsworth Common: 6.

2200 melanocephala *Marsh.* i. 348. — *Ste. M.* iv. 270. — Slightly convex; brassy or greenish-copper; with a pale tawny pile beneath; head black; thorax with a deep short dorsal furrow; elytra finely punctate-striate, the apex slightly truncate; tip of suture with a coppery streak; thighs red, apex and tibiæ pitchy-black, hinder thighs obsoletely 2-toothed. (L. 3 l.) Aquatic plants: Fulham; Bristol: 6.

§ B. *Hinder thighs* shortish, with one tooth.

1. *Legs* concolorous with body.

2201 Lemnæ *Fab. E.* ii. 128. — *Ste. M.* iv. 270. — *Hoppe,* 40. f. 4. — Flat-

tish; brown brass; beneath ashy; thorax roughly punctured, with an obscure channel; elytra punctate-striate, with 4 irregular impressions on the disc, mostly with a short purple streak at the base, and a longer one on the outer margin; legs greenish black, hinder thighs slightly toothed. (L. 4-5 l.) Marshy places: London district; Burwell Fen, Cambridge; Duddingston Loch, Scotland: 6.

2202 dentipes *Fab. E.* ii. 127. — *Ste. M.* iv. 270. — Do. vittata *Hoppe*, 42. f. 3. — Flattish; with a yellowish pile beneath; thorax brassy; thickly wrinkled transversely; elytra with a depression at the base, which last is thickly punctured, the disc punctate-striate, glossy silken-green, with a broad coppery-scarlet stripe; legs brassy; hinder thighs with a longish tooth in ♂. (L. 4-5 l.) Aquatic plants; local: in Copenhagen and Battersea fields; Salisbury; Covehithe, Suffolk; Cambridge and Cumberland: 6.

2203 Sagittariæ *Fab. E.* ii. 128. — *Ste. M.* iv. 271. — Do. aurea *Hoppe*, 43. f. 5. — Flattish; silken green; beneath with a golden pile: thorax 4-drate, roughly punctured; elytra with several depressions on the disc, the latter punctate-striate, base irregularly punctured, apex narrowed and truncate. (L. 4½-5½ l.) Aquatic plants: London district; Bottisham; River Foss, Yorkshire; Prestwick Fen, Northumberland: 6.

2204 brevicornis *Kunzé, E. F.* 16. — *Ste. M.* iv. 271. — Above dull-brass, beneath with a golden down: antennæ short, black; thorax somewhat 4-drate, roughly punctured; elytra flattish, with 4 slight depressions, punctate-striate from base to apex, the last truncate; legs longish, hinder thighs with an acute tooth. (L. 4-5 l.) Aquatic plants: Bristol: 6.

2205 obscura *Gyll.* iii. 654. — *Ste. M.* iv. 272. — Flattish; brassy-brown, opaque; beneath with a golden down; thorax somewhat 4-drate, flat, roughly punctured, with a faint channel in front; elytra with 4 deepish foveæ, the base within irregularly punctate, the rest of the disc regularly punctate-striate, apex truncate; legs longish, hinder thighs with an acute tooth. (L. 3 l.) Water lily: Windsor and Bristol: 6.

2206 thalassina *Germar.*—*Kunzé, E. F.* 18. —*Ste. M.* iv. 272. — Flattish; golden-green or coppery, opaque; beneath with a golden down; thorax rather convex, narrowed behind, deeply punctate, and with a dorsal channel; elytra with obscure basal depressions, deeply punctate-striate at the base, and faintly at the apex, the latter somewhat obliquely truncate; legs long, hinder thighs with an acute tooth. (L. 4½ l.) Aquatic plants: Bristol: 6.

2207 impressa *Gyll.* iii. 656. — *Ste. M.* iv. 272. — Flattish; shining-brass, reddish-copper, greenish or dusky; beneath with a golden down; thorax somewhat 4-drate, flattish, very much punctured, and with a faint dorsal furrow; elytra rather convex, with 4 impressions on the disc, regularly punctate-striate, interstices transversely wrinkled, apex slightly truncate; legs longish, dusky; hinder thighs with an obsolete tooth. (L. 4 l.) Rushes: Kensington Gardens; in Suffolk and New Forest: 6.

2208 Proteus *Kunzé, E. F.* 23. — *Ste. M.* iv. 273. — Do. discolor *Pz. F.* xxx. f. 2. —f. 3 var. — Do. Nymphææ *Samou.* pl. 2. f. 27. var. — Above metallic, of every possible tint, from an intense black, through blue, green, bright copper to red, beneath with a golden pile; thorax 4-drate, punctate-rugose; elytra ovate, shining, punctate-striate, flattish on the back and impressed, the apex raised; legs and antennæ short, stoutish, the tip of the thighs usually black. (L. 3½-4½ l.) On aquatic plants: generally distributed: 5-6.

2209 micans *Ahrens.*—*Kunzé, E. F.* 25. — *Ste. M.* iv. 273. — Do. ænea *Hoppe*, 44. f. 6. — Above metallic, brassy, greenish, &c.; beneath with an

ashy silken pile; thorax elongate, punctured, silky; elytra oblong, convex, punctate-striate, the back slightly impressed, the tip rounded; legs and antennæ rather slender and elongate. (L. 3½-4½ l.) Aquatic plants: London district: 5-6.

2. *Legs* pale.

2210 rustica *Schüppel.*—*Kunzé, E. F.* 31.—*Ste. M.* iv. 274.—Do. discolor *Hoppe*, 45. f. 8. ♂. 9. ♀.—♂ brown black; ♀ greenish-brass; both sexes with mouth, antennæ, apex of abdomen, and legs red; elytra crenate-striate, the tip rounded; hinder thighs with an acute tooth. (L. 3-4 l.) Aquatic plants: Greenwich; Battersea fields; Cambridge; Bristol; Devonshire, &c.: 6.

2211 nigra *Fab. E.* ii. 128.—*Ste. M.* iv. 274.—Do. palustris *Pz. F.* xxix. f. 10.—Brassy black; thorax bluish, somewhat heart-shaped; elytra punctate-striate, interstices transversely wrinkled, tip rounded; legs longish, antennæ, apex of abdomen, and margins of its segments, red; hinder thighs obtusely toothed. (L. 5-6 l.) Aquatic plants: Woolwich and Greenwich marshes; Battersea; Southend; Cambridge; Wittlesea, &c.: 6.

B. *Hinder thighs* not toothed.

2212 Menyanthidis *Fab. E.* ii. 129.—*Ste. M.* iv. 274.—Le. simplex *Mart. C.* pl. 28. f. 25.—Elongate, flattish; above shining brassy-green, beneath with a silvery pile; elytra crenate-striate, interstices transversely wrinkled, tip obtusely rounded; legs elongate, pitchy-red, hinder thighs long and bent, slender at the base; antennæ reddish, dusky at the base. (L. 5-6½ l.) Aquatic plants; local: Surrey Canal; Whittlesea Mere; Norfolk: 6.

2213 simplex *Fab. E.* ii. 129.—*Ste. M.* iv. 275.—Do. semicuprea *Pz. F.* xxix. f. 14.—Rather convex; above greenish-brass, beneath with a silken-ashy down; head brownish; thorax very much punctured; elytra crenate-striate, interstices transversely wrinkled, the back of a bright red-copper; legs dull red, thighs thickened and brassy at the tip, antennæ pitchy-black. (L. 3½-4½ l.) Aquatic plants: generally distributed: 6.

2214 linearis *Hoppe*, 46. f. 10.—*Ste. M.* iv. 275.—Elongate, flattish; dull greenish-brass, or purplish copper; beneath with a silvery pile: thorax 4-drate, thickly punctured; elytra punctate-striate, interstices strigose transversely, disc with 4 obscure depressions, placed 4-angularly, apex truncate; thighs brassy, base and tibiæ dull testaceous, latter bent; antennæ black, the base of each joint dull red. (L. 4-5 l.) Aquatic plants: plentiful, and generally distributed: 6-7.

2215 Typhæ *Brahm.*—*Kunzé, E. F.* 47.—*Ste. M.* iv. 276.—*Cur.* xi. pl. 494.—Somewhat linear, brassy-green; beneath with a silken-silvery pile; thorax flattish, thickly punctured and rugged; elytra punctate-striate, interstices finely strigose; apex slightly notched; disc with a golden-red streak near the suture, and more or less varied with blue tinges; legs and antennæ nearly as in Do. linearis. (L. 4-5 l.) Rather local, on aquatic plants: Surrey and Croydon canals; Wandsworth Common: 6.

2216 Hydrochæridis *Fab. E.* ii. 129.—*Pz. F.* xxix. f. 17.—*Ste. M.* iv. 276.—Flattish; obscure brown-brass, opaque, clothed throughout with a dense ashy pubescence: thorax 4-drate, obscurely punctured; elytra faintly punctate-striate, interstices finely coriaceous; legs longish; thighs with base testaceous, apex brassy, tibiæ and tarsi dusky-testaceous; antennæ black, with some of the terminal joints reddish at the base.

(L. 4½-5 l.) On aquatic plants: Surrey Canal; Woolwich marshes; Norfolk; Suffolk; Bristol; Prestwick; Yorkshire, &c.: 6.

469 Macroplëa *Hoffmansegg.*

2217 Zosteræ *Fab. E.* ii. 127. — *Ste. M.* iv. 277. — Ma. Equiseti *Cur.* vii. pl. 318. — Black; mouth, thorax, and elytra testaceous-yellow; thorax brightest, with 2 longish black spots; elytra convex striate, the striæ in pairs, and composed mostly of black punctures, the apex produced into an acute spine, the inner margin rounded; legs yellow, thighs and tibiæ spotless, hinder tibiæ flexuous; tarsi annulated with fuscous. (L. 2½-4 l.) On Zostera marina, and amongst the leaves of Potamogeton pectinatus: Hull; Cambridge; Fakenham; Windsor: 6.

(2118 † Equiseti *Fab. E.* ii. 127. — *Ste. M.* iv. 277. — Do. appendiculata *Pz. F.* xxiv. f. 17. — Black: mouth, thorax, and elytra testaceous-yellow; the thorax brighter and with 2 long black dashes; elytra flattish, striate in pairs, the striæ composed mostly of black punctures, apex produced externally into an acute spine, internally with an obtuse short one; legs yellow, tips of the thighs and of the tibiæ black; tarsi entirely pitchy-brown; claws black; hinder tibiæ slightly bent. (L. 4-4½ l.) Supposed to occur near Windsor: 6.)

470 Orsodacna *Latreille.*

2219 chlorotica *Lat. G.* iii. 44. — *Ste. M.* iv. 278. — Cr. fulvicollis *Pz. F.* lxxxiii. f. 8. — Above glabrous, shining; irregularly punctate; beneath with a silken pile: antennæ, head, and thorax pale red, the latter remotely punctured; elytra and legs pale testaceous-yellow; the breast, crown, and abdomen, and sometimes the edges of the elytra, are brown or black. (L. 2½-4 l.) Hedges: Matlock, Derbyshire; Epping: 6.

2220 nigriceps *Lat. Gr.* iii. 44. — *Ste. M.* iv. 279. — Cr. lineola *Pz. F.* xxxiv. f. 5. — Black: antennæ, legs, thorax, and sometimes the abdomen pale red; elytra pale testaceous; thorax slightly pubescent, thickly punctured, except a smooth dorsal line; hinder thighs with a brown dot. (L. 3-3½ l.) On the sallow: Darenth Wood: 6.

2221 humeralis *Lat. Gr.* iii. 45. — *Ste. M.* iv. 279. — Violet-blue; thorax with 2 dull-red spots behind; elytra with the shoulders, and the joints of the legs also, dull red: — sometimes the thorax and the elytra are wholly violet-blue, with the base of the antennæ and thighs dull red: — or occasionally the insect is pale testaceous, with the crown and breast violet black. (L. 3-3½ l.) Whitethorn: Norwood and New Forest: 6.

(2222† cantharoides *Fab. E.* i. 462. — *Ste. M.* iv. 279. note. — Violet shining; head, thorax, and legs red; antennæ reddish at the base. (L. 3 l.?) An English specimen said to have been in the old collection at the British Museum.)

471 Crioceris *Geoffroy.*

2223 merdigera *L.* ii. 599. — *Samou.* pl. 2. f. 14. — *Ste. M.* iv. 280. — Short; black; thorax and elytra bright red, spotless, the latter delicately punctate-striate. (L. 3½-4 l.) On the white lily in gardens: Camberwell; Deptford; Peckham; Crwmlyn Burrows: 6-7.

2224 12-punctatus *L.* ii. 601. — *Mart. C.* pl. 16. f. 36. — *Ste. M.* iv. 280. — Short; dull red; elytra paler, each with 6 black dots, which are sometimes slightly united; antennæ, breast, joints of the legs and the tarsi black. (L. 2½-3 l.) On asparagus: Bath, and near Bristol: 6.

2225 puncticollis *Spence.* — *Cur.* vii. pl. 323. — *Ste. M.* iv. 281. — Short; glossy blue: thorax slightly convex, thickly and deeply rugose-punctate, with an obsolete impression behind, and 2 short furrows on the back;

lateral margins gibbous in front, with a deep fovea: elytra finely punctate-striate; antennæ and tarsi black. (L. 2-3 l.) Hedges: Hertford; Camberwell; Brigg, Lincoln; Weston, Oxon; Swansea: 6.

2226 cyanella *L.* ii. 600. — *Mart. C.* pl. 15. f. 25. — *Ste. M.* iv. 281. — Short; glossy blue, or greenish; antennæ and tarsi black: thorax with the lateral margins gibbous, disc convex, shining, sparingly and minutely punctured, and with a deep transverse impression behind; elytra deeply punctate-striate, body beneath and legs pilose. (L. 1¼-1⅓ l.) On willows, &c.: London district, and generally distributed: 6.

2227 obscura *Ste. M.* iv. 281. — Short; deep opaque black; beneath shining blue-black: antennæ, tibiæ, and tarsi black; thorax slightly convex, very faintly, but rather distinctly, punctate; elytra moderately punctate striate. (L. 1½ l.) London district; Bristol; Norfolk: 6.

2228 melanopa *L.* ii. 601. — *Mart. C.* pl. 17. f. 53. — *Ste. M.* iv. 281. — Oblong; blue, or greenish, shining; thorax and legs bright red; antennæ and tarsi black. (L. 2¼-3 l.) Hedges: London district; Newcastle; Carlisle; Weston; Scotland, &c.: 6.

2229 Asparagi *L.* ii. 601. — *Don.* i. pl. 28. — *Ste. M.* iv. 282. — Oblong; blue-black, or greenish; thorax red, with 2 black spots, sometimes united, or almost obliterated; elytra testaceous-yellow, the suture and a short branch on each side forming a cross, blue-black; towards the base and apex are 2 spots of similar hue, frequently united to the cross; tibiæ sometimes reddish at the base. (L. 2-3 l.) On Asparagus; widely distributed throughout the S. of England: 6-8.

472 ZEUGOPHORA *Kunzé.*

2230 subspinosa *Fab. E.* i. 461. — *Pz.* F. lxxxiii. f. 10. — *Ste. M.* iv. 283. — Black; head, thorax, base of antennæ, and legs, pale testaceous yellow: thorax deeply punctured; elytra punctured, dull black; mandibles pitchy at tip. (L. 1½ l.) On sallow and hazel: Coombe; Darenth; Hornsey; Epping; Weston; Swansea: 6.

2231 flavicollis *Marsh.* i. 217. — *Ste. M.* iv. 283. pl. xxii. f. 4. — Black: head yellow; crown and eyes black; thorax pale yellow, sparingly punctured; elytra shining, deeply punctured, the angle of the shoulders yellow beneath; legs and 3 basal joints of the antennæ yellow. (L. 2 l.) Woods: Bexley; Kimpton, Hants; Manchester: 6.

§ 4. Stirps 4. CYCLICA *Latreille.*

Fam. 55 HISPIDÆ. *Ant.* filiform, porrect: *head* exserted: *mouth* not concealed by the anterior edge of the prostenum: *tho.* trapeziform: *body* oblong; more or less armed with spines: *tibiæ* compressed: *palpi* short.

Fam. 56 CASSIDIADÆ. *Ant.* inserted near together, short, filiform or slightly thickened towards the tips, the base and *head* concealed beneath the anterior edge of the *tho.*, which last is generally semicircular; *mouth* partly hidden by the anterior edge of the prostenum: *body* shield-shaped, the sides of the thorax and elytra dilated: *palpi* very short.

Fam. 57 GALERUCIDÆ. *Ant.* approximating at the base, exserted, filiform, rather long: *body* somewhat oval or hemispherical: *elytra* wider than the *tho.*, which is mostly transverse: *palpi* with terminal joint thickest in the middle: *legs* simple; the hinder *thighs* frequently considerably thickened.

Fam. 58 CHRYSOMELIDÆ. *Ant.* remote, short, moniliform, sometimes rather serrated: *body* generally hemispherical or ovate; *tho.* with its base usually as broad as that of the elytra: *legs* of equal size: *palpi* short.

Fam. 55. HISPIDÆ *Kirby.*

ccccIxxiii. Hispa *Ant.* cylindric, basal and terminal joints largest, the former spinose without: *tho.* narrowed in front; sides rounded: *elytra* elongate: *legs* stout: *body* spinose.

473 Hispa *Linné.*

2232 atra *L.* ii. 603. — *Ste. M.* iv. 400. pl. xxiii. f. 6. — Black, opaque: thorax with 2 geminated divaricating spines in front, and the sides with 1 simple and 1 geminated spine; elytra coarsely punctate-striate, each with 6 rows of elongate close-set spines; anterior tibiæ with a short spine on the outer edge. (L. ½-1¾ l.) In Hyde Park? and near Rochford in Essex: 6.

Fam. 56. CASSIDIADÆ *Leach.*

ccccIxxiv. Cassida *Ant.* slightly filiform; rather thickened towards the apex: *max palpi* clavate; *lab.* filiform, acute at the tip: *legs* short: *tho.* and *elytra* expanded.

474 Cassida *of Authors.*

2233 vittata *Fab. E.* i. 391. — *Ste. M.* iv. 365. pl. xxiii. f. 1. — Wingless; black, red above: thorax with 4 irregular black spots; elytra obsoletely wrinkled transversely, with the suture, an interrupted streak on each, and a spot near the base, black; base of antennæ dull red. (L. 3-3½.) On the ragwort: Burghfield, Berks; Godstone; Windsor; Ryde; New Forest: 6.

2234 Murræa *L.* ii. 575. — *Samou.* pl. 2. f. 10. — *Ste. M.* iv. 366. — Black, above red or green; thorax punctured, spotless; hinder angles straight; elytra punctate-striate, blotched with black near the suture, and spotted with the same on the disc; edge of abdomen pale. (L. 3-4¼ l.) On Inula dysenterica, &c., near Greenwich; Plaistow marshes; Swansea: 6.

2235 rubiginosa *Ill. K.* i. 479. — *Ste. M.* iv. 366. — Ca. viridis: *Wood*, i. pl. 9. — Ovate; black; dull green above: thorax with the hinder angles acute; elytra faintly striate-punctate, the base reddish; apex of thighs, tarsi, tibiæ, and base of antennæ, pale; edge of abdomen slightly reddish. (L. 3½ l.) On thistles: London and Edinburgh districts: Bottisham; Newcastle, &c.: 6.

2236 thoracica *Fab. E.* i. 388.? — *Pz. F.* xxxviii. f. 24.? — *Ste. M.* iv. 366. — Ovate; black; thorax reddish, dull red behind; hinder angles acute; elytra green, punctate-striate, with a dull red spot at the base: legs entirely, base of antennæ, and edges of abdomen, pale testaceous. (L. 3½ l.) London district: 6.

2237 equestris *Fab. E.* i. 388. — *Pz. F.* xcvi. f. 5. — *Ste. M.* iv. 367. — Ovate; green above, thickly and irregularly punctate, the punctures coarse on the elytra, faint on disc of thorax, the latter transverse, with hinder angles rounded: beneath black, with sides and tip of abdomen and legs rusty-luteous; base of antennæ testaceous. (L. 4-4½ l.) On mint, &c.: London and Edinburgh districts, and pretty generally distributed: 4-6.

2238 Vibex *L.* ii. 575. — *Pz. F.* xcvi. f. 6. — *Ste. M.* iv. 367. — Ovate; black, above green; thorax semicircular, hinder angles rounded, sides reddish; elytra rather convex, distinctly punctate-striate, the base within and the suture irregularly reddish-brown; sides of the abdomen pale, interrupted; legs pale testaceous, base of thighs dusky. (L. 3. l.) On Serratula arvensis: Hertford; Bristol, &c.: 6.

2239 nebulosa *L.* ii. 575. — *Ste. M.* iv. 367. — Ovate; black; above yellow-

ish-griseous, or pale green; thorax semicircular, hinder angles rounded, sparingly punctured; elytra deeply punctate-striate, the disc, especially towards the apex, thickly sprinkled with minute black spots, somewhat united on the sides; edge of abdomen, and legs, pale; thighs dusky at base. (L. 3 l.) Hedges: Darenth Wood; Bottisham; Monk's Wood: 6.

2240 ferruginea *Fab. E.* i. 391. — *Herbst. C.* viii. pl. 130. f. 14. — *Ste. M.* iv. 368. — Ovate; black; above dull red; thorax finely punctured, hinder angles rounded; elytra thickly punctured, the punctures irregularly disposed, and interrupted with several elevated ridges, 2 of which are parallel with the suture; sides of abdomen broadly testaceous; legs and antennæ pale, base of thighs and tips of antennæ dusky. (L. 2½ 3 l.) In Devonshire: 6.

2241 obsoleta *Ill. K.* i. 484. — *Ste. M.* iv. 368. — Ovate; black; above griseous yellowish; thorax with the hinder angles rounded, the base with a deep fovea, sides flat; elytra deeply punctate-striate, alternate interstices slightly raised; forehead, sides of abdomen, and legs very pale testaceous; antennæ pale, tip dusky. (L. 2½ l.) Grassy places: Coombe Wood; Hertford; widely distributed: 4-6

2242 sanguinolenta *Fab. E.* i. 389. — *Ste. M.* iv. 369. — Ca. cruentata *Don.* ii. pl. 62. f. 2. 3. — Ovate; black; above green; thorax curved behind, the angles rounded; elytra very convex, shining, punctate-striate, 2d and 5th interstices slightly raised; base of the suture with a bright red spot; sides of the abdomen and legs pale green. (L. 2-2½ l.) Hedges: Hammersmith; Epping Forest; Highgate; Cambridge; Crwmlyn Burrows: 4-6.

2243 singularis *Sturm.* — *Ste. M.* iv. 369. — Short, ovate; black; above green; thorax thickly punctured, a little waved at the base, hinder angles rounded; elytra thickly, irregularly, and coarsely punctured, spotless; abdomen with a narrow pale edge; legs and antennæ at base pale; thighs dusky at base. (L. 2¼ l.) London district: 6.

2244 viridula *Pk. F.* ii. 49. — *Ste. M.* iv. 369. — Ca. margaritacea var. *Herbst. E.* viii. pl. 130. f. 16. — Oblong-ovate, convex; black; above pale greenish, spotless: thorax rather round at the base, hinder angles obtuse, disc smooth; elytra moderately punctate-striate, 3d interstice dilated in the middle and irregularly punctured, margin deflexed; breast fuscous; a broad margin to abdomen and the legs pale greenish, base of thighs dusky. (L. 3. l.)

Var. Ca. Spergulæ *Marsh.* i. 144. — *Ste. M.* iv. 370. — Body beneath black; margin of the abdomen narrowly pale and legs wholly so. On Spergula arvensis: London district; Bristol; Swansea: 6.

2245 Salicorniæ *Cur.* iii. pl. 127. — *Ste. M.* iv. 370. — Rather oblong-ovate; black; greyish ochre above; thorax sparingly punctured, margin somewhat transparent, hinder angles obtuse; elytra punctate-striate, 3d interstice with a few scattered punctures, with a waved metallic-green stripe, disappearing with life; suture brownish; sides of abdomen broadly ochreous; legs entirely ochreous. (L. 2½ l.) On aquatic plants: Ripley; Coombe Wood; Fakenham, &c.: 4-6.

2246 nobilis *L.* ii. 575. — *Don.* iv. pl. 138. f. 1-3. — *Ste. M.* iv. 370. — Ovate, convex; black; above greenish-yellow; disc of thorax smooth, sides punctate, hinder angles obtuse; elytra deeply punctate-striate, 2d interstice broad silvery blue or coppery during life, fading to pale yellow; margin of abdomen and legs pale testaceous; base of thighs black. (L. 2-2½ l.) Ockham Heath, Surrey; Cambridge; Marton, Yorkshire: 4-6.

2247 splendidula *Marsh.* i. 147. — *Ste. M.* iv. 371. — Ca. pulchella. *Pz. F.* xxxix. f. 15. ? — Ovate, convex, black; griseous above; thorax with hinder angles obtuse: elytra punctate-striate, suture brownish; a golden coppery

stripe on the 2d interstice, and 1 or 2 short ones in the middle of the disc, and on the shoulders; edge of the abdomen, legs, except base of thighs, and base of antennæ, pale. (L. 2-2½ l.) London district; Devonshire; S. Wales: 6.

2248 margaritacea *Fab. E.* i. 397. — *Ste. M.* iv. 371. — Ca. mutabilis *Vill. E.* i. pl. 1. f. 11. — Nearly orbiculate, convex; greenish; above silvery-green or pearly, after death pale testaceous; thorax with the hinder angles obtuse; elytra thickly and finely punctured, sides deflexed and expanded; head and breast black; legs and base of antennæ pale. (L. 2 l.) Rare: near London; at Hertford and Ripley: 6.

2249 concinna *Ste. M.* iv. 371. — Somewhat orbiculate, convex; shining; greenish; thorax faintly punctured; hinder angles obtuse; elytra very thickly and coarsely punctured, punctures confluent, sides deflexed and expanded; head and breast black; abdomen and legs greenish; base of antennæ pale, tip black. (L. 2. l.) Birch Wood and Suffolk: 9.

2250 hemisphærica *Herbst. C.* viii. 220. pl. 129. f. 9. — *Ste. M.* iv. 371. — Somewhat hemispheric; green above; head black; thorax faintly punctured; hinder angles rather acute; elytra ample, disc deeply and coarsely punctured, sides rounded, deflexed and expanded; breast black; abdomen yellow; legs pale. (L. 2 l.) Devonshire: 6.

Fam. 57. GALERUCIDÆ *Stephens.*

ccccLXXV. AUCHENIA *Ant.* shorter than the body, joints elongate, 2d much shorter than the 3d: *labrum* entire; somewhat lobed: *tho.* with hinder angles obtuse: *elytra* rounded at the apex, and with an angle on the sutural edge; *hinder thighs* not incrassated.

ccccLXXVI. ADIMONIA *Ant.* rather short, with 2d and 3d joints equal, short: *labrum* notched: *tho.* wider behind than before, the hinder angles prominent; *elytra* dilated behind the middle, the apex rounded and acute within; *hinder thighs* not incrassated.

ccccLXXVII. GALERUCA *Ant.* shorter than the body; joints short, obscure, 2d much shorter than the 3d: *labrum* entire: *tho.* broad at the base, the disc unequal, i. e., impressed or foveolated: *elytra* ample, ovate, or elliptical; *hinder thighs* not incrassated: *tibiæ* ciliated.

ccccLXXVIII. LUPERUS *Ant.* much longer than the body; joints elongated, 2d and 3d equal: *labrum* entire, with a small central lobe: *tho.* broadest in front, hinder angles acute: *elytra* elongate, dilated behind: *legs* long: *hinder thighs* not thickened, their *tibiæ* slender, not bent.

ccccLXXIX. CALOMICRUS *Ant.* longer than the body, 2d and 3d joints equal, short: *labrum* entire; slightly lobed: *head* narrower than the *tho.*, which has the sides rounded: *elytra* slightly attenuated at the apex: *legs* slender: *hinder thighs* not thickened, their *tibiæ* simple, slightly curved.

ccccLXXX. HALTICA *Ant.* 11-jointed; elongate; 2d joint longish, or somewhat globose, 3d long: *body* oblong-ovate: *tho.* narrower than the *elytra*, which are elongate: *hinder thighs* considerably incrassed; their *tibiæ* not dentate nor ciliated without, with a simple spine at the tip, and the *tarsi* short and apical.

ccccLXXXI. THYAMIS *Ant.* 11-jointed, shortish; 2d and 3d joints abbreviated; and subequal: *body* elongate: *elytra* convex, slightly dilated behind: *hinder thighs* much thickened; their *tibiæ* simple, and their *tarsi* elongate, apical.

ccccLXXXII. MANTURA *Ant.* 11-jointed, short; basal joint very robust, 2d short, somewhat globose: *body* oblong-ovate: *tho.* as broad as *elytra*, the latter dilated towards the middle: *hinder thighs* incrassated; their *tibiæ* simple, truncate at the apex; their *tarsi* short, stout, apical.

ccccclxxxiii. Macrocnema *Ant.* 10-jointed, the true 2d joint obliterated: *head* small: *body* elongate, attenuated at each end: *hinder thighs* very much thickened; their *tibiæ* bent, simple, apex spurless, obliquely truncate, and their *tarsi* elongate, inserted before the apex.

ccccclxxxiv. Dibolia *Ant.* 11-jointed; 2d joint short, stout: *head* retracted beneath the anterior edge of *tho.*, the base of which is bisinuated: *legs* short; *hinder thighs* much thickened; their *tibiæ* bent at the base, spined externally, and armed with a bifid spur; *tarsi* short, apical.

ccccclxxxv. Cardiapus *Ant.* 11-jointed, 2d joint moderate, slender; apex slightly thickened: *body* somewhat cylindrical: *tho.* with base as broad as elytra: *head* exserted: *thighs* robust, hinder pair stoutest; their tibiæ slightly bent, and a little ciliated without, armed with a small spine; *tarsi* short and apical, penult. joint bilobed.

ccccclxxxvi. Chætocnema *Ant.* 11-jointed, short, basal joint stout, bent, 2d robust, short: *head* prominent: *tho.* with lateral margins rounded: *elytra* broad: *body* very convex: *legs* robust; *hinder thighs* thickened; their tibiæ dentate externally and ciliated; *tarsi* short, apical.

ccccclxxxvii. Sphæroderma *Ant.* 11-jointed, joints simple, 2d somewhat globose: *body* hemispherical, very glabrous, and shining: *head* slightly connected by the anter. margin of the *tho.*; *elytra* dilated at the base: *hinder thighs* incorporated; their tibiæ bent, simple; *tarsi* broad, short, apical.

ccccclxxxviii. Mniophila *Ant.* 11-jointed, slightly thickened towards the apex; basal joint long, 2d somewhat globose, 4 following minute, 7th longer, obconic truncate, 8th minute, 3 following forming a slight club: *body* hemispherical: *hinder thighs* incrassated; *tibiæ* simple: *tarsi* short, apical.

475 Auchenia *Marsham.*

2251 4-maculata *L.* ii. 600. — *Cur.* viii. pl. 366. ♂. — *Ste. M.* iv. 285. pl. xxii. f. 6. ♀. — Black; head in front, thorax, elytra, legs, and antennæ pale testaceous-yellow; elytra finely punctulated, and with 2 remote black spots, the hinder 1 sometimes divided. (L. 3-4½ l.) Marshy districts: Battersea fields; banks of Thames, &c.; Paddington; Monk's Wood; Bristol; Crwmlyn Bog; fens, Ely: 6-7.

476 Adimonia *Schrank.*

2252 Alni *L.* ii. 587. — *Ste. M.* iv. 286. pl. xxii. f. 5. — Violet-blue, or greenish; shining; thickly punctured: elytra with a purplish tinge, irregularly punctured; thighs violet; tibiæ, tarsi, and antennæ black. (L. 3-4 l.) Rare: near London; Exeter; Bristol: 5-6.

2253 halensis *L.* ii. 589. — *Mart. C.* pl. 15. f. 20. — *Ste. M.* iv. 286. — Yellow: head and elytra golden-green, bluish, or blue; antennæ and tarsi fuscescent: eyes black: forehead testaceous. (L. 2-3½ l.) Hedges, on flowers: Hertford; Newmarket Heath; Suffolk; Monk's Wood; Dawlish; Swansea; Newcastle; Carlisle: 7-9.

477 Galeruca *Geoffroy.*

2254 Tanaceti *L.* ii. 587. — *Samou.* pl. 2. f. 13. — *Ste. M.* iv. 287. — Ovate, black, spotless; above thickly, deeply, and roughly punctured: elytra with about 5 faintly elevated lines: — thorax and elytra dull griseous when immature. (L. 4-6 l.) On shrubs, &c.: generally distributed, sometimes in profusion on the eastern coasts: 5-7.

2255 rustica *Fab. E.* i. 481. — *Pz. F.* cii. f. 4. — *Ste. M.* iv. 288. — Ovate, black; thickly, deeply, and coarsely punctured: thorax and elytra bright griseous, the latter with 5 distinctly elevated lines. (L. 4-6 l.) Marshy places: Whittlesea Mere: 6-7.

2256 Capreæ *L.* ii. 600. — *Mart. C.* pl. 17. f. 45. — *Ste. M.* iv. 288. — Rather oblong-ovate; glabrous; thickly punctured; black: thorax griseous, with 3 black spots; elytra dull testaceous; tip of hinder thighs, tibiæ, tarsi, and basal joints of antennæ griseous, the latter tipped with black. (L. 2-2½ l.)

Var.? Ga. saturata *Ste. M.* iv. 288.—Above dark griseous, or blackish, with the middle of the thorax, thighs, and antennæ entirely black. Common: London district; S. Wales; Bristol; Suffolk; Newcastle; Bottisham; Raehills, &c.: 5-7.

2257 Viburni *Pk. F.* ii. 89. — *Cur.* viii. pl. 371. — *Ste. M.* iv. 289. — Ovate, convex; griseous-yellow, with a silken pile: crown with a black spot; thorax with a short dorsal furrow and a broad marginal streak black; elytra with a black callus on the shoulder; tibiæ outwardly fuscescent; antennæ black, base of the joints pale-testaceous. (L. 3 l.) Woody places: Darenth; Dorsetshire; Newcastle; Yorkshire; Weston, Oxon; S. Wales: 5-7.

2258 Cratægi *Forst. C.* i. 28. — *Mart. C.* pl. 14. f. 4. — *Ste. M.* iv. 289.— Ovate, glabrous; dull red; thickly and deeply punctured: eyes, 2 short streaks on the elytra, scutellum, breast, base of abdomen, and tip of antennæ black: — legs sometimes dusky. (L. 1½-2¼ l.) Flowers, especially of whitethorn: London district; Cambridgeshire; Lowestoff; York; New Forest; Swansea: 5-6.

2259 Nymphææ *L.* ii. 600. — *Mart. C.* pl. 17. f. 46. — *Ste. M.* iv. 289. — Elongate-ovate, flattish; black: thorax yellow, with 3 black spots; elytra irregularly punctured, dull black, the sides and apex yellowish; tip of abdomen and of thighs, tibiæ, tarsi, and scutellum yellow; basal joints of antennæ pale at the base. (L. 2-3 l.) Aquatic plants: London district; Bottisham; Prestwick Car; Crwmlyn and Sketty bogs; Raehills: 5-6.

2260 Calmariensis *L.* ii. 600. — *Ste. M.* iv. 290. — Oblong-ovate; above testaceous; deeply punctured: crown, furrow on the thorax, scutellum, a dash on the elytra, breast and base of abdomen black; apex of abdomen and base of antennæ testaceous. (L. 2-2½ l.) Aquatic plants: London district; Bottisham; Weston; Bristol; Swansea: 5-6.

2261 Lythri *Gyll.* iii. 513. — *Ste. M.* iv. 291. — Oblong-ovate: above testaceous, deeply punctured; a crescent on the crown, a line in the dorsal channel of the thorax, and the scutellum black; elytra testaceous, with the humeral callus clouded; thorax pale testaceous beneath; breast and abdomen black, tip of the latter and the legs testaceous; antennæ testaceous, the tip black. (L. 1½-2½ l.) Lythrum salicaria, &c.: London district; Swansea: 6.

2262 lineola *Fab. E.* i. 486. — *Pz. F.* cii. f. 1. — *Ste. M.* iv. 291. — Oblong-ovate; above testaceous-yellow, punctured, and with a silken pile; a lunate spot on the crown, a black wedge-shaped patch at the base of the thorax, and the scutellum black; elytra testaceous, sides and suture pale, callus dusky or black; body black beneath, the tip of abdomen and legs pale yellowish; antennæ black, with the base more or less testaceous. (L. 1½-2½ l.) Aquatic plants: London district; Exeter; Bristol; S. Wales: 6.

2263 xanthomælena *Schön. S.* 78. — *Ste. M.* iv. 291. — Oblong-ovate, flattish; above griseous-yellow, thickly punctured; crown with a 3-angular black spot, and another geminated one at the base of the antennæ; thorax with 3 black spots; elytra with a long black dash within the margin, and a short streak near the middle; legs dull yellow, thighs with a dusky spot without, tibiæ with a black streak, hinder pair bent. (L. 3 l.) Elms: London district: 6.

2264 tenella *L.* ii. 600. — *Pz. F.* cii. f. 9. — *Ste. M.* iv. 292. — Oblong-

ovate, convex; head yellow, crown black; thorax wholly yellow; scutellum pitchy; elytra punctate, testaceous, the suture and lateral margins yellow; body beneath black, the tip of abdomen and the legs pale testaceous. (L. 1½-2¼ l.) On willows, in marshy places: London district; Bristol; S. Wales; Cardew-mire, Cumberland; Raehills: 6.

478 Luperus *Geoffroy.*

2265 rufipes *Fab. E.* i. 461. — *Pz. F.* xxxii. f. 5. — *Ste. M.* iv. 293. — Shining black, glabrous; base of antennæ and the legs reddish-yellow; thighs black at the base. (L. 1½-3½ l.) On willows, &c.: Ripley, abundant; Windsor; Midgeley Moor; Swansea; Raehills: 6-7.

2266 flavipes *L.* ii. 601. — *Pz. F.* xxxii. f. 4. — *Ste. M.* iv. 293. — Shining black, glabrous; thorax wholly yellow; legs long, yellow, the thighs black at the base; antennæ black, the base yellow. (L. 1½-2½ l.) On hazel: Coombe Wood; Cambridge; Midgley Moor; Swansea; Raehills, &c.: 6.

479 Calomicrus *Dillwyn.*

2267 circumfusa *Marsh.* i. 227. — *Ste. M.* iv. 294. — Lu. Brassica *Cur.* viii. pl. 370. — Black; shining, punctate, glabrous: thorax, with a 3-lobed band in front, and the elytra yellow, the suture and outer margin broadly ovate; tibiæ and base of antennæ reddish. (L. 1½-2 l.) Hedges: Ripley; Hertford; New Forest; Bristol; Prestwick Car; Swansea: 6.

480 Haltica *Illiger.*

§ A. *Ant.* with 4th or 5th joints elongate, thickened in ♂: — Phyllotrata *Chevrolat.*

2268 antennata *Oliv. E.* iv. 82. pl. 5. f. 82. — *Ste. M.* iv. 295. — Elongate, flat; dull brass, or coppery; thorax 4-drate; elytra punctured, very obtuse; legs and antennæ brownish, the latter, in the ♂, with the 4th joint very large and dilated. (L. 1¼-1½ l.) On Reseda: Hertford; Swaffham Bulbeck, Cambridge; near Crwnlym Burrows: 6-8.

2269 † consobrina *Curtis* xiv. fo. 630. — "Like M. Lepidii, but very thickly and more coarsely punctate, dull green; antennæ black, 5th joint elongated, 6th small, the following broader and compressed; tarsi brown. (L. 1 l.)" New Forest: 6.

2270 Brassicæ *Oliv. E. M.* iv. 111. — *Ste. M.* iv. 296. — Ha. 4-punctulata *Ent. H.* ii. pl. 3. f. 5. — Ovate, convex, deep black; thickly and finely punctured; elytra each with 2 rather 3-gonal testaceous yellow patches, placed longitudinally; thighs black, shining; tibiæ and tarsi pitchy brown; antennæ testaceous at base, 5th enlarged in the ♂. (L. 1-1¼ l.) Hedges: Hertford; Ripley; Cummersdale, Cumberland.

2271 ochripes *Cur.* xiv. pl. 630. — Slightly elongated; black, shining, thickly punctured: elytra with a broad testaceous-yellow streak, interrupted on the outer margin with a 3-gonal black patch, sometimes extending to the suture and forming a bar across; legs bright ochre; hinder thighs black: antennæ of ♂ with the 3 basal joints ochreous, of ♀ entirely ochreous. (L. 1¼-1½ l.) Hedges: Dulwich; Penge Wood; Ockbrook, Derbyshire: 5-7.

2272 Nemorum *L.* ii. 595. — *Don.* xvi. pl. 569. f. 1. — *Ste. M.* iv. 296. — Oblong-ovate; flattish; black, thickly punctured; elytra greenish-black, with a broad uninterrupted longitudinal sulphur-yellow streak, not touching the apex; antennæ, knees, tibiæ, tarsi, and base of antennæ testaceous. (L. 1-1½ l.) On cruciferous plants: too generally distributed: ⊙.

§ B. *Ant.* with 4th or 5th joints shortish, simple: 1. *tho.* without a transverse impression. * *Elytra* punctulate.

2273 flexuosa *Marsh.* i. 198. — *Ste. M.* iv. 296. — Oblong-ovate, flattish, black, thickly punctured; elytra with a narrow, flexuous pale luteo-testaceous longitudinal streak; knees pitchy; antennæ testaceous at the base. (L. 1½-1¾ l.)

Var.? Ha. sinuata *Ste. M.* iv. 297. — Elytra with a broad pale streak, having a black semicircular lobe in the middle of its outer edge; knees black: — legs rarely pale. Grassy places, &c.: London district; York; Oxford; S. Wales: 4-8.

2274 vittata *Ste. M.* iv. 297. — Oblong; flat; black; elytra pale testaceous, with the entire margins and a central band black; legs also black; antennæ pale at the base. (L. 1⅜ l.) Meadows: London district and Norfolk: 6.

2275 4-guttata *Ste. M.* iv. 299. — Oblong; black; finely punctured; elytra each with a yellow central interrupted streak, forming 2 distinct spots; legs and antennæ black. (L. 1 l.) Hedges: London district; Weston, Oxon; New Walk, Yorkshire; S. Wales: 6.

2276 Lepidii *Ent. H.* ii. 64. — *Ste. M.* iv. 297. — Al. nigripes *Pz. F.* xxi. f. 5.—Elytra flattish, finely punctured; greenish-brass; thorax narrowed in front; elytra obtuse at tip, greenish-blue, more deeply punctured than the thorax; body beneath bluish; legs and antennæ black. (L. 1-1⅜ l.) Hedges: London district: 6-8.

Var.? Ch. lens *Thunb. A. H.* iv. 13. — *Ste. M.* iv. 298. — Above blue or violet, beneath black; Hedges, &c.

2277 elongata *Ste. M.* v. 423. — Elongate-ovate; rather convex; very finely punctured; elytra obtuse at the apex; antennæ and legs pitchy-black. (L. 1¼ l.) Hedges: London district: 6.

2278 obscurella *Ill. M.* vi. 154. — *Ste. M.* iv. 298. — Oblong-ovate, flattish; punctulate; dull brassy; elytra obtuse at the tip; legs and antennæ black, the base of the latter red. (L. 1-1¼ l.) Hedges: London district and Bristol: 6.

2279 punctulata *Marsh.* i. 200. — *Ste. M.* iv. 298. — Oblong-ovate, flat; shining black; deeply punctured; thorax rather long; elytra obtuse at the apex; legs and antennæ entirely black. (L. 1-1¼ l.) Hedges: London district; Bristol: 6.

2280 melæna *Ill. M.* vi. 154. — *Ste. M.* iv. 298. — Oblong, flat; punctured; above black, or blue-black: thorax somewhat 4-drate; antennæ and legs black. (L. 1½ l.) Hedges: London district and Norfolk: 6.

2281 nigroænea *Marsh.* i. 197. — *Ste. M.* iv. 298. — Oblong; flattish; blue-brass; very thickly punctured; elytra obtuse at the apex; antennæ and legs black. (L. 1¼ l.) Hedges: London district; Ripley: S. Wales: 6.

Body ovate: — APHTHONA *Chevrolat.*

2282 Cyparissiæ *Ent. H.* ii. 80. pl. 3. f. 8. *a.* — *Ste. M.* iv. 299. — Rather oblong, smooth, testaceous; forehead with 2 tubercules between the eyes; elytra pale, very finely punctured; abdomen pitchy; legs and antennæ testaceous; hinder tibiæ dusky-brown. (L. 1½ l.) Hedges: London district; Norfolk; Devon: 6.

2283 Euphorbiæ *Fab. E.* i. 467. — *Ste. M.* iv. 299. — Ovate; shining; black, with a brassy or bluish gloss above; minutely punctured; thorax rather smooth; legs testaceous-yellow, hinder thighs dusky at the tip; antennæ with the base pale. (L. 1. l.) Hedges: Battersea fields; Bottisham; New Walk, York; Swansea: 4-7.

2284 atrocerulea *Ste. M.* iv. 299. — Ovate, deep black, very thickly punctured, especially on the thorax; above deep-blue or greenish; legs entirely pale testaceous; base of antennæ pale. (L. ¾-1 l.) Hedges: Hertford; Bristol: 6.

2285 herbigradus *Cur.* xiv. fo. 630. — Ovate, narrowish; bright shining-green, punctured; antennæ and legs pale bright ochreous, the 4 apical joints of the former fuscous; hinder thighs with a pale pitchy band. (L. ⅔-¾ l.) Hedges: London district; Lymington: 6.

2286 cærulea *Ent. H.* ii. 55. — *Ste. M.* iv. 300. — Al. Hyoscyami *Pz. F.* xxi. f. 4. — Ovate; black; above blue: head and thorax faintly punctured, the latter broadish behind; elytra irregularly punctured, the interstices wrinkled; legs pale testaceous, tip of hinder thighs fuscous; antennæ with the 4 or 5 terminal joints pale. (L. 1¼-1½ l.) Hedges: London district; Bristol: 6.

2287 Pseudacori *Marsh.* i. 196. — *Ste. M.* iv. 300. — Ovate; black, above deep blue, smooth, shining; head and thorax minutely and thickly punctured; legs black; antennæ reddish at the base, black at tip. (L. 1¼-1¾ l.) On Iris pseudacosus: Battersea fields; Weston; S. Wales; Prestwick Car; Dalmen: 6-8.

—— PODAGRICA *Chevrolat.*

2288 fuscicornis *L.* ii. 595. — *Ste. M.* iv. 300. — Ch. rufipes *Don.* xi. pl. 365. f. 3. — Ovate; black; head, thorax and legs entirely red; elytra greenish-blue, of variable tint, finely and irregularly punctulated; antennæ with some of the basal joints red, 2d joint very short. (L. 1½-2 l.) Hedges: London district: Near Carlisle; S. Wales: 4-7.

* * *Elytra* punctate-striate.

2289 ærata *Marsh.* i. 204. — *Ste. M.* iv. 301. — Ovate; black; above brassy-black; head and thorax finely punctured; elytra obsoletely striated, the striæ somewhat punctured; legs and base of antennæ red. (L. ¾ l.) Hedges: London district; Dover; Weston; Raehills: 4-7.

2290 striatula *Marsh.* i. 205. — *Ste. M.* iv. 301. — Ovate, black; slightly shining: head and thorax finely punctured; elytra obtusely punctate-striate; legs and antennæ entirely red. (L. ½-¾ l.) Hedges: London district; Weston: 4-7.

2291 Rubi *Fab. E.* i. 468. — *Ste. M.* iv. 301. — Ovate; convex; black; shining; thorax thickly and finely punctured; elytra deeply and regularly punctate-striate, interstices smooth; legs and antennæ entirely red; hinder thighs sometimes rather pitchy. (L. ½-¾ l.) On brambles, &c.: London district; S. Wales: 5-7.

2292 brunnicornis *Ste. M.* iv. 301. — Ovate, pitchy-black, shining; thorax rather thickly and finely punctured; elytra somewhat deeply punctate-striate, interstices smooth; legs entirely dull red; antennæ pitchy-brown. (L. ¾ l.) Hedges; Ripley: 6.

2293 fuscipes *Pz. F.* xxi. f. 11. — *Ste. M.* iv. 302. — Ovate, convex; black; shining: head and thorax black, the latter with a faint impression on each side; elytra greenish-blue, irregularly punctate-striate; base of antennæ red. (L. 1½-2 l.) Hedges: abundant in London district; Weston; S. Wales: 4-8.

2294 tripudians *Kirby* — *Ste. M.* iv. 302. — Ovate, convex; pitchy-brass; head, thorax, tibiæ, and base of antennæ red; thighs pitchy; elytra punctate-striate, greenish-blue. (L. 1⅓-1½ l.) London district; Bristol; Suffolk: 7-7.

* * * *Elytra* impunctate.

2295 † Kirbii *Ste. M.* iv. 302. — Ovate, very smooth, impunctate; yellow,

elytra and hinder thighs blue-green. (L. 2½ l.) Found after a flood at Livermere, Suffolk : 6.

2. *Tho.* with a transverse impression.

* *Elytra* punctate-striate : — CREPIDODERA *Chevrolat.*

2296 ferruginea *Schr.* — *Ill. M.* vi. 109. — *Ste. M.* iv. 302. — Oblong ; glabrous ; dull red, spotless ; eyes black ; elytra irregularly punctate-striate ; legs and antennæ palish. (L 1½-2¾ l.) Hedges : abundant in London and Edinburgh districts, and generally distributed : 4-10.

2297 flava *L. F.* 1 ed. No. 535. — *Ste. M.* iv. 303. — Oblong-ovate, testaceous-red, shining, spotless ; eyes black ; elytra regularly punctate-striate ; legs and antennæ pale testaceous. (L. 1¼-1¾ l.)

Var. Ha. similis *Kirby* — *Ste. M.* iv. 303. — Less ; pale testaceous-red, elytra somewhat less regularly punctate-striate. Also generally distributed : 4-10.

2298 affinis *Ent. H.* ii. 35. — *Ste. M.* iv. 303. — Al. atricilla *Pz. F.* xxi. f. 8. — Oblong-ovate, moderately convex ; black ; thorax and elytra pale testaceous, the former faintly punctulate, the latter regularly punctate-striate, the suture, especially in the middle, dark ; thighs pitchy, hinder pair black ; tibiæ, tarsi and antennæ testaceous. (L. 1¼-1⅓ l.) Hedges : London district, and near Carlisle : 4-6.

2299 Salicariæ *Pk. F.* iii. *Ap.* 453. — *Ste. M.* iv. 303. — Ovate, convex ; pale testaceous ; elytra paler, deeply punctate-striate, suture sometimes brownish ; breast and abdomen pitchy ; legs pale ; antennæ brownish, the base pale ; head reddish ; eyes black. (L. 1¼-1½ l.) Hedges : London district ; Bristol ; Norfolk : 6-8.

2300 Modeeri *L.* ii. 594. — *Don.* xvi. pl. 569. f. 2. — *Ste. M.* iv. 304. — Short, ovate, convex, very glossy ; brassy ; elytra regularly and deeply punctate-striate, the apex more or less broadly luteous or yellow ; legs and base of the antennæ testaceous, tip of the hinder thighs pitchy-red. (L. ¾-1 l.) Grassy places ; Battersea fields ; Bristol ; S. Wales and W. of England : 6-7.

2301 rufipes *L.* ii. 595. — *Ste. M.* iv. 304. — Ch. ruficornis *Don.* xi. pl. 365. f. 2. — Ovate ; head, thorax, antennæ and legs entirely bright red ; elytra bluish-green, deeply punctate-striate, the striæ irregular towards the apex ; breast and abdomen black. (L. 1½-1¾ l.) Hedges ; local : Darenth Wood ; Hertford ; Dover ; Ripley ; Epping ; Weston ; New Walk, York ; Meldon Park ; Edinburgh, &c. : 6.

2302 femorata *Gyll.* iii. 559. ? — *Ste. M.* iv. 304. — Ovate ; head, thorax, tibiæ and tarsi bright red ; elytra blue, deeply punctate-striate ; mouth, thighs, breast, and abdomen black. (L. 1¾. l.) Near Windsor ; Hertford, and in Suffolk : 6.

2303 nitidula *L.* ii. 594. — *Don.* viii. pl. 273. — *Ste. M.* iv. 305. — Oblong-ovate ; finely punctured ; head and thorax golden-green, very glossy ; elytra blue, or green, sometimes coppery, delicately punctate-striate, the striæ, especially towards the suture, irregular ; legs and base of the antennæ testaceous, apex of the latter and hinder thighs black. (L. 1½-2 l.) Willows ; near London and Bristol.

2304 Helxines *L.* ii. 594. — *Pz. F.* xxi. f. 6. — *Ste. M.* iv. 305. — Ovate, deeply punctured ; brassy-green ; thorax golden-green, brassy, or copper, very glossy ; elytra regularly and deeply punctate-striate, interstices smooth, bright green, blue, brassy, or coppery, sometimes concolorous with the thorax, at others discolorous ; legs and antennæ testaceous-yellow ; hinder thighs occasionally with a brown cloud. (L. 1½-2 l.)

Var. ? Ch. fulvicornis *Fab. E.* ii. 447. — *Ste. M.* iv. 306. — Above entirely

of a brilliant red-copper; legs and antennæ bright testaceous-yellow. On willows and poplars: London and Edinburgh districts; Bottisham; Lincolnshire; S. Wales: 4-6.

2305 pulchella *Ste. M.* v. 423. — Ovate; head and thorax of a golden-copper, thickly punctured; elytra golden-green, very deeply punctate-striate; antennæ at the base, and the legs, yellowish-red. (L. 2 l.) London district: 6.

2306 cyanea *Marsh.* i. 196. — *Ste. M.* iv. 306. — Ovate; glossy; head and thorax greenish-blue, minutely punctured; elytra deep blue or violet, rather deeply and regularly punctate-striate; beneath black; legs testaceous, hinder thighs black; antennæ testaceous. (L. 1¼-2 l.)

Var.? Ha. gaudens *Kirby.* — *Ste. M.* iv. 306. — Blue, with the antennæ and legs entirely yellow. London district and Suffolk: 6.

* * *Elytra* with scattered punctures, not striate: — GRAPTODERA *Chevrolat.*

2307 Oleracea *L.* ii. 593. — *Pz. F.* xxi. f. 1. — *Ste. M.* iv. 306. — Oblong-ovate, convex; blue-green; thorax with a long dorsal channel; finely punctured; elytra green, or bluish; sometimes dusky or tinted with brassy; thickly punctured; legs bluish, hinder thighs with a groove beneath; tarsi brown; antennæ black. (L. 1½-2 l.) On the cotyledons of plants: London and Edinburgh districts, common; Bottisham; Swansea: 5-9.

2308 indigacea *Ill. M.* vi. 114. — *Ste. M.* iv. 307. — Oblong-ovate; blue-black, above deep-purple and shining; thorax with a short dorsal channel; elytra finely punctulated; antennæ black. (L. 3 l.) In gardens, &c.: London district and Devon: 6.

2309 Erucæ *Fab. E.* i. 497. — *Pz. F.* xxi. f. 2. — *Ste. M.* iv. 307. — Oblong-ovate; above glabrous; shining blue; elytra obsoletely punctured; body beneath, greenish-blue; legs violaceous; antennæ black. (L. 2¼-2½ l.) Gardens, hedges, &c.: London and Edinburgh districts; New Forest, Swansea: 6-7.

481 THYAMIS *Stephens.*

2310 4-punctulata *Ill. M.* vi. 168. — *Pz. F.* lxxxviii. f. 2. *Ste. M.* iv. 308. Ovate; black, obscurely punctured; glossy: elytra with 2 large testaceous spots, 1 basal, the 2d at the tip; legs testaceous-red, hinder thighs black; antennæ fuscous, testaceous at base. (L. 1¾ l.) On Cynoglopeus officinalis: Hertford; Suffolk: 6.

2311 Verbasci *Marsh.* i. 200. — *Ent. H.* ii. pl. 3. f. 8. *b.* — *Ste. M.* iv. 308. — Ovate, convex; above pale griseous, shining; forehead with a faint ridge; thorax very glossy: elytra finely punctured, pale, spotless; body beneath pitchy-black; legs pale, hinder thighs obscure dull red, the upper surface and tip brownish. (L. 2. l.) On Verbascum Thapsus: Tewin, Herts; Norfolk; Suffolk: 8-10.

2312 Thapsi *Marsh.* i. 202. — *Ste. M.* iv. 308. — Ovate, convex; fuscous, thorax pale griseous; elytra pale, impunctate, suture black; breast, abdomen, and hinder thighs, pitchy-black; tibiæ and tarsi brownish; antennæ entirely dusky-black. (L. 2. l.) On Verbascum Thapsus: Norfolk; Suffolk; Swansea: 8-10.

2313 tabida *Fab. E.* i. 467. — *Pz. F.* xxi. f. 15. — *Ste. M.* iv. 308. — Oblong-ovate, shining, convex; pale-yellowish; mouth, eyes, and tip of the antennæ dusky, or blackish; elytra broad, pale yellowish, spotless, thickly but very finely punctulated; legs entirely pale testaceous. (L. 1¼-1½ l.) On Senecio Jacobæa, &c.: London and Edinburgh districts; Southend; Bristol; Kent; S. Wales; Cramond: 6-10.

2314 flavicornis *Kirby.* — *Ste. M.* iv. 309. — Oblong-ovate; testaceous-

yellow, faintly punctured; elytra slightly convex, spotless; legs red, antennæ pale: eyes black. (L. 1½ l.) Hedges: London district and Suffolk: 6-8.

2315 atricilla *L.* ii. 594. — *Ste. M.* iv. 309. — Oblong-ovate, convex; pitchy-black, thickly punctate; head and thorax with a brassy tinge; the latter a little compressed in front; elytra griseo-testaceous, rather deeply punctured, the suture more or less dusky or black; legs testaceous; hinder thighs pitchy-black; antennæ pale at the base. (L. ¾-1 l.) Hedges: London and Edinburgh districts; York; S. Wales: 6-8.

2316 piciceps *Ste. M.* iv. 309. — Rather oblong-ovate, slightly convex; pale testaceous, thickly punctured: head pitchy-black; thorax reddish; elytra testaceous, suture broadly black; hinder thighs pitchy-black, rest of the legs and base of antennæ testaceous yellow, apex of the latter black. (L. 1¼ l.) Hedges: London district: 6-7.

2317 femoralis *Marsh.* i. 201. — *Ste. M.* iv. 309. — Oblong-ovate, very finely punctured; head and thorax dull red; elytra pale, suture dusky red; 4 anterior legs and base of the antennæ pale, apex of the latter smooth; eyes, breast, abdomen and tip of the hinder thighs black. (L. ¾-1 l.) Hedges: London district; Bottisham, Suffolk; York; S. Wales, &c.: 5-10.

2318 confinis *Kirby.* — *Ste. M.* iv. 310. — Ovate, convex, black; thorax rather glossy and smooth, rusty-red; elytra testaceous, finely and rather thickly punctured, the suture entirely fuscous black; antennæ at the base and the tibiæ pale. (L. 1¼ l.) Hedges: London district; Bristol; Rachills: 6-8.

2319 atriceps *Ste. M.* iv. 310. — Ovate, convex; head fuscous; thorax faintly punctured, livid yellow; elytra pale, finely punctured, the suture concolorous; legs testaceous; antennæ livid. (L. ¾ l.) Hedges: London district; York; Swansea: 6-8.

2320 lutescens *Gyll.* iii. 546. — *Ste. M.* iv. 310. — Ovate, rather convex; testaceous-yellow; very finely punctured: head 2-tuberculate; thorax yellowish, slightly glossy; elytra a little acuminated at the tip, with a short waved black streak on the suture in the middle; mouth, eyes, breast and abdomen, and also the tips of the hinder thighs and of the antennæ, black. (L. ¾ l.) Hedges: London district; Bristol; Derby; Swansea: 6-7.

2321 ochroleuca *Marsh.* i. 202. — *Ste. M.* iv. 311. — Ovate, slightly convex and punctulated; very pale; head and thorax yellowish, the latter smooth; elytra finely punctured; mouth, eyes, tip of hinder thighs and of antennæ black; rest of the legs and base of antennæ pale yellowish; breast brown; abdomen pale: forehead with a ridge. (L. 1 l.) Among turnips: London and Edinburgh districts; Bottisham; S. Wales: 6-7.

2322 suturalis *Marsh.* i. 201. — *Ste. M.* iv. 311. — Ovate, slightly convex; punctulated; shining black: thorax with a brassy tinge, finely punctured; elytra livid-testaceous, the outer margin and a slender line in the suture black; 4 anterior legs pale; hinder thighs red, black at the tip, their tibiæ, tarsi, and base of antennæ reddish. (L. 1 l.) Grassy places: London district; S. Wales; Rachills: 6-7.

2323 Nasturtii *Fab. E.* i. 465. — *Ste. M.* iv. 311. — Ha. pratensis *b. Ent. H.* ii. pl. 3. f. 9. — Ovate, moderately convex; pitchy-black, shining; head slightly brassy, and with a frontal ridge; thorax small, glossy black; elytra broad, testaceous, the outer edge and suture more or less broadly dusky-black; disc much punctulate; 4 anterior thighs pitchy-black, their tibiæ and tarsi testaceous, hinder pair black, tibiæ fuscous, tarsi and base of antennæ testaceous. (L. 1 l.) Grassy places: London district: 6-8.

2324 thoracica *Kirby.* — *Ste. M.* iv. 312. — Ovate, slightly convex, deep

black, shining; thorax punctate; elytra testaceous, remotely punctate, outer margin and suture black; thighs black; tibiæ, tarsi, and base of antennæ pale. (L. 1 l.) Hedges: London district; Norfolk; Suffolk: 6-7.

2325 fuscicollis *Kirby*. — *Ste. M.* iv. 312. — Ovate, fuscous, shining; thorax finely punctate, brown-brass; elytra wide, obscurely punctured, pale luteo-testaceous, the suture black in the middle; legs testaceous, hinder thighs black; antennæ pale, the tip fuscous. (L. 1 l.) Hedges: London district; Bristol; Suffolk: 6-9.

2326 dimidiata *Ste. M.* v. 423. — Ovate, convex; head and thorax deep black, shining; elytra very pale, faintly punctulated; legs and antennæ testaceous-yellow. (L. 1¼ l.) Hedges: London district: 6-7.

2327 Ballotæ *Marsh.* i. 205. — *Ste. M.* iv. 312. — Ovate, slightly convex, very finely punctured, testaceous, head black; thorax reddish-testaceous; elytra pale testaceous, faintly punctured; suture slightly reddish; legs testaceous; thighs testaceous at base: antennæ long. (L. 1 l.) On Ballota nigra: London district; Suffolk; Norfolk; S. Wales: 6-8.

2328 pratensis *Pz. F.* xxi. f. 16. — *Ste. M.* iv. 312. — Ovate, convex, black, finely and thickly punctured; head black, or testaceous; thorax pale testaceous, the front edge sometimes black; elytra rather obsoletely punctured, pale, rounded on the shoulders and apex; legs and antennæ at the base pale, hinder thighs sometimes dusky at tip. (L. ¾-1 l.) Hedges: London district; Bristol: 6.

2329 pallens *Kirby*. — *Ste. M.* iv. 313. — Ovate; convex, very delicately punctured; pale testaceous; eyes black; tip of antennæ brownish; elytra distinctly and obscurely punctured; middle of the breast and base of abdomen fuscous; legs pale testaceous. (L. ¾ l.) Hedges: London district; Raehills: 6-8.

2330 abdominalis *Megerle*. — *Duft. F. A.* iii. 262. — *Ste. M.* iv. 313. — Ovate, convex, very finely punctured; pale yellow; head and thorax very slightly reddish; elytra pale, spotless; eyes, breast, and abdomen black; legs pale; hinder thighs slightly dusky; antennæ brownish, the base pale. (L. ⅝ l.) Hedges: Ripley: 7.

2331 pusilla *Gyll.* iii. 549. — *Ste. M.* iv. 313. — Ovate; convex; pitchy black; forehead with a ridge: thorax pitchy-red, the lateral and hinder margins brownish; elytra very convex, pale testaceous, slightly shining, spotless, faintly punctured; legs testaceous; hinder thighs more or less fuscous or black at the tip; antennæ fuscous, the base pale. (L. ¾ l.) Hedges: London district; Bristol; Suffolk: 6-7.

2332 collaris *Ste. M.* iv. 313. — Ovate, convex, finely and deeply punctate; pitchy-red, or rusty-piceous; thorax glossy, rather coarsely punctured; elytra pale reddish testaceous; breast and abdomen densely black; legs and antennæ wholly pale testaceous; eyes black. (L. ¾ l.) Hedges: Ripley and other parts of London district: 6-7.

2333 lurida *Gyll.* iii. 537. — *Ste. M.* iv. 314. — Ovate, convex; pitchy-black; head and thorax finely punctured; elytra brown or dull-red, thickly and deeply punctured, the apex of each rounded; legs livid testaceous; hinder thighs more or less dusky at tip; antennæ livid testaceous, the tip black. (L. ¾-1 l.) Grassy places: London and Edinburgh districts; Bristol; Devon; Swansea; Cramond: 6-7.

2334 castanea *Megerle*. — *Duft. F. A.* iii. 260. — *Ste. M.* iv. 314. — Ovate, convex; chestnut-brown shining; rather thickly punctured; eyes black; antennæ entirely and legs testaceous-yellow; tip of hinder thighs brownish. (L. 1 l.) Hedges: London district; Bristol: 6-7.

2335 brunnea *Duft. F. A.* iii. 260.? — *Ste. M.* iv. 314. — Ovate, convex, punctured; chestnut-brown; mouth black; elytra rather coarsely punc-

tured; base of antennæ and legs dull-red, apex of the former brownish, and of the hinder thighs black. (L. 1 l.) Hedges: London district: 6.

2336 lævis *Duft. F. A.* iii. 261. — *Ste. M.* iv. 314. — Ovate, convex, smooth; pale testaceous-yellow; head and thorax obscure, obsoletely punctured; elytra very convex; legs pale testaceous-yellow, hinder thighs darker; base of antennæ pale, tip brownish. (L. 1 l.) Hedges: London district; Norfolk: 6-7.

2337 fuscescens *Kirby.* — *Ste. M.* iv. 315. — Ovate, convex, thickly punctate, livid testaceous, shining, obscure beneath; thorax sometimes reddish; elytra brownish; 4 anterior legs, hinder tibiæ and tarsi, and base of antennæ pale livid testaceous; hinder thighs and tip of antennæ dusky. (L. 1 l.) Hedges: London district; Swansea; Raehills: 6-7.

2338 nigricans *Kirby.* — *Ste. M.* iv. 315. — Ovate, dusky-piceous, slightly shining; finely punctured; thorax rather glossy; elytra with the dorsal punctures coarse, disc and apex deep pitchy-black; legs and antennæ entirely pale testaceous. (L. ¾-1 l.) Hedges; on Ballota nigra, &c.: London district; Bristol; Suffolk; S. Wales; Raehills: 6-8.

2339 læta *Kirby.* — *Ste. M.* iv. 315. — Oblong-ovate, deep pitchy; slightly shining; thorax somewhat reddish, glossy; elytra thickly and rather coarsely punctured, the tip pitchy; antennæ, tibiæ, and tarsi red; hinder thighs pitchy. (L. 1 l.) Hedges: London district; Suffolk; Weston, Oxon: 6.

2340 atricornis *Ste. M.* v. 423. — Ovate; deep black; rather glossy; elytra pitchy, very obscurely punctured; legs and antennæ deep black. (L. 1 l.) Hedges: London district: 6.

2341 dorsalis *Fab. E.* i. 465. — *Ent. H.* ii. pl. 3. f. 7. — *Ste. M.* iv. 315. — Oblong: head black; thorax transverse, somewhat orbiculate, pale testaceous; elytra black, punctured, the entire margin broadly testaceous; legs black; antennæ pitchy, base dull testaceous. (L. 1-1½ l.) Sandy hedges: Bexley; Darenth; Southend: 6-7.

2342 Anchusæ *Pk. F.* ii. 101. — *Ste. M.* iv. 316. — Ovate, convex; black, rather shining; head and thorax finely punctured; elytra shortish, thickly and coarsely punctured, apex of each rounded and gaping; thighs black, tip of the anterior, with the tibiæ and tarsi, pale testaceous; antennæ black, the basal joint brownish, the 4 or 5 following pale. (L. 1 l.) Hedges: London district; Bristol: 6-7.

2343 convexa *Ste. M.* v. 423. — Somewhat globose-convex; deep glossy-black; elytra very delicately punctulated; antennæ, tibiæ, and tarsi, pale testaceous. (L. ¾ l.) Hedges: London district: 6-7.

2344 parvula *Ent. H.* ii. 59. — *Ste. M.* iv. 316. — Ovate; black; above pitchy-black, or pale piceous, very faintly punctured; rather glossy; elytra more distinctly punctured, moderately convex; legs and base of antennæ pale griseous; hinder thighs and tip of the antennæ brownish. (L. ½-¾ l.) Hedges: London district: 6.

2345 Pulex *Marsh.* i. 204. — *Ste. M.* iv. 316. — Oblong-ovate; deep black, glossy; finely and irregularly punctulate; antennæ and tibiæ red; thighs black. (L. 1-1¼ l.) Grassy places: London district; S. Wales: 6-7.

2346 hilaris *Kirby.* — *Ste. M.* iv. 316. — Somewhat oblong-ovate; very black, shining, and glabrous; thorax moderately convex and very faintly punctulate; elytra obtuse at the apex, very glossy, finely punctured throughout, the apex concolorous; antennæ and legs entirely pale testaceous. (L. 1 l.) Hedges: London district; Suffolk; Norfolk; Raehills: 6-7.

2347 Holsatica *L.* ii. 595. — *Oliv. E.* vi. 85. pl. 5. f. 74. — *Ste. M.* iv. 317. —

Ovate, convex; black; shining; thickly punctured; thorax nearly convex; elytra coarsely punctured, each with a round red spot near the apex, nearly extending to the apex itself; thighs black, tip of anterior sometimes, with their tibiæ and tarsi reddish, posterior piceous; antennæ red at the base. (L. 1 l.) Marshy places, on Pedicularis lacustris: London district; S. Wales; Newcastle; Raehills: 6-7.

482 MANTURA *Stephens.*

2348 rustica *L.* ii. 595. — *Ste. M.* iv. 322. — Black, shining; thorax small, obsoletely punctured, the base with a short furrow on each side; elytra faintly punctate-striate, the apex pitchy-testaceous; legs testaceous; hinder thighs dusky; antennæ piceous. (L. 1¼ l.) Hedges: Hertford; Epping: 6.

2349 semiænea *Fab. E.* i. 448. — *Ste. M.* iv. 323. — Very convex; mouth pitchy; thorax greenish-brass, faintly punctured; with a short oblique furrow on each side of the base; elytra regularly punctate-striate, interstices smooth, dull blue, the apex more or less dull red, sometimes ferruginous, with the suture and base alone blue; legs testaceous; hinder thighs large and greenish-black; antennæ black, base dull red. (L. 1-1½ l.) In marshy places: Ripley; Bristol; S. Wales; Norfolk: 6-7.

2350 Mannerheimii *Gyll.* iv. 664. — *Ste. M.* iv. 323. — Greenish-blue; mouth black; thorax thickly and faintly punctured; the base with an obscure fovea in each side; elytra shining blue, punctate-striate on the outer margin and on the apex, the back irregularly punctate; thighs blue-black; tibiæ and tarsi dull testaceous; antennæ black, the basal joint palish. (L. 1-1¾ l.) Hedges: London district; Suffolk: 6.

2351 obtusata *Gyll.* iii. 379. — *Ste. M.* iv. 323. — Blue-black; forehead with a transverse channel; thorax thickly and finely punctured, the base with a very short oblique furrow; elytra deep blue, regularly and densely punctate-striate; interstices smooth; apex obscure; tibiæ and tarsi dull-red; 4 anterior thighs pitchy-black, hinder pair blue; antennæ black, the 4 basal joints dull-red. (L. 1 l.) Hedges: London district; Norfolk; Bristol: 6.

2352 Chrysanthemi *Ent. H.* ii. 45. — *Ste. M.* iv. 324. — Very convex; brown brass; slightly shining; forehead with an obscure channel; thorax very thickly and finely punctulate, with a short furrow on each side of the base; elytra regularly and rather deeply punctate-striate; interstices smooth; apex indeterminately brassy-testaceous; legs dull-red, hinder thighs darker and tinted with brassy; antennæ testaceous, the tip dusky. (L. ¾-1 l.) Hedges: London district; Bristol; Raehills: 6.

2353 ænea *Marsham.* — *Ste. M.* iv. 324. — Above brassy; head and thorax deeply punctured; the base of the latter with a faint furrow on each side; elytra moderately punctate-striate, interstices obscurely punctured; antennæ and legs ferruginous; hinder thighs slightly tinted with brassy. (L. 1 l.) London district: 6.

483 MACROCNEMA *Megerle.*

§ A. *Elytra* punctate-striate.

2354 Dulcamaræ *Ent. H.* ii. 49. pl. 2. f. 5. — *Ste. M.* iv. 318. — Obovate, rounded behind, deep blue black, shining: crown greenish, with a semicircular impression: thorax thickly punctured on the margin, the disc scarcely punctured; elytra broad, flattish, faintly and regularly punctate-striate, interstices faintly punctured; legs black, hinder thighs blue, glossy; antennæ red at the base. (L. 1¼ l.) London district: 6.

2355 chalcomera *Ill. M.* vi. 75. — *Ste. M.* iv. 318. — Short, ovate, above blue, beneath brassy; thorax sparingly punctate; elytra moderately punctate-striate, interstices punctured; abdomen coarsely punctured beneath; base of antennæ and the tibiæ fuscous; thighs brassy. (L. 1¾ l.) London district; Ripley: 6.

2356 Hyoscyami *L.* ii. 594. — *Mart. C.* pl. 14. f. 15.? — *Ste. M.* iv. 318. — Obovate, attenuated behind; brassy-black; above greenish; thorax finely and thickly punctured; elytra regularly punctate-striate; interstices distinctly punctured; 4 anterior legs, hinder tibiæ and tarsi and base of antennæ tawny-testaceous; hinder thighs brassy-black. (L. 1¾-2 l.) Gardens: London district: 6.

2357 Napi *Gyll.* iii. 567. — *Ste. M.* iv. 318. — Ovate, slightly narrowed behind; black: above blue-black; thorax obscurely but thickly punctured; elytra regularly punctate-striate, interstices very obsoletely punctured; legs pale testaceous, hinder thighs blue-black; antennæ fuscous, the base testaceous beneath. (L. 1½-1¾ l.) Gardens, &c.: London and Edinburgh districts; S. Wales: 6.

2358 unimaculata *Cur.* xi. pl. 486. — *Ste. M.* v. 424. — Oblong-ovate; blue or greenish: thorax finely punctured, and with some larger impressions; elytra punctate-striate, interstices minutely punctured; legs bright ochreous; hinder thighs brassy-black, with the tip and a round spot at the base within dull red, the other thighs somewhat brassy at the base; antennæ with the 3 basal joints dull red. (L. 1½-2 l.) Hedges: London district; Whittlesea Mere; Isle of Wight: 6-7.

2359 Rapæ *Ill. M.* vi. 174. — *Ste. M.* iv. 319. — Oblong-ovate; deep-blue, darker beneath; thorax moderately punctured; elytra punctate-striate, interstices impunctate; 4 anterior legs, and the hinder tibiæ and tarsi, testaceous; hinder thighs black, red at the base; antennæ fuscous, the base testaceous. (L. 1¾ l.) Gardens: London district: 6.

2360 chrysocephala *L.* ii. 594. — *Ent. H.* ii. pl. 2. f. 8. — *Ste. M.* iv. 319. — Obovate, narrowed behind; blue-black, pitchy beneath; head testaceous-red; elytra regularly punctate-striate, interstices obsoletely regulose; 4 anterior legs and hinder tibiæ and tarsi testaceous-red; hinder thighs bluish-black; antennæ fuscous, base red. (L. 1½-2 l.) Gardens, &c.; London district; S. Wales: 6.

2361 rufilabris *Ent. H.* ii. pl. 2. f. 9. — *Ste. M.* iv. 319. — Oblong-ovate; black; above brassy; thorax finely punctured; elytra punctate-striate, interstices obsoletely punctate; mouth, antennæ, 4 anterior legs, and the hinder tibiæ and tarsi tawny-testaceous; hinder thighs black, with the extreme tip testaceous. (L. 1¼ l.) Gardens, &c.: London district: 6.

2362 brunnipes *Megerle.* — *Duft. F. A.* iii. 280. — *Ste. M.* iv. 320. — Obovate, head and thorax punctate, brassy; elytra deep-blue, punctate-striate; 6 anterior legs, and hinder tibiæ and tarsi, brown; hinder thighs brassy; base of antennæ pale brown, tip black. (L. 1¼-1½ l.) Near Dover and Bottisham: 6.

2363 nigricollis *Marsh.* i. 205. — *Ste. M.* iv. 320. — Oblong-ovate; head reddish; thorax brassy-black, shining; elytra pale luteo-testaceous, punctate-striate: abdomen black; legs red, tip of hinder thighs and of antennæ black, base of latter red. (L. 1½-1¾ l.)

Var. Ha. sordida *Kirby.* — *Ste. M.* iv. 320. — Very pale testaceous; thorax deep shining black or pitchy; abdomen, legs, and antennæ pale; tip of latter fuscous. Gardens, &c.: London district and Suffolk: 6.

2364 marcida *Ill. M.* vi. 175. — *Ste. M.* iv. 320. — Ovate; testaceous: thorax punctured, with a metallic gloss; elytra punctate-striate; legs pale, hinder thighs dusky, the apex brassy; hinder tibiæ broad at the

apex, with a small tooth in the middle of the outer margin. (L. 1½ l.) London district; Southend: 4-7.

2365 picicornis *Kirby.* — *Ste. M.* iv. 321. — Ovate, pitchy-brass; thickly punctured; elytra faintly punctate-striate, interstices thickly punctured; thighs pitchy-brass, the 4 anterior with the tips, and all the tibiæ and tarsi, testaceous; antennæ pitchy, the base reddish. (L. 1¼-1¾ l.) Gardens: London district; Southend; Suffolk: 6-7.

2366 apicalis *Ste. M.* iv. 321. — Ovate, convex; brassy-black, shining; elytra finely punctate-striate, the tip pitchy; antennæ entirely and legs pale testaceous-yellow, the hinder thighs black. (L. 1½ l.) London district: 6.

2367 exoleta *L.* ii. 594.? — *Ste. M.* iv. 321. — Ovate, testaceous; head black or pitchy; thorax very convex; elytra punctate-striate, the suture more or less dusky or black; abdomen black; legs testaceous; hinder thighs large, the lower margin obtusely angulated, the tip more or less black, or dusky; antennæ pale, the apex dusky. (L. 1-1½ l.) Grassy places: London district; Bottisham; Weston: ⊙.

2368 pallida *Zeigler*? — *Ill. M.* vi. 176. — *Ste. M.* iv. 321. — Ovate; testaceous; head reddish; eyes black; thorax very convex; elytra punctate-striate, pale, the suture concolorous; abdomen brownish at the base; legs pale; tip of hinder thighs brownish. (L. 1-1¼ l.) Hedges: London district; Southend: 5-6.

2369 picina *Marsh.* i. 206. — *Ste. M.* iv. 322. — Ovate, shining pitchy, tinged with brass; thorax very finely punctured, with some larger impression near the basal angles, and a depression opposite the scutellum; elytra rather deeply punctate-striate; mouth, antennæ, and legs tawny-red; hinder thighs pitchy. (L. 1-1¼ l.) Hedges: London district; Norfolk; Suffolk; Weston; Yorkshire: 6.

§ B. *Elytra* punctate, not striate.

2370 Echii *Ent. H.* ii. 52. pl. 3. f. 3. — *Ste. M.* iv. 424. — Oval; greenish; elytra narrowed behind and rounded; shorter than the abdomen, disc irregularly punctured; tibiæ, tarsi, and antennæ at the base red. (L. 1¾ l.) On Echium vulgare: Bristol: 6.

484 Dibolia *Latreille.*

2371 Cynoglossi *Ent. H.* ii. 20. pl. 1. f. 2. — *Ste. M.* iv. 325. — Oblong-ovate; greenish-brass; punctured; the punctures on the elytra rather coarse and disposed in striæ; 4 anterior legs dull testaceous, hinder thighs greenish-brass; hinder tibiæ brownish, their base and appendages, and the tarsi, paler; antennæ fuscous, with the base reddish. (L. 1½ l.) On Cynoglossum officinale; Bristol: 6.

2372 occultans *Ent. H.* ii. 23. pl. 2. f. 4. — *Ste. M.* iv. 325. — Oblong ovate; black, above bluish or brassy, shining; thorax thickly punctured; elytra coarsely punctate-striate; legs black, tarsi pitchy; hinder thighs bluish; antennæ dusky, the base reddish. (L. 1¼ l.) Hedges: London district: 6.

485 Cardiapus *Curtis.*

2373 Mathewsii *Cur.* x. pl. 435. — *Ste. M.* iv. 424. — Above deep blue or green, very glossy; head, sides, and hinder portions of the thorax, minutely punctured; elytra deeply punctate-striate; legs rather tawny; thighs and antennæ black, tip of the basal and of the 3 following joints of the latter tawny. (L. 1-1¼ l.)

Var. Ca. Helianthemi *Cur. Gu.* 2 ed. col. 76. — Blue-green; thighs brassy-green, tibiæ and base of antennæ tawny. On Helianthemum vulgare;

Devil's Ditch, Cambridge; Ockbrook, Derbyshire; Windsor and in Kent: 6-7.

486 Chætocnema *Stephens.*

2374 aridella *Ent. H.* ii. 41. pl. 3. f. 2. — *Ste. M.* iv. 326. — Oblong-ovate; dull brassy; head rather deeply punctured; thorax the same, transverse; elytra somewhat regularly and deeply punctate-striate; legs testaceous, apex of the tibiæ fuscous, thighs blackish-brass; antennæ testaceous at the base. (L. ¾-1 l.) Hedges: London district; Bristol: 6.

2375 Sahlbergii *Gyll.* iv. 662. — *Ste. M.* iv. 326. — Oblong-ovate; greenish-blue; head and thorax deeply punctured, the latter very slightly elongated, shining, and globose; elytra punctate-striate, the striæ for the most part regular; tibiæ and tarsi dull red; thighs brassy; antennæ black, the lower joints dull red at the base. (L. 1 l.) Hedges: Ripley: 6.

2376 aridula *Gyll.* iv. 663. — *Ste. M.* iv. 326. — Oval; dull brassy; head and thorax very finely punctured, the former a little elongate; elytra striated, the striæ composed of punctures very irregularly disposed on the back, and the lateral ones rugulose; legs short, dull red; thighs brassy, tibiæ dusky at base; antennæ black, the 3 basal joints dull red, the basal one with a black line above, and the second with a black dot. (L. ¾-1 l.) Hedges: London district: 6.

2377 concinna *Marsh.* i. 196. — *Ste. M.* iv. 327. — Ha. dentipes *Ent. H.* ii. pl. 3. f. 1. — Oval; slightly convex; black, above greenish-brass; thorax thickly and moderately punctate, and with an obscure fovea on each side at the base; elytra rather deeply and regularly punctate-striate, interstices flat and smooth; legs dull red, thighs black, hinder brassy; antennæ dull red at base. (L. ¾-1¼ l.) Hedges, &c.: generally distributed: ⊙.

2378 picipes *Kirby.* — *Ste. M.* iv. 327. — Oval; slightly convex; entirely black, or violet; thorax finely punctured; elytra rather moderately punctate-striate, interstices faintly punctulate; tibiæ and tarsi pitchy; antennæ dusky, base pitchy. (L. 1 l.) Hedges: London district; Bottisham: 6.

2379 saltitans *Kirby.* — *Ste. M.* iv. 327. — Oval; pitchy-black; 4 anterior legs and hinder tibiæ testaceous-red; elytra faintly punctate-striate. (L. 1 l.) Hedges: Suffolk and London districts: 6.

487 Sphæroderma *Stephens.*

§ A. *Thorax* without a transverse furrow. 1. *Elytra* punctate.

2380 testaceum *Fab. E.* i. 448. — *Pz. F.* xxi. f. 13. — *Ste. M.* iv. 328. — Somewhat orbiculate, gibbous; shining testaceous-red, glabrous; obsoletely punctured; eyes large, black; thorax notched in front, waved behind; legs and antennæ pale testaceous. (L. 1¼-1½ l.) On thistles: generally distributed: 5-7.

2381 Cardui *Kirby.* — *Ste. M.* iv. 328. — Somewhat ovate, convex, shining testaceous-red, glabrous; eyes black; thorax moderately convex, distinctly punctate; elytra also distinctly punctured, the punctures somewhat disposed in striæ; legs and antennæ pale testaceous. (L. 1¾-2¼ l.)

Var. Ha. Centaurea *Kirby.* — *Ste. M.* iv. 329. — Somewhat orbiculate; gibbous, pale testaceous-red, shining; rather deeply punctured throughout. Thistles: London district; Suffolk; Weston; Bottisham; S. Wales: 6-7.

2. *Elytra* punctate-striate: — Apteropeda *Chevrolat.*

2382 orbiculatum *Marsh.* i. 200. — *Ste. M.* iv. 329. — Ovate-hemispheric; head and thorax very thickly punctured, greenish-brass, or violet; elytra

the same, distinctly punctate-striate; body brassy-black beneath; legs rusty-red, hinder thighs greenish-brass, or violet; antennæ red. (L. 1-1½ l.) Grassy places: Coombe and Darenth woods, &c.; Weston; S. Wales; Raehills: 4-8.

2383 globosum *Pz. F.* xxv. f. 13. — *Ste. M.* iv. 329. — Somewhat hemispheric; black, shining; head and thorax finely punctured; elytra faintly punctate-striate; legs pitchy-red, hinder thighs black; antennæ pale pitchy-red. (L. 1½ l.) Grassy places: London district: 6.

§ B. *Thorax* with a transverse furrow.

2384 Mercurialis *Hellwig.* — *Ill. M.* vi. 117. — *Ste. M.* iv. 330. — Oval-hemispheric; shining black; above deep blue, and very finely punctured; thoracic furrow terminating at each end in a fovea; legs black, hinder thighs bluish; antennæ pitchy-red at the base. (L. ¾-1¼ l.) On Mercurialis perennis: Darenth Wood; Hertford; Bristol; S. Wales: 6.

488 MNIOPHILA *Stephens.*

2385 Muscorum *Ent. H.* ii. 48. pl. 2. f. 12. — *Ste. M.* iv. 330. — Ovate-globose; deep shining brassy-black; elytra punctate, punctures somewhat disposed in striæ and not very deep; legs and antennæ entirely red. (L. ½-¾ l.) In moss: London district, at Birch Wood and Highgate: 10-7.

Fam. 58. CHRYSOMELIDÆ *Leach.*

(ccccclxxxix. COLASPIS *Head* vertical, retracted: *ant.* nearly as long as the body, somewhat filiform, being slightly thickened at the apex: *palpi* filiform: *body* ovate: *legs* moderate.)

ccccxc. EUMOLPUS *Head* vertical, retracted: *ant.* nearly as long as the body, thickened at the tips: *palpi* with the apex incrassate: *eyes* prominent: *tho.* narrower than the elytra, gibbous: *body* elongate-ovate: *legs* longish.

ccccxci. CRYPTOCEPHALUS *Head* small, vertical, retracted: *ant.* as long as the body, filiform, simple: *tho.* globose, nearly as wide as the *elytra*, the latter not covering the apex of the abdomen: *body* short, cylindric: *legs* short.

ccccxcii. CLYTHRA *Head* vertical, deeply retracted: *ant.* very short, serrated: *palpi* thickened in the middle: *tho.* transverse, margined: *body* oblong-cylindric: *legs* short, anterior sometimes elongate in the ♂.

ccccxciii. MELASOMA *Head* exserted; small: *ant.* short, somewhat clavate and compressed: *palpi* filiform, truncate: *tho.* transverse, much narrower than the *elytra*, the latter ample: *wings* 2.

ccccxciv. TIMARCHA *Head* exserted, small: *ant.* moderate, moniliform: *palpi* long, terminal joint somewhat hatchet-shaped: *elytra* soldered together: *body* nearly hemispheric: *wings* 0.

ccccxcv. CHRYSOMELA *Head* exserted: *ant.* shortish, gradually thickening to the apex: *palpi* somewhat hatchet-shaped: *tho.* transverse, nearly as wide at the base as the elytra: *body* very convex: *wings* 2.

ccccxcvi. HELODES *Head* exserted, narrowed in front: *ant.* scarcely longer than the *tho.*, the latter 4-drate, slightly notched in front: *palpi* thickened in the middle: *body* elongate, somewhat linear, flattish: *legs* very short: *wings* 2.

ccccxcvii. PHÆDON *Head* exserted, small: *ant.* moderate, thickened at the apex: *palpi* filiform, apex acute or obtuse, not truncate: *tho.* transverse: *body* oblong-ovate, or somewhat hemispheric: *wings* 2.

(489 COLASPIS *Fabricius.*)

(2386 † flavicornis *Fab. E.* i. 412. — *Ste. M.* iv. 364. note. — Brassy-green; punctate; beneath brassy-black; antennæ and legs yellow; elytra

rather punctate-striate. (L. 2½ l.) Erroneously recorded in the British list.)

490 EUMOLPUS *Fabricius.*

§ A. BROMIUS *Chevrolat.*

(2387 ‡ Vitis *Fab. E.* i. 422. — *Pz. F.* lxxxix. f. 12. — *Ste. M.* iv. 363. note. — Black; pubescent; punctured; the base of the antennæ, sometimes the tibiæ, the middle of the thighs, and the elytra, bright-red-brown; forehead with a channel, and the elytra obscurely striated. (L. 3 l.) Improperly indicated as British.)

2388 ‡ obscurus *L.* ii. 599. — *Pz. F.* v. f. 12. — *Ste. M.* iv. 363. — Black, rather obscure; slightly pubescent; very thickly punctulated; thorax somewhat globose; elytra rather 4-drate, with a transverse impression, shoulders elevated; antennæ dull red at the base. (L. 3 l.) Said to be found in Lincolnshire: 6.

§ B. EUMOLPUS *pr.* ?

2389 Dillwynii *Ste. M.* iv. 364. pl. xxiii. f. 3. — Brassy copper, shining; thorax transversely wrinkled; elytra somewhat unequal, shoulders angular, the disc irregularly punctate-striate, interstices rather wrinkled; each elytra with 2 bronzed depressions; tarsi and tip of antennæ fuscous. (L. 2¼ l.) On a hedge bank, near Penllergare, between Tyrdonkin and Cefnadley, S. Wales: 7.

2390 † Badgeri *Waterhouse.* — *Ste. M.* iv. 408. — Brassy-black; above green, head and thorax delicately punctured; the latter very convex; elytra very coarsely and irregularly punctured throughout, especially near the shoulders, the lateral margins raised and of a golden hue; antennæ and legs pitchy-testaceous. (L. 2½ l.) Cambridgeshire: 6.

491 CRYPTOCEPHALUS *Geoffroy.*

§ A. *Tibiæ* compressed, dilated at the tip: — DISOPUS *Chevrolat.*

2391 Pini *L.* ii. 598. — *Pz. F.* xxxix. f. 17. — *Ste. M.* v. 425. — Testaceous; elytra paler; eyes and tip of the antennæ black; head and thorax very thickly punctulate; elytra rather coarsely punctured. (L. 2-2½ l.) On firs: Netley, Salop: 6.

§ B. *Tibiæ* simple, not compressed: — CRYPTOCEPHALUS *pr.*

1. *Elytra* with dispersed punctures.

2392 6-punctatus *Fab. E.* ii. 46. — *Pz. F.* lxviii. f. 7. — *Ste. M.* iv. 356. — Black; forehead with a luteous spot; thorax yellowish or testaceous, varied or spotted with black; elytra testaceous-red, margins black, the disc of each with 3 irregular black spots — of variable size; — thighs with a white dot towards the tip; base of the antennæ testaceous beneath. (L. 2½-3 l.) Hazel and birch: Darenth Wood and Raehills: 6.

2393 Coryli *Fab. E.* ii. 45. — *Don.* ix. pl. 321. f. 1. — *Ste. M.* iv. 356. — Cr. Vitis *Pz. F.* lxviii. f. 5. ♂. — Black; forehead with 2 yellow dots; elytra bright spotless red, rather coarsely punctured; basal joints of antennæ reddish: — ♂ with thorax black, ♀ thorax bright red. (L. 2½-3½ l.) Hazel: Darenth; Norfolk: 6.

2394 Histrio *Fab. E.* ii. 55. — *Oliv. E.* v. 96. pl. 3. f. 31. — *Ste. M.* iv. 356. — Black; thickly punctured; head yellow, crown and a frontal dash black; thorax and elytra varied with yellow; legs dull red, base of thighs and sometimes the outer edge black, apex with a yellowish spot; base of antennæ dull red. (L. 2-2½ l.) Rochford, Essex; Banks of Wye: 6.

2395 sericeus *L.* ii. 598. — *Don.* ix. pl. 321. f. 2. — *Ste. M.* iv. 357. —

Very glossy; silken-green, more or less tinted with gold, brass, or blue; thorax finely, and elytra roughly, punctured; abdomen with a slight impression on the anal segment in the ♂, and a deep one in the ♀; legs green; antennæ black. (L. 3-4 l.) On Hieracium, &c.: pretty generally distributed throughout the country: 6.

2396 similis *Leach.* — *Ste. M.* iv. 357. — Shining, green, tinted above with blue or brassy, obscure beneath; thorax finely, and elytra roughly punctured; abdomen with the anal segment entire in both sexes; legs brassy; antennæ brassy black. (L. 2½-3 l.) On Flowers: London district; Rochester; Chevening: 6.

2397 nitens *L.* ii. 598. — *Pz. F.* lxviii. f. 8. — *Ste. M.* iv. 358. — Above deep blue or green, shining; mouth and 1 or 2 adjoining spots yellow; thorax very smooth and glossy; elytra deeply punctured; antennæ yellow at the base; ♂ with 2 streaks on the crown and the 4 anterior legs yellow, hinder pair black; ♀ with all the legs yellow. (L. 2½ l.) Near London and in Devonshire: 6.

2. *Elytra* distinctly punctate-striate.

2398 bipustulatus *Fab. E.* ii. 54. — *Cur.* i. pl. 35. — *Ste. M.* iv. 358. — Black, shining; thorax smooth, very glossy; elytra moderately shining, the apex with a waved red spot; base of the antennæ pitchy. (L. 3-3½ l.) Heaths: near Lyndhurst: 6-7.

2399 Lineola *Fab. E.* ii. 44. — *Samou.* pl. 2. f. 15. — *Ste. M.* iv. 358. — Black, shining; thorax smooth, glossy; elytra red, with the margins and suture black, and a broad dash of the same on the disc; antennæ rather pitchy at the base. (L. 2½-3½ l.) On hazel, oak, &c.: London district; New Forest; Birchfield, Kent; Yorkshire; S. Wales; rare in Scotland: 6.

2400 nigripennis *Ste. M.* iv. 359. pl. xxiii. f. 5. — Cr. bothicus *Herbst. A.* 44. pl. 8. ? — Red, shining; crown; apex of antennæ, tarsi, elytra, and 2, 3-angular spots on the thorax, black. (L. 2½ l.) Rochford, Essex: 6.

2401 Moræi *L.* ii. 597. — *Pz. F.* lxviii. f. 11. ♀. — *Ste. M.* iv. 359. — Black; elytra with 2 testaceous-yellow marginal spots, varying in size: — ♂ with a cruciform mark on the head, and the anterior margin of the thorax yellow; a yellowish line on the anterior thighs; tibiæ pitchy; ♀ with the thorax spotless; head with 2 yellow spots. (L. 2-3 l.) On Hypericum perforatum: Coombe Wood; Colney Hatch; Swansea; Kimpton; Bath; Monk's Wood; Devil's Ditch; Castle Eden Dean: 6-7.

2402 vittatus *Fab. E.* ii. 50. — *Herbst. A.* pl. 23. f. 23. — *Ste. M.* iv. 359. — Black; shining; thorax smooth and polished; elytra with an oblique stripe, and the lateral margins broadly testaceous-yellow; base of antennæ pitchy. (L. 2¼ l.) Hedges: between Rochford and Southend: 6.

2403 flavilabris *Fab. E.* ii. 51. — *Ste. M.* iv. 360. — Violet-blue; mouth yellow; thorax thickly punctulated, glossy; legs bluish or brassy-green; antennæ black, the base testaceous. (L. 1½-2 l.) On birch: Darenth and Birch woods: 6-7.

2404 † Barbareæ *L.* ii. 598. — *Ste. M.* iv. 360. — Deep black; beneath bluish; mouth yellowish; thorax shining; antennæ fuscous, with the base dull red. (L. 2 l.) On the barberry: Suffolk and Devon: 6.

2405 punctiger *Pk. F.* ii. 146. — *Ste. M.* iv. 360. — Black; mouth, a 2-lobed spot on the forehead, anterior edge of the thorax, and 4 anterior legs, bright yellow; elytra blue, deeply punctate-striate; line on the anterior thighs and the tip of antennæ black, base of the latter testaceous. (L. 1¾-2 l.) On the sallow: Darenth Wood: 6-7.

2406 frontalis *Marsh.* i. 211. — *Ste. M.* iv. 360. — Black; shining: fore-

head with a 2-lobed spot, anterior margin, angles, and a portion of the lateral margin of the thorax, apex of the scutellum, and outer edge of the elytra at the base, yellow; 4 anterior legs dull yellow, with a dusky line on the thighs; base of antennæ testaceous. (L. 1½ l.) London district and Suffolk: 6.

2407 labiatus *L.* ii. 598. — *Pz. F.* lxviii. f. 9. — *Ste. M.* iv. 361. — Black; shining: mouth, base of the antennæ and anterior legs, yellow; thorax very smooth and glossy; elytra deeply punctate-striate at the base, the apex smooth; anterior thighs frequently brownish above; hinder tibiæ sometimes yellowish. (L. 1-1¾ l.) Oaks: London district; Monk's Wood; Newcastle; Frostenden; New Forest; &c.: 6-7.

2408 exilis *Schüppel.* — *Ste. M.* iv. 361. — Black; shining: mouth and base of the antennæ yellow; thorax impunctate, very glossy; elytra faintly punctate-striate to the apex; legs deep pitchy, anterior sometimes pale. (L. 1-1¼ l.) Oaks: London district; Devonshire: 6.

2409 bilineatus *L.* ii. 597. — *Ahr. F.* vii. f. 8. — *Ste. M.* iv. 361. — Black: thorax finely wrinkled, slightly shining; anterior and lateral margins yellow, the last sometimes interrupted, base occasionally with 2 yellow dots; elytra yellow, deeply punctate-striate, the suture broadly black nearly to the apex; and the disc of each with a broad black streak; legs pale testaceous: ♂ with the forehead yellow, with 2 black streaks; ♀ with it black, and with 2 yellow dots. (L. 1-1½ l.) Sandy places: Dorking; Bristol; W. of England, and Norfolk: 6-7.

2410 minutus *Fab. E.* ii. 57. — *Ste. M.* iv. 362. — Ch. marginella *Don.* x. pl. 335. ♀. — Shining: head, base of antennæ and legs, testaceous; thorax very smooth, tawny; elytra pale ochreous, sometimes with the suture, and a blotch near the apex, black; breast, abdomen, and tip of the antennæ, black: — ♂ narrower, with the elytra more or less clouded with black at the apex; antennæ slender. (L. 1-1½ l.) Sandy places: Coombe Wood; Ripley; Sydenham; Bristol; S. Wales; Newcastle; &c.: 3-7.

2411 ochraceus *Curtis*, fo. 35. — *Ste. M.* iv. 362. — Ochreous; thorax fulvescent, very smooth; elytra spotless, pale ochreous; body beneath dusky, the tip testaceous; base of antennæ and the legs pale ochreous; tip of antennæ fuscous. (L. 1½ l.) Sandy places: London district and Suffolk: 6.

2412 gracilis *Fab.* ii. 57. — *Pz. F.* xcviii. f. 5. — *Ste. M.* iv. 362. — Black; head, base of antennæ and thorax, tawny; elytra black, the outer margin with a pale ochreous streak, widest at the base; legs tawny-testaceous, tip of antennæ black. (L. 1-1½ l.) Sandy places: Darenth Wood and Devonshire: 6.

492 Clythra *Laicharting.*

§ A. *Legs* stout, shortish; *tibiæ* straight: — Clythra *pr.*

2413 4-punctata *L.* ii. 596. — *Don.* iv. pl. iii. f. 1, 2. — *Ste. M.* iv. 354. — Black, shining; elytra testaceous-red; each with 2 black spots, the apical one irregular and sometimes broken; 2d and 3d joints of the antennæ testaceous. (L. 5 l.) Oaks: Peckham; Epping; Hertford; Hants; near Newcastle: 6-7.

§ B. *Legs* slender, elongate; *tibiæ* bent; anterior elongate in ♂.

1. *Elytra* spotted: — Lachnaia *Chevrolat.*

2414 ‡ longipes *Fab. E.* ii. 28. — *Ent. Tr.* (*Leach.*) i. pl. 8. f. sup. ♂. f. med. ♀. — *Ste. M.* iv. 355. — Black, obscure; elytra pale testaceous,

each with 3 black spots; antennæ with 2d and 3d joints testaceous; ♂ with anter. legs elongate. (L. 5½ l.) Sidmouth; Devon: 6.

2. *Elytra* not spotted; *mandibles* large, bent, remote: — LABIDOSTOMIS *Chevrolat.*

2415 taxicornis *Fab. E.* ii. 34. — *Ste. M.* iv. 354. — *Pet. I. C.* pl. 1. f. 8. — Blue-black, very finely punctured; thorax with the lateral margins irregularly serrated; the base with the hinder angles slightly raised; elytra pale testaceous, spotless; antennæ elongate, compressed, deeply serrated, and entirely black: — ♂ with anter. legs elongate, tibiæ bent. (L. 5 l.) Locality not known.

2416 3-dentata *L.* ii. 596. — *Pz. F.* xlvii. f. 12. — *Ste. M.* iv. 354. — Cl. longimana *Pz. F.* xlvii. f. 11. ♂. — Blue-green, very much punctured; thorax with its lateral margins entire, rounded; elytra entirely pale testaceous; antennæ blue-black, 2d and 3d joints dull testaceous; anterior legs elongate in both sexes; tibiæ bent. (L. 4-4½ l.) On sallow: Coombe Wood; Darenth; Worcestershire; Roseberry Topping, Yorkshire: 6.

(2417 ‡ Hordei *Fab. E.* ii. 41. — *Ste. M.* iv. 355. — Blue-black, shining; punctured; head very broad, forehead brassy; base of the antennæ red. L. 1¾ l.) Taken at Glasgow: probably imported.)

493 MELASOMA *Dillwyn.*

§ A. *Elytra* punctate; *thorax* with sides thickened.

2418 Populi *L.* ii. 390. — *Mart. C.* pl. 15. f. 18, 19. — *Ste. M.* iv. 350. — Blue-black, shining; thorax with disc impunctate; elytra very finely punctulate, red, with the tip of the suture black; tarsi and tip of antennæ black. (L. 5-6 l.) On poplars: generally distributed: 5-6.

2419 Tremulæ *Fab. E.* i. 434. — *Ste. M.* iv. 350. — Greenish-blue, shining; thorax obsoletely punctured; elytra testaceous-red, spotless, thickly and coarsely punctured; tip of antennæ fuscous. (L. 4-5 l.) On aspens and willows: abundant in London district, at Highgate, Darenth, &c.; Monk's Wood; Cambridge; S. Wales: 6-10.

§ B. *Elytra* obsoletely striated: *tho.* small, sides not thickened: — MICRODERA *Stephens.*

2420 20-punctata *Fab. E.* i. 442. — *Pz. F.* vi. f. 10. — *Ste. M.* iv. 351. — Oblong-ovate; blue-black; thorax brassy-green, the sides ochreous; with a brassy dot; elytra ochreous, each with 10 dissimilar spots, and the suture brassy; base of thighs reddish; tarsi with an ochreous ring. (L. 4 l.) Locality not known.

(2421 † Lapponica *L.* ii. 591. — *Pz. F.* xxiii. f. 13. — *Ste. M.* iv. 351. note. — Oblong-ovate; brassy-green; elytra testaceous-red, the suture, an irregular patch at the base, a slightly waved band in the middle, and an arch within the apex, blue. (L. 4 l.) Indicated erroneously as British.)

2422 ænea *L.* ii. 587. — *Pz. F.* xxv. f. 9. — *Ste. M.* iv. 351. — Ovate; brassy-green, brightest above and very glossy; thorax with the disc coarsely punctured, the lateral margins slightly thickened; elytra with a fold at the base, sometimes tinted with gold or copper, finely punctured; apex and sides of the abdomen reddish; basal joints of the antennæ red: — the colour of the upper surface varies from green to bright blue and gold colour. (L. 3 l.) Chatsworth, Derbyshire; and in the S. of Scotland, about Raehills: 6.

2423 cuprea *Fab. E.* i. 432. — *Pz. F.* xxv. f. 8. — *Ste. M.* iv. 351. — Somewhat oblong-ovate; brassy-green, with a golden tint, glossy; thorax

with disc faintly punctured, the sides much thickened; elytra ample, gibbous, plicate at the base; irregularly and thickly punctured, coppery-green; sides and tip of abdomen reddish; base of antennæ pitchy-red. (L. 4½ l.) N. of England: 6.

494 TIMARCHA *Megerle.*

2424 lævigata *L.* ii. 678. — *Wood.* i. pl. 26. — *Ste. M.* iv. 348. — Dark purple, obscure, sometimes tinted with greenish, shining beneath; the entire surface covered with minute nearly uniform punctures; legs and base of antennæ slightly tinted with violet. (L. 7-8½ l.) Hedges and heaths: pretty generally distributed throughout the south: 2-10.

2425 coriaria *Fab. E.* ii. 424. — *Pz. F.* xliv. f. 2. — *Ste. M.* iv. 349. — Slightly shining; black above, occasionally with a violet or purplish tinge; above deeply, thickly, and irregularly punctured, the punctures mostly united; legs and basal joints of the antennæ violet. (L. 3½-5 l.) Heaths, hedges, &c.: generally distributed in the south: 2-10.

495 CHRYSOMELA of *Authors.*

§ A. *Elytra* punctate. 1. *Thorax* with the lateral margins not thickened.

2426 gœttingensis *L.* ii. 586. — *Don.* viii. pl. 286. f. 2. — *Ste. M.* iv. 348. — Ovate; above rich violet, or purplish, covered throughout with minute punctures, in parts faintly disposed in lines; thighs and tibiæ violet, apex of the latter reddish; tarsi, palpi, and base of antennæ testaceous-red. (L. 3-4½ l.) Rather local: Hertford; Edinburgh: 3-4.

2427 hæmoptera *L.* ii. 587. — *Mart. C.* pl. 15. f. 22. — *Ste. M.* iv. 347. — Ovate, gibbous; blue black, sometimes rather brassy above; thorax obsoletely punctured; elytra rather coarsely punctured, and the punctures disposed in irregular striæ towards the sides and suture: antennæ pitchy-red at the base, or entirely griseous; wings red. (L. 3-4 l.) Sandy coasts: Southend; Sheppy; Isle of Wight; Teignmouth; Arthur's Seat, &c.: 4-8.

2428 varians *Fab. E.* i. 433. — *Ste. M.* iv. 347. — Ch. Marshami *Don.* viii. pl. 286. f. 1. — Ovate; convex; beneath shining, violet-blue, greenish, or brassy; above splendid copper, golden, brassy-brown, blue, blue-green, violet, or black; sides of thorax faintly thickened, disc obsoletely punctured; elytra thickly and irregularly punctured; legs violet; antennæ with the base concolorous with the other parts. (L. 2½-3½ l.) Grassy places: Coombe Wood; Darenth; Monk's Wood; W. and N. of England; S. Wales; Scotland: 5-6.

2429 cerealis *L.* ii. 558. — *Ste. M.* iv. 346. pl. xxiii. f. 4. — Oblong-ovate; above golden, beneath purple-violet: thorax punctured, golden-copper, with the sides and a dorsal line blue; elytra deeply and thickly punctured, bright coppery-gold, the suture, a broad central streak, and 1 or 2 slender stripes bright blue, legs and antennæ violet: — sometimes brassy-griseous-brown, the elytra with 3 darker streaks, their outer edge blue. (L. 3½-4½ l.) Mountainous districts: Snowdon, &c.: 6.

2430 † violacea *Fab. E.* i. 433. — *Ste. M.* iv. 346. — Ch. graminis var. *Don.* xi. pl. 365. f. 2.? — Oblong-ovate, convex; shining blue; thorax smooth; elytra very finely punctulated; antennæ and legs blue or violet. (L. 5 l.) Near Windsor, and in Lincolnshire?

2431 Graminis *L.* ii. 587. — *Don.* xi. pl. 365. f. 1. — *Ste. M.* iv. 346. — Oblong-ovate, convex; shining blue-green; head and thorax thickly punctured; elytra thickly and finely punctured, the punctures distinct and irregularly placed in lines towards the sides, surface of a uniform blue-

green: legs and antennæ brassy-green. (L. 3½-5 l.) Grassy places: Dover; Bath; Bristol; Norfolk; Sandsfield, Cumberland: 6.

2432 fulgida *Fab. E.* i. 432. — *Ste. M.* iv. 345. — Oblong-ovate, convex; golden-green, with a blue tint, very glossy: thorax thickly and rather coarsely punctured; elytra thickly, deeply, and irregularly punctured, the punctures near the suture and on the sides forming irregular striæ; and these parts of a bright golden-green, the disc in certain lights being blue: base of the antennæ very dull red beneath. (L 3½-5½ l.) Marshes and fens of Cambridgeshire and Hants; on tansy, Yorkshire: 6.

2. *Thorax* with its lateral margins thickened.

2433 polita *L.* ii. 590. — *Mart. C.* pl. 14. f. 5. — *Ste. M.* iv. 345. — Ovate, brassy-green or blue, highly polished: thorax golden, or deep blue; sides and scutellum greenish-brass; elytra testaceous-brown or green-blue, the disc thickly sprinkled with small irregularly placed punctures; legs brassy-green, tarsi pitchy: antennæ dusky, basal joints pitchy. (L. 3-4½ l.) Hedges: generally distributed: 4-10.

2434 Staphylæa *L.* ii. 590. — *Mart. C.* pl. 14. f. 3. — *Ste. M.* iv. 344. — Ovate; testaceous-brown, slightly glossed with brassy above: head and thorax finely punctured; elytra thickly and irregularly punctured; body beneath and antennæ pale testaceous. (L. 3-4 l.) Woods, &c.: generally distributed: 7-10.

2435 † Carnifex *Pz. F.* xvi. f. 9. — *Ste. M.* iv. 344. — Ovate, black; elytra very smooth; with the outer margin bright blood-red. (L. 4 l.) Near Covehithe? Suffolk: 4.

2436 distinguenda *Stephens.* — Ch. sanguinolenta *Don.* iv. pl. 3. f. 3, 4. — *Ste. M.* iv. 344. — Ovate; deep bluish-black; disc of thorax finely punctured; sides and elytra coarsely and thickly punctured, punctures irregularly confluent; lateral margins broadly blood-red; antennæ black; basal joints and legs bluish. (L. 3½-4 l.) Hedges: London district; S. Wales; Scotland; near Moffat: 4-10.

(2437 † sanguinolenta *L.* ii. 591. — Ovate, shining black; thorax margined; outer edge of the elytra blood-red; legs black. (L. 4-4½ l.) Improperly considered as British.)

2438 limbata *Fab. E.* i. 444. — *Pz. F.* xvi. f. 8. — *Ste. M.* iv. 343. — Somewhat oblong-ovate: black, shining; finely punctured; disc of thorax faintly brassy; elytra with the entire limb broadly deep dull red or blood colour; base of antennæ reddish. (L. 3½-4 l.) Hedges: near Windsor, and in Devonshire: 6.

§ B. *Elytra* punctate-striate. 1. *Thorax* with its lateral margins thickened.

2439 Banksii *Fab. E.* i. 430. — *Don.* iv. pl. 138. f. 4. — *Ste. M.* iv. 343. — Ovate; above brassy-brown, pitchy, or black, very glossy; beneath testaceous; thorax with the disc finely punctured, the sides and elytra with deep excavated punctures, the under margin of the latter, with the legs and antennæ, testaceous. (L. 4-5½ l.) Grassy hedges: Darenth Wood; Southend; Bristol; Teignmouth; Devonshire: 6.

2440 lamina *Fab. E.* i. 430. — *Pz. F.* xliv. f. 5. — *Ste. M.* iv. 342. — Ovate; above greenish-blue, or olivaceous; shining, slightly punctured; thorax very smooth, the sides much incrassated; elytra striate, the striæ composed of large distinct punctures: antennæ black; base pitchy-red. (L. 4 l.)

Var.? Ch. Hobsoni *Hope.* — *Ste. M.* iv. 343. — Above pitchy, or brown-black, slightly shining, thorax smooth. Grassy places: generally distributed: var.? about Manchester: 4-7.

2441 † lurida *L.* ii. 590. — *Pz. F.* lxxviii. f. 1. — *Ste. M.* iv. 342. — Ovate, black; elytra chestnut, punctate-striate. (L. 3 l.) Hedges: near Windsor: 6.

2442 marginata *L.* ii. 591. — *Pz. F.* xvi. f. 11. — *Ste. M.* iv. 341. — Oblong-ovate; above brown-brass; thorax with disc finely, sides coarsely, punctured; elytra with the lateral margins luteous, or dull yellow; disc irregularly punctate-striate, the striæ in pairs; body greenish-black beneath, apex livid; legs and antennæ black, base of latter pitchy-red; tarsi pitchy. (L. 2½ 3 l.)

† Var. ? Ch. lepida *Leach.* — *Ste. M.* iv. 341. — Above pitchy; legs and elytra pitchy-testaceous. Heaths, &c.: widely dispersed, but rather scarce in the south: 6-7.

2443 geminata *Pk. F.* ii. 65. — *Ste. M.* iv. 341. — Oblong-ovate; above greenish-copper or violet, rarely blue-black, or bright copper, punctured; elytra faintly punctate-striate, the striæ disposed in pairs, interstices minutely punctured; legs brassy-black, tarsi pitchy; antennæ fuscous, the base reddish. (L. 2½-3½ l.) Hedges: Hertford; Darenth; Monk's Wood, Epping; Bristol; Crwmlyn Burrows; Forfarshire: 6.

2444 Hyperici *Forst. C.* i. 20. — *Ste. M.* iv. 342. — Ch. gemellata *Pz. F.* xliv. f. 6. — Oblong-ovate; above greenish-brass, blue or black; finely punctured; head smooth; elytra with a greenish tint, each with 4 pairs of striæ, composed of deep remote punctures; and a single row next the suture; antennæ black. (L. 2½-3 l.) On Hypericum perforatum, &c.: Darenth Wood; Copenhagen fields; S. Wales; Minto, Roxburgshire, &c.: 5-6.

2. *Thorax* with the lateral margin not thickened.

a. Body ovate. * *Tibiæ* simple.

(2445† festiva *Fab. E.* i. 440. — *Ste. M.* v. 425. — Ovate; brassy-black; elytra punctate-striate, with 3 yellow lines, the 2 outer ones united at the apex, and the middle one not extending to the tip; base of the suture yellow. (L. 3½ l.) Improperly recorded as British.)

2446† festa *Kirby.* — *Ste. M.* iv. 340. — Somewhat ovate; brassy-black; punctured; mouth pitchy; elytra punctate-striate, the lateral margin, base, and 2 rather waved longitudinal stripes, reddish yellow, the lateral stripes with a 3-angular tooth in the middle pointing inwards and forwards; suture brassy. (L. 2½ l.) Hedges: Darlington, Yorkshire.

** *Tibiæ* with an acute tooth near the apex: — SPARTOPHILA *Chevrolat.*

2447 Litura *Fab. E.* i. 429. — *Mart. C.* pl. 16. f. 37. — *Ste. M.* iv. 340. — Short, ovate, convex; testaceous-red; suture of the elytra and a streak on the disc black; elytra punctate-striate; apex of antennæ black: — sometimes black, with the base of the antennæ and the tarsi testaceous; occasionally the elytra are spotless testaceous. (L. 1½-2½ l.) On broom: generally distributed: 4-7.

2. *Body* oblong. * *Tibiæ* simple, excised at tip: — ENTOMOSCELIS *Chevrolat.*

2448 † Adonidis *Fab. E.* i. 431. — *Cur.* iii. pl. 111. — *Ste. M.* iv. 338. — Oblong-ovate; black; sides of thorax ochreous, each with a round black spot; elytra yellowish; irregularly punctate-striate, with a narrow stripe down the suture, not reaching the base, and a broad streak near the hinder margin, black. (L. 3½ l.) Said to be taken in Lincolnshire.

** *Tibiæ* with an acute tooth at the tip: — GONIOCTENA *Chevrolat.*

2449 pallida *L.* ii. 589. — *Wood.* i. pl. 11. — *Ste. M.* iv. 338. — Oblong-ovate; convex, testaceous-yellow; eyes black; thorax shining; elytra deeply punctate-striate; body pitchy in the middle beneath. (L. 3 l.) Sallows: Coombe Wood; Scarborough; Midgely Moor: 6.

2450 10-punctata *L.* ii. 590. — *Ste. M.* iv. 338. — Ch. viminalis *Pz. F.* lxxviii. f. 3. — Oblong-ovate; black; elytra faintly punctate-striate, interstices very thickly punctulate: thorax and elytra testaceous-red, more or less spotted with black: apex of abdomen and base of antennæ testaceous. (L. 3-3½ l.) Willows, &c.: Coombe, Darenth, &c. woods: Monk's Wood; Epping; Raehills; Yorkshire, &c.: 6.

2451 rufipes *De Geer,* v. 295. — *Ste. M.* iv. 329. — Ch. 10-notata *Don.* xi. pl. 373. f. 1. — Oblong-ovate; black; mouth, legs, thorax, and elytra red; the thorax with 2 black spots on its hinder margin, united by a black line, the elytra finely punctate-striate, each with 5 black spots, 1 or more of which is frequently obliterated. (L. 3-3¾ l.) Woods: London district; Epping; Armathwaite, Cumberland: 6.

2452 6-punctata *Fab. E.* i. 436. — *Pz. F.* xxvi. f. 11. — *Ste. M.* iv. 339. — Oblong-ovate, convex, black; thorax red, with 2 black dots on the disc; elytra red, each with 3 black spots, disc punctate-striate, the interstices faintly punctured; thighs pitchy; tibiæ and tarsi pale; antennæ red, tip brownish. (L. 3 l.) Near Rochester: 6.

496 HELODES *Paykull.*

2453 Beccabungæ *Pk. F.* iii. 451. — *Pz. F.* xxv. f. 11. — *Ste. M.* iv. 353. — Blue or greenish, shining; tip of abdomen reddish; mouth pitchy: elytra striated, interstices coriaceous. (L. 2 l.) On Beccabunga: Copenhagen fields; Bottisham; Weston; Swansea; Carlisle; Scotland: 5-6.

2454 Phellandrii *L.* ii. 601. — *Ste. M.* iv. 352. — Ch. calmariensis *Don.* vi. pl. 185. f. 1. — Greenish-brass, or black; shining; thorax with a broad yellow lateral margin; elytra punctate-striate, yellow, or ochreous, with the suture entirely, and a broad streak on the disc of each, greenish-brass; tip of abdomen, base of thighs, and the tibiæ, luteous; apex of antennæ black. (L. 2½-3 l.) On Phellandrium aquaticum: generally distributed: 4-7.

497 PHÆDON *Megerle.*

§ A. *Antennæ* elongate, thickened towards the end.

2455 marginella *L.* ii. 591. — *Mart. C.* pl. 15. f. 26. — *Ste. M.* iv. 335. — Oblong-ovate; above blue, or blue-green, punctured; thorax with its sides, above and below, broadly luteous: elytra punctate-striate, interstices smooth, the outer margins broadly pale luteous or yellow. (L. 1½-2 l.) Flowers of Ranunculus in marshy places: generally distributed: 4-6.

2456 Hannoveriana *Fab. E.* 1. — *Herbst. A.* pl. 23. f. 12. — *Ste. M.* v. 425. — Oblong; bluish-green; thorax with its lateral margins broadly luteous, and punctured; elytra punctate-striate, the outer margin and a longitudinal streak towards the suture, angulated near the base, bright luteous. (L. 2-2½ l.) Meadows: Askham Bryan, Yorkshire: 6.

2457 aucta *Fab. E.* i. 442. — *Don.* xi. pl. 373. f. 2. — *Ste. M.* iv. 334. — Oblong-ovate; convex; above blue or blue-green; head and thorax thickly punctured; elytra punctate-striate, interstices smooth, the lateral margins more or less broadly testaceous-red; antennæ black. (L. ½ l.) Flowers, in damp places; Battersea fields, &c.; Weston; Bath; S. Wales: 4-6.

—— PHRATORA *Chevrolat.*

2458 Vitellinæ *L.* ii. 589. — *Mart. C.* pl. 14. f. 1. — *Ste. M.* iv. 335. — Oblong-ovate; above brassy-green, blue, or black, rarely violaceous; very glossy; elytra rather faintly punctate-striate, the striæ somewhat irregularly placed towards the sides; body brassy beneath, its apex reddish; base of the antennæ dull red. (L. 1½-2 l.) Willows and poplars: generally distributed: 6-7.

2459 unicolor *Marsh.* i. 185. — *Ste. M.* iv. 336. — Somewhat elongate-ovate; above blue-black, slightly glossy; thickly and finely punctured throughout, the punctures dispersed in irregular striæ on the elytra; body entirely black beneath. (L. 2-2¼ l.) Poplars: London district; Bristol; Weston; Yorkshire: 6-7.

—— GASTROPHYSA *Chevrolat.*

2460 Polygoni *L.* ii. 589. — *Don.* iii. pl. 96. f. 1. — *Ste. M.* iv. 336. — Oblong-ovate; blue or greenish; finely punctured; thorax convex, bright shining red; tip of abdomen and legs also red; tarsi pitchy above; antennæ black, dull red at the base. (L. 1¾-2½ l.) Polygonum aviculariа: widely dispersed: 4-7.

2461 Raphani *Fab. E.* ii. 430. — *Ste. M.* iv. 336. — Ch. Hypochæridis *Don.* xi. pl. 373. f. 3. — Oblong-ovate; above golden or bluish-green, shining; above very thickly punctate, especially the elytra; forehead with a deep groove; mouth pitchy: antennæ and legs brassy; tarsi pitchy. (L. 1¾-2¾ l.) On docks, &c.: Battersea fields; Hertford; Southend; Cambridge; Liverpool; S. Wales; Yorkshire; Cramond, &c.: 4-7.

2462 fastuosa *L.* ii. 470. — *Don.* vi. pl. 194. — *Ste. M.* iv. 337. — Ovate; convex; rich golden green, changing to blue; head and thorax slightly punctured; elytra more coarsely punctured, the punctures rather dispersed in lines on the sides, the suture and a short stripe on the disc bright violet-blue; antennæ fuscous, their base dull red. (L. 2½-3 l.) Whitethorn hedges; Darenth Wood; Richmond Park; Ripley; Devil's Ditch; Granchester; Sawtry Fen, Monk's Wood; near Carlisle; Scotland: 6.

—— PHÆDON *pr. Chev.*

2463 Betulæ *L.* ii. 587. — *Ste. M.* iv. 333. — Ch. Cochleariæ *Pz. F.* xliv. f. 15. — Short, ovate: glossy violet or brilliant blue, occasionally greenish; head and thorax minutely punctured; elytra moderately punctate-striate, interstices impunctate; body beneath, legs, and antennæ, entirely black. (L. 1½ l.) Meadows: London district; and pretty generally distributed: 4-6.

2464 Cochleariæ *Fab. E.* i. 445. — *Ste. M.* iv. 333. — *Pz. F.* xxi. f. 2. — Short; somewhat ovate; above shining blue or greenish, beneath more obscure, with the apex of the body testaceous: thorax thickly punctulate; elytra very convex, finely punctate-striate, interstices obsoletely punctate, in the middle of the base a fovea, and exterior to the last an elevated callus: antennæ black. (L. 1½ l.)

Var.? Ch. gomphoceros *Leach.* — *Ste. M.* iv. 333. — More ovate; wholly black beneath; thorax obsoletely punctate; antennæ rather distinctly thickened at the tip. London district; Cambridge; Yorkshire; Newcastle; S. Wales; Bristol: 5-6.

2465 concinna *Ste. M.* iv. 334. — Short, ovate; beneath black; above blue, green, brassy, coppery, golden or greenish-purple, &c.; elytra sometimes concolorous, at others not: thorax convex, thickly and finely punctured; elytra deeply punctate-striate, interstices distinctly punctured; the b[illegible] with a callus, and a fovea within. (L. 1½ l.) Banks: Southend: 4-6.

2466 tumidula *Kirby.* — *Ste. M.* iv. 334. — Short, ovate; brassy-black; punctulated; head with a smooth impressed line; thorax very smooth, the disc flattened, the sides somewhat swollen; elytra punctate-striate, interstices minutely punctured; antennæ pitchy-black, the basal joint pitchy-red. (L. 1½ l.) Hedges: London district; Weston; S. Wales; Newcastle; Scotland: 4-6.

§ B. *Antennæ* short, somewhat clavate: — PLAGIODERA *Chevrolat.*

2467 Armoraciæ *L.* ii. 588. — *Pz. F.* xliv. f. 14. — *Ste. M.* iv. 332. — Short, ovate; greenish-blue, or brassy; shining; very thickly punctured: mouth pitchy; thorax short, obscurely punctured; elytra distinctly punctate, the punctures slightly dispersed in lines towards the base; shoulders prominent and wrinkled: body beneath and legs black; tarsi pitchy; antennæ black, rusty-red beneath at the base. (L. 1½-2 l.)

Var.? Ch. clavicornis *Kirby.* — *Ste. M.* iv. 332. — More brassy; tarsi and base of the antennæ pale red, tip of antennæ rather stout. Under bark of willows, &c.: Battersea fields; Weston; S. Wales; Newcastle, &c.: 4-7.

§ 5. PSEUDOTRIMERA *Westwood.*

Fam. 59 COCCINELLIDÆ. *Ant.* mostly shorter than the thorax, abruptly clavate, or thickened towards the apex: *max. palpi* with terminal joint large and generally securiform (hatchet-shaped): *labrum* broad: *tho.* very short, transverse, lunate: *body* convex or hemispheric, often pubescent: *legs* short: *tarsi* with 2d joint large, bilobed.

Fam. 60 ENDOMYCHIDÆ. *Ant.* longer than the head and thorax united, a little thickened towards the extremity: *max. palpi* filiform, or slightly thickened at tip: *tho.* trapeziform: *body* oval, glabrous: *legs* slightly elongate.

Fam. 59. COCCINELLIDÆ *Latreille.*

ccccxcviii. CHILOCORUS *Body* glabrous: *ant.* very short, capitate: *tho.* lunate, hinder angles rounded; *elytra* not striate, with a dilated margin.

ccccxcix. COCCINELLA *Body* glabrous, hemispherical: *ant.* moderate, with a compressed club: *tho.* broadest at the base, the hinder angles acute: *elytra* ample, not striated, slightly margined.

d. SPHÆROSOMA *Body* pubescent, spherical: *ant.* rather long, with an abrupt club: *tho.* closely embracing the *elytra* at the base; the latter not striate: *legs* short, robust.

di. SCYMNUS *Body* pubescent, hemispheric, or rather oblong: *ant.* very short, abruptly clavate; obtuse: *tho.* with hinder margin as broad as, and closely embracing, the *elytra*, which are ample and not striated: *legs* short; *thighs* thickish.

dii. RHYZOBIUS *Body* pubescent, convex: *ant.* slightly elongate, with a slender club: *tho.* with hinder margin scarcely so wide as, but closely embracing, the *elytra*, the latter convex, not striated: *thighs* slender.

diii. CACICULA *Body* rather elongate, slightly pubescent: *ant.* longer than thorax, with a slender club: *tho.* rounded on the sides, the base closely embracing the *elytra*, the latter ovate, punctate-striate: *legs* simple.

498 CHILOCORUS *Leach.*

2468 2-pustulatus *L.* 585. — *Mart. C.* pl. 13. f. 21. — *Ste. M.* iv. 376. — Gibbous; black; head, margin of abdomen, and a transverse stripe on the elytra (sometimes interrupted) red: — anterior angles of thorax occasionally reddish. (L. 1½-2 l.) Oaks: Hertford; Coombe; Darenth; S. Wales; N. of England and Scotland: 4-7.

2469 renipustulatus *Ill. K.* i. 474. — *Ste. M.* iv. 374. — Coccinella *Mil-*

lard. pl. 2. f. 7. — Gibbous; black; abdomen wholly red; elytra with a large ovate red spot placed across; tarsi reddish beneath. (L. 2-2¼ l.) Sandy lane, Darenth Wood; Hertford; Epping; Bristol; S. Wales; Raehills: 5-7.

(2470 Cacti *L.* ii. 154. — *Ste. M.* iv. 374. note. — Convex; black; breast and abdomen entirely red; elytra each with a large rounded red spot. (L. 2¼ l.) Introduced, by error, in old collections, for the foregoing insect.)

2471 hæmorrhoidalis *Thunb. I. S.* ix. 111. — *Ste. M.* iv. 375. — Convex; black; head in front and lateral margins of the elytra broadly red: margin of the abdomen and legs also red: — head sometimes black, with the mouth red. (L. 2 l.) Hedges: Windsor and Bristol: 6.

2472 4-verrucatus *Fab. E.* i. 381. — *Ste. M.* iv. 375. — Co. Cassidoides *Don.* vii. pl. 243. f. 3. — Convex; black: elytra each with a lunular spot on the shoulder, and a round one on the disc red; hinder margins of the abdomen pale red; knees and tarsi beneath reddish: — elytra sometimes black. (L. 1¾-2 l.) Oaks, &c.: abundantly in London district; and generally distributed: 6-9.

499 Coccinella *of Authors.*

§ A. — Hyperaspis *Chevrolat.*

2473† lateralis *Ill. K.* i. 472. — *Pz. F.* xxiv. f. 9. — *Ste. M.* iv. 374. — Hemispheric; black; shining; sides of the thorax, and a round spot on the disc of the elytra, rather behind the middle, red; anterior tibiæ pale. (L. 1½ l.) Locality not known?

2474 reppensis *Herbst. C.* v. 386. pl. 59. f. 14. — *Ste. M.* iv. 374. — Somewhat hemispheric; black; shining; sides of the thorax broadly, and a round dot on the elytra, near the apex on the outer margin, red; anterior tibiæ, and all the tarsi testaceous. (L. 1¾ l.) Hedges: Windsor; Devonshire; Cramond: 6.

§ B. — Micraspis *Chevrolat.*

2475 12-punctata *L.* ii. 581. — *Herbst. A.* pl. 58. f. 16. — *Ste. M.* iv. 375. — Hemispheric; pale testaceous; thorax with 6 black dots, sometimes more or less united; elytra each with the suture, 5 round spots, and a flexuous lateral line, composed of 3 or 4 united spots, black; legs pale; thighs with a black cloud. (L 1¼-1½ l.) Grassy banks: widely distributed: 4-10.

§ C. — Coccinella *pr.*

2476 14-guttata *L.* ii. 583. — *Don.* vii. pl. 243. f. 1. — *Ste. M.* iv. 377. — Somewhat hemispheric; testaceous-red: thorax with a whitish crescent on each side, expanding behind; elytra each with 7 whitish dots, placed 1 at base, 3 across, then 2 and 1 near the tip: middle of breast and abdomen griseous. (L. 2½-2¾ l.) Whitethorn hedges: Birch and Darenth woods; Bristol; Devonshire; S. Wales; Carlisle; Scotland: 5-7.

2477 bissexguttata *Ill. K.* i. 432. — *Ste. M.* iv. 377. — Co. 12-guttata *Herbst. A.* pl. 22. f. 21. — Somewhat hemispheric; tawny, or testaceous-red; thorax with the lateral margins transparent white; elytra each with 6 whitish spots, placed 1 at base, 2 obliquely, 2 and 1 near the tip; legs pale. (L. 1½-2 l.) Hedges: Windsor and Bristol: 6.

2478 bisseptemguttata *Ill. K.* i. 433. — *Herbst. C.* v. pl. 59. f. 9. — *Ste. M.* iv. 378. — Somewhat hemispheric; pale tawny, shining: thorax with the sides pale; elytra each with 7 white spots, placed 1, minute, at the shoulder, then 2, 2, 2 oblique near the apex; outer margin nearly white. (L. 2½-3 l.) Hedges: Bristol: 6.

2479 10-guttata *Fab. E.* i. 374. — *Herbst. A.* pl. 22. f. 16. g. — *Ste. M.* iv. 378. — Somewhat hemispheric; luteous; sides of thorax whitish;

elytra each with 5 white spots, placed 2 and 2 across, and 1 within the apex. (L. 3 l.) West of England; Bristol?

2480 16-guttata *L.* ii. 584. — *Mart. C.* pl. 13. f. 27. — *Ste. M.* iv. 378. — Somewhat hemispheric; testaceous-yellow; thorax with the margins broadly pellucid-white; elytra with the margins dilated, each with 8 white spots, placed 1 near the base, then 2, 2 and 2 obliquely, and 1 within the apex; abdomen piceous in the middle; legs pale testaceous. (L. 2¾-3 l.) Hedges: Coombe Wood; Norfolk; Suffolk; Devonshire; S. Wales; Cramond; Dalmeny: 5-6.

2481 oblongo-guttata *L.* ii. 584. — *Don.* xi. pl. 362. — *Ste. M.* iv. 378. — Somewhat hemispheric; testaceous-red, shining; thorax with the disc reddish, the lateral margins broadly whitish; elytra with the suture, a spot near the base, a large irregular one on the disc, an oblong one behind, a nearly continuous line on the outer margin, whitish; legs pale. (L. 3-4 l.) On firs: Ripley; Hertford; S. Wales; N. of England and Scotland: 3-10.

2482 ocellata *L.* ii. 582. — *Cur.* v. pl. 208. — *Ste. M.* iv. 379. — Somewhat hemispheric; black; head and thorax varied with white; elytra red, with 16 black spots, edged with whitish during life, pale in death, 1 basal, then 3, 3 and 1, the last elongate: — the legs pale: — the spots on the elytra more or less united, or deficient; rarely all wanting. (L. 4-5½ l.) Firs and pines: Ripley; Birch Wood; Walworth; Stockton; Tynemouth; Gorlestone Cliffs: 3-10.

(2483 † marginepunctata *Fab. E.* i. 358. — *Pz. F.* lxxix. f. 1. — *Ste. M.* iv. 379. note. — Somewhat hemispheric; reddish; head and thorax luteous, thickly spotted with black; elytra pale, each with 8 black dots; of which the marginal ones sometimes alone exist. (L. 3 l.) Indicated erroneously as British.)

2484 7-punctata *L.* ii. 581. — *Wood.* i. pl. 10. — *Ste. M.* iv. 380. pl. xxiii. f. 2. var. — Hemispheric; black: 2 dots on the forehead, and a patch at the anterior angle of the thorax, white; coleoptra (both elytra) red, with 7 black spots, placed 1 at the scutellum, 3 on each elytra triangularly, i. e. 1 on the back, the other 2 on the sides: — 1 or other, or sometimes all, the spots are obliterated; or the elytra are wholly black. (L. 3½-4½ l.) Gardens, &c. throughout the country: ⊙, ✶.

2485 5-punctata *L.* ii. 582. — *Don.* ii. pl. 39. f. 1. 4. — *Ste. M.* iv. 380. — Hemispheric; black; 2 oblique streaks on the forehead, and a patch on each anterior angle or the thorax, extending in a narrow streak on the lateral margin, white: coleoptra blood-red, with 5 black dots, placed on each ½ common, 1 dorsal, 1 lateral near the apex: — one or other of the dots sometimes wanting, and, in rare instances, 1 or 2 additional spots on the shoulders. (L. 2-3 l.) Hedges, &c.: generally distributed: 4-8.

(2486 † 3-fasciata *L.* ii. 580. — *Herbst. C.* v. pl. 57. f. 13. — *Ste. M.* iv. 381. note. — Somewhat hemispheric; black; anterior angles of thorax whitish; elytra red, with 3 short black bands. (L. 2½ l.) Improperly given as British.)

2487 22-punctata *L.* ii. 582. — *Don.* ii. pl. 39. f. 1. 4. — *Ste. M.* iv. 381. — Hemispheric; bright shining sulphur-yellow; thorax with 5, elytra with 10 black dots, placed 3, 3, 1, 2, 1, and 1 marginal one, the latter sometimes wanting, and the others occasionally more or less united; legs testaceous, thighs blackish at the base. (L. 1½-2 l.) Hedges: amongst nettles, and generally distributed: ⊙.

2488 variabilis *Ill. K.* i. 447. — *Ste. M.* iv. 381. — (*Don.* xii. pl. 428. f. 1, 2, 3. var.) — Somewhat hemispheric; black or luteous; margin of the thorax yellow; elytra with a slightly elevated nearly apical transverse line, and more or less spotted with black; legs pale luteous, thighs with the

base dusky: — the spots on the elytra are typically ½-1, 3, 2, the 5 last placed transversely; the obliteration or confluence of 1 or more of which causes an extensive series of variations; the extreme cases being, elytra luteous, spotless, and elytra black, with 10 luteous dots. (L. 2-2½ l.)

Var.? Co. humeralis *Schön. S.* ii. 163. — *Ste. M.* iv. 383. — Elytra black or fuscous, with a pale lunular mark on the shoulder, in rare instances totally obliterated. On oaks and lime trees, every where: ⊙, ✶.

2489 conglomerata *Fab. E.* i. 372. — *Ste. M.* iv. 385. — Co. 14-punctata *Herbst. A.* pl. 22. f. 5. — Hemispheric; black; above ochreous; elytra with the suture and 7 mostly 4-angular spots black: the spots more or less united, rarely all distinct; sides of breast and of the abdomen spotted with yellow; legs pale. (L. 1¾-2¼ l.) Hedges and clover fields: Darenth Wood; Monk's Wood; Cambridge; S. Wales: 5-6.

2490 14-pustulata *L.* ii. 585. — *Herbst. C.* v. pl. 57. f. 17. — *Ste. M.* iv. 384. — Somewhat hemispheric; black; forehead with 2 white dots; thorax with the anterior edge and its angles irregularly whitish yellow; elytra each with 7 rounded ochreous spots, placed 2 basal, 2 before, and 2 behind the middle, 1 near the tip; legs pale, thighs and base of tibiæ black. (L. 2 l.) Hedges: Windsor; Weston; Raehills: 6.

2491 dispar *Ill. K.* i. 455. — *Ste. M.* iv. 384. — Co. bipunctata, &c. *Mart. C.* pl. 13. f. 17. 24. 22. — Ovate, hemispheric; body and legs black; elytra very narrowly margined, and with 1 black spot, sometimes round, at others oblong, at others accompanied by 1 or 2 minute dots, or a twig of black, which last colour goes on gradually predominating and branching off in a long series of varieties, until the general surface is wholly black; having put on the various appearances of a band or ring of black, or 7, 6, 4, or 2 red spots on a black ground: sides of the thorax, and occasionally 2 dots on the forehead, white. (L. 2-2½ l.) Gardens, hedges, &c.: plentifully distributed throughout the country: ⊙, ✶.

2492 impustulata *L.* ii. 584. — *Ste. M.* iv. 385. — Co. conglobata var. *Herbst. C.* v. pl. 58. f. 15. — Ovate-hemispheric; black; head with 2 pale dots, or red with a black line; thorax with the anterior angles white; elytra slightly margined, sometimes with the outer edge, and from 1 to 5 spots, reddish: legs black; tarsi dull red beneath. (L. 2 l.) Hedges: Coombe Wood; Norfolk; S. Wales; Scotland; Cumberland: 6.

2493 conglobata *Fab. E.* i. 373. — *Ste. M.* iv. 385. — Co. gemella *Herbst. A.* pl. 22. f. 7. var. — Ovate-hemispheric; black; above rosy or yellowish; thorax with 8 black spots, sometimes united; elytra distinctly margined, the suture and 8 spots frequently confluent, black; legs testaceous: thighs occasionally black. Hedges: Cobham, Surrey: 6.

2494 hyperborea *Pk. F.* ii. 38. — *Ste. M.* iv. 386. — Somewhat ovate; black; 2 oblique spots on the forehead; sides of thorax, and 2 almost united spots opposite the scutellum, white: elytra red, with 2 black bands composed of united spots, placed obliquely, and edged, on each side with whitish. (L. 2¼ l.) N. of Scotland: 6.

2495 11-punctata *L.* ii. 581. — *Don.* xvi. pl. 372. f. 2. — *Ste. M.* iv. 386. — Somewhat ovate; black; forehead with 2 pale spots; thorax with an irregular whitish or ochreous spot on each anterior angle; scutellum black; elytra red, with 1—5 black spots, placed ½, 1, 2, 2, the pairs obliquely: — spots sometimes united in pairs, or 1 or more obliterated. (L. 2-2½ l.) Sandy banks: generally distributed: 6-7.

2496 hieroglyphica *L.* ii. 580. — *Ste. M.* iv. 387. — Co. 3-lineata *Herbst. A.* pl. 22. f. 12. var. — Somewhat ovate; black; forehead with 2 minute spots, and anterior angles of thorax white; elytra red, with a longish black streak at the base of the suture, and a flexuous stripe composed of dots,

more or less interrupted or obsolete at times, and sometimes emitting a twig, black. (L. 1¾-2 l.) Woods: Coombe Wood; Norfolk; Cardew Mire: 6.

2497 18-guttata *L.* ii. 585. — *Samou.* pl. 2. f. 11. — *Ste. M.* iv. 387. — Somewhat ovate; dull red; thorax with the sides and 2 spots at the base whitish; elytra each with 9 luteous spots, placed 2, 1, 3, 2, 1, the 2 basal ones being curved; body griseous beneath. (L. 1¾-2 l.) On firs: Birch Wood; Ripley; Hertford; Midgley; Cambridge; Weston; S. Wales; Scotland, &c.: 3-7.

§ D. — Hippodamia *Chevrolat.*

2498 mutabilis *Ill. K.* i. 427. — *Ste. M.* iv. 388. — Co. 7-notata *Don.* xi. pl. 362. f. 3. var. — Oblong-ovate: black; margins of thorax and 2 spots at the base ochreous; elytra red, spotted with black, the spots typically placed 1, 2, 2 obliquely, and 1 and the scutellum black; the absence of 1 or other, and the occasional presence of an additional pair on the shoulders, causing numerous varieties; antennæ, tibiæ, and tarsi, and tip of intermediate tibiæ, testaceous-red. (L. 1½-2½ l.) Thick hedges: London district; Liverpool; Swansea: 6-8.

2499 13-punctata *L.* ii. 582. — *Don.* xi. pl. 362. f. 2. — *Ste. M.* iv. 388. — Oblong: black; head tawny in front; thorax with the anterior and lateral edges yellow, the latter each with a black dot; elytra red, or luteous, with typically 13 black spots, placed 1 common, 1 transversely, 2 before the middle, 2, and 1 near the tip; tibiæ and tarsi testaceous-red: spots on the elytra more or less obliterated. (L. 3 l.) Amongst reeds, &c.: Battersea fields; Monk's Wood; S. Wales; N. of England, and in Scotland: 6-7.

2500 7-maculata *Fab. E.* i. 365. — *Ste. M.* iv. 389. — Co. oblonga *Herbst. A.* pl. 22. f. 4. var. — Oblong: black; head with a 3-angular yellowish mark; thorax with the margins narrowly edged with yellow; elytra red, with a large 3-lobed spot at the scutellum, and 5 large ones on the disc, black; antennæ and palpi red. (L. 3 l.) Hedges: Bristol: 6.

§ E. — Anisostista *Chevrolat.*

2501 19-punctata *L.* ii. 582. — *Herbst. A.* pl. 22. f. 9. — *Ste. M.* iv. 389. — Oblong; black; above ochreous, tinted with rosy: thorax with 6, and elytra with 19 black spots, the latter placed ½, 1 large, 2, 3 in the middle, 2, and 1; 1 or more occasionally united or wanting; legs testaceous. (L. 1½-2 l.) Damp places, amongst reeds: Hertford; Battersea fields; Cambridge; S. Wales; Scotland: 6-7.

2502 M-nigrum *Fab. E.* i. 537. — *Herbst. C.* v. pl. 57. f. 1. — Rather oblong; pale testaceous; eyes, and some dots on the head, black; thorax pale testaceous, with an irregular, sometimes interrupted and indistinct angulated black line, resembling the letter M; elytra occasionally with a dark longitudinal line; breast black; legs pale. (L. 2. l.) On the larch: Birch Wood; Weston; Bevington, Herefordshire: 4-6.

§ F. — Cycnegetis *Chevrolat.*

2503 globosa *Ill. K.* i. 469. — *Ste. M.* iv. 389. — *Don.* ix. pl. 362. f. 5. var. — Hemispheric; mostly with wings: head and legs for the most part rusty red; thorax the same, sometimes spotted with black; elytra rusty-red, spotless, or with from 1 to 12 black spots, placed 3, 3, 1, 3, 2, and more or less confluent or wanting; sometimes the apex alone of the elytra is red. (L. 1½-1¾ l.) Grassy hedges: widely dispersed: 4-8.

(2504 † impunctata *L.* ii. 579. — *Pz. F.* xxxvi. f. 4. — *Ste. M.* iv. 390. var. — Hemispheric: wingless; head black: thorax and elytra livid red,

the latter gibbous behind and spotless; body beneath black; sides of breast and margins of abdominal segments pale red; legs black; tibiæ and tip of anterior thighs testaceous. (L. 1½ l.) Erroneously described as indigenous.)

500 Sphærosoma *Kirby.*

2505 Quercus *Leach.* — *Ste. M.* iv. 391. — Pitchy-black; slightly shining; mouth piceous; thorax spotless, with a few remote, minute punctures; elytra thickly and finely punctate; legs and antennæ pitchy-testaceous. (L. ¾-1 l.) On oaks: London district; Suffolk; Devonshire: 6.

501 Scymnus *Herbst.*

2506 ater *Schnei. M.* (*Kugellan.*) i. 548. — *Ste. M.* iv. 292. — Oval; slightly convex; black; shining; finely punctured; elytra ample, with an oblong tubercle on the shoulder; tarsi, antennæ, and mouth pitchy. (L. ¾ l.) Whitethorn hedges: Ripley: 7.

2507 minimus *Pk. F.* ii. 8. — *Ste. M.* iv. 392. — Somewhat hemispheric; black; finely punctured: tibiæ and tarsi, and tip of anterior thighs, palpi, and antennæ, pale testaceous. (L. ⅝ l.) Hedges: Hertford: 6.

2508 nigricans *Herbst. C.* vii. pl. 344. — *Pz. F.* xxiv. f. 12. — *Ste. M.* iv. 392. — Somewhat hemispheric; black; forehead flat; thorax broadly, but not deeply, notched in front; elytra large, obtusely rounded behind, very convex, clothed with a decumbent griseous pile; tarsi and antennæ pitchy-red. (L. 1¼ l.) On firs: Birch Wood; and in Norfolk: 6.

2509 femoralis *Kirby.* — *Ste. M.* iv. 392. — Somewhat hemispheric; black; elytra ample, very convex, obtusely rounded behind; the disc clothed with a fine ashy pile; breast very thickly and coarsely punctured; tip of abdomen pitchy; tibiæ, tarsi, and antennæ rusty-red. (L. ¾ l.) On firs: Ripley, and in Suffolk: 6.

2510 parvulus *Fab. E.* i. 377. — *Pz. F.* xiii. f. 2. — *Ste. M.* iv. 393. — Somewhat hemispheric; black; head testaceous-red; eyes black; thorax sometimes with the lateral margins broadly testaceous; elytra with the extreme tip slightly red; terminal segments of the abdomen reddish; legs reddish-yellow, the hinder thighs dusky at base; antennæ pale. (L. ¾ l.)

Var. ? Co. fulvifrons *Marsh.* i. 168. — *Ste. M.* iv. 393. — Forehead tawny; tips of elytra, and of abdomen, black. Oaks: Hertford; Camberwell; Wood Ditton, Cambridgeshire; S. Wales; Carlisle: 7-10.

2511 Colon *Thunb. I. S.* ix. 111. — *Ste. M.* iv. 393. — Somewhat hemispheric; shining black; slightly pubescent; elytra each with 2 small luteous spots, placed longitudinally; tip of abdomen reddish. (L. 1 l.) Hedges: London district and Wood Ditton: 5-6.

2512 4-pustulatus *Schnei. M.* (*Kugel.*) i. 547. — *Ste. M.* iv. 393. — Hemispheric; black; thorax with a reddish spot on each side; elytra each with 2 red spots, 1 of them large and rounded, near the middle, the other smaller and near the tip; tibiæ, tarsi, and antennæ dull red: head, and sides of thorax sometimes yellow. (L. 1½ l.) Hedges: Darenth; Hertford; S. Wales: 6-8.

2513 bisbipustulatus *Fab. E.* i. 382. — *Pz. F.* xiii. f. 5. ? — *Ste. M.* iv. 394. — Somewhat rounded; slightly convex; black; elytra each with 2 round red spots, placed one after the other, the hinder one largest; apex of thighs, tibiæ, tarsi, and antennæ, dull red. (L. 1¼ l.) Hedges; rare: London district; Crwmlyn sand hills: 6.

2514 bipustulatus *Thunb. I. S.* ix. 105. — *Ste. M.* iv. 394. — Co. bipunctatus *Pz. F.* xxiv. f. 11. — Somewhat oval, shining, black; mouth and labrum testaceous; elytra each with a large round pale red spot on the disc, behind the middle; tibiæ, tarsi, and antennæ testaceous, club of

latter black. (L. 1 l.) Hedges: London district; Bottisham; Crwmlyn Burrows: 6.

2515 frontalis *Fab. E.* i. 381. — *Ste. M.* iv. 394. — Sc. didymus *Herbst. C.* vii. pl. 116. f. 2. — Somewhat hemispheric, black; head reddish-yellow, or black, with the mouth and labrum pale; anterior angles of thorax sometimes ochreous; elytra ample, each with an oblique, ovate, round red spot within the margin, beneath the humeral tubercle; legs testaceous, the hinder thighs, or the base of all, black. (L. 1 l.) Grassy places: London district; Swansea: 6-7.

2516 marginalis *Gyll.* iv. 199. — *Ste. M.* iv. 395. — Somewhat hemispheric; black; head entirely, or labrum alone, testaceous; thorax with the anterior angles more or less broadly testaceous; elytra each with a large somewhat 3-angular red spot at the base; legs testaceous, base of hinder thighs sometimes dusky. (L. 1 l.) Hedges: Ripley: 7.

2517 analis *Fab. E.* i. 378. — *Pz. F.* xiii. f. 3. — *Ste. M.* iv. 395. — Somewhat ovate; black; head and sides of the thorax more or less broadly reddish-yellow; elytra ovate, shining, with the apex more or less indeterminately testaceous-red; tip of abdomen and edges of some of the preceding segments, with the legs and antennæ, testaceous-red. (L. 1-1¼ l.) Hedges: Ripley; Hertford, &c.; Bottisham: 6-7.

2518 discoideus *Fab. E.* i. 377. — *Herbst. C.* viii. pl. 116. f. 6. — *Ste. M.* iv. 395. — Somewhat ovate; black; slightly pubescent; elytra red-brown, the base and margins black; legs testaceous-red, thighs sometimes black; antennæ, palpi, and mouth testaceous. (L. ¾ l.) On firs: Hertford; Ripley; Southend; Dalmeny: 4-8.

2519 limbatus *Kirby.* — *Ste. M.* iv. 395. — Somewhat ovate, black, slightly pubescent; elytra bright chestnut-red, the suture and the entire margin deep black; legs pitchy-black. (L. ½-⅝ l.) Firs: Hertford, and Suffolk: 6.

2520 atriceps *Ste. M.* iv. 396. — Somewhat ovate; head dusky-black; thorax red-brown; elytra very slightly pubescent, entirely pale, and legs pale testaceous; body beneath pitchy-testaceous, with the apex paler. (L. ¾ l.) Hedges: London district: 6.

502 Rhyzobius *Stephens.*

2521 Litura *Fab. E.* i. 353. — *Ste. M.* iv. 396. — Co. aurora *Pz. F.* xxxv. f. 5. — Slightly glabrous; shining, testaceous-red; red, or testaceous, sometimes pitchy; eyes black; elytra finely punctured, mostly with an interrupted blackish band placed rather behind the middle; legs pale testaceous; abdomen black. (L. 1-1¼ l.) Roots of grass, &c., widely distributed: ⊙.

503 Cacicula *Megerle.*

2522 pectoralis *Fab. E.* i. 443. — *Pz. F.* lxxviii. f. 5. — *Ste. M.* iv. 397. — Red, shining; eyes, breast, and anterior part of the abdomen black; thorax sometimes with 2 obscure dusky spots; elytra somewhat punctate-striate, spotless; antennæ pale. (L. 1-1¾ l.) Roots of grass; generally distributed: ⊙.

2523 scutellata *Fab. E.* i. 443. — *Cur.* iii. pl. 144. — *Ste. M.* iv. 398. — Shining red; eyes black; elytra faintly punctate-striate, each with a spot near the scutellum, and 2 other spots, one of them about the middle of the outer margin, and the other behind the middle of the suture, black; breast and base of the abdomen black; legs red. (L. 1¾ l.) Local: Norfolk; Plaistow marshes; Lincolnshire: 4-7.

Fam. 60. ENDOMYCHIDÆ *Leach.*

div. ENDOMYCHUS *Ant.* with a distinct 3-jointed club : *max. palpi* capitate, the terminal joint obtrigonal : *tho.* deeply notched in front, broadest behind : *body* ovate, glabrous : *elytra* free : wings 2 : *thighs* slender.

dv. LYCOPERDINA *Ant.* with an indistinct club : *max. palpi* filiform, apical joint ovate : *tho.* dilated anteriorly, narrowed behind : *body* elongate-ovate : *elytra* free : wings 0 : *thighs* abruptly clavate ; tibiæ pubescent.

504 ENDOMYCHUS *Paykull.*

2524 coccineus *L.* ii. 592. — *Ste. M.* iv. 399. — *Cur.* xii. pl. 570. — Shining blood-red ; an oblong longitudinal patch on the thorax, and 2 large round spots on each of the elytra, black ; middle of breast and legs black ; joints of the latter and tarsi reddish ; base of antennæ pitchy ; apex black. (L. $1\frac{1}{2}$-$2\frac{3}{4}$ l.) On fungi and putrid wood : local, but very widely distributed : 2-8.

505 LYCOPERDINA *Latreille.*

2525 Bovistæ *Pk. F.* ii. 115. — *Cur.* viii. pl. 355. var. — *Ste. M.* iv. 400. — Black ; shining ; glabrous ; mouth, antennæ, angles of the thorax, tip of the elytra, and of abdomen and legs, dull-red. (L. $1\frac{3}{4}$-$2\frac{1}{4}$ l.)

Var. ? Ly. elongata *Ste. M.* v. 425. — More elongate ; hinder angles of thorax black, mouth, antennæ, and legs pitchy. In puff balls (Lycoperdon Bovistæ) : Birch Wood ; Guildford ; Kimpton, &c. : 6-10.

§ 6. HETEROMERA *Latreille.*

Fam. 61 TENEBRIONIDÆ. *Head* inserted up to the eyes in the *tho.*, which is 4-drate, or trapeziform : *palpi* thickened at the tip ; apical joint mostly hatchet-shaped : *ant.* generally moniliform : *body* oblong, flattish : *tarsi* mostly heteromerous, joints and *claws* simple.

Fam. 62 DIAPERIDÆ. *Head* inserted : *tho.* 4-drate, trapeziform, or somewhat cylindric : *palpi* nearly filiform, rarely enlarged at tip : *ant.* short, moniliform or pectinated : *body* rounded, or 4-drate, convex : *tarsi* heteromerous, joints and *claws* simple.

Fam. 63 BLAPSIDÆ. *Head* inserted : *tho.* somewhat 4-drate : *palpi* with the terminal joint large, dilated, 3-angular : *ant.* nearly filiform : *elytra* soldered together : *wings* 0 : *body* elongate : *tarsi* heteromerous, joints and *claws* simple.

Fam. 64 HELOPIDÆ. *Head* inserted : *tho.* transverse : *palpi* with terminal joint large, hatchet-shaped : *ant.* filiform, base concealed, 3d joint longest : *elytra* not soldered together : *wings* rudimentary or short : *tarsi* heteromerous, anterior sometimes dilated in ♂ ; joints and *claws* simple.

Fam. 65 CISTELIDÆ. *Head* inserted : *tho.* transverse : *palpi* filiform, or with the terminal joint hatchet-shaped : *ant.* elongate ; base not concealed, filiform, sometimes pectinated or serrated : *elytra* free : *wings* ample : *body* elongate ; softish : *tarsi* heteromerous, anterior sometimes dilated in ♂ ; joints simple ; *claws* denticulated.

Fam. 66 LAGRIIDÆ. *Head* inserted ; and with the *tho.* narrower than the *elytra*, which are free, ample, soft, and flexible : *ant.* filiform, inserted in a notch of the eyes : *body* elongate : *tarsi* heteromerous, penult. joint bilobed ; *claws* simple.

Fam. 67 MELANDRYIDÆ. *Head* inserted, sometimes inflexed : *tho.* widest behind : *ant.* shortish, filiform ; *eyes* occasionally notched : *max. palpi* with 3 terminal joints large, often deflexed : *body* elongate and subcylindric, or flattish : *tarsi* testaceous ; penult. joint of all, or of 4 anterior, oblong, bifid ; in the last case hinder legs formed for leaping.

Fam. 68 MORDELLIDÆ. *Head* inflexed, closely applied to *tho.*, which is trapeziform: *ant.* short, frequently flabellate or serrated: *body* elevated, arched: *elytra* narrowed at the extremity: *abdomen* conic, or sometimes with an anal style; *legs* dissimilar; *tarsi* heteromerous; anterior sometimes with penult. joint bilobed; *claws* bifid.

Fam. 69 CANTHARIDÆ. *Head* dilated behind the eyes, united to *tho.* by a distinct neck; the latter somewhat 4-drate: *palpi* mostly filiform: *ant.* various: *elytra* flexible, deflexed at the sides; often shortened, or divaricating: *tarsi* heteromerous, joints simple; *claws* bifid.

Fam. 70 ŒDEMERIDÆ. *Head* deeply inserted, slightly elongate in front: *tho.* somewhat 4-drate: *ant.* rather long, filiform: *body* elongate, flattish: *elytra* sometimes narrowed at the tip: *tarsi* heteromerous, penult. joint mostly bifid; *claws* simple. ♂ often with hinder thighs clavate.

Fam. 71 SALPINGIDÆ. *Head* deeply inserted; produced in front into a short flattened rostrum: *tho.* more or less heart-shaped: *body* oval or oblong, flattish: *legs* slender; *tarsi* hetoromerous; penult. joint bilobed.

Fam. 72 PYROCHROIDÆ. *Head* exserted, with a distinct neck: *tho.* small, somewhat orbicular; *elytra* ample, flattish: *ant.* filiform, pectinated or serrated: *max. palpi* with terminal joint somewhat hatchet-shaped: *tarsi* heteromerous, penult. joint bifid; *claws* simple.

Fam. 73 NOTOXIDÆ. *Head* somewhat heart-shaped, with a distinct neck: *tho.* narrowed behind; sometimes armed in front: *ant.* simple, rarely filiform: *max. palpi* with terminal joint hatchet-shaped: *elytra* rigid, as long as the abdomen: *legs* shortish; *tarsi* heteromerous; penult. joint bilobed; *claws* simple.

Fam. 74 SCYDMÆNIDÆ. *Head* slightly narrowed behind: *tho.* somewhat globose, broader than the head: *elytra* ample, convex, entire: *ant.* longish, distinctly clavate: *palpi* with 3d joint large, pear-shaped, terminal, minute: *legs* slender; thighs inerassate: *tarsi* pentamous.

Fam. 61. TENEBRIONIDÆ *Stephens.*

dvi. SARROTRIUM *Body* elongate, narrow, rather convex: *ant.* short, thick, 10-jointed, very pilose: *tarsi* 4-articulate.

dvii. HYPOPHLÆUS *Body* elongate, flattish: *ant.* short, 11-jointed, compressed, slightly serrated: *tho.* somewhat 4-drate: *elytra* linear.

dviii. STENE *Body* elongate, flat: *ant.* clavate, 3d joint short; club 3-articulate: *tho.* 4-drate: *elytra* flattish: *anter. tibiæ* very finely crenate without.

dix. ULOMA *Body* oblong-ovate, flat: *ant.* clavate, 3d joint elongated, as large as the 4th: *tho.* transverse, 4-drate: *tibiæ* slender; slight: ♂ with large porrected mandibles and 2 short horns on crown.

dx. TENEBRIO *Body* elongate, narrow, slightly convex: *ant.* filiform, naked: *tho.* nearly 4-drate, slightly narrowed before: *legs* slender; *anter. thighs* thickened, their *tibiæ* bent.

dxi. ALPHITOBIUS *Body* oblong-ovate, flattish: *ant.* clavate, 3d joint elongate, much longer than the 4th: *tho.* transverse: *legs* short; *thighs* robust; *anter. tibiæ* slightly dilated, and finely serrated externally.

dxii. OPATRUM *Body* oblong-ovate, rather convex: *ant.* thickened at the tips: *tho.* transverse, deeply notched in front, hinder angles produced, the base closely applied to that of *elytra*, sides of last deflexed: *wings* short: *anter. tibiæ* 3-gonate.

dxiii. HELIOPHILUS *Body* ovate, rather convex: *ant.* thickened at tip: *tho.* transverse, deeply notched in front, hinder angles obliquely cut off, remote from *elytra*, the latter united: *wings* 0: *tibiæ* 3-angular, *anter.* slightly dilated.

dxiv. Pedinus *Body* ovate, short, flattish: *ant.* filiform, terminal joints longer than broad: *tho.* large, transverse, notched in front, anter. angles acute, sides dilated and round; *elytra* united: *wings* 0: *clypeus* with a circular excision: *hinder thighs* with a groove beneath; *anter. tarsi* dilated in ♂.

dxv. Phylan *Body* ovate: *ant.* filiform, terminal joints broader than long: *tho.* short, transverse, base slightly bent, hinder angles acute: *elytra* united: *wings* 0: *legs* short; *anter. tibiæ* broad, 3-gonate, truncate at tip; their *tarsi* dilated in ♂.

dxvi. Crypticus *Body* ovate, slightly convex: *ant.* filiform: *tho.* transverse, broader than the elytra in the middle, angles obtuse: *elytra* not united: *wings* 2, ample: *tibiæ* simple; *tarsi* elongate, hinder ones longer than the tibiæ, *anter.* not dilated in ♂.

506 Sarrotrium *Illiger.*

2526 muticum *L.* ii. 604. — *Cur.* vii. pl. 314. — *Ste. M.* v. 5. — Black; opaque; head roughly punctured; thorax with the disc foveolated; elytra punctate-striate, with a ridge between every 2d stria; tip of antennæ velvety-black. (L. 1½-1¾ l.) Sandy places: Hampstead Heath; Blackheath; Norwich; Burnham; Lowestoft; Bamburgh Castle, Northumberland; Crwmlyn Burrows: 4-8.

507 Hypophlæus *Fabricius.*

2527 castaneus *Fab. E.* ii. 558. — *Pz. F.* xii. f. 13. — *Ste. M.* v. 6. — Chestnut-brown; shining; thickly punctured; eyes black; thorax elongate; elytra faintly punctate-striate, with fainter punctures between the striæ; legs pale testaceous-red. (L. 2½-3 l.) Under bark of elms: Plymouth; New Forest; Sherwood Forest: 6.

2528 bicolor *Fab. E.* ii. 559. — *Ste. M.* v. 7. — *Cur.* xi. pl. 430. — Testaceous red; shining; finely punctured; thorax somewhat 4-drate; elytra convex-cylindric, thickly and unequally punctulate, shining black, the base broadly testaceous-red; tip of abdomen black. (L. 1½-2 l.) Under bark of elms: Kensington Gardens; Camberwell; Sydenham Woods; South Creak, Norfolk: 6-7.

2529 depressus *Fab. E.* ii. 559. — *Pz. F.* i. f. 23. — *Ste. M.* v. 7. — Rusty-red; shining; flattish; thorax short, somewhat 4-drate, thickly punctured; elytra obtusely rounded, punctate-striate, interstices obscurely punctured; legs pale testaceous; antennæ dusky-rust colour. (L. 1½ l.) Under bark: Copenhagen fields: Gray's Inn Gardens: Swansea: 6-7.

2530 brunneus *Gyll.* iii. 711. — Red-brown; shining; glabrous; head large, rounded: thorax ample, broader in front than the elytra, punctate, elytra shortish, obsoletely and irregularly punctured. (L. 1½ l.) Old trees: Hertford: 6.

508 Stene *Kirby.*

2531 ferruginea *Fab. E.* i. 155. — *Oliv. E.* iii. 18. pl. 2. f. 24. — *Ste. M.* v. 9. — Rusty-red; head and thorax finely punctured; elytra faintly punctate-striate, interstices thickly punctured. (L. 1½-2 l.) Hertford; Swaffham Bulbeck; Norwich; London: 6-7. Query imported?

509 Uloma *Megerle.*

2532 cornuta *Fab. E.* i. 155. — *Latr. G.* ii. pl. 10. f. 4. ♂.; f. 5. ♀. — *Ste. M.* v. 10. — Dull red; punctulated; eyes black; thorax 4-drate, a little narrowed behind; with the hinder angles prominent; elytra punctate-striate; ♂ with the mandibles advanced, large, recurved at the tip; acute and resembling horn, the edge of the clypeus dilated, and 2 short horns on the crown. (L. 1½-2¼ l.)

Var. ? Ul. læviuscula *Wilkin.* — *Ste. M.* v. 10. — Paler, with the thorax not exactly 4-drate, and minutely punctured. In flour: London; Norwich: 5-7.

510 Tenebrio *of Authors.*

2533 molitor *L.* ii. 674. — *Pz. F.* xliii. f. 12. — *Ste. M.* v. 8. — Pitchy-black, slightly shining, finely punctured; rusty-red beneath: mouth and anterior edge of the head pitchy-red; thorax somewhat 4-drate, with an oblique fovea near the base on each side; elytra obsoletely punctate-striate: legs rusty-red, anterior thighs short, compressed; their tibiæ incurved, and slightly ciliated beneath. (L. 5-8 l.) In bakehouses, &c. throughout the country: 4-8.

2534 laticollis *Ste. M.* v. 8. — Black; slightly shining; thickly punctured; thorax with the sides dilated and rounded; the disc with 2 foveæ, and the base with 2 short furrows; elytra rather deeply punctate-striate; body beneath pitchy-black; legs pitchy, anterior thighs short, rather thickened, the tibiæ a little bent. (L. 6 l.) London: 4.

2535 † lævis *Ste. M.* v. 426. — Pitchy-chestnut; convex, shining; minutely punctured; elytra broadest behind the middle, obsoletely striate, the striæ composed of minute punctures; legs of equal size, and with the palpi and tip of antennæ dull red. (L. $5\frac{3}{4}$ l.) Stoke Newington: 6.

2536 obscurus *Fab. E.* i. 146. — *Cur.* vii. pl. 351. — *Ste. M.* v. 8. — Black; opaque, very thickly punctured; pitchy beneath: thorax with an obscure dorsal furrow; elytra very obsoletely striated, the striæ obscurely punctured; anterior thighs rather elongate, and a little thickened, their tibiæ slender and bent, obscurely ciliated within. (L. 5-$8\frac{1}{2}$ l.) In bakehouses, &c.: London and Edinburgh; Carlisle; Whittlesea: 4-5.

511 Alphitobius *Stephens.*

2537 picipes *Ste. M.* v. 11. — *Ul. Fagi. Cur.* viii. pl. 363. — Somewhat oblong; above pitchy-black, shining; beneath, and with the mouth, legs, and antennæ rusty-chestnut; thorax somewhat 4-drate, its sides dilated in the middle: elytra finely punctate-striate. (L. $2\frac{1}{2}$ l.) In flour: London; under turf; Copenhagen fields: 5-6.

(2538 mauritanicus *Fab. E.* i. 149. — *Ste. M.* v. 11. note. — Oblong-ovate, pitchy-black above; beneath, the mouth, antennæ, legs, clypeus in front, and anterior angles of the thorax pitchy; thorax somewhat quadrate, narrowed in front; elytra rather deeply punctate-striate. (L. 3 l.) In flour: London: 5-6.)

512 Opatrum *Fabricius.*

2539 sabulosum *L.* ii. 572. — *Samou.* pl. 2. f. 8. — *Ste. M.* v. 17. — Dull ashy-black, opaque: head and thorax roughly punctured; elytra each with 3 obtuse raised lines, each furnished on both sides with small polished approximating tubercles, and with a row of smaller ones near the suture and near the outer margin; antennæ pitchy-black. (L. 3-$4\frac{1}{2}$ l.) Sandy places: London district; Southend; Frostenden; Liverpool: 3-6.

§ B. — Microzoum *De Jean.*

2540 tibiale *Fab. E.* i. 119. — *Cur.* v. pl. 319. — *Ste. M.* v. 17. — Ovate, obtuse, convex; black, slightly shining; thickly punctured; the disc of the thorax with 5 slightly glossy tubercles; elytra with irregular transverse wrinkles and foveæ, each with 2 short ridges; legs pitchy, anterior tibiæ considerably dilated at the apex and triangular, 3-dentate without. (L. $1\frac{1}{2}$-2 l.) Sandy places: London district; Lowestoft; Liverpool; Swansea: 6.

513 Heliophilus *De Jean.*

2541 obsoletus *Marsh.* i. 475. — *Ste. M.* v. 18. pl. xxiv. f. 2. — Black; slightly shining; head and thorax very thickly and finely punctured; elytra faintly striate, striæ punctate; interstices obscurely rugose; body rather thickly punctured beneath. (L. 5 l.) Suffolk coast.

2542 Marshami *Ste. M.* v. 19.—Very convex; above black, slightly shining; beneath pitchy-black; head and thorax very obsoletely and sparingly punctured; the latter with the base bisinuated; clypeus chestnut in front; elytra faintly striated, with smooth interstices; legs and antennæ pitchy-red. (L. 2 l.) Locality unknown.

514 Pedinus *Latreille.*

2543 femoralis *Lat. G.* ii. 165. — *Pz. F.* xxxix. f. 5. ♂.; f. 6. ♀. — *Ste. M.* v. 19. — Black, slightly shining, punctured; thorax with 2 faint foveæ at the base; elytra very delicately punctate-striate, the striæ in pairs; legs black; hinder thighs bent, grooved beneath; tarsi and tip of antennæ pitchy: ♂ with anterior and hinder thighs hirsute within. (L. 4½ l.) Sandy places: Deal: 6.

515 Phylan *Megerle.*

2544 gibbus *Fab. E.* i. 116. — *Ste. M.* v. 20. — Ped. maritimus *Samou.* pl. 4. f. 2. — Black, slightly shining, punctulated; thorax with the sides dilated before the middle, rather suddenly narrowed behind, the angles acute; elytra punctate-striate, interstices roughish, the alternate ones somewhat obtusely raised: ♂ with middle and hinder tibiæ, and base of hinder thighs, fringed with tawny hairs. (L. 3¾-4 l.) Sandy coasts: Southend; Lowestoft; Weston; Gawdy Hall, Norfolk; Swansea: 6-7.

516 Crypticus *Latreille.*

2545 quisquilius *L.* ii. 676. — *Ste. M.* v. 21. — He. laticollis *Pz. F.* xxxvi. f. 1. ♂. — Black; slightly shining; very finely punctured; mouth and palpi pitchy; elytra obsoletely punctured, the punctures in places somewhat in striæ; legs pitchy-black; tarsi and antennæ rusty-piceous. (L. 2-3¼ l.) Sandy places: Devil's Ditch: 6-7.

Fam. 62. DIAPERIDÆ *Westwood.*

dxvii. Alphitophagus *Body* oval, convex: *ant.* slightly clavate; terminal joint longest: *palpi* with apical joint rather thickened: *tho.* transverse, anterior margin rounded: *tibiæ* simple, all similar.

dxviii. Trachyscelis *Body* broadly ovate: *ant.* distinctly clavate; club 6-jointed: *tibiæ* dilated, spinose; anterior serrated without.

dxix. Bolitophagus *Body* ovate, obtuse, convex: *ant.* bent, rather clavate, serrated within: *eyes* lunate: *tho.* with the lateral margins crenated: *legs* stout: *tibiæ* equal, slender.

dxx. Phaleris *Body* ovate: *ant.* slightly thickened at tip, from 4th joint perfoliated: *max. palpi* with terminal joint obtrigonate: *tho.* transverse, slightly notched in front: *tibiæ* elongate 3-jointed, anterior 3-angular, spinous.

dxxi. Diaperio *Body* somewhat hemispherical: *ant.* short, compressed, the 4th and following joints lenticular: *palpi* filiform, terminal joint elongated: *tho.* produced in the middle behind: *tibiæ* spurred at the apex, hinder pair serrated externally.

dxxii. Platydema *Body* ovate, somewhat convex: *ant.* moderate, 4th and following joints conical: *max. palpi* with the terminal joint enlarged, obtrigonate, or somewhat truncate: *tho.* slightly bisinuated at the base; *hinder tibiæ* serrated without.

517 Alphitophagus *Stephens.*

2546 4-pustulatus *Davis.* — *Ste. M.* v. 12. pl. xxiv. f. 1. — Rusty-chestnut, or testaceous, shining; finely punctured; thorax piceous, or with a black patch in front; elytra punctate-striate, with the suture and 2 bands black; the 2d band sometimes with a minute apical dot. (L. 1¼-1¾ l.) In flour, maltings, &c.: London; Cambridge: 6.

518 Trachyscelis *Latreille.*

(2547† Aphodioides *Lat. G.* ii. 177. — *Ste. M.* iii. 214. — Black, shining; thorax deeply punctate; elytra striated; antennæ and legs pale brown. (L. 1¼ l.) Supposed to be taken in the New Forest: 6.)

519 Bolitophagus *Fabricius.*

2548 Agricola *Fab. E.* i. 114. — *Oliv. E.* iii. 11. pl. 1. f. 11. — *Ste. M.* v. 16. — Pitchy-brown, opaque, convex; head reticulate-rugose; thorax thickly rugulose, lateral margins crenulate, hinder angles obtuse; elytra with 8 elevated, acute ridges; intervals with a row of deep circular impressions; legs and antennæ rusty-red. (L. 1½-1¾ l.) Boleti and fungi: Kensington Gardens; Netley; Bristol; Norfolk: 5-6.

520 Phaleria *Latreille.*

2549 cadaverina *Fab. E.* i. 149. — *Sturm. D. F.* ii. pl. xlvii. f. a. — *Ste. M.* v. 15. — Oblong; pale-testaceous, slightly shining; finely punctured; elytra simply striated, the disc mostly with an irregular dusky or blackish patch; abdomen blackish; legs and antennæ pale; anterior tibiæ dilated. (L. 2½-3 l.) Sandy coasts: Isle of Wight; N. coast of Norfolk; Swansea: 6.

521 Diaperis *Geoffroy.*

2550 Boleti *L.* ii. 591. — *Cur.* viii. pl. 358. — *Ste. M.* v. 13. — Gibbous, ovate, shining black; punctured; elytra punctate-striate, with 2 ochreous yellow waved bands across, and a spot at the apex; tarsi pitchy-red. (L. 3-4 l.) On Boleti: Barham; near Hastings; Dalston Hall Wood, Cumberland: 6.

(2551† Hydni *Fab. E.* ii. 585. — *Ste. M.* v. 14. note. — Shining black; elytra punctate-striate, red, with a spot before the middle, a band behind, extending to the outer margin, and the suture black. (L. 3½ l.) Erroneously introduced into the British list.)

522 Platydema *Laporte* and *Brullé.*

2552 violacea *Fab. E.* ii. 586. — *Ste. M.* v. 14. — Ch. dytiscoides *Rossi* i. pl. 2. f. 6. — Oblong-ovate; convex; violet black; finely punctured; elytra punctate-striate; legs rusty-piceous; antennæ pitchy-black, the base and apex pale; mouth dull red. (L. 3-3½ l.) Under bark: New Forest: 6-7.

2553 ænea *Pk. F.* iii. 359. — *Pz. F.* xciv. f 9. — *Ste. M.* v. 14. — Ovate; above brassy-black, beneath rusty-piceous; thorax deeply notched in front, the sides dull red; elytra finely punctate-striate; interstices faintly punctured; legs and base of antennæ pitchy-red, tip of latter pitchy-black. (L. 2½ l.) Stumps of old trees: Kensington Gardens; Hainault; Ripley; Bexley; Leeds; Halifax; Netley, &c.: 5-7.

2554 ahenea *Marsh.* i. 176. — *Ste. M.* v. 14. — Oblong-ovate, blackish-brass, shining, beneath pitchy-red: thorax slightly notched in front; elytra rather deeply punctate-striate; interstices distinctly punctured; legs and antennæ wholly pitchy. (L. 1¼-2 l.) Old trees: London district? Bewdley Forest: 6.

2555 † unistriata *Howitt*? — *Ste. M.* v. 438. — Oblong-ovate, convex; shining, punctured; above pitchy-brown, beneath pitchy-black; head, base of antennæ, and legs red; elytra punctate, with a single stria on each, near the suture. (L. 2¼ l.) In a rotten oak, near Nottingham: 6.

Fam. 63. BLAPSIDÆ *Leach.*

(dxxiii. Misolampus *Ant.* sensibly thickened to the apex, the terminal joint ovate: *head* inflexed: *tho.* rounded in front, somewhat globose: *elytra* united, not mucronated: *legs* slender, *tibiæ* elongated.

dxxiv. Blaps *Ant.* filiform; the terminal joint globose-ovate, with the tip acute: *head* small, rounded: *tho.* somewhat 4-drate, flat: *elytra* flat, margins reflexed; apex more or less mucronate: *legs* robust; *tibiæ* simple.

(523. Misolampus *Latreille.*)

(2556 † Pimelia *Fab. E.* i. 162. — *Ste. M.* v. 22. note. — Black; elytra punctate-striate; thorax rounded in front; antennæ with the apex red. (L. — l.) Said to occur, but I believe improperly, in England.)

524. Blaps *Fabricius.*

(2557 ‡ gigas *L.* ii. 676. — *Herbst. C.* viii. pl. 138. f. 1. — *Ste. M.* v. 23. — Elongate, narrow, black, slightly shining; labrum deeply notched; thorax squarish-heartshape, convex, obsoletely punctured; elytra obscurely punctured, with the suture flat behind, and the apex produced into an elongate process. (L. 17 l.) Said to have been found near Portsea: 6.)

2558 mortisaga *L.* ii. 676. — *Pz. F.* iii. f. 3. — *Ste. M.* v. 23. — Length above twice its breadth; deep obscure black; thorax nearly 4-drate, flat, punctured; elytra smooth, punctured, but viewed laterally appearing striated; back flat; apex of each produced into a shortish furrowed mucro; legs long. ♂ narrow and with the process at the tip of elytra longer. (L. 8-11 l.) Cellars; stables; vaults; &c.: London district; Ely Cathedral; York; Swansea; Newcastle; &c.: ⊙

2559 obtusa *Fab. E.* i. 141.? — *Cur.* iv. pl. 148. — *Ste. M.* v. 23. — Length rarely twice its width, the latter considerable; deep obscure black; thorax broader than long, distinctly punctured; elytra thickly rugose-punctate, the apex obtuse; legs rather short and stout. ♀ with a tuft of hair at the base of the abdomen. (L. 9-12 l.) Houses, stables, &c: Hertford; Cambridge; Brighton; Weston: ⊙

Fam. 64. HELOPIDÆ *Stephens.*

dxxv. Helops *Ant.* somewhat filiform: *tho.* squarish, or rather heart-shaped; *body* oblong-ovate; *elytra* free: *wings* short, or rudimentary.

525 Helops *Fabricius.*

2560 cæruleus *Fab. E.* i. 156. — *Ste. M.* v. 25. — He. violaceus *Samou.* pl. iv. f. 4. — Above blue-black or violet, shining; beneath black; head and thorax thickly punctate, margins raised; elytra punctate-striate, interstices punctured, apex obtuse: tarsi and tip of antennæ pitchy. (L. 8-10 l.) In houses, gardens, &c.: South Lambeth; Camberwell; Darenth; Epping Forest; Bristol; Swansea; Aldbro'; Carlisle: 5-9.

2561 lanipes *L. M.* 533. — *Pz. F.* 1. f. 2. — *Ste. M.* v. 25. — Above brassy black, punctured; beneath black; elytra punctate-striate, interstices punctured; apex of each produced; legs and antennæ brassy: ♂ with the thighs robust, 4 anterior tarsi dilated, and with a dense woolly pile beneath. (L. 7-9 l.) Under stones: Cornwall, and Kingsbridge, Devon: 6.

2562 pallidus *Cur.* v. pl. 298. — *Ste. M.* v. 26. — Ochreous; shining; very

finely punctured; eyes black; thorax transverse, a little narrowed behind, with rectangular angles; elytra irregularly punctate-striate, suture, tips of thighs and claws dull red. (L. 4-5 l.) Sandy coasts: Barmouth; Swansea: 6.

2563 striatus *Oliv. E.* iii. 6. pl. 1. f. 4. — *Ste. M.* v. 26. — Above brownish-brass, glossy; beneath pitchy-chestnut; punctured; thorax short, transverse-4-drate, the sides rounded to the hinder angles, which are not rectangular; elytra simply punctate-striate, interstices confluently punctured; legs and antennæ pitchy: ♂ with 4 anterior tarsi dilated and pilose beneath. (L. 3-5 l.) Under roots and bark of trees: widely distributed: ⊙.

(2564 † quisquilius *Fab. E.* i. 163. — *Pz. F.* 1. f. 5. — *Ste. M.* v. 26. note. — Black, with the antennæ and legs dull red. (L. 3 l.) Erroneously said to be British.)

Fam. 65. CISTELIDÆ *Leach.*

dxxvi. Eryx *Body* broad, ovate, flattish: *ant.* rather short, terminal joint somewhat ovate-acute: *max. palpi* with apical joint obliquely truncate: *mand.* bifid: *tho.* semicircular: *legs* moderate; *tarsi* pulvillate.

dxxvii. Mycetocharus *Body* narrow, linear-elongate, slightly convex, and pubescent: *ant.* longish, terminal joint somewhat orbicular: *max. palpi* distinctly hatchet-shaped: *mand.* bifid: *tho.* nearly quadrate: *legs* moderate; *tarsi* not pulvillate, long.

dxxviii. Cistela *Body* ovate, arched, narrowed at each end: *ant.* long, sometimes serrated: *max. palpi* somewhat hatchet-shaped: *mand.* bifid: *tho.* semicircular: *legs* rather long.

dxxix. Omophlus *Body* elongate-ovate, flattish: *ant.* short, compressed, simple: *max. palpi* clavate, slightly hatchet-shaped: *mand.* acute at the tips: *tho.* widest in front: *elytra* elliptical: *legs* moderate.

(dxxx. Megischia *Body* elongate-ovate: *ant.* slightly thickened towards the tips: *palpi* filiform, terminal joint scarcely enlarged: *mand.* entire: *tho.* narrowed behind.)

dxxxi. Cteniopus *Body* elongate: *ant.* very slender, filiform: *max. palpi* with terminal joint rather larger than the preceding, and truncate obliquely: *mand.* entire: *tho.* subquadrate, slightly narrowed behind: *eyes* prominent: *head* produced in front.

526 Eryx *Stephens.*

2565 niger *De Geer*, iv. 25. pl. 1. f. 23, 24. — *Ste. M.* v. 27. — Black, slightly shining; clothed with a very short black pile, thickly but obscurely punctured; elytra faintly punctate-striate; legs, antennæ, and mouth pitchy-black. (L. 5-7 l.) Under bark, &c.: Walthamstow; Coombe Wood; Hammersmith; Cambridge; Windsor; Norwich: 3-7.

527 Mycetocharus *Latreille.*

2566 scapularis *Gyll.* ii. 549. — *Ste. M.* v. 28. — Cis. humeralis *Pz. F.* xxv. f. 14. — Linear-elongate; black, shining; mouth, base of the antennæ, tibiæ, tarsi, and an ovate spot on the shoulders of the elytra testaceous-red. (L. 2½-3 l.) Old posts, &c.: Copenhagen fields; Coombe Wood; Ripley; Bottisham; Swansea; New Forest: 5-7.

528 Cistela *Fabricius.*

2567 Ceramboides *L.* ii. 602. — *Cur.* xiii. pl. 594. — *Ste. M.* v. 29. — Black, with a delicate silken pile; finely punctured; elytra punctate-striate, pale testaceous; antennæ long, acutely serrated within, especially of the ♂. (L. 5-5½ l.) Umbelliferous flowers in hedges: Hertford;

Darenth Wood; Sydenham; Camberwell; Cambridge; Parley Copse; Leominster: 6-7.

2568 castanea *Marsh.* i. 223. — *Ste. M.* v. 29. — Rusty-red, or chestnut, shining; head brownish; head and thorax punctured; elytra punctate-striate, interstices slightly punctulate; legs and antennæ pale testaceous, the latter very long. (L. 4½-5 l.) On flowers; widely distributed: 6-7.

2569 fulvipes *Fab. E.* ii. 19. — *Ste. M.* v. 29. — Ci. Luperus *Herbst. A.* pl. 23. f. 10. — Shining black, sometimes with a brassy tinge: mouth, labrum, anterior ridge of the forehead and antennæ dull red, the latter long; elytra punctate-striate, interstices punctured; legs entirely testaceous-red; tip of antennæ rather dusky. (L. 4-5 l.) Hedges: Hertford; Darenth; Birchwood, Dover; Norfolk: 6-7.

2570 † nigrita *Fab. E.* ii. 20. — *Ste. M.* v. 426. — Deep black; antennæ and legs concolorous; elytra slightly striated. (L. 4½ l). Netley: 6.

2571 murina *L.* ii. 602. — *Mart. C.* pl. 16. f. 32. — *Ste. M.* v. 30. — Black, above opaque, clothed with a delicate silken pile; base of antennæ, legs, and elytra testaceous-yellow, the latter faintly striate; tip of antennæ fuscous. (L. 2½-3 l.)

Var. ? Ci. fusca *Marsh.* i. 223. — *Pz. F.* xxv. f. 19.? — *Ste. M.* v. 30. — Elytra, and sometimes the thighs, black-brown. Hedges: London district; New Forest; Cambridge; Wood Ditton; S. Wales; Dumline; Dalmeny: 6.

529 OMOPHLUS *De Jean.*

2572 † Amerinæ *Cur.* xiii. pl. 622. — Black, shining; minutely punctured; elytra testaceous, slightly pubescent, and with some faint punctured striæ; tibiæ slightly chestnut at the tip; tarsi pale chestnut. (L. 3½-4 l.) On the thrift: Clesil Bank, Isle of Portland, and near Weymouth: 6-8.

(530 MEGISCHIA *Solier.*)

(2573 † curvipes *De Jean. C.* p. 235. — *Ste. M.* v. 426. — Black; elytra testaceous; tibiæ slightly bent; tarsi chestnut. (L. 4 l.) Introduced in mistake for Omophlus Amerinæ.)

531 CTENIOPUS *Solier.*

2574 sulphurea *L.* ii. 602. — *Mart. C.* pl. 17. f. 44. — *Ste. M.* v. 31. — Pale sulphureous-yellow; tarsi and antennæ dull red; tip of the latter and of the mandibles, as also the maxillary palpi, brownish; elytra very obsoletely striated. (L. 4-4½ l.)

Var. ? Ci. bicolor *Fab. E.* ii. 18. — *Pz. F.* xxxiv. f. 8. — *Ste. M.* v. 31. — Black; mouth, elytra, and legs sulphureous; thorax fuscescent, or black; tarsi obscure. On flowers: Dover; Norfolk: Devil's Ditch, Gog-magog Hills, &c., Sketty-burrows, S. Wales; &c.: 6-8.

Fam. 66. LAGRIIDÆ *Westwood.*

dxxxii. LAGRIA *Body* oblong, hairy: *tho.* cylindric, much narrower than the *elytra*; the latter ample, soft: *tibiæ* slender, spurless; *tarsi* spongy beneath. ♂ with the apical joint of antennæ very long.

532 LAGRIA *Fabricius.*

2575 hirta *L.* ii. 602. — *Ste. M.* v. 33. — *Cur.* xiii. pl. 598. — Black, slightly shining, villose; elytra broad, pale testaceous, thickly rugose-punctate; ♂ narrow and with the terminal joint of the antennæ elongate. (L. 3-4½ l.) Flowers and hedges: generally distributed: 6-8.

Fam. 67. MELANDRYIDÆ *Leach.*

dxxxiii. MELANDRYA *Body* elongate-ovate, narrowed in front, flattish: *ant.* short, bent, somewhat filiform: *head* nutant: *tho.* somewhat trapeziform:

max. palpi large, 4-jointed, serrated, terminal joint robust, ovate, inner margin fleshy.

dxxxiv. PHLOIOTRYA *Body* oblong, convex; *ant.* short, slightly thickened at tip: *head* deflexed: *tho.* orbicular in front, sinuated behind: *max. palpi* elongate, deflexed, terminal joint somewhat linear.

(dxxxv. XILITA *Body* elongate; somewhat cylindric: *ant.* short, bent, the apical joint with an abrupt appendage: *head* deflexed: *eyes* lunate: *tho.* acuminated in front, waved behind: *max. palpi* slender, bent, terminal joint large, 3-angular, with a groove within.)

dxxxvi. DIRCÆA *Body* oblong, convex: *ant.* slightly thickened at the tips: *head* smooth, deflexed: *tho.* rather longer than broad: *max. palpi* with terminal joint hatchet-shaped.

dxxxvii. HYPULUS *Body* elongate, somewhat convex: *ant.* nearly filiform, 2d joint shorter than 3d: *head* deflexed: *tho.* elongate, narrowed behind; *max. palpi* with the terminal joint ovate-conic, compressed.

dxxxviii. ABDERA *Body* elongate-ovate: *ant.* slightly thickened at the tips, 2d and 3d joints of equal length: *head* deflexed: *tho.* broadest behind: *max. palpi* with the apical joint ovate.

dxxxix. SCRAPTIA *Body* ovate-oblong, soft: *ant.* filiform, naked, joints short: *head* prominent, deflexed: *tho.* somewhat orbicular, transverse behind: *max. palpi* with terminal joint large, hatchet-shaped; *labi.* with apical joint ob-3-gonate.

dxl. HALLOMENUS *Body* oblong-ovate, flattish: *ant.* filiform, stoutish: *head* inflexed: *tho.* truncate in front, broad behind: *palpi* nearly filiform, *labi.* with terminal joint minute: *tarsi* entire.

dxli. ORCHESIA *Body* elongate-ovate, convex: *ant.* clavate: *head* inflexed; *eyes* elongate: *tho.* somewhat orbicular, hinder angles acute: *max. palpi* with terminal joint rather hatchet-shaped: *legs* slender; *hinder tibiæ* short, with 2 long spurs at the apex; 2 hinder *tarsi* simple, the *anter.* with penult. joint bilobed.

533 MELANDRYA *Fabricius.*

2576 caraboides *L.* ii. 602. — *Mart. C.* pl. 17. f. 58. — *Ste. M.* v. 34. — Black; slightly pubescent and shining; thorax flattish, with a small oblong fovea at the base on each side; elytra bluish, obsoletely sulcated, interstices striated, and thickly rugose punctate; terminal joint of tarsi and of antennæ dull red. (L. 4-7 l.) Bark of trees: widely distributed: 6.

2577† canaliculata *Fab.* i. 164. — *Cur.* iv. pl. 155. — *Ste. M.* v. 34. — Black; slightly pubescent; thorax with the disc a little raised, with a dorsal furrow, and 2 elongate foveæ at the base; elytra with broad flat sulci, the interstices forming 4 elevated ridges on each; tips of apical joints of tarsi and of antennæ testaceous. (L. 5-6 l.) Old trees: New Forest, near Brockenhurst: 6.

534 PHLOIOTRYA *Stephens.*

2578 rufipes *Gyll.* ii. 519. — *Ste. M.* v. 35. pl. xxiv. f. 4. — Pitchy-brown; slightly pubescent; thickly punctured; anterior ridge of thorax and body beneath rusty pitchy; legs entirely and base of antennæ testaceous, tip of the latter fuscous: elytra sometimes dull testaceous. (L. 4-7 l.) Old oaks: Windsor and New Forests; Tunbridge Wells: 6.

(535 XILITA *Fabricius.*)

(2579† buprestoides *Pk. F.* i. 249. — *Ste. M.* v. 36. note. — Ly. lævigatum *Pz. F.* xxiv. f. 16. — Pitchy-brown, pubescent; thickly punctured; antennæ at the base, and the tibiæ and tarsi, rusty-brown. (L. 6? l.) Recorded in mistake as British.)

536 Dircæa *Fabricius.*

2580 † variegata *Fab. E.* ii. 90. — *Act. N. H. Paris* i. pl. 10. f. 2. — *Ste. M.* v. 36. — Fuscous; head and thorax spotless; elytra smooth, pale testaceous, varied with fuscous; body testaceous; antennæ pale testaceous. (L. 3 l.) Old trees: Windsor?

537 Hypulus *Paykull.*

2581 Quercinus *Pk. F.* i. 252. — *Ste. M.* v. 37. pl. xxiv. f. 5. — Pitchy-red, pubescent; thorax dusky, with a deep fovea on each side at the base: elytra dull red, with an arch at the base, an irregular band behind the middle, not touching the margin, and the apex black: legs pale, antennæ dull, red. (L. 3-3½ l.) Old trees: Darenth and Coombe woods; Godstone; Wood Ditton, &c.: 5-6.

538 Abdera *Stephens.*

2582 bifasciata *Marsh.* i. 493. — *Ste. M.* v. 38. — Hy. biflexuosus *Cur.* vi. pl. 253. — Pitchy-black; pubescent; finely punctured; elytra glabrous, with 2 testaceous-yellow waved bands, the broadest before, and the other behind, the middle; legs and antennæ pitchy testaceous. (L. 1½-2 l.) Hedges: Ripley; Southgate; Highgate; Wimbledon Common: 6.

2583 4-fasciata *Cur.* fo. 255. — *Ste. M.* v. 38. pl. xxiv. f. 6. — Black; slightly pubescent; mouth and labrum testaceous; anterior and posterior margins of thorax the same; elytra with a waved testaceous band before the middle, and a narrower flexuous one behind; legs and base of antennæ pale testaceous, tip of the latter fuscous. (L. 1½-1¾ l.) Hedges: New Forest; Shropshire: 6.

2584 † picea *Ent. M.* (*Walker*) iii. 83. — Piceous; shining, finely punctured; nearly glabrous; eyes pitchy-black; thorax tawny, disc pitchy; legs tawny; antennæ fuscous with the base tawny. (L. 1¾ l.) Near London: 6?

539 Scraptia *Latreille.*

2585 † fusca *Lat. G.* ii. 200. — *Ste. M.* v. 39. — Dusky brown; obscure, clothed with a fine villous down; beneath darker and more glossy; thorax short, semicircular; elytra finely punctulated; legs pale brown; tibiæ and tarsi dull red. (L. 1¾ l.) Near Windsor: 6.

2586 nigricans *Ste. M.* v. 39. pl. xxiv. f. 3. — Dusky pitchy, with a fine golden pile above; thorax with an obscure fovea on each side of the base; elytra rather paler than the thorax, very finely punctulated; legs entirely pale testaceous; antennæ fuscous. (L. 1½ l.) Gardens: Ripley: 7.

540 Hallomenus *Paykull.*

2587 fuscus *Gyll.* iv. 58. — *Ste. M.* v. 40. — Pitchy-brown; pubescent; rugose punctate; mouth, antennæ, legs and limb of the elytra testaceous; thorax with a fovea on each side at the base. (L. 1-2 l.) London district: 6.

2588 flexuosus *Pk. F.* ii. 182. — *Cur.* x. pl. 474. — *Ste. M.* v. 426. — Testaceous above; nearly smooth; the crown, middle of the thorax, the scutellum, and 2 narrow, very much angulated bands on the elytra black. (L. 1¼-1¾ l.) On fungi on willows: Cambridge; Peterborough: 5-6.

2589 dimidiatus *Ste. M.* v. 426. — Brown-black; slightly pubescent; elytra testaceous-brown, spotless, impunctate; thorax with 2 rather deep longitudinal foveæ at the base, near the hinder angle; legs and antennæ red-brown. (L. 1⅓ l.) North of England: 6.

541 Orchesia *Latreille.*

2590 micans *Ill. K.* i. 135. — *Ste. M.* v. 41. — Me. picea *Pz. F.* xvii. f. 17. — Above pitchy-brown, or testaceous, with a silken pile, finely rugose-

punctate; elytra rather paler, spotless; apex sometimes palish; mouth, palpi, legs, antennæ, and body beneath dull-red; eyes black. (L. 2-2¼ l.) On Boleti: London district; Bottisham; S. Wales; Barmouth: 5-6.

2591 minor *Ent. M.* (*Walker*) iii. 83. — Pitchy-brown, with a silken pile; very finely punctulate; head, thorax, breast, abdomen, and legs pitchy; palpi dull red; antennæ slender, somewhat clavate, dull pitchy, the base and under side dull red. (L. 1½ l.) New Lanark, and near London: 6.

2592† fasciata *Pk. F.* ii. 182. — *Cur.* v. pl. 197. — *Ste. M.* v. 41. — Pitchy-brown, or dull red; minutely punctured; and with a short yellowish pile; eyes black; elytra testaceous, with a double spot near the base, a bent one before the middle, and a broad band behind, with the apex, black; legs and antennæ dull red. (L. 2 l.) Beat out of whitethorn, near Lyndhurst: 6.

Fam. 68. MORDELLIDÆ *Leach.*

dxlii. Anaspis *Scutel.* distinct: *abdomen* not armed with an anal style: *ant.* a little thickened at the tips; joints short, conic-cylindric: *hinder tibiæ* with long spurs at the tip; 4 anterior *tarsi* with penult. joint bilobed.

dxliii. Mordella *Scutel.* distinct: *abdomen* with an elongate acute style at the apex: *ant.* short, slightly serrated: *tho.* lobed behind: *hinder tibiæ* with long apical spurs; *tarsi* entire.

dxliv. Ripiphorus *Scutel.* concealed: *eyes* remote: *body* compressed: *elytra* rather shorter than the body, acuminated, gaping: *wings* exposed: *ant.* of ♂ bipectinated; of ♀ semiserrated.

(dxlv. Ripidius *Scutel.* concealed: *eyes* large, united above: *elytra* very short, dilated externally at the base, attenuated at the apex: *wings* ample, exposed: *ant.* of ♂ very deeply pectinated; ♀ apterous?)

542 Anaspis *Geoffroy.*

2593 frontalis *L.* ii. 682. — *Wood.* i. pl. 28. — *Ste. M.* v. 42. — Black, with a brown pile; mouth, labrum, base of antennæ, and anterior legs pale testaceous; middle thighs pitchy; anterior margin of forehead in ♂ testaceous-yellow, in ♀ pitchy-red. (L. 1-2 l.) Flowers and hedges: generally distributed: 5-7.

2594 lateralis *Fab. E.* ii. 125. — *Ste. M.* v. 43. — Black, with a brown pile; mouth, labrum, and forehead, and sides of the thorax, broadly testaceous; 4 anterior legs entirely, and base of hinder thighs, testaceous-yellow; rest of hinder legs brownish; base of antennæ yellowish. (L. 1½-1¾ l.) Hedges: Ripley; S. Wales: 6-7.

2595 ruficollis *Oliv. E.* iii. 9. pl. 1. f. 9. — *Ste. M.* v. 43. — Black, with a dusky pile; mouth, base of antennæ, and legs yellowish; tips of antennæ and of joints of tarsi dusky; thorax reddish-yellow. (L. 1-1⅛ l.) Flowers: generally distributed: 6-7.

2596 fuscescens *Ste. M.* v. 43. — Black, with a fuscous pile; head, thorax, and legs entirely testaceous-yellow; eyes black; base of antennæ pale testaceous; apex fuscescent. (L. 1¼-1¾ l.) On flowers: South Lambeth and Ripley: 6-7.

2597 thoracica *L.* ii. 682. — *Oliv. E.* iii. 9. pl. 1. f. 10. — *Ste. M.* v. 44. note. — Black; slightly pubescent; head, thorax, base of the antennæ, and the 4 anterior legs testaceous-yellow. (L. 1½ l.) Flowers: London district: 6-7.

2598 melanopa *Forst. C.* i. 64. — *Ste. M.* v. 44. — Testaceous-yellow; pubescent; eyes, breast, and abdomen black; elytra with 3 broadish spots, 1 basal, the 2d a bent band-like one, the 3d common and near the apex; tips of the antennæ and of the joints of the tarsi dusky: — disc of thorax

sometimes with a dusky spot. (L. 1½ l.) Abundant in flowers, everywhere: 5-7.

2599 pallida *Marsh.* i. 492. — *Ste. M.* v. 44. — Pale testaceous, pubescent; spotless; eyes black; breast, abdomen, and tip of the antennæ dusky-black; legs wholly testaceous. (L. 1¼-1½ l.) Flowers: South Lambeth and Ripley: 6-7.

2600 lurida *Kirby.* — *Ste. M.* v. 44. — Lurid-testaceous, slightly pubescent; eyes black; elytra with the apex somewhat brownish; abdomen black: legs and base of antennæ pale testaceous, tip of latter blackish. (L. 1½ l.) Flowers: London district; Suffolk: 6.

2601 flava *L.* ii. 682. — *Pz. F.* xiii. f. 14. — *Ste. M.* v. 45. — Testaceous-yellow, slightly pubescent; eyes, breast, and abdomen black; elytra testaceous, the tip more or less indeterminately brownish; legs and base of antennæ pale yellow, apex of the latter dusky. (L. 1-1¼ l.) Flowers: London district; S. Wales: 6.

2602 subtestacea *Ste. M.* v. 45. — Mo. testacea *Marsh.* i. 493. — Testaceous; slightly pubescent, shining; eyes alone and tip of antennæ black. (L. 1½ l.) Flowers: London district: 6.

2603 fusca *Marsh.* i. 493. — *Ste. M.* v. 45. — Pale dull yellow, very pubescent; elytra obscure, somewhat fuscous; eyes black: tip of antennæ fuscous. (L. 1½ l.) Flowers: London district: 6.

2604 testacea *Forst. C.* i. 63. — *Ste. M.* v. 45. — Testaceous; slightly pubescent: head black; thorax dull testaceous, sometimes fuscescent; legs and antennæ entirely pale testaceous. (L. 1½ l.) Flowers: London district: 6.

2605 subfasciata *Ste. M.* v. 45. — Black, slightly pubescent: mouth and base of antennæ, margins of thorax, tibiæ and tarsi testaceous-yellow: elytra testaceous, the suture, a 3-angular patch at the base, and a wide central band fuscous; thighs pitchy-black; tip of antennæ dusky. (L. 1½ l.) Flowers: London district: 6.

2606 4-pustulata *Marsham.* — *Ste. M.* v. 46. — Black; slightly pubescent: elytra with a large pale testaceous-red blotch at the base, and a smaller one near the apex. (L. 1½ l.) Flowers: London district; Bristol and Suffolk: 6.

2607 fasciata *Forst. C.* i. 65. — *Ste. M.* v. 46. — Fuscous-black, pubescent: mouth and base of antennæ testaceous; elytra also testaceous, with a broad band in the middle, the suture narrowly and the apex black; legs and tip of antennæ fuscous. (L. 1¼-1½ l.) Flowers: London and Edinburgh districts; Cambridge: 6.

2608 4-notata *Ste. M.* v. 46. — Black, slightly pubescent; mouth and base of antennæ testaceous-yellow, apex of the latter fuscous: thorax spotless; elytra black, with 4 testaceous spots. (L. 1½ l.) Flowers: Ripley; Hertford, &c.: 6.

2609 biguttata *Marsh.* i. 492. — *Ste. M.* v. 46. — Black; slightly pubescent; mouth and base of antennæ testaceous; elytra with an irregular broad yellowish patch at the base, towards the outer margin. (L. 1¼ l.) Flowers: London district; Bottisham; Cambridge; Weston; S. Wales: 6-7.

2610 scapularis *Ste. M.* v. 47. — Deep black, slightly pubescent and shining; elytra with an indistinct ovate yellowish spot placed obliquely at the base. (L. 1¾ l.) Flowers: Bristol: 6.

543 Mordella *Linné.*

2611 abdominalis *Fab. E.* ii. 125. — *Ste. M.* v. 47. — *Cur.* xi. pl. 483. — Black; finely punctured: mouth and palpi testaceous; thorax and ab-

domen testaceous yellow; the latter with a black style; anterior legs testaceous, middle pitchy, hinder black; antennæ dusky-black, basal and terminal joints testaceous. (L. 2½-3¼ l.) Hedges: Copenhagen fields; Coombe Wood; Ripley; Monk's Wood; New Forest; Swansea: 6-7.

2612 aculeata *L.* ii. 682. — *Shaw G. Z.* vi. pl. 38. — *Ste. M.* v. 48. — Black, with a silken pile; mouth pitchy; thorax short, transverse, the base waved, disc very convex; elytra attenuated, with a single stria towards the suture; body with a silvery pile beneath, its apex with an elongate style; antennæ distinctly serrated. (L. 2-2¼ l.) Hedges: Ripley; Hertford; Monk's Wood; Swansea; Scotland: 6.

2613 pumila *Gyll.* ii. 605. — *Ste. M.* v. 48. — Black; spotless; with a dark silken pile; mouth pitchy; thorax somewhat 4-drate, rather longer than broad, base 2-sinuated, middle lobe notched; elytra nearly linear; body slightly shining beneath, its apex with an elongate style; antennæ filiform, scarcely serrated. (L. 1¾-2 l.) Flowers: Coombe Wood; Hertford; Ripley; S. Wales: 6-7.

2614 parvula *Gyll.* iv. 519. — Black, spotless, with a bright griseous silken pile; thorax nearly as wide as long, base slightly 2-sinuated, middle lobe rounded, entire; abdomen rather glossy, anal style very short, conical, thickened at the base; mouth and base of antennæ pitchy; anterior thighs sometimes dull testaceous. (L. 1¾-1½ l.) Flowers: Dulwich; Penge Wood, &c.: 6.

2615 ruficeps *Stephens.* — Black; clothed with a griseous silken pile: head red; eyes brown: thorax rather long, deeply 2-sinuated behind, the middle lobe notched; elytra densely pubescent; abdomen with an elongate, slender acute style; 4 anterior thighs and base of their tibiæ bright testaceous, apex of the latter dusky; posterior tibiæ reddish, and antennæ reddish at the base. (L. 1½ l.) Flowers: near Camberwell: 6.

2616 ventralis *Fab. E.* ii. 125. — *Ste. M.* v. 48. — Black, with a silken pile; mouth and base of the antennæ dull testaceous; thorax black, 4-angular, with an ashy pile; elytra considerably attenuated behind, with a rusty pile; abdomen testaceous-yellow, with a longish style, black at tip, and testaceous at base; antennæ pitchy. (L. 2½ l.) Hedges: Darenth Wood; Ripley; Hertford: 6-7.

2617 humeralis *L.* ii. 682. — *Pz. F.* lxii. f. 3. — *Ste. M.* v. 49. — Black, with an ashy pile; mouth, base of the antennæ, and thorax entirely testaceous-yellow; elytra somewhat linear, with a wedge-shaped testaceous-yellow spot on the shoulder; 4 anterior legs testaceous; forehead pitchy-red. (L. 2½ l.) Flowers: Hertford: 6.

2618 variegata *Fab. E.* ii. 122. — *Ste. M.* v. 49. — Mo. dorsalis *Pz. F.* xlii. f. 15. — Black; with an ashy pile; mouth and thorax testaceous-yellow, the latter with a large basal black spot, and sometimes with the anterior edge brownish; elytra with a large elongate pale testaceous streak at the base, narrowed behind, and extending nearly to the middle; legs and antennæ entirely testaceous: — thorax sometimes black, with the sides testaceous. (L. 2-2½ l.) Hedges: Ripley and Darenth Wood: 6-7.

2619 flavescens *Marsh.* i. 490. — *Ste. M.* v. 50. — Dull red, pubescent; paler beneath; eyes black; anal style elongate, chestnut or brownish; legs and antennæ paler dull red: — elytra sometimes dusky. (L. 2½ l.) Hedges: Ripley; Coombe Wood, Darenth Wood, Hertford; S. Wales: 6-7.

(2620† brunnea *Fab. E.* ii. 125. — *Ste. M.* v. 50. note. — Head and thorax testaceous, spotless; elytra testaceous, with the tip obscure; abdomen brownish, with the anal style black; legs and base of antennæ testaceous, tip of the latter fuscous. (L. 2½ l.) Improperly recorded as British.)

2621 fasciata *Fab. E.* ii. 122. — *Samou.* pl. 4. f. 8. — *Ste. M.* v. 50. — Black, thickly punctulated; densely clothed with an ashy pile; thorax with 2 ashy pilose lines and the sides the same; elytra with a single sutural stria on each, the suture and disc variegated with ashy down; behind the middle of the latter a whitish spot of the same; anal style short; antennæ slender, serrated. (L. 3-5 l.) On flowers: New Forest; Monk's Wood; Dover; Swansea: 6-7.

544 RIPIPHORUS *Fabricius.*

2622 paradoxus *L.* ii. 682. — *Cur.* i. pl. 19. — *Ste. M.* v. 51. — Black; slightly pubescent; thorax with a deep groove, the hinder angles testaceous; abdomen testaceous-yellow, with its apex often black: ♂ generally with the elytra testaceous tipped with black, sometimes all black, or intermediate. (L. 6-9 l.) In wasps' nests, and on flowers: Coombe Wood; Godstone; Cambridge; Netley: 7-9.

(545 RIPIDIUS *Thunberg.*)

(2623 anceps *Ste. M.* v. 427. — Pitchy-black; slightly glossy; eyes deep black, granulated; thorax very rough; elytra smooth, pale pitchy-brown; legs pale fuscous, with the joints pale at their origin; antennæ of a pale whitish ochre. (L. 2 l.) Among papers: London: perhaps not truly indigenous.)

Fam. 69. CANTHARIDÆ *Leach.*

dxlvi. SITARIS *Ant.* simple: *palpi* filiform; *max.* with terminal joint somewhat ovate: *head* inflexed: *tho.* orbiculate-quadrate: *elytra* shorter than the body, much narrowed towards the tip, and gaping: *wings* 2, ample.

dxlvii. PROSCARABÆUS *Ant.* thickened in the middle, distorted, especially in the ♂: *palpi* with terminal joint thickened: *head* vertical, broader than the *thorax*, the latter squarish, flat on the back: *elytra* very short, lapping over each other at the base: *wings* 0.

dxlviii. MELOË *Ant.* filiform, or rather thickened at the tips; not distorted: *palpi* with the terminal joint slightly thickened, or acute: *head* scarcely wider than thorax, which is transverse-quadrate: *elytra* very short, lapping over each other at the base: *wings* 0.

dxlix. CANTHARIS *Ant.* elongate, simple, filiform: *max. palpi* with terminal joint somewhat ovate: *head* large, heart-shaped; *tho.* small, rather quadrate, narrower than the *elytra*, which are as long as the abdomen, soft, linear, the apex slightly gaping: *wings* 2, ample.

dl. SYBARIS *Ant.* elongate, simple, filiform: *max. palpi* with terminal joint hatchet-shaped: *head* deflexed, very broad: *tho.* elongate, somewhat conic, narrowed in front: *elytra* wider than thorax, soft, linear, as long as abdomen, apex not gaping; *wings* 2, ample.

546 SITARIS *Latreille.*

2624 humeralis *Fab. E.* ii. 371. — *Cur.* viii. pl. 340. — *Ste. M.* v. 53. — Black; coarsely punctured; elytra finely punctured, of a dusky violaceous-black, with the base yellowish, attenuated from the shoulders, and subulated. (L. 5-6½ l.) Banks: parasitic on Anthophoræ? Chelsea; New Forest; Oxford; Devonshire; Warwickshire; Kent: 6-8.

547 PROSCARABÆUS *Leach.*

2625 violaceus *Marsh.* i. 482. — *Lin. Tr.* xi. pl. vii. f. 3, 4, 5. — *Ste. M.* v. 65. — Violet; head and thorax finely punctured; the latter with a notch behind; elytra rough: abdomen dark, with a rough violet spot on

each segment. (L. 4 l. — 1 in. 3 l.) Meadows, &c. : widely distributed : 4-6.

2626 vulgaris *Ste. M.* v. 66. — Me. proscarabæus *L.* ii. 679. — *Lin. Tr.* xi. pl. vii. f. 6, 7. — Black with a bluish tinge; head and thorax punctured, and with their sides violet; the latter margined behind; elytra rough; abdomen with a rough patch on each segment; legs and antennæ violet, tip of latter pitchy. (L. 3 l. — 1 in. 7 l.) Meadows and grassy banks : widely distributed : 4-5.

2627 rugicollis *Ste. M.* v. 66. — Black, head and thorax roughly punctured, their sides violet, the latter with the hinder margins entire : elytra rather short, and nearly smooth; abdomen glabrous, slightly rugose; legs and antennæ tinted with violet, rather slender. (L. 9-12 l.) Meadows : London district and Devonshire : 4-5.

2628 tectus *Pz. F.* x. f. 14. — *Lin. Tr.* xi. pl. vii. f. 8, 9. — *Ste. M.* v. 67. — Black; head and thorax punctured, the former violet, the latter margined and slightly notched behind; elytra elongate, rather rough; abdomen short, roughish; legs robust, and antennæ purplish-violet; the 3 middle joints of the latter very short, apex pitchy. (L. 8-12 l.) Heaths : Hampstead; Swansea : 4-5.

2629 autumnalis *Oliv. E.* vi. 45. pl. 1. f. 2. — *Ste. M.* v. 67. — Me. glabratus *Lin. Tr.* xi. pl. vii. f. 1, 2. — Purplish, or violet-black, sometimes brassy; head, thorax, and elytra glabrous, with faint punctures, crowded on the elytra; abdomen smooth above, very much punctured beneath; antennæ dusky, tip pitchy. (L. 5-7½ l.) Heaths : Dartford; Exmouth and Tavistock : 9-10.

548 MELOË *of Authors.*

2630 brevicollis *Fab. E.* ii. 588. — *Lin. Tr.* xi. pl. vi. f. 9. ♀. — *Ste. M.* v. 68. — *Cur.* vi. pl. 279. ♂. — Black; deeply punctured; thorax transverse, very short, deeply notched behind; elytra roughish, with the apex rounded; antennæ rather thickened towards the apex : ♂ with the head wider than the thorax, and the elytra covering the abdomen. (L. 5-9 l.) Sandy heaths : Ockham Heath, near Ripley; Tavistock; Christchurch; Windsor : 4.

2631 punctatus *Fab. E.* ii. 588. — *Ste. M.* v. 68. — *Lin. Tr.* xi. pl. vi. f. 7, 8. — Black; head and thorax with confluent punctures; elytra irregularly punctured, the punctures confluent and the interstices glabrous; suture slightly pilose. (L. 5-9 l.) Meadows : near Margate : 10-4.

2632 cicatricosus *Leach.* — *Lin. Tr.* xi. pl. vi. f. 5, 6. — *Ste. M.* v. 68. — Black, obscure; head and thorax thickly and very coarsely punctured, the latter transverse; elytra bluish-black, with confluent shining glabrous elevations, the interstices rough : ♀ with the elytra obliquely truncate. (L. 1 in. — 1 in, 10 l.) Meadows : Southend; Margate; Ramsgate : 4-5.

2633 variegatus *Don.* ii. pl. 67. — *Lin. Tr.* xi. pl. vi. f. 1, 2. — *Ste. M.* v. 69. — Somewhat brassy; tinted with purple-violet; head and thorax punctate; elytra with raised shining confluent points, interstices obscure : abdomen with the dorsal segments anteriorly golden-green, and posteriorly violet-red copper, beneath variegated with purple and gold. (L. 8 l. — 1 in. 10 l.) Meadows : Isle of Thanet, between Broadstairs and Ramsgate : 4-5.

549 CANTHARIS *Geoffroy.*

2634 vesicatoria *L.* ii. 679. — *Ste. M.* v. 70. — *Cur.* xiv. pl. 658. — Bright glossy brassy-green or bluish, glabrous; beneath more glossy and with a few hairs; breast densely pubescent, finely punctured; head and thorax with a longitudinal channel; elytra with 2 slightly raised lines; tarsi

violaceous; antennæ black, with the basal joint brassy. (L. 6-11 l.) On the ash tree: Cheltenham; Bottisham; Hitcham, and near London: 6.

550 Sybaris *Stephens.*

2635 immunis *Marsham.* — *Ste. M.* v. 70. pl. xxv. f. 4. — Fuscous, with a fine glossy pile; head and thorax testaceous; labrum and palpi black; elytra lurid-yellow, with 4 obscurely raised lines; legs pale yellow, the coxæ, knees, and tarsi, black. (L. 5½ l.) Rochford, Essex.

Fam. 70. ŒDEMERIDÆ *Leach.*

dli. Ischnomera *Body* elongate; *ant.* filiform, not serrated, terminal joint abruptly ending in a point: *head* produced in front: *tho.* oblong, not margined, narrowed behind: *elytra* somewhat linear, sometimes slightly narrowed behind, not subulated: *thighs* all slender.

dlii. Œdemera *Body* elongate, somewhat linear: *ant.* setaceous, terminal joint acute: *head* produced in front: *tho.* rather 4-drate, the base narrowed; not margined: *elytra* elongate, subulate, divaricating. ♂ with *hinder thighs* much incrassated.

dliii. Oncomera *Body* elongate, flattish: *ant.* setaceous; terminal joint abruptly narrowed in middle: *head* produced in front: *tho.* oblong, sides deflexed: *elytra* elongate, somewhat linear, slightly gaping at the tip. ♂ with *hinder thighs* much incrassated, their *tibiæ* angulated at base, and rather bent.

dliv. Nothus *Body* elongate, nearly cylindric: *ant.* filiform, terminal joint short, acute: *palpi* with terminal joint hatchet-shaped: *tho.* orbiculate, flat, margined: *elytra* linear. ♂ with *hinder thighs* greatly incrassated, their *tibiæ* bent and angulated.

dlv. Conopalpus *Body* linear-elongate: *ant.* 10-jointed, filiform, robust: *max. palpi* with terminal joint very long, conic; *lab.* with apical joint broad, hatchet-shaped: *tho.* transverse, orbicular: *elytra* ovate: *thighs* simple.

(dlvi. Calopus *Body* elongate, narrow: *ant.* 10-jointed, filiform, deeply serrated: *max. palpi* with terminal joint somewhat hatchet-shaped; *lab.* with same joint thickened and ovate: *elytra* linear: *thighs* simple.)

dlvii. Euglenes *Body* elongate: *ant.* of ♂ very long, filiform, slightly serrated, 2d joint minute; of ♀ short, thickened towards the apex, 2 basal joints robust: *palpi* hatchet-shaped: *tho.* somewhat 4-drate: *elytra* flattish: *hinder thighs* slightly thickened, penult. joint of tarsi minute. ♂ with the *eyes* large, approximating.

dlviii. Xylophilus *Body* oblong-ovate: *ant.* rather long, 2d joint short, 3d long and thickened at tip: *max. palpi* with terminal joint hatchet-shaped: *tho.* rounded, widest behind: *legs* elongate, *hinder thighs* slightly incrassated.

dlix. Aderus *Body* ovate: *ant.* moderate, 2d and 3d joints minute: *max. palpi* with terminal joint large, hatchet-shaped; *lab.* with the same joint clavate: *tho.* somewhat 4-drate, rather narrowed before: *elytra* broad, dilated behind: *legs* simple: *eyes* moderate, entire.

551 Ischnomera *Stephens.*

§ A. *Ant.* 11-jointed in both sexes: — Asclera *De Jean.*

2636 flavicollis *Pz. F.* xxiv. f. 18. — *Ste. M.* v. 54. — Œd. sanguinicollis *Cur.* ix. pl. 390. — Brassy-black, punctured, slightly pubescent; head greenish; thorax tawny red, with 3 foveæ; elytra dull olive-green, coriaceous, with 3 long and 1 short raised line on each; 3 basal joints of an-

tennæ pale black. (L. 5-6 l.) On flowers, and in decayed trees: Windsor and New Forests; Coombe Wood; Bristol; Ireland: 6.

2637 cærulea *L.* ii. 650. — *Ste. M.* v. 55. — Œd. cærulescens *Oliv. E.* iii. 50. pl. 2. f. 17. — Blue-green, finely punctured, and slightly pubescent; antennæ black; elytra coriaceous opaque, each with 3 raised lines; tibiæ and tarsi brownish. (L. 3-4½ l.) Hedges: Darenth; Norfolk; Suffolk; Dorset; Devon; New Forest, &c.: 6.

(2638 † viridissima *Fab. E.* ii. 369. — *Oliv. E.* iii. 50. pl. 2. f. 15. — *Ste. M.* v. 55. note. — Brassy-green, punctured, slightly pubescent; base of the antennæ and the legs testaceous, knees black. (L. 4. l.) Indicated erroneously as British.)

2639 lurida *Marsh.* i. 360. — *Ste. M.* v. 55. — Dull blue-green, very much punctured, slightly pubescent; thorax short, with 3 foveæ; elytra with 2 slightly raised lines on each, the tip a little narrowed. (L. 2½-4 l.) Grassy places: widely distributed: 6-7.

§ B. *Ant.* 12-jointed in ♂; 11-jointed in ♀: — NACERDA *Steven.*

2640 melanura *L.* ii. 651. — *Oliv. E.* iii. 50. pl. 1. f. 8. — *Ste. M.* v. 54. — Head and thorax testaceous-yellow; elytra paler, with the tip black; breast and abdomen pitchy-black; thighs dusky, tibiæ and tarsi testaceous: ♂ with 12 joints to the antennæ, the thorax on each side with a black or dusky spot. (L. 4-9 l.) Old timber: banks of Thames; Humber; Severn; at Chatham; Deal; Portsmouth; Yarmouth: 6-7.

552 ŒDEMERA *Olivier.*

§ A. *Elytra* not attenuated: — ANOGCODES *De Jean.*

(2641 † sanguinicollis *Fab. E.* ii. 370. — *Oliv. E.* iii. 50. pl. 1. f. 12.? — Fuscous; thorax rounded, red, with 2 foveæ; elytra fuscous, with 3 raised lines: ♂ with hinder thighs thickened. (L. 5 l.?) Improperly considered to be indigenous.)

§ B. *Elytra* attenuated: — ŒDEMERA *pr.*

2642 cærulea *L.* ii. 642. — *Don.* xvi. pl. 558. — *Ste. M.* v. 56. — Green or blue, with a yellowish or golden tint, and a flavescent pile; very glossy; elytra subulated, coriaceous, each with a longitudinal raised line, and a shorter one towards the scutellum; antennæ and palpi blue-green; anterior tibiæ sometimes testaceous at the base. (L. 4-6 l.) Abundant on flowers: widely distributed throughout the South: 6-7.

2643 clavipes *Fab. E.* ii. 373. — Œd. flavipes *Oliv. E.* iii. 50. pl. 2. f. 18. Dull green, somewhat opaque: thorax deeply foveolated; elytra greatly attenuated, the disc with 3 raised lines, the inner one shortest; anterior legs and base of antennæ testaceous. (L. 4½ l.) Flowers: Southend: 6.

2644‡ marginata *Fab. E.* ii. 373. — *Ste. M.* v. 57. — Ne. femorata *Pz. F.* xxxvi. f. 12. ♂. — Head and thorax black, spotless; elytra testaceous, with the entire margin black; abdomen black, with the sides testaceous; legs black. (L. 5 l.) Locality not known.

(2645 † Podagrariæ *L.* ii. 642. — *Oliv. E.* iii. 50. pl. 1. f. 10. ♂. — Ne. melanocephala *Pz. F.* xxxvi. f. 9. ♀. — (Vide *Ste. M.* v. 58. obs.) — Greenish-black; pubescent; base of the antennæ, elytra, and legs testaceous-yellow, hinder tibiæ and tarsi fuscous: ♂ with hinder thighs black, with the base yellow; penultimate ventral segment notched. (L. 4 l.) Erroneously considered indigenous.)

553 ONCOMERA *Stephens.*

2646 femorata *Fab. E.* ii. 67. — *Oliv. E.* iii. 50. pl. 1. f. 1. ♂. — Ne.

simplex *Don.* x. pl. 358. f. 2. ♀. — On. Podagrariæ? *Ste. M.* v. 58. — Pale livid yellow; forehead with a dusky patch, rarely wanting; thorax with a large ovate black blotch on each side; elytra dusky testaceous; sides of the breast and base of abdomen, brown-black; thighs with a dusky or whitish patch, hinder pair much thickened in the ♂. (L. 6-9 l.) Gardens: Ripley; Darenth; Tunbridge Wells; Reading; Oxford; Exeter: 6-7.

554 Nothus *Megerle.*

2647 bipunctatus *Fab. S. En.* i. 206. — No. bimaculatus *Ste. M.* v. 59. pl. xxv. f. 3. ♂., f. 2. ♀. — Black; mouth, margins of thorax, and occasionally a dorsal line, and outer edge of elytra, pale red; base of thighs and the tibiæ, and 3 basal joints of antennæ, testaceous-red; tip of abdomen tawny: hinder thighs greatly thickened: ♀ reddish-ochreous, with the head behind, 2 small spots on the thorax, tips of thighs, tibiæ and hinder tarsi, and apex of antennæ, black. (L. ♂ 5½ l.; ♀ 4 l.) On whitethorn blossom: Monk's Wood: 6.

2648† anceps *Stephens.* — No. clavipes ♂ var. *Cur.* xii. pl. 538. right hand f. — Black; mouth, margin of thorax, and sometimes a dorsal line, and the extreme outer edge of the elytra, pale red; base of thighs and tibiæ rusty-orange; hinder thighs simple: ♀ with the thorax tawny, with 2 black spots. (L. 3 l.) On whitethorn blossoms: Windsor and Weston; 5.

555 Conopalpus *Gyllenhal.*

2649 testaceus *Oliv. E.* ii. 21. pl. 3. f. 15. — *Cur.* iii. pl. 112. — *Ste. M.* v. 60. — Pale testaceous, very finely punctured, slightly pubescent, and shining; legs paler; eyes, and tips of mandibles, black; antennæ brownish, with the base pale. (L. 3-3½ l.) Whitethorn hedges: Ripley; Hertford; Kensington Gardens; New and Windsor Forests; Cobham, &c.: 6-7.

2650 Vigorsii *MacLeay.* — *Ste. M.* v. 60. pl. xxv. f. 1. — Black, with a silken pile: mouth, labrum, palpi, and base of antennæ pale testaceous; thorax bright red; elytra deep black, irregularly punctured; legs pale testaceous-red; tip of antennæ black. (L. 3½ l.) Hedges: Cumberland: 8.

(556 Calopus *Paykull.*)

(2651‡ serraticornis *L.* ii. 634. — *Pz. F.* iii. f. 15. — *Ste. M.* v. 61. note. — Pale brown, pubescent, punctulated; eyes dusky; thorax rather unequal; elytra somewhat roughly punctured, with several very obscure raised lines. (L. 7 l.) Improperly indicated as British.)

557 Euglenes *Westwood.*

2652 oculatus *Pk. F.* i. 256. — *Cur.* vii. pl. 299. — *Ste. M.* v. 78. — Black, finely and very thickly punctured, slightly pubescent; thorax with a transverse impression near the base; elytra chestnut, rather coarsely punctured; mouth, antennæ, and 4 anterior legs pale dull red, hinder legs chestnut. (L. 1-1½ l.) On willows: Windsor; near London and in Suffolk: 6.

558 Xylophilus *Latreille.*

2653† populneus *Fab. E.* i. 272. — *Pz. F.* xxxv. f. 4. — *Ste. M.* v. 77. — Rusty-testaceous; very finely and obscurely punctured: clothed with a delicate silky pubescence; base of elytra and band in the middle denuded; head sometimes dusky. (L. 1½ l.) On trees, and beneath bark: London district: 1-6.

559 Aderus *Westwood.*

2654 Boleti *Marsh.* i. 486. — *Ste. M.* v. 76. pl. xxv. f. 6. — Rusty-testaceous, finely and thickly punctured, clothed with a delicate silken pubescence: elytra with several irregular denuded patches; abdomen fuscous: legs pale testaceous: head dusky: eyes black. (L. 1¼-1½ l.) Flowery hedges: Ripley; South Lambeth; Dulwich; Southgate; Ensham, Oxon: 4-7.

Fam. 71. SALPINGIDÆ *Leach.*

dlx. Salpingus *Ant.* short, clavate; club 5-jointed: *labrum* 4-drate: *head* flat, produced anteriorly into an elongate *rostrum*, which is contracted in the middle: *body* oblong-ovate, flattish: *elytra* wider than thorax.

dlxi. Sphæriestes *Ant.* short, clavate; club indistinctly 5-jointed: *labrum* rounded in front: *head* slightly convex, produced anteriorly into a short, flat *rostrum*: *body* oblong-ovate, rather convex: *tho.* with lateral margins sometimes crenulated.

dlxii. Mycterus *Ant.* elongate, filiform, articulations obconic: *head* produced in front into an elongate slender *rostrum*: *tho.* trapeziform: *body* ovate, clothed with a silken down.

560 Salpingus *Illiger.*

2655 ruficollis *L.* ii. 609. — *Pz. F.* xxiv. f. 19. — *Ste. M.* iv. 217. — Pale reddish yellow, shining; punctured; eyes black; back of the head and the elytra blue or metallic green, the latter punctate-striate; abdomen pitchy-red; terminal joints of antennæ fuscous. (L. 1¼-1½ l.)

Var. ? Sa. bicolor *Marsham.* — *Ste. M.* iv. 217. — Paler; head at base, and elytra, dark blue, abdomen red. Under bark, &c.: London district; New Forest; Bristol; Swansea; Pencarrow: 6.

2656 viridipennis *Zeigler.* — *Ste. M.* iv. 217. — Pale reddish-yellow; shining; punctured; eyes black; elytra deep blue, or greenish, punctate-striate; abdomen pitchy; legs pale testaceous; antennæ reddish, terminal joints dusky. (L. 1-1¼ l.) Under bark, &c.: London district: 6-7.

2657 planirostris *Fab. E.* ii. 410. — *Pz. F.* xv. f. 14. — *Ste. M.* iv. 217. — Above brown-brass, shining; beneath pitchy-red; rostrum short, broad, flat, pale testaceous; elytra punctate-striate; legs and antennæ pale testaceous, the terminal joints of the latter fuscous. (L. 1-1¼ l.) Hedges: London district; S. Wales: 6-8.

561 Sphæriestes *Kirby.*

2658 ater *Pk. F.* i. 298. — *Ste. M.* iv. 218. — Black, somewhat brassy, smooth; thorax subcordate, its sides entire; disc thickly punctured, and with 2 foveæ; head rounded; base of antennæ and legs pitchy-red. (L. 1½ l.) On firs: Dulwich; Southgate; Rachills; Norfolk: 6.

2659 foveolatus *Act. Hol.* (*Liung.*) 1823. pl. 3. f. 2. — *Ste. M.* v. 421. — *Cur.* xiv. pl. 662. — Brassy-black, glabrous, shining; mouth, antennæ at the base, and tarsi, dull red; head and thorax coarsely punctured, the latter with 2 foveæ, short, and with the sides entire; elytra irregularly punctate-striate, and each with a deep ovate fovea near the base. (L. 1¾-2¼ l.) Under beeches and elms, Cramond, and in the N. of England: 7-9.

2660 immaculatus *Ste. M.* iv. 219. — Chestnut-brown or dull red, flattish; glabrous, shining; head rounded; eyes black; thorax thickly and coarsely punctured, with a fovea on each side at the base, the sides entire; elytra

with a faint impression near the base; legs and antennæ pale. (L. 1¼-1¾ l.) On firs: Ockham Heath; Norwood; Chelsea; Cramond?: 6-7.

2661 æneus *Ste. M.* v. 421. — Brassy-black, shining; glabrous; thorax short, punctured, its sides entire; elytra irregularly punctate-striate, without foveæ; tibiæ, tarsi, and base of antennæ dull red. (L. 1¾ l.) Firs: London district: 6.

2662 Piciæ *Ahr. F.* x. pl. 9. — Pitchy; shining, punctured; thorax with its sides entire; elytra punctate-striate, the striæ irregular at the base; tibiæ, tarsi, and base of antennæ ochreous. (L. 1¾ l.) On firs: Southgate: 6.

2663 4-pustulatus *Marsh.* i. 297. — *Ste. M.* iv. 219. pl. xxi. f. 5. — Dark piceous; head and thorax dull red, thickly punctured, the sides of the latter finely crenulated in the middle; elytra with a dull red spot at the base, and another near the apex: legs dull red. (L. 1¼-1½ l.) Whitethorn hedges: Hertford; Ripley; Camberwell; Battersea fields; Coombe Wood; Swansea: 6-7.

2664 denticollis *Gyll.* iii. 715. — *Ste. M.* iv. 219. — Elongate; fuscous; head, thorax, antennæ, and legs testaceous; thorax very much punctured, its sides denticulated and narrowed behind; elytra punctate-striate, with an oblique pale testaceous spot at the base within: eyes black. (L. 1¼-1¾ l.) Hedges: London district: 6.

562 Mycterus *Clairville.*

2665 griseus *Clairv. E. H.* i. 124. pl. 16. f. 1—3. — *Ste. M.* iv. 216. pl. xxi. f. 4. — Black, with a griseous-yellow pile above; and a griseous or silvery pubescence below; rostrum with 2 impressed longitudinal approximating striæ. (L. 3¾-4½ l.) Hedges: Kingsbridge, Devon: 6.

Fam. 72. PYROCHROIDÆ *Leach.*

dlxiii. Pyrochroa *Ant.* rather longer than the head and thorax, pectinated in the ♂, serrated in the ♀: *tho.* somewhat orbiculate, margined behind: *eyes* notched within, remote in ♂.

563 Pyrochroa *Geoffroy.*

2666 rubens *Fab. E.* ii. 109. — *Ste. M.* v. 63. — Py. coccinea *Don.* ii. pl. 56. f. 1. — Black; slightly shining; head, thorax, scutellum, and elytra dull blood red, rather pubescent; thorax a little narrowed behind: eyes brown. (L. 5-8 l.) Hedges: abundant in the S. of England: 4-6.

2667 coccinea *L. F.* No. 705. — *Ste. M.* v. 64. — *Cur.* xiii. pl. 590. — Shining black: thorax above, and elytra, bright blood-red, or scarlet; scutellum black; clothed with a short concolorous pubescence. (L. 6-7 l.) Hedges: local: Darenth and Birch Woods; Epping; New Forest: 6-7.

Fam. 73. NOTOXIDÆ *Stephens.*

dlxiv. Notoxus *Tho.* produced in front into a horn-like process, extending over the head; the latter united to the thorax by a distinct neck.

dlxv. Anthicus *Tho.* oblong, somewhat heart-shaped, narrower than the head, the base and apex truncate, the latter not produced over the head: *neck* distinct.

564 Notoxus *Illiger.*

2668 monoceros *L.* ii. 651. — *Samou.* pl. ii. f. 23. — *Ste. M.* v. 72. pl. xxv. f. 5. *b. thorax.* — Testaceous-red, with a silken pile; crown fuscous;

thorax with an elongate rounded process in front, serrated on both sides; elytra with a black spot outwardly on the shoulders, a larger one behind the middle, connected by a streak with a 3d at the base, forming a lunular patch, which rarely touches the suture: — the spots on the elytra are sometimes nearly obliterated, at others so much united as to cover nearly the whole surface. (L. 2-3 l.) In lanes: on oaks: Coombe Wood; Richmond; S. Wales; Bristol; Liverpool, &c.: 6-7.

2669 Rhinoceros *Fab. E.* i. 289. — *Ste. M.* v. 72. pl. xxv. f. 5. *a.* — Testaceous-yellow, with a silken pile; head spotless; elytra uniform dark pitchy-black; thorax produced anteriorly with an acute coarctate horn, serrated on each side. (L. 2 l.) S. Wales: 6.

565 Anthicus *Fabricius.*

2670 Antherinus *L.* ii. 681. — *Mart. C.* pl. 39. f. 3. — *Ste. M.* v. 73. — Black, with a griseous pile; finely punctured; elytra minutely and rather deeply punctured, with 2 oblique dull red bands — the apical one sometimes wanting; legs pitchy, tibiæ, towards the apex, and tarsi, pitchy-testaceous. (L. 1½-2 l.) Grassy hedges: Hertford; Southend; Bristol; Isle of Wight, &c.: 5-7.

2671 4-notatus *Gyll.* ii. 498. — *Ste. M.* v. 74. — Black, slightly shining, pilose; deeply punctured; thorax oblong, narrowed behind; elytra coarsely punctate, with an ovate oblique testaceous spot behind the shoulders, and a round dot towards the suture behind the middle; legs and antennæ dull red. (L. 1½ l.) Flowers: London district and Bristol: 5-6.

2672 ater *Ill. K.* i. 290. — *Pz. F.* xxxi. f. 15. — *Ste. M.* v. 74. — Black, slightly shining, nearly glabrous; punctured; thorax oblong, very convex, narrowed behind, faintly punctured; elytra coarsely punctured; tarsi fuscous, or dusky dull red. (L. 1½ l.) Hedges: London district; Wrabness, Essex; Bristol; Southend; Isle of Portland: 4-5.

2673 fuscus *Marsh.* i. 486. — *Ste. M.* v. 74. — No. floralis *Pz. F.* xxxiii. f. 5. — Dull red, shining, slightly pubescent; punctulated; head rusty-black; elytra rather deeply punctured, brown black, with the base more or less broadly dull red. (L. 1-1¼ l.) Hotbeds, &c.: generally distributed throughout England, Wales, and S. of Scotland: ⊙.

2674 floralis *L.* ii. 681. — *Ste. M.* v. 75. — No. formicarius *Oliv. E.* iii. 51. pl. 1. f. 3. — Brown-black, shining, nearly glabrous; very finely punctured; antennæ, legs, thorax, and base of the elytra dull red, middle with a transverse impression; thighs brownish. (L. 1½ l.)

Var. ? No. bicolor *Oliv. E.* iii. 51. pl. 1. f. 4. — *Ste. Nom.* 2d ed. col. 88. — With the anterior angles of the thorax, apex of the antennæ, and the thighs, pitchy-brown. On flowers, &c., in gardens: widely distributed: 4-10.

2675 equestris *Pz. F.* lxxiv. f. 8. — *Ste. M.* v. 75. — Fuscous; slightly pubescent; punctured; head glabrous; thorax elongate, narrowed behind, disc red; elytra fuscous, ciliated on the margin, the base red; legs and basal joints of the antennæ red; tips of latter and of thighs obscure. (L. 1½ l.) Hedges: London district and Durham: 6.

(2676† pedestris *Fab. E.* i. 291. — *Ste. M.* v. 75. note. — Black; shining; thorax red, narrowed behind; legs black, thighs red at the base, anterior 1-toothed; antennæ with the base red. (L. 1½ l.) Improperly recorded as British.)

2677 gracilis *Kugellan.* — *Pz. F.* xxxviii. f. 21. — *Ste. M.* v. 75. — Elongate, black, shining; very finely punctured; thorax somewhat globose, narrowed behind; elytra ample, pale testaceous, with a 3-angular black

spot behind the middle on the lateral margins; legs and antennæ testaceous. (L. 1¼ l.) Hedges: London district: 6.

2678 angustatus *Cur.* fo. 714. — Elongate, narrow; dull brown, with ochreous pubescence; thickly and rather coarsely punctured; back of head and thorax, which is obovate, bright red, disc dusky; legs and antennæ pale chestnut. (L. 1 l.) In grassy places: near Gravesend, and Isle of Wight: 6-10.

2679 humilis *Ahr. F.* x. f. 6. — *Ste. M.* v. 75. — Pitchy-black, with a griseous pile; punctured; head black; thorax tumid in front, base much narrowed; coleoptera rather wider than the thorax, obovate, the suture a little raised; legs red, knees dusky; base of antennæ red. (L. 1¾ l.) Banks of Thames: 7.

2680 constrictus *Rudd.* — *Cur.* fo. 714. — Piceous, shining; punctured; thorax constricted behind, with a transverse channel; elytra slightly pubescent, with a chestnut line, or bright red spot, at the apex; mouth, antennæ, and legs tawny; middle of thighs and hinder tibiæ pitchy. (L. 1⅓ l.) Banks of Thames, and Ryde: 6-8.

2681 tibialis *Cur.* xv. pl. 714. — Piceous, sometimes tinted with bluish; punctured; head behind and thorax chestnut red; front of the latter pitchy; elytra with ochreous pile; base sometimes chestnut; mouth, antennæ, and legs tawny; thighs pitchy-chestnut, black in the middle; hinder tibiæ dilated towards the tip, which is concave, and, as well as the apex, ochreous. (L. 1½ l.) Banks of Thames; Southampton Water, and Ryde: 6-10.

Fam. 74. SCYDMÆNIDÆ *Leach.*

(dlxvi. Mastigus *Ant.* geniculated, somewhat filiform: *max. palpi* 4-jointed, the 2 apical joints forming an oval mass: *elytra* united.)

dlxvii. Scydmænus *Ant.* straight; longish, clavate: *max. palpi* 4-jointed, 3d joint large, pear-shaped, 4th minute, subulated: *tho.* narrower than the *elytra;* the latter free, base often foveolated: *thighs* clavate.

dlxviii. Megaladerus *Ant.* straight, clavate, rather long, 8th joint much smaller than the 7th, terminal one very large: *max. palpi* shortish, apical joint extremely minute: *tho.* very large, much wider in front than the *elytra*, which are separated: *legs* rather slender.

dlxix. Eutheia *Ant.* straight, stout, clavate; club 3-jointed: *palpi* very minute: *tho.* convex, anterior angles rounded, base truncate, with a row of impressions: *elytra* truncate, the base plicate: *thighs* slightly thickened.

(566 Mastigus *Latreille.*)

(2682† palpalis *Lat. G.* i. 281. pl. 8. f. 5. — *Ste. M.* v. 79. note. — Entirely black. (L. 2¼ l.) Said to have been taken in England.)

567 Scydmænus *Latreille.*

§ A. *Palpi* with terminal joint nearly obsolete: — Eumicrus *Laporte.*

2683 tarsatus *Kunzé, M.* 11. — *Den.* pl. 11. f. 1. — *Ste. M.* v. 80. — Pitchy-brown, pubescent, shining; head a little truncate in front; thorax somewhat ovate, the base with 4 foveolets placed transversely; elytra rather paler, with 2 basal impressions; antennæ and legs testaceous; anterior tarsi much dilated. (L. 1¼-1⅜ l.) In grassy hedges: London district; Bristol; Weston; Swansea; Raehills: 4-6.

2684 ruficornis *Kirby.* — *Den.* 59. pl. 11. f. 2. — *Ste. M.* v. 80. — Pitchy-black, slightly pubescent; head large, rounded; porrected; thorax densely clothed with dusky hairs, the base with 2 deep punctures; elytra very

broad, apex reddish, base with 2 impressions: thighs dull red; tibiæ chestnut; tarsi pale; antennæ dark testaceous, apical joint obtuse. (L. $1\frac{1}{4}$ l.) Grassy hedges: London district and Bristol; Barham; Lodden, Norfolk: 10-4.

§ B. *Palpi* with terminal joint distinct.

2685 hirticollis *Gyll.* i. 286. — *Den.* 62. pl. 12. f. 1. — *Ste. M.* v. 80. — Black, shining: thorax narrowed in front, and very densely clothed with fuscous hairs; base transversely impressed; elytra smooth; tibiæ and tarsi dusky red; antennæ the same, the 4 terminal joints rather large and blackish. (L. $\frac{3}{4}$ l.) Grassy places: London district; Carlisle; Cambridge (in sedge boats): 1-5.

2686 hirtus *Sahl. I. F.* 97. — *Ste. M.* v. 427. — Pitchy-black, shining, slightly hirsute; thorax glabrous, with 2 geminated foveolets behind, placed transversely; antennæ with the 3 terminal joints thickened. (L. $1\frac{1}{4}$ l.) Grassy places: London district: 6.

2687 rutilipennis *Kunzé*, 17. — *Den.* 63. pl. 12. f. 2. — *Ste. M.* v. 81. — Black; shining; head round: thorax clothed with a dense pile, and slightly impressed at the base; elytra bright red chestnut, pubescent; the base with 2 impressed lines, suture a little raised; legs dark chestnut; antennæ chestnut, slender, pubescent, with the 4 terminal joints large and black. (L. $1\frac{1}{8}$ l.) Grassy places: Swansea: 6.

2688 denticornis *Kunzé*, 20. — *Den.* 64. pl. 13. f. 1. — *Ste. M.* v. 81. — Pitchy-black, shining, smooth: thorax densely pubescent, somewhat 4-drate, base with 2 foveolets; elytra narrowed at the base, and with 6 depressions; legs dull brown; antennæ the same, with the 4 terminal joints largest and darkest, of the male the 8th and 9th joints have a tooth within. (L. $\frac{3}{4}$ l.) Grassy places: Marton Lodge: 6.

2689 Dennii *Ste. M.* v. 83. pl. xxvi. f. 1. — Black; shining; pubescent: thorax with 2 deep foveolets at the base, united by a transverse impression; elytra with 2 longish basal depressions; tibiæ, tarsi, and palpi pale testaceous; antennæ stout, pitchy-brown, 4 terminal joints larger, the 8th and 9th with a tooth within. (L. $1\frac{1}{2}$ l.) Grassy places: London district: 6.

2690 elongatulus *Kunzé*, 19 — *Den.* 65. pl. 13. f. 2. — *Ste. M.* v. 81. — Elongate: pitchy; shining; pubescent; head with 2 foveolets between the eyes; thorax elongate, deflexed, with an angular impression on each side of the base, and 2 small foveolets in each angle: elytra with a deep excavation on each side at the base; legs pale chestnut; antennæ dark chestnut, the 4 terminal joints larger, the apical one acute. (L. $\frac{11}{12}$ l.) Grassy places: Norfolk: 3-4.

2691 Sparshallii *Den.* 66. pl. 13. f. 3. — *Ste. M.* v. 82. — Dull red, pubescent, shining; head narrowed, contracted; thorax elongate, finely punctured, with a parallel depression at the base, extending a little up each side; base roughish: elytra with the base truncate, and a deep excavation on each side of the suture: legs and antennæ pale dull red, terminal joint of the latter acute. (L. $\frac{5}{8}$-$\frac{6}{8}$ l.) Moss, &c.: Ripley; Madingley Wood, Cambridgeshire; Arminghall Wood, Norfolk: 4-7.

2692 scutellaris *Kunzé*, 23. — *Den.* 67. pl. 12. f. 3. — *Ste. M.* v. 82. — Ovate, black; slightly pubescent; head contracted, flat; thorax somewhat 4-drate, convex, base narrowed, and with 6 transverse impressions; elytra punctured, the base with 4 deep excavations; suture and scutellum a little raised; legs pitchy: ♂ with anterior thighs 3-angular. (L. $\frac{3}{4}$ l.) In moss, &c.: London district; Bristol; Norfolk: 3-5.

2693 bicolor *Curtis.* — *Den.* 68. pl. 13. f. 4. — *Ste. M.* v. 82. — Elongate,

pitchy-chestnut; shining, pubescent; thorax narrowed behind and rugulose; elytra bright chestnut, with 2 basal impressions; legs pale chestnut; antennæ testaceous-yellow, 7th joint enlarged, 8th smaller, 3 terminal ones largest, apical being obtuse. (L. $\frac{5}{8}$ l.) Moss, &c.: London district; New Forest and Norfolk: 3-5.

2694 collaris *Kunzé*, 26. — *Den.* 69. pl. 14. f. 2. — *Ste. M.* v. 82. — Oblong, black; punctured; thorax wide in front, very narrow behind, with 2 rows of impressed dots at the base; the anterior consisting of 4, and the posterior of 2 punctures; elytra with 2 basal depressions; the suture and scutel a little raised; antennæ pale testaceous, gradually clavated, terminal joint elongate-ovate. (L. $\frac{3}{4}$-1 l.) In moss, &c.: London district; Madingley Wood; Lodden, &c.: 4-5.

2695 pusillus *Kunzé*, 25. — *Den.* 70. pl. 14. f. 1. — *Ste. M.* v. 83. — Oblong, black, slightly pubescent, shining; thorax longish, the base contracted, with a transverse line, composed of 6 punctures; elytra punctured, base with 4 furrows; the suture slightly raised near the scutel: legs slender; tibiæ, tarsi, and antennæ testaceous. (L. $\frac{5}{6}$-$\frac{6}{8}$ l.) Moss, &c.: London district; Bristol; Norfolk: ⊙.

2696 impressus *Gyll.* iv. 322. — *Ste. M.* v. 427. — Black, shining, pubescent; thorax scarcely narrowed behind, with 4 deep foveolets; the 2 inner ones approximating; antennæ dull red, and thickened exteriorly. (L. 1 l.) Moss, &c.: London district; Nottingham, and N. of England: 3-5.

2697 punctipennis *Ste. M.* v. 428. — Oblong, black; shining, somewhat pubescent; thorax convex, not foveolated; elytra rather deeply punctate, the base with 2 furrows; legs and antennæ dull red. (L. $\frac{3}{4}$ l.) Moss, &c.: London district; N. of England: 3-4.

2698† Wighami *Den.* 71. pl. 14. f. 3. — *Ste. M.* v. 83. — Black, shining, pubescent; thorax smooth, the base truncate, and with 3 foveolets; elytra oblong, with 4 basal impressions, the sutural ones largest: head with 2 frontal foveolets; legs and antennæ pale chestnut, tip of the latter acute. (L. $\frac{3}{4}$ l.) Moss: Lodden: 3.

568 Megaladerus *Stephens.*

2699 thoracicus *Kunzé*, 12. — *Den.* 61. pl. 11. f. 3. — *Ste. M.* v. 84. — Pitchy, pubescent: head dull chestnut; thorax dark chestnut; rounded in front, gibbous; elytra with 2 angular depressions at the base; legs rusty-yellow; antennæ testaceous-yellow, hairy; palpi yellowish. (L. $\frac{5}{8}$-$\frac{6}{8}$ l.) Moss: at Knight's Hill, Dulwich; Lodden, &c.: 10-4.

569 Eutheia *Stephens.*

2700 Scydmænoides *Ste. M.* iii. 115. pl. xviii. f. 2. — Pitchy-black, with a golden pubescence; thorax pulvinated, with 5 foveolets placed transversely near the base; elytra faintly punctured, the base with 2 short furrows; the apex sometimes chestnut; legs and antennæ rusty-red. (L. $\frac{1}{2}$-$\frac{3}{4}$ l.) Moss, &c.: Highgate; Pettywad Wood, near Wimbledon; Ripley: 3-6.

§ 2. Stirps 3. BRACHELYTRA *Mac Leay.*

Fam. 75 Pselaphidæ. *Tarsi* 3-jointed, basal joint minute, terminal furnished with a single *claw*, very rarely with 2: *head* exserted: *ant.* clavate: *max. palpi* generally very long, clavate; *lab.* minute: *eyes* prominent: *elytra* nearly half the length of the abdomen, folded at the base.

Fam. 76 Tachyporidæ. *Tarsi* mostly 5-, never 3-jointed; terminated with 2 *claws*: *head* generally deeply inserted into the *thorax*, the latter broadest

behind: *ant.* gradually thickened to the apex, the terminal joint sometimes very large: *max. palpi* generally acute; *eyes* small: *elytra* short: *tibiæ* sometimes spinous.

Fam. 77 STAPHYLINIDÆ. *Tarsi* 5-jointed, anterior often dilated; all terminated with 2 claws: *head* exserted, with a distinct neck: *tho.* 4-drate, or somewhat ovate; at times rounded or heartshaped: *ant.* shortish, rather stout, inserted between the eyes: *max. palpi* short, filiform: *labrum* mostly with a deep notch or slit in front: *body* elongate: *elytra* moderate; *tibiæ* mostly spinous.

Fam. 78 STENIDÆ. *Tarsi* 5-, rarely 4-jointed, terminated with 2 *claws*: *head* large, exserted, with a distinct *neck*: *tho.* rounded, or heartshaped, often globose: *ant.* somewhat filiform; *mand.* long, acute, acutely toothed within: *max. palpi* long, clavate, with apical joint minute: *labrum* entire: *eyes* frequently large: *tibiæ* simple.

Fam. 79 OXYTELIDÆ. *Tarsi* 3-, 4-jointed, very rarely 5-jointed, terminal joint longer than the others together, with 2 claws: *head* exserted; *neck* distinct: *tho.* mostly heartshaped: *ant.* thickened towards the apex: *max. palpi* short, apical joint distinct: *labrum* entire: *body* linear: *anterior tibiæ* spinose, or toothed on the outer margin.

Fam. 80 OMALIIDÆ. *Tarsi* 5-jointed, terminated with 2 claws: *head* exserted: *tho.* mostly convex, and widened behind: *ant.* shortish, thickened at the tip, rarely filiform; *max. palpi* short, terminal joint minute: *labrum* transverse, entire: *body* broad, flattish: *elytra* rather long: *tibiæ* simple: *ocelli* sometimes present.

Fam. 75. PSELAPHIDÆ *Leach.*

dlxx. PSELAPHUS *Tarsi* with 1 claw: *ant.* inserted on a frontal tubercle: *max. palpi* as long as the antennæ, the terminal joint long, clavate: *body* rather elongate; *elytra* and *abdomen* flat.

(dlxxi. TYRUS *Tarsi* with 2 claws; *ant.* shortish, the 3 terminal joints enlarged: *max. palpi* with 2d joint elongate, terminal large, clavate: *tho.* somewhat globose: *middle trochanters* with a spine.)

dlxxii. BRYAXIS *Tarsi* with 1 claw: *ant.* inserted beneath the margin of the forehead: *max. palpi* with terminal joint conical, rather dilated externally: *tho.* heartshaped, 3 foveolated: *body* short, somewhat convex.

dlxxiii. BATRISUS *Tarsi* with 2 claws: *ant.* straight, inserted in a lateral groove: *max. palpi* with terminal joint acute: *tho.* with 3 longitudinal furrows: *body* somewhat elongate, and rather convex.

dlxxiv. TYCHUS *Tarsi* with 1 claw: *ant.* inserted on a frontal tubercle; 5th joint dilated in ♂: *max. palpi* very much elongated, the 2d and 3d joints dilated and hatchet-shaped: *tho.* without impressions, widest behind: *body* short, convex.

dlxxv. ARCOPAGUS *Tarsi* with 1 claw: *ant.* inserted on the sides of the forehead; 2d joint moderate, not thicker than the basal: *max. palpi* as long as antennæ, apical joint ovate, securiform: *tho.* narrowed behind: *body* short, very convex.

dlxxvi. BYTHINUS *Tarsi* with 1 claw: *ant.* inserted on the sides of the forehead; 2d joint, especially in the ♂, very large: *max. palpi* very long, the terminal joint large, securiform: *tho.* narrowed behind: *body* short, very convex.

dlxxvii. TRIMIUM *Tarsi* with 1 claw: *ant.* inserted beneath the edge of the forehead; terminal joint very large: *max. palpi* with apical joint securiform: *tho.* somewhat ovate: *body* elongate, somewhat cylindric.

dlxxviii. EUPLECTUS *Tarsi* with 1 claw: *ant.* inserted beneath the edge of

the forehead; terminal joint rather large: *max. palpi* short, apical joint ovate, conic: *tho.* somewhat heartshaped; rounded at base: *body* elongate, narrowed; flat.

dlxxix. Claviger. *Tarsi* with 1 claw: *ant.* short, 6-jointed, 2 basal joints minute, 3 following much thickened, somewhat hemispheric, perfoliated, terminal one very stout, cylindric, solid, elongate, abruptly truncate: *head* ovate: *eyes* wanting: *tho.* subovate: *abdomen* with dorsal segments obsolete.

570 Pselaphus *Herbst.*

2701 Herbstii *Reich. M.* 25. — *Den. M.* pl. 9. f. 1. — *Ste. M.* v. 86. — Dark chestnut; slightly pubescent; thorax elongate, somewhat cylindric, the base and apex somewhat narrowed, smooth; shining; abdomen 3-angular; antennæ with 9th and 10th joints somewhat 3-angular: palpi yellowish. (L. 1⅛ l.) Grassy places: London; Bristol; Lodden and Woodbastwick, Norfolk; Netley: ⊙.

2702 Heisii *Herbst. C.* iv. 109. — *Den. M.* pl. 9. f. 2. — *Ste. M.* v. 87. — Elongate; dark chestnut, shining, slightly pubescent: thorax narrowed at the base and apex, the middle considerably dilated, with 2 short obscure lines in front; abdomen long; legs pale chestnut, thighs thickened; antennæ with terminal joint a little produced within at the tip. (L. 1⅛ l.) London district; chalk-pit, Barham; Norfolk: ⊙.

2703 longicollis *Reich. M.* 30. — *Den. M.* pl. 10. f. 1. — *Ste. M.* v. 87. — Dark chestnut, shining, slightly pubescent; thorax somewhat ovate, with 2 oblique lines in front, and 2 bent ones, united by a point in the centre, at the base; abdomen broad; legs chestnut, thighs slightly thickened; antennæ pale; palpi pale dull red. (L. 1⅛ l.) Hertford; Horning, Norfolk: 7-4.

2704 Dresdensis *Herbst. C.* iv. 110. — *Den. M.* pl. 10. f. 2. — *Ste. M.* v. 87. — Pitchy-black, shining, pubescent; head oval; thorax obtusely angulated in the middle, the front narrowed, base rounded and broad, with a semicircular impression; abdomen broad; legs dull red; antennæ dull liver colour, terminal joint lanceolate-ovate; palpi yellowish-brown. (L. 1⅛ l.) Woodbastwick and Lodden: 9.

571 Tyrus *Aubé.*

(2705† mucronatus *Pz. F.* lxxxix. f. 11. — Black; with a fuscous pile: antennæ, elytra, and legs light red; thorax with 3 foveolets behind, united by an impressed line. (L. 1½ l.) I am not certain that this insect is really indigenous.)

572 Bryaxis *Knoch.*

2706 sanguineus *L.* ii. 685. — *Den. M.* pl. 7. f. 4. — *Ste. M.* v. 89. — Short; obtuse; black; shining; thorax slightly narrowed before and behind, with 3 foveolets, united by a faint semicircular line; elytra red, basal margin and suture dusky, with a stria near the suture and another in the centre; antennæ livid, with terminal joint obtuse. (L. 1¼-1¾ l.)

♂ ? Br. longicornis *Leach Z. M.* iii. 85. — *Den. M.* pl. 7. f. 2. — *Ste. M.* v. 88. — Longer, and narrow; antennæ very long and slender, terminal joint acute; anterior tibiæ with a notch, and a small spine, and a row of fine hairs down the inner edge. Grassy places: Battersea fields; Epping Forest; Norfolk: 2-4.

2707 fossulatus *Leach Z. M.* iii. 86. — *Den. M.* pl. 8. f. 1. — *Ste. M.* v. 89. — Pitch-coloured, pubescent; smooth; thorax rounded, with 3 large equal foveolets; elytra with a bent line at the base of each, and a stria parallel with the suture: legs pale pitchy; palpi testaceous; terminal

joint of antennæ somewhat oval. (L. 1⅛ l.) In grassy places: Battersea fields; Bristol; Norfolk: ⊙.

2708 impressus *Pz. F.* lxxxix. f. 10. — *Ste. M.* v. 89. — Black, shining, finely pubescent: thorax somewhat globular, with 3 foveolets, the middle one smallest; elytra dull red, suture and margin darker, with a short basal and elongate sutural stria on each; antennæ pitchy, terminal joint large, obtuse. (L. 1 l.) Grassy places: Battersea fields; Bexley; Hertford; Ripley: ⊙.

2709 hæmaticus *Leach Z. M.* iii. 86. — *Den.* pl. 8. f. 2. — *Ste. M.* v. 90. — Bright light chestnut, shining; thorax obcordate, slightly punctured, with 3 foveolets, the middle one rather smallest; elytra with a deep basal impression, a stria near the suture, which is slightly raised, and a short one on the shoulder; abdomen gibbous; terminal joint of antennæ nearly ovate; palpi dull yellow. (L. 1⅛ l.) Near Bristol, and London: 10-4.

2710 Juncorum *Leach Z. M.* iii. 86. — *Den. M.* pl. 8. f. 3. — *Ste. M.* v. 90. — Short, somewhat globose; dull red; slightly pubescent: thorax somewhat globose, thickly punctured, with 3 foveolets, the middle one very minute: elytra with a short basal, and entire sutural striæ; abdomen convex, contracted; antennæ pale rust-colour; palpi pale yellow. (L. ¾-1 l.) Damp places: Battersea fields; Bristol; Devonshire; Norfolk: 10-6.

2711 insignis *Reich. M.* pl. 2. f. 16. — *Ste. M.* v. 90. — Black; slightly pubescent; elytra, legs, and antennæ red; thorax ovate, narrowed before, with 3 foveolets, united by a very fine semicircular line; elytra with 2 broad grooves; abdomen ovate; palpi reddish. (L. 1 l.) Moss: Ripley, and near Carlisle: 1.

2712 sulcicollis *Reich. M.* 62. pl. ii. f. 17. ? — *Cur.* vii. pl. 315. — *Ste. M.* v. 91. — Chestnut; shining, sparingly punctured; slightly pubescent; thorax obovate, with a deep groove down the centre, intersected towards the base by a bent channel, terminated on each side by a deep fovea; elytra with the hinder outer angles notched and acute, a sutural stria and a short deep one at the shoulder. (L. 1½ l.) Old walls: Carlisle: 6.

573 Batrisus *Aubé.*

2713 nigriventris *Den. M.* 41. pl. 7. f. 1. — *Ste. M.* v. 91. — Bright rusty-red; shining; thorax thickly punctured, globular, with a deeply impressed dorsal line, and one on each side, terminating each in a puncture at the base; elytra with 4 depressions at the base, and a single stria on each, near the suture; abdomen black; palpi testaceous. (L. 1½ l.) Moss, &c.: New Forest; Barham; Netley: 5-6.

574 Tychus *Leach.*

2714 niger *Pk. F.* iii. 365. — *Den. M.* pl. 6. f. 1. — *Ste. M.* v. 92. — Black, pubescent; head and thorax smooth, glossy; elytra sometimes red-brown or chestnut, with a single sutural stria; legs dull red; antennæ testaceous; palpi pale yellowish. (L. ¾-1 l.) Damp mossy places: London district; Netley; Newcastle: 10-4.

575 Arcopagus *Leach.*

2715 glabricollis *Reich. M.* 43. — *Den. M.* pl. 5. f. 4. — *Ste. M.* v. 93. — Obscure dull-red; thorax longer than the head, obcordate, smooth, the base and apex narrowed, the former with a transverse bent line; elytra punctured, with a basal depression and a sutural stria; antennæ pale dull red, basal joint very large in ♂. (L. ¾ l.) Moss, &c.: London district; Norfolk: 10-4.

2716 clavicornis *Pz. F.* xcix. f. 3. — *Den. M.* pl. 5. f. 2. — *Ste. M.* v. 93. — Pitchy-chestnut; thorax wider than the head in front, narrowed behind, faintly punctured, and with an impressed line; elytra piceous, deeply punctured at the apex; abdomen pitchy-black; legs testaceous, thighs stout; tibiæ slightly bent; antennæ with the 3 basal joints very large. (L. 1 l.) Moss: Bristol; Norfolk: 10-4.

2717 puncticollis *Den. M.* 26. pl. 5. f. 3. — *Ste. M.* v. 93. — Dark dull-red, punctured, shining; thorax very large, dilated in front, and very thickly punctured, the base with an impressed line terminating in a puncture at each side; elytra pitchy-brown; legs pale rusty-yellow, thighs very much thickened in the ♂. (L. ¾-1 l.) Moss: Hertford; Netley; Horning, Norfolk; Battersea fields; Newcastle; Humby: 10-4.

2718 bulbifer *Reich. M.* 37. — *Den. M.* pl. 5. f. 1. — *Ste. M.* v. 94. — Black, shining, pubescent; thorax rounded, the base with a transverse line terminating in each end in a puncture; elytra deeply punctured; legs dark chestnut; antennæ pale dull red, basal joint very large in the ♂. (L. ¾-1 l.) Moss: London district; Norfolk; Netley; Newcastle: 10-5.

576 Bythinus *Leach.*

2719 Curtisii *Leach Z. M.* iii. 83. — *Den. M.* pl. 3. f. 1. — *Ste. M.* v. 94. — Dark chestnut-brown; shining, punctured, pubescent; palpi with the terminal joint very much elongate and flat; legs testaceous or brown; antennæ rusty-yellow, of the ♂ the 2d joint globular, with a tooth-like prominence on the inner side. (L. ⅞ l.) Moss: London district; Netley; Norfolk: 10-4.

2720 grandipalpus *Ste. M.* v. 428. — Chestnut-brown; shining; slightly pubescent and thickly punctured; antennæ, legs, and palpi pale, the terminal joint of the last elongate, wide, and thickened; antennæ with the basal joints very robust. (L. ¾ l.) Moss: London district: 1.

2721 securiger *Reich. M.* 45. — *Den. M.* pl. 3. f. 2. — *Ste. M.* v. 95. — Pitchy-brown: head and thorax deeply punctured and shining; elytra finely punctured; shoulders elevated; palpi with the terminal joint broad, hatchet-shaped; legs and antennæ dull red, the 2d joint of the latter very large and securiform in the ♂. (L. ⅝-¾ l.) Moss: London district; Norfolk; Suffolk: 10-4.

2722 Burrellii *Den. M.* 22. pl. 4. f. 1. — *Ste. M.* v. 95. — Pitchy-black; punctured; shining; palpi dull rusty-yellow, the terminal joint broad, flat, nearly securiform; legs and antennæ pale dull red; the 2d joint of the latter very large, lanceolate, and flat in the ♂. (L. ¾ l.) Moss: London district; Letheringseth, Norfolk: 10-4.

577 Trimium *Aubé.*

2723 brevicorne *Reich. M.* 47. — *Den. M.* pl. 2. f. 4. — *Ste. M.* v. 98. — Chestnut, shining, slightly pubescent; thorax longish, ovate, the base truncate, with 3 foveolets united by a semicircular line; legs pale chestnut; antennæ testaceous, terminal joint very large, ovate-acute. (L. ¾ l.) Moss: Humby; Norfolk; Suffolk: 10-4.

578 Euplectus *Kirby.*

2724 Kirbii *Leach.* — *Den. M.* 14. pl. 2. f. 1. — *Ste. M.* v. 96. — Much elongated, and flat; dark red chestnut; thorax somewhat heart-shaped, narrowed behind, with an oblong foveolet in front, and 3 at the base, united by an impressed line; antennæ pale chestnut, thickly pubescent, terminal joint obtuse. (L. ⅞ l.) Moss: London district; Dover: 10-4.

2725 Karstenii *Reich. M.* 71. — *Den. M.* pl. 1. f. 3. — *Ste. M.* v. 96. — Flat; light chestnut, very smooth and finely pubescent; head wider than the thorax, both thickly punctured, the latter nearly heart-shaped, with 3 foveolets at the base, and a short line at the apex; antennæ pale chestnut, terminal joint obtuse. (L. $\frac{5}{8}$ l.) Moss, &c.: South Lambeth and South Creek: 10-4.

2726 minutus *Marsh.* i. 511. — *Ste. M.* v. 97. — Cu. sanguineus *Den. M.* 10. pl. 1. f. 2. — Elongate; chestnut-brown, pubescent; head nearly 4-drate, with 2 converging depressions united in front, and terminating in a puncture at the base; thorax smooth, with an oblong foveolet in the middle of the apex, and 3 joined by an impressed line at the base; legs and antennæ pale testaceous, terminal joint of the latter longish, obtuse. (L. $\frac{3}{4}$ l.) Moss, &c.: South Lambeth; Fakenham; S. Wales: 10-4.

2727 Reichenbachii *Leach Z. M.* iii. 82. — *Den. M.* pl. 1. f. 1. — *Ste. M.* v. 97. — Obscure pitchy-brown, shining; broad, flat; slightly pubescent: head smooth, the centre raised, base with 1 and front with 2 foveolets; elytra elongated, with 2 deeply impressed striæ on each; legs and antennæ pale testaceous, terminal joint of the latter obtuse. (L. $\frac{7}{8}$ l.) Moss: London district; Suffolk; Norfolk: 10-4.

2728 signatus *Reich. M.* 73. — *Den. M.* pl. 1. f. 4. — *Ste. M.* v. 97. — Elongated, flat, dull red; pubescent: head nearly 4-drate, smooth, with a transverse line in front, and 2 foveolets between the eyes; thorax somewhat rounded, with a round foveolet in front, and 3 behind, united by a faint semicircular line; legs and antennæ pale dull red, terminal joint of the latter acute. (L. $\frac{7}{8}$ l.) Moss, &c.: Barham and Ripley: 6-8.

2729 ruficornis *Ste. M.* v. 428. — Shining black, slightly pubescent; thorax very short, dilated on the sides, the base with 3 foveolets, united by a very faint semicircular line; antennæ slender, elongate, testaceous-red, the club dusky, terminal joint slightly acute. (L. $\frac{1}{2}$ l.) Moss: Bristol: 8.

2730 pusillus *Leach.* — *Den. M.* 15. pl. 2. f. 2. — *Ste. M.* v. 98. — Black, shining; very finely punctured; pubescent; head nearly 3-angular, with 2 oblique depressions between the eyes; thorax rounded; with 3 foveolets behind, united by a semicircular line; antennæ bright chestnut, very slender, the terminal joint acute. (L. $\frac{3}{4}$ l.) Moss, &c.: London district; Bristol; Horning and Woodbastwick, Norfolk: 10-4.

2731 bicolor *Kirby.* — *Den. M.* 17. pl. 2. f. 3. — *Ste. M.* v. 98. — Pitchy-black, shining; head heart-shaped; thorax very large, rounded, very finely punctated, emarginate behind, with 3 foveolets, the central one the largest; palpi dull red; legs and antennæ dull chestnut, the terminal joint of the latter acute at the tip. (L. $\frac{3}{4}$ l.) Moss, &c.: London district; Suffolk: 10-4.

2732 † Easterbrookianus *Leach Z. J.* ii. 445. — *Ste. M.* v. 99. — Bright dull red; antennæ, palpi, and legs, paler; thorax rugulose; elytra punctate-striate. (L. 1 l.) Moss: Near Ashburton, Devon.

579 Claviger *Müller.*

2733 † foveolatus *Germ. M.* (*Müll.*) iii. 75. — *West. Int.* i. 175. pl. 17. f. 6. — Testaceous; antennæ incrassate, cylindric, truncate at the apex; abdomen ovate, with a deeply impressed semi-ovate fovea at the base; dorsal segments coalesced. (L. $\frac{7}{8}$ l.) In the nest of Formica flava: Ensham, Oxon: 8.

Fam. 76. TACHYPORIDÆ *MacLeay.*

§ A. *Ant.* inserted beneath the eyes; *tibiæ* simple, rarely spinose: — ALEOCHARINA.

dlxxx. AUTALIA *Head* exserted, large, remote from *thorax*, which is somewhat globose, with the base narrow and folded: *elytra* also folded at the base: *anter. tarsi* 4-, *poster.* 5-jointed, *poster.* with 4 basal joints equal.

dlxxxi. FALAGRIA *Head* exserted, large, remote from *thorax*, the latter rather heart-shaped, the apex being broad; disc sulcate; *elytra* not folded at the base; *anter. tarsi* 4-, *poster.* 5-jointed, *poster.* with basal joint elongate.

dlxxxii. CALODERA *Head* exserted, broader than the base of the *thorax*, the latter of nearly equal breadth throughout: *elytra* entire at the base: *tarsi* 5-jointed, basal joint elongate.

dlxxxiii. ASTILBUS *Head* exserted, not remote: *thorax* oblong, with a dorsal channel: *body* narrow; flat: *elytra* short: *abdomen* broader than thorax: *palpi* filiform: *anter. tarsi* 4-, *poster.* 5-jointed.

dlxxxiv. OCALEA *Head* exserted: *tho.* somewhat truncate in front, rounded behind; anter. angles acute: *body* elongate: *abdomen* linear, suddenly attenuated at tip: *legs* long, slender; *tarsi* all 5-jointed, *poster.* with basal joint elongate: *ant.* rather slender, 3d joint long.

dlxxxv. POLYSTOMA *Head* sessile: *tho.* broader than long: *elytra* short: *abdomen* linear, obtuse: *body* densely pubescent: *ant.* thick in the middle: *mouth* prominent: *tarsi* all 5-jointed.

dlxxxvi. ZYRAS *Head* sessile: *tho.* broader than long: *elytra* very short: *abdomen* broad, ovate: *ant.* somewhat elbowed at the base, and rather long: *palpi* with terminal joint long, slender: *tarsi* 5-jointed.

dlxxxvii. PELLA *Head* sessile: *tho.* broad, angulated on each side at the base: *elytra* very short: *abdomen* broad, obtuse: *ant.* stout: *legs* stout; *anter. tarsi* 4-, *poster.* 5-jointed, latter with basal joint elongate.

dlxxxviii. ISCHNOPODA *Head* nearly sessile: *tho.* longer than broad: *elytra* wide: *body* slender: *abdomen* acute at tip: *legs* slender: *tarsi*, especially the hinder pair, long, all 5-jointed.

dlxxxix. TACHYUSA *Head* exserted: *tho.* somewhat 4-drate, or ovate: *abdomen* long, rather broad: *legs* moderate: *anter. tarsi* 4-, *poster.* 5-jointed, basal joint of latter elongate: *ant.* slender, with all the joints elongate.

dxc. PHLOËOPORA *Head* nearly sessile, or broad as *tho.*, which is orbiculate: *elytra* moderate, scarcely wider than *abdomen*; the latter obtuse at tip: *legs* stoutish: *tarsi* 5-jointed, joints nearly equal: *ant.* short, stoutish, interm. joints very short.

dxci. HYGRONOMA *Head* nearly sessile: *tho.* as wide as the head, smaller than the elytra: *body* flat, linear: *tarsi* 4-jointed, joints short, flat, nearly equal.

dxcii. HOMALOTA *Head* nearly sessile: *tho.* as broad as the head: *body* linear, flat: *legs* moderate: *anter. tarsi* 4-, *poster.* 5-jointed, *poster.* with 4 basal joints equal: *ant.* moniliform.

dxciii. CALLICERUS *Head* nearly sessile: *tho.* somewhat orbiculate: *elytra* very short: *body* oblong, flat: *tarsi* anter. 4-, *poster.* 5-jointed: *ant.* with terminal joint very long, stout: *max. palpi* with 3d joint swollen, 4th minute.

dxciv. BOLITOCHARA *Head* nearly sessile: *tho.* broader than long, wider than the head: *body* flattish: *abdomen* somewhat linear; *anter. tarsi* 4-, *poster.* 5-jointed, basal joint rather longest: *ant.* somewhat elbowed, thickened to the tips.

dxcv. OLIGOTA *Head* exserted: *tho.* broader than long: *body* flattish, not narrowed behind: *legs* pubescent: *tarsi* 4-jointed, slender, *poster.* with basal

joints elongate: *ant.* with 3 or 4 aquinal joints enlarged and forming a club.

dxcvi. GYROPHÆNA *Head* nearly sessile, rhomboid: *tho.* scarcely larger, but wider, than the head: *body* short, flattened; capable of being rolled into a ball: *elytra* transverse: *anter. tarsi* 4-, *poster.* 5-jointed, hinder with basal joint elongate.

dxcvii. ENCEPHALUS *Head* somewhat sessile, small: *tho.* broader than long: *body* very broad; capable of being rolled into a ball: *abdomen* strongly margined: *ant.* short, thick at tip: *anter. tarsi* 4-, poster. 5-jointed, hinder with basal joint longest.

dxcviii. ALEOCHARA *Head* sessile, deeply inserted: *tho.* convex, broad: *elytra* transverse: *body* elongate, robust: *abdomen* strongly margined: *legs* pubescent: *tarsi* 5-jointed, basal joint of hinder pair longest: *ant.* stout, robust, 4th to 10th joints of equal length, 11th obtuse.

dxcix. CERANOTA *Head* small, somewhat sessile: *tho.* convex, broad, rounded: *elytra* transverse, very short: *abdomen* strongly margined; of the ♂ the 4 basal segments with a tubercle in the middle of the back: *legs* pubescent: *tarsi* 5-jointed, basal joint longest: *ant.* slender, joints of nearly equal length, 11th acute.

dc. OXYPODA *Head* sessile, very deeply inserted into the *tho.*, which is broadest behind: *body* narrowed behind: *elytra* with a distinct notch at the outer apical angle: *abdomen* strongly margined: *legs* pubescent: *tarsi* with basal joint rather longer than the 2d: *ant.* rather long, thickened at the tip.

dci. PLACUSA *Head* somewhat sessile, transverse: *tho.* very short, the base slightly waved, angles turned backwards: *elytra* nearly 4-drate: *abdomen* rather short: *legs* slender: *anter. tarsi* 4-, *poster.* 5-jointed, hinder with basal joint longest.

dcii. ATEMELES *Head* small, sessile: *tho.* short, transverse; lateral margins angulated behind: *body* broad: *abdomen* margined, penult. joint with lateral processes and notched: *legs* slender: *anter. tarsi* 4-, *poster.* 5-jointed, hinder with basal joint elongate: *ant.* with 2d and 3d joints small.

(dciii. LOMECHUSA *Head* transverse, sessile: *tho.* flat, hinder angles acuminated: *body* broad: *abdomen* with penult. joint notched, and having 2 short styliform processes: *legs* slender: *anter. tarsi* 4-, *poster.* 5-jointed: *ant.* fusiform.)

dciv. DINARDA *Head* transverse, sessile: *tho.* with hinder angles produced into a spine: *body* broad: *abdomen* with penult. joint simple: *legs* moderate: *anter. tarsi* 4-, *poster.* 5-jointed: *ant.* with terminal joint elongate-conic.

dcv. DIGLOSSA *Head* sessile: *tho.* somewhat rounded: *ant.* with 2d joint very long: *max.* with 2 long lobes: *labium* with 2 long setaceous laciniæ in the place of palpi.

dcvi. SILUSA *Head* sessile: *tho.* short, smaller than the *elytra*, the latter transverse: *abdomen* somewhat linear: *legs* short: *anter. tarsi* 4-, *poster.* 5-jointed, joints equal: *labial palpi* inarticulate, setaceous: *mouth* prominent.

(dcvii. GYMNUSA *Head* sessile: *tho.* rather narrowed in front: *legs* short, *tarsi* all 5-jointed, basal joint of posterior elongate: *ant.* filiform, straight; *palpi* short, terminal joint subulate: *mouth* rostrate.)

dcviii. MYLLÆNA *Head* sessile: *tho.* broad, narrowed in front, widened, and somewhat angulated behind: *abdomen* conical: *legs* stoutish, short: *anter. tarsi* 4-, *poster.* 5-jointed, basal joint of the latter slightly elongate, *anterior* all very short.

dcix. Deinopsis *Head* sessile, deeply inserted: *tho.* broad behind: *abdomen* conical, the apex styliform: *mand.* with 2 acute teeth, and broad inner toothed lobe: *max. inner* lobe toothed at tip; *labial palpi* obsolete: *tarsi* 3-jointed.

dcx. Centroglossa *Head* sessile, deeply inserted: *tho.* widest behind: *abdomen* conical: *mand.* simple, with internal lobe: *max. intern.* lobe long, sabre-shaped: *lab.* with 2 long terminal processes, its palpi obsolete.

§ B. *Ant.* inserted before the eyes: *tibiæ* mostly spinous: — Tachyporina.

dcxi. Tachyporus *Palpi* filiform, terminal joint short, subulate: *body* short, broad, obtuse in front: *abdomen* conic-obtuse, its segments entire: *ant.* 11-jointed: *tarsi* 5-jointed.

dcxii. Habrocerus *Palpi max.* with terminal joint acuminated: *tho.* transverse, sides rounded, narrow towards the *elytra*: *abdomen* conic, with 6 segments in the ♂, 5 in the ♀: *ant.* 11-jointed; 2 basal joints stout, remainder capillary: *tarsi* 5-jointed.

dcxiii. Trichophya *Palpi* filiform: *tho.* transverse, rounded on the sides and behind, as wide as the *elytra*, which are short: *ant.* 11-jointed, 2 basal joints stout, remainder capillary: *tarsi* 5-jointed, anterior dilated.

dcxiv. Hypocyptus *Palpi max.* with 4th joint subulate: *body* convex, globose, posteriorly attenuated: *abdomen* nearly retracted beneath the elytra: *tarsi* 4-jointed: *ant.* 10-jointed, 3 terminal joints forming a club.

dcxv. Conurus *Palpi max.* with terminal joint minute, subulate: *body* convex: *abdomen* very conical: *tho.* transverse, broad behind: *ant.* 11-jointed: *tarsi* 5-jointed.

dcxvi. Bolitobius *Palpi* long, slender, filiform, terminal joint slightly acuminated: *body* elongate subovate, attenuated behind: *head* elongate, narrowed in front: *ant.* 11-jointed, slender: *tarsi* 5-jointed.

dcxvii. Megacronus *Palpi* filiform, terminal joint as long as the preceding: *body* elongate, narrow: *head* rounded: *tho.* transverse, with rounded angles: *ant.* 11-jointed, terminal joint very long: *tarsi* 5-jointed.

dcxviii. Mycetoporus *Palpi max.* with terminal joint minute, subulate: *body* elongate, slender, attenuated behind and in front: *tho.* widest behind: *ant.* 11-jointed: *tarsi* 5-jointed.

dcxix. Tachinus *Palpi* filiform: *body* broad, attenuated behind: *tho.* transverse, hinder angles rounded: *abdomen* subconic, its segments notched: *ant.* 11-jointed, filiform: *tarsi* 5-jointed.

580 Autalia *Leach.*

2734 impressa *Oliv. E.* iii. 42. pl. 5. f. 41. — *Ste. M.* v. 101. — Reddish, shining; head fuscous; thorax globose, polished, with a short furrow at the apex, and 2 at the base, the last with 2 foveolets adjoining; elytra with 4 short basal furrows; abdomen red, with a black belt near the apex; legs and antennæ reddish. (L. 1⅛-1¼ l.) In decaying fungi, &c.: London district; Norfolk; Suffolk; Swansea: 10-6.

2735 plicata *Kirby.* — *Ste. M.* v. 101. — Red, shining, finely pubescent; head black, larger than the thorax, the latter somewhat globose, with 4 furrows, of which the 2 outer are shortened anteriorly; elytra chestnut, with the base folded; abdomen with a black ring towards the apex; and the region of the hinder thighs dusky; legs testaceous. (L. 1⅛ l.) In boleti, &c.: London, Barham, and S. Wales: 10-4.

2736 ruficornis *Ste. M.* v. 102. — Reddish, shining; head dusky, small; thorax obcordate, narrowed in front, with 3 furrows behind; elytra with the base folded; abdomen with a brownish belt near the tip; legs and antennæ slender, red. (L. 1½ l.) Boleti: Hertford: 6.

2737 aterrima *Ste. M.* v. 102. — Black, shining; head small, orbiculate; thorax orbiculate, narrowed in front, with 4 short furrows on the disc; elytra pubescent, with the base folded; legs dull red; antennæ black. (L. 1 l.) Battersea fields: 3-4.

2738 rivularis *Grav. Mi.* 73- — *Ste. M.* v. 102. — Black, shining; thorax somewhat globose, with 4 furrows, the outer ones abbreviated in front; elytra slightly pubescent, folded at the base; tibiæ and tarsi dull red; antennæ red. (L. $\frac{3}{4}$ l.) Boleti: London district; Bristol; Norfolk; Suffolk; Devon: 10-6.

2739 angusticollis *Ste. M.* v. 102. — Black, shining; thorax narrow, obcordate, with 4 short dorsal furrows; elytra broad, each with 4 basal impressions; legs pitchy-coloured, tibiæ palest; antennæ pitchy-black. (L $\frac{1}{2}$-$\frac{2}{3}$ l.) Battersea fields; Bristol: 1-6.

581 FALAGRIA *Leach.*

2740 sulcata *Pk. F.* iii. 385. — Fa. sulcatula *Ste. M.* v. 103. — Brown-black, shining; thorax obcordate, with a single deep furrow, carried back to the scutellum; elytra transverse, slightly impressed at the base, smooth; legs and base of antennæ testaceous. (L. $1\frac{1}{8}$ l.) In boleti, &c.: London district; Dover; Norfolk; Suffolk: 4-6.

2741 cæsa *Eric. K.* i. 295. — Al. sulcata *Ste. M.* v. 103. — Brown-black; thorax somewhat heart-shaped, with a deep dorsal furrow, continued down the scutellum; elytra 4-drate, finely punctulate, with 2 obscure foveolets at the base; legs and antennæ entirely rusty-testaceous. (L. $1\frac{1}{8}$ l.) Battersea fields; Bristol; &c.: 4-6.

2743 confinis *Kirby.* — *Ste. M.* v. 104. — Black, shining; nearly glabrous; head smaller than the thorax, the latter obcordate, with a deep dorsal furrow; elytra 4-drate, pitchy-black; abdomen slightly narrowed at the base and apex; legs red; antennæ short, black, the 3 basal joints red. (L. $1\frac{1}{8}$ l.) In boleti: Norfolk; Suffolk: 10-4.

2744 obscura *Grav. Mi.* 74. — *Ste. M.* v. 104. — Pitchy-black, shining, slightly pubescent; head narrower than the thorax, the latter somewhat heart-shaped, with a faint dorsal furrow; elytra wide, brownish; tip of abdomen and head pitchy; legs dull red; antennæ reddish, the apex obscure. (L. $1\frac{1}{4}$ l.) Dunghills, &c.: Battersea fields; Suffolk; Norfolk: 3-5.

2745 nigra *Grav. Mi.* 75. — *Ste. M.* v. 104. — Black, shining, finely punctured; thorax somewhat heart-shaped, with an obscure dorsal furrow, terminating in a fovea behind; elytra pitchy-black; legs slender, testaceous-brown; antennæ the same, stoutish. (L. 1 l.) Under stones, &c.: London district; Bristol; Suffolk: 2-4.

2746 picea *Grav. Mi.* 75. — *Ste. M.* v. 104. — Pitchy-black; polished; smooth; thorax obcordate, with an impression at the base, sometimes obscure; elytra pitchy, the apex paler; abdomen broad; legs reddish; antennæ pale pitchy. (L. $\frac{2}{3}$ l.) Stones, &c.: London district; Bristol; Devonshire: 2-4.

2747 polita *Cur.* fo. 462. — *Ste. M.* v. 429. — Black, very glossy, with a few scattered hairs; thorax with a deep dorsal furrow, and a transverse row of punctures at the base; scutellum elongate, with a broad channel down the middle; elytra slightly chestnut at the apex; legs dull red; base of antennæ ochreous. (L. $1\frac{3}{4}$ l.) Winterborne Stoke: 4.

2748 thoracica *Kirby.* — *Ste. M.* v. 105. — *Cur.* x. pl. 462. — Pitchy-black, shining; with a delicate silken pile; thorax obcordate, red, with a rather deep dorsal furrow; elytra pitchy; legs testaceous-red; antennæ

the same, stoutish. (L. 1¾ l.) Hunstanton, Norfolk; Birch Wood; Castle Eden Dean: 8-4.

2749 nitens *Kirby.* — *Ste. M.* v. 105. — Brown-black, shining; nearly glabrous; thorax gibbous, heart-shaped, with an obscure basal impression; elytra broader, pitchy-red, pubescent; legs and antennæ reddish-brown. (L. 1-1¼ l.) Under stones: London district; Norfolk: 8-4.

2750 floralis *Spence*? — *Ste. M.* v. 105. — Black, shining; slightly pubescent; thorax gibbous, obcordate, with an obscure puncture in the middle behind; elytra each with 2 impressions at the base; legs and antennæ pitchy-red. (L. 1¼ l.) Stones, &c.: London district; Norfolk: 8-4.

2751 flavipes *L.* ii. 685.? — *Ste. M.* v. 105. — Dull-red, smooth; head dusky; thorax gibbous, somewhat heart-shaped, pitchy-red, with a faint dorsal line; elytra broad; abdomen with an obscure ring near the apex; legs pale testaceous; antennæ and mouth dull red. (L. 1⅛ l.) Stones, &c.: London district; Bristol; Suffolk: 10-4.

582 Calodera *Mannerheim.*

2752 nigricollis *Pk. F.* iii. 400. — *Ste. M.* v. 125. — Red-brown; opaque; very much punctured; slightly pubescent; thorax somewhat 4-drate, brown; elytra, legs, and antennæ testaceous. (L. 1¾-2 l.) Under stones: London district; Barham; Bristol; Norfolk: 5-6.

2753 nigrita *Mann. Pr.* p. 86. — *Ste. M.* v. 429. — *Shuck. B. C.* pl. 24. f. 5. — Obscure black; densely pubescent; very finely punctulate: thorax flattish, with an obscure channel; abdomen above very thickly punctulate; mouth and tarsi ochreous. (L. 2¼ l.) Under stones: London district: 4.

2754 uliginosa *Eric. K.* i. 305. — M. rufitarsis *Ste. M.* v. 124.? — Deep black, slightly shining, with a delicate silky pubescence; finely punctulated; thorax slightly convex, the base with 2 foveæ; elytra 4-drate, thickly punctured; abdomen shining, slightly punctured above; tarsi, antennæ, and mouth red. (L. 1½ l.) Under stones: London district; Devon; Suffolk: 5-6.

2755 Æthiops *Grav. Mi.* 77. — Pitchy; slightly pubescent; very finely punctured; thorax rather convex, the base with a transverse impression; abdomen very thickly punctured above; legs and antennæ pitchy. (L. 1 l.) Under stones: London district: 4.

583 Astilbus *Dillwyn.*

2756 canaliculatus *Fab. E.* ii. 599. — *Pz. F.* xxvii. f. 13. — *Ste. M.* v. 106. — Testaceous-red, very thickly punctured; thorax oblong, with a deep longitudinal furrow, the disc flattish behind; abdomen thrice the length of the elytra, with a black ring towards the apex; head black. (L. 2-2½ l.) Under stones, &c.: London district, and widely distributed: ⊙.

584 Ocalea *Erichson.*

2757 picata *Kirby.* — *Ste. M.* v. 125. — Oc. castanea *Eric. K.* i. 299. — *Shuck. B. C.* pl. 24. f. 4. — Elongate; pitchy-brown, shining, finely punctured; thorax somewhat orbiculate, truncate in front, and with a fovea at the base; elytra punctulate; legs pale testaceous; antennæ and palpi testaceous-red. (L. 2 l.) Moss, &c.: London district; Norfolk; Suffolk; Southend; S. Wales: 4-6.

585 Polystoma *Stephens.*

2758 obscurella *Grav. Mi.* 159. — *Shuck. B. C.* pl. 24. f. 8. — Al. micans *Ste. M.* v. 113. — Black, with a dense golden silky pubescence; head finely punctured, and with a smooth line; thorax with an obscure dorsal

channel; abdomen rather glossy, broad; tip acute; legs pitchy; knees and tarsi red; antennæ pitchy, terminal joint somewhat obtuse. (L. 1¾-2 l.)

Var.? Al. Kirbii *Ste. M.* v. 113. — Larger (2¾ l.); elytra with the apex pitchy; antennæ black, terminal joint rather acute. Coasts of Suffolk; Norfolk; Devon, near Mount Edgecumbe; Isle of Wight: 4-6.

586 Zyras *Stephens.*

2759 Haworthi *Kirby.* — *Ste. M.* v. 126. pl. xxvi. f. 3. — Shining-red; head, thorax, epigastrium, outer angle of the elytra, and tip of the abdomen, black; antennæ dusky dull-red, the base paler. (L. 2½ l.) Boleti: Norfolk: 6.

587 Pella *Stephens.*

2760 limbata *Pk. F.* iii. 299. — *Ste. M.* v. 162. — Brown-black; shining; very smooth, with a silken pile; thorax with an obscure dorsal channel; breast, margins of the elytra, and legs red; antennæ pitchy-black, reddish at base and apex, the terminal joint stout, elongate, and compressed. (L. 2-2½ l.) Boleti, &c.: London district; Norfolk; Suffolk: 3-6.

2761 divisa *Marsh.* i. 510. — *Ste. M.* v. 162. — Black; obscure, slightly shining and smooth; thorax with a distinct dorsal furrow, deepest behind; elytra dull testaceous; legs and palpi pale testaceous; antennæ black, base testaceous, terminal joint longish and acute. (L. 2-2¼ l.) London district: 3-4.

2762 humeralis *Grav. Mi.* 90. — *Ste. M.* v. 163. — *Shuck. B. C.* pl. 24. f. 7. — Dusky-black; shining; thorax somewhat margined, with a dorsal furrow; elytra minutely punctured, the shoulders red; breast and abdomen dull red, the last with a broad black belt; legs and palpi red; antennæ pitchy, terminal joint moderate, ovate, acute. (L. 2½-3 l.) London district; Norfolk; Suffolk; Devon: 10-4.

2763 funesta *Grav. Mo.* 168. — *Ste. M.* v. 163. — Black; shining; thorax with a fovea in the middle of the base, which is rounded; elytra black, with a griseous pile; abdomen with the edges of the central segments reddish; palpi, legs, and antennæ fuscous, the base of the latter reddish, the terminal joint elongate, somewhat acute. (L. 2½ l.) Hertford: 6.

2764 crassicornis *Kirby.* — *Ste. M.* v. 113. — Black; rather shining, with a short silken pile; thorax broadest in front, minutely punctured, the disc with a small basal fovea; elytra somewhat transverse; legs fuscous; tibiæ paler; tarsi dull red; antennæ stout, dull red, terminal joint conic. (L. 1¾-2 l.) In boleti: Suffolk, and London district.

588 Ischnopoda *Stephens.*

2765 longitarsis *Kirby.* — *Ste. M.* v. 110. — Black, with an obscure silken pile; thorax oblong, with an obsolete furrow behind; elytra pitchy-black; abdomen linear, legs testaceous-yellow, thighs fuscous, hinder tarsi very long; antennæ pitchy, apical joint oblong. (L. 1¾ l.) Moss, &c.: London district; Suffolk: 4-6.

2766 leucopa *Marsh.* i. 506. — *Ste. M.* v. 110. — Black, rather obscure, with a silken pile; thorax 4-drate orbicular, dilated in front, with a very obscure dorsal furrow; abdomen slightly margined; legs slender, black; tarsi pale; antennæ and palpi slender and longish. (L. 1⅓ l.)

Var.? Al. aterrima *Kirby.* — *Ste. M.* v. 110. — Deeper black; base of thighs and tarsi pale. London district; Banks of Usk; in Norfolk and Yorkshire: 4-6.

2767 chalybea *Rudd.* — Deep black, with a bright steel-blue tinge; delicately pubescent; thorax with a slight dorsal channel, and a deepish basal

fovea; tibiæ, especially the anterior, somewhat pitchy; tarsi pitchy-red. (L. 1½ l.) Grassy places: Ryde, and near London: 6.

2768 ruficrus *Kirby.* — *Ste. M.* v. 111. — Black, with a short silken ashy pubescence; head rounded; thorax with a distinct dorsal furrow; abdomen strongly margined; tibiæ and tarsi (the latter stoutish) pale red; antennæ long, pitchy-black, terminal joint stoutest, ovate. (L. 1½ l.) Near London; Suffolk; Norfolk; Devonshire: 3-6.

2769 frontalis *Kirby.* — *Ste. M.* v. 111. — Black, smooth, with an obscure pile; head somewhat orbiculate, pitchy, with a deep frontal impression; thorax flattish, with a dorsal furrow; elytra pitchy-black; abdomen linear; legs and base of antennæ tawny-ochreous, apex of latter pitchy. (L. 1¼ l.) Suffolk: 5-6.

2770 foveata *Kirby.* — *Ste. M.* v. 111. — Deep black, rather shining, with a slightly silken pubescence; head 3-angular-orbiculate, with a large frontal impression; thorax with an obscure dorsal furrow, and some minute punctures; elytra distinctly punctured; abdomen linear, smooth; legs pitchy, anterior tibiæ and all the tarsi fuscous; antennæ with terminal joint ovate-acute. (L. 1¼ l.) London district; Devon; Great Blakenham, Suffolk: 10-4.

2771 attenuata *Marsham.* — *Ste. M.* v. 112. — Deep black; slightly shining; with an obscure pile; thorax rather convex, with a broad shallow fovea towards the base; elytra dull pitchy; abdomen glossy, much narrowed towards the apex, which is acute; thighs dusky; tibiæ and tarsi pitchy-red; antennæ pitchy, the terminal joint ovate-obtuse. (L. 1½ l.) London district: 4.

589 Tachyusa *Erichson.*

2772 † constricta *Eric. K.* i. 307. — Slender; pitchy; finely pubescent; thorax somewhat ovate; abdomen very much narrowed at the base; legs and antennæ red. (L. 1½ l.) Near Yarm, Yorkshire: 7.

2773 atra *Grav. Mo.* 162. — *Shuck. B. C.* pl. 24. f. 2. — Deep black, opaque; scarcely punctulated; with a fine ashy pubescence; thorax 4-drate; flattish, with an obsolete central channel; abdomen rather narrowed towards the apex; legs elongate, pitchy-brown; tibiæ somewhat testaceous; tarsi ochreous; antennæ long, filiform, pitchy. (L. 1½ l.) Under moss, &c.: Isle of Wight: 6.

590 Phloëopora *Erichson.*

2774 reptans *Grav. Mo.* 154. — *Shuck. B. C.* pl. 24. f. 1. — Al. confinis *Ste. M.* v. 123. — Black, slightly shining, finely punctured; thorax transversely 4-drate, the anterior angles obtuse; elytra, tip of abdomen, legs, and antennæ, pitchy-red. (L. 1⅓ l.) London district, and in Norfolk: 4-6.

2775 corticalis *Grav. Mi.* 76. — *Ste. M.* v. 127. — Pitchy-black, rather shining; obsoletely punctate; thorax somewhat 4-drate, anterior angles rounded; elytra dull reddish, apex brighter; tip of abdomen and legs testaceous; antennæ dull red, apex obtuse. (L. 1-1¼ l.)

Var. Al. teres *Grav. Mi.* 79. — *Ste. M.* v. 117. — Darker; the elytra fuscous, with the extreme tip pitchy, or reddish. Under bark: London district; Suffolk; Norfolk; Scotland: 4-8.

591 Hygronoma *Erichson.*

2776 dimidiata *Grav. Mo.* 149. — *Cur.* xi. pl. 514. — Al. basella *Ste. M.* v. 112. 430. — Black; rather obscure; forehead flat; thorax with a dark furrow; elytra luteous-yellow, with the base black; legs and 4 basal joints of the antennæ reddish yellow. (L. 1¼ l.) On banks of

Orwell, near Barham; Battersea fields; Askham Bryan, Yorkshire: 2-6.

592 Homalota *Mannerheim.*

2777 plana *Gyll.* ii. 402. — *Ste. M.* v. 429. — *Shuck. B. C.* pl. 23. f. 9. — Linear-elongate, flat; black, somewhat opaque, punctured; thorax with a very obscure channel; elytra 4-drate, pitchy; tip of abdomen, legs and antennæ rusty-brown. (L. 1 l.) Croft, near Darlington: 4.

593 Callicerus *Gravenhorst.*

2778 obscurus *Grav. Mi.* 66. — Ca. Spencii *Kirby.* — *Ste. M.* v. 165. — *Cur.* x. pl. 443. — Black; obscure; flattish; with a short obscure pubescence; thorax somewhat 4-drate, with 2 faint basal foveæ and a very obsolete dorsal channel; abdomen above smooth; legs pitchy. (L. 1¼-1½ l.)
♀ ? Ca. hybridus *Cur.* fo. 443. ? — *Ste. M.* v. 434. — Elytra and margins of the abdominal segments reddish; legs dull red.
Var. ? Al. terminalis *Kirby.* — *Ste. M.* v. 121. — Elytra and legs testaceous; antennæ brown. Grassy places: Battersea fields; Stockton; and near Barham: 1-4.

594 Bolitochara *Mannerheim.*

§ A. *Hinder tarsi* with basal joint elongate.

2779 collaris *Pk. F.* iii. 401. — *Ste. M.* v. 125. pl. xxvi. f. 2. — Bright red; head, elytra, breast, and tip of abdomen, black: thorax somewhat 4-drate, with a fovea at the base; legs and tip of the antennæ pale. (L. 2-2½ l.) Under stones, moss, &c.: Norfolk: 10-4.
2780 lunulata *Pk. F.* iii. 415. — *Ste. M.* v. 124. — *Shuck. B. C.* pl. 24. f. 3. — Testaceous-red; shining; slightly pubescent; thorax finely punctured, the disc rather dusky behind, and with a slight fovea; head fuscous, and, with the elytra, which are also fuscous, except the shoulders, rather coarsely punctured; abdomen towards the apex, breast and middle of the antennæ, brown-black: ♂ with a ridge on penultimate segment of abdomen; ♀ small. (L. 1½-2 l.) Boleti, &c.: New Forest; Yorkshire; Bristol; Barham: 6.
2781 obliqua *Eric. K.* i. 298. — Fuscous; finely punctured; thorax with a slight fovea at the base; elytra with a distinct dull red streak from the shoulder to the apex of the suture; legs also dull red: ♂ with penultimate segment of the abdomen granulated. (L. 1¾ l.) Boleti, &c.: New Forest: 6.
2782 † dissimilis *Rudd.* — Dull red, very thickly and finely punctured; head dusky; thorax coarsely punctured, widish, with a faint basal depression; elytra with a dark cloud on the outer apical angle; abdomen with the 3 terminal segments dull black; legs pale testaceous; antennæ stout, dull brown, basal and apical joints paler. (L. 1¼ l.) Boleti, &c.: Isle of Wight: 6.
(2783 † lucida *Grav. Mi.* 70. — *Ste. M.* v. 141. — Red; shining; head, breast, outer angle of the elytra, and a belt on the abdomen, black; antennæ black, base red. (L. 1½ l.) Introduced in mistake as British.)

§ B. *Hinder tarsi* with the 4 basal joints equal.

a. Wingless.

2784 circellaris *Grav. Mo.* 155. — Al. cingulata *Kirby.* — *Ste. M.* v. 126. — Wingless; testaceous-red; slightly shining; head fuscous or black; thorax somewhat 4-drate, with an obscure fovea at the base; abdomen with a pitchy belt beyond the middle; legs pale, and antennæ reddish yellow: ♂ with the elytra tuberculated near the scutellum, the penult. segment of abdomen dentate in the middle. (L. 1-1¼ l.)

Var. Al. ochropa *Kirby*. — *Ste. M.* v. 127. — With the thorax pitchy.

Var. Al. contigua *Ste. M.* v. 130. — Pitchy-red, legs paler; antennæ pitchy; head and abdominal belt deep black.

Var. Al. rufescens *Kirby*. — *Ste. M.* v. 128. — Dusky, or blackish; thorax, antennæ, legs, and tip of abdomen, red. Boleti, decayed trees, &c.: London district; Norfolk; Suffolk; Devon; &c.: 4-6.

b. Winged.

1. *Thorax* nearly as long as broad: *abdomen* mostly linear.

2785 graminicola *Grav. Mo.* 176. — Al. rufitarsis *Kirby*? — *Ste. M.* v. 124.? — Black; shining; with a silken pile; legs pitchy; tarsi red; thorax somewhat 4-drate, the base with 2 deep foveolets; abdomen above sparingly and obscurely punctured: ♂ with the penult. segment of abdomen punctured; ♀ smooth. (L. 1½-2 l.) Boleti, &c.: London district; New Forest; Ryde; Suffolk; Devon: 6.

2786 quisquiliarum *Gyll.* ii. 398. — Al. foveolaris *Kirby*. — *Ste. M.* v. 119.? — Linear; flattish; black; with a delicate silken pile; elytra fuscous; legs and base of antennæ testaceous; thorax somewhat 4-drate, narrower than the elytra, and with an obscure dorsal channel; abdomen above sparingly and finely punctured: ♂ with an elevated line in the middle of the penult. segment of the abdomen. (L. 1½-2 l.) Fungi: London district: 6.

2787 carbonaria *Kirby*. — *Ste. M.* v. 123. — Deep black, glossy; slightly pubescent; thorax rather convex, punctulated, rounded behind, with an obscure foveolet; elytra convex and punctured, dull piceous, with the apex pale; abdomen linear, smooth; legs pitchy; tibiæ and tarsi dull reddish; antennæ pitchy-black. (L. 1-1½ l.)

Var. Al. subpubescens *Kirby*. — *Ste. M.* v. 123. — Thorax more distinctly foveolated at the base, the hinder thighs black. Fungi, &c.: London district; Suffolk; Norfolk; New Forest; S. Wales: 6.

2788 foveola *Leach*. — *Ste. M.* v. 124. — Black, rather shining; head narrower than the thorax, rounded; thorax widened behind, and with a basal fovea; elytra rather wider, pubescent, punctured; abdomen glossy, smooth; thighs brown; tibiæ pitchy, or reddish; tarsi pitchy; antennæ somewhat filiform. (L. 1½-1¾ l.) Fungi: Hertford; Devon; S. Wales: 6.

2789 elongatula *Grav. Mi.* 79. — *Ste. M.* v. 127. — Al. elongata *Kirby*? — *Ste. M.* v. 117.? — Linear, flattish; black; rather shining, with a silken pile; elytra fuscous; tip of abdomen, legs, and base of antennæ, testaceous; thorax somewhat 4-drate; abdomen with the anterior segments thickly, and the posterior dispersedly and finely, punctulate: — thorax sometimes with a small basal foveolet, or a faint channel. (L. 1¾ l.) Marshy ditches: London district; New Forest; Norfolk; Suffolk: 4-6.

2790 linearis *Grav. Mi.* 69. — *Ste. M.* v. 119.? — Linear; black; or pitchy; elytra fuscous; base of the antennæ, legs, and tip of the abdomen, testaceous; thorax somewhat 4-drate, with a deepish channel; abdomen above sparingly and finely punctured, apex smooth: ♂ with a frontal impression. (L. 1⅓-1½ l.) Moss: London district; Norfolk: 12-4.

2791 angustula *Gyll.* ii. 391. — *Ste. M.* v. 119. — Linear; flattish; black; base of antennæ, elytra, and legs, testaceous; thorax somewhat 4-drate, with a distinct dorsal channel; abdomen above very thickly and finely punctulated: ♂ with a frontal impression, the thorax rather broadly channelled, and the penult. segment of the abdomen somewhat granulated. (L. 1½-1¾ l.) Rare; moss: London district and Nottingham: 12-2.

2792 inquinula *Grav. Mi.* 78. — Al. amicula *Ste. M.* v. 132. — Linear;

flattish; black, or pitchy; slightly pubescent; thorax slightly transverse, without any basal fovea; elytra dull red, or pitchy; abdomen linear; legs pale testaceous; antennæ pitchy-black, the 2 basal joints red. (L. $\frac{2}{3}$ l.) Fungi: London district; Suffolk: 6.

2793 analis *Grav. Mi.* 76. — Al. inquinula *Kirby.* — *Ste. M.* v. 128. — Linear, flattish; black; slightly pubescent; thorax brownish, or reddish, somewhat orbiculate, moderately convex, the base with a slight transverse fovea; elytra brown, or dull red; tip of abdomen, legs, and antennæ, testaceous. (L. $\frac{3}{4}$-1 l.) Fungi: Darenth Wood; Suffolk; Devon; Yorkshire: 5-6.

2794 foveolata *Kirby.* — *Ste. M.* v. 128. — Narrow; dusky; slightly pubescent and shining; thorax with a slight basal impression; elytra pitchy-black; abdomen with the apex reddish; legs dull red; antennæ pitchy, the base paler. (L. $\frac{3}{4}$ l.) Fungi: London district; Suffolk: 6.

2795 nigrofusca *Kirby.* — *Ste. M.* v. 129. — Brown-black; with a slight pubescence; head scarcely so wide as the thorax; the latter with an obscure dorsal channel; elytra fuscous, with a silky pile; abdomen with its tip rather pitchy; legs and antennæ dull red, the latter slightly thickened exteriorly. (L. $\frac{3}{4}$ l.) London district; Suffolk: 6.

2796 littoralis *Marsham.* — *Ste. M.* v. 139. — Linear, black, slightly shining; head as wide as the thorax, nearly 4-drate; thorax somewhat orbiculate, transverse; elytra dull pitchy; legs and antennæ testaceous-red, the latter thickened towards the apex, with the terminal joint small, obtuse. (L. $\frac{3}{4}$ l.) Boleti: London district: 6.

2797 angusta *Ste. M.* v. 139. — Slender; pitchy-black, slightly pubescent and shining; head small, black; thorax wider, minutely punctured, and with a faint basal fovea; elytra pitchy; tip of abdomen palish; legs pitchy-red; antennæ pitchy, base paler, terminal joint acute. (L. $\frac{3}{4}$ l.) Putrid fuci: Dover; Bristol: 6.

2798 tenuior *Kirby.* — *Ste. M.* v. 143. — Narrow; black, rather obscure; glabrous; head somewhat 3-angular; elytra dull rusty-red; abdomen with the apex pitchy; legs ochreous; antennæ pitchy, base dull red, terminal joint suddenly larger than the rest, acute. (L. $\frac{1}{3}$ l.) Boleti: London district; Suffolk: 6.

2799 Boleti *L.* ii. 686. — *Ste. M.* v. 129. — Brown, somewhat glabrous; head blackish; thorax a little rounded; elytra pale fuscous, convex; abdomen with the tip reddish; legs, palpi, and antennæ pale, the latter with the terminal joint obtuse: — elytra sometimes reddish, with the base rather obscure. (L. $\frac{1}{2}$ l.) Boleti: London district: 6.

2800 immunis *Kirby.* — *Ste. M.* v. 129. — Black, nearly glabrous and shining; head somewhat orbiculate; thorax minutely punctulate, with an obscure transverse impression on the disc; elytra pitchy-black, very finely punctulate; abdomen with the tip pitchy-red; legs pale testaceous; antennæ pilose, pitchy-red, the 2 basal joints pale testaceous. (L. 1 l.) Fungi: Norfolk: 6.

2801 apicalis *Ste. M.* v. 130. — Pitchy-brown; slightly shining, rather pubescent; head black, somewhat orbiculate; thorax slightly convex, with a faint dorsal channel, terminating in a slight fovea; elytra pubescent; abdomen with its tip pitchy-red; legs and antennæ paler pitchy-red, the latter rather long and slender. (L. 1$\frac{1}{4}$ l.) Fungi: London district: 6.

2. *Thorax* as broad as long: *abdomen* mostly wide, flat.

2802 brunnea *Fab. E.* ii. 600. — Al. cinnamomea *Ste. M.* v. 139. — Flattish; testaceous; shining, head and penult. segments of the abdomen pitchy; abdomen itself rather strongly punctured; thorax somewhat trans-

versely 4-drate, with a faint dorsal impression; legs pale testaceous. (L. 1½-2 l.)

Var. Al. zonalis *Kirby*. — *Ste. M.* v. 140. — Reddish, head pitchy-black; belt on the abdomen and the antennæ black.

Var.? Al. atriceps *Kirby*. — *Ste. M.* v. 140. — Reddish, head black; elytra with a cloud near the scutellum, and on the outer apical angles fuscous; belt on the abdomen and antennæ brown.

Var.? Al. nigriceps *Marsh.* i. 515. — *Ste. M.* v. 140. — Broad; testaceous-red; head black; abdominal belt dusky; antennæ testaceous, the base palest.

Var.? Al. thoracica *Ste. M.* v. 140. — Dull red; head black; thorax light red, with 2 brown clouds; abdominal belt dusky. In boleti and under bark: Coombe Wood; Hertford; Spitchweek; Norfolk; Suffolk; S. Wales, &c.: 5-6.

2803 sericans *Grav. Mo.* 159. — Black, shining; head and thorax with a yellowish silken pile; thorax punctured, transverse, flattish, with a fovea at the base; elytra and legs dull testaceous; abdomen smooth above, the anterior segments sparingly and finely punctured, the tip pale yellowish; basal joint of antennæ pale red. (L. 1½-2 l.) Boleti: London district; Ryde: 6.

2804 incana *Erich. K.* i. 329. — Elongate, flattish, deep black; opaque, clothed with an ashy pile; thorax narrower than the elytra, flat in the middle; abdomen above very finely granulated; base of the antennæ and the tarsi red. (L. 1½-1⅔ l.) Putrid fuci: Ryde: 6.

2805 socialis *Pk. F.* iii. 407. — *Oliv. E.* iii. 42. pl. 3. f. 23. — *Ste. M.* v. 134. — Black, slightly shining; antennæ, legs, and elytra testaceous, the latter with the base of the suture and the outer tips dusky; thorax transverse, with a faint channel; the sides sometimes pale; abdomen sparingly and finely punctured above, the tip smooth; ♂ with antepenult. segment of abdomen flat, and serrated on the edge; 2d segment not tubercled; ♀ smooth. (L. 1½-1¾ l.)

Var. Al. euryptera *Ste. M.* v. 135. — Elytra broad, pitchy-black, or fuscous. London district: Bristol; Suffolk; Norfolk: 6.

2806 xanthoptera *Kirby*. — *Ste. M.* v. 116. — Black, rather shining, with a pitchy pile; thorax faintly narrowed in front; elytra dull testaceous, or brownish, rather dusky towards the scutellum and on the outer apical angles; tip of abdomen pitchy; legs pale testaceous; antennæ dusky, base red. (L. 1¼-1¾ l.)

Var. Al. femorata *Marsham*. — *Ste. M.* v. 122. — Elytra pitchy, with the outer angles darker; thighs stoutish, pitchy-brown; antennæ pitchy-black. Boleti, &c.: London district; Suffolk; S. Wales, &c.: 6.

2807 vicina *Kirby*. — *Ste. M.* v. 116. — Shining black, smooth: disc of elytra, tibiæ, and tarsi reddish; tibiæ and tarsi dull red; antennæ with terminal joint elongate; ♂ with a dorsal tubercle on the 2d segment of the abdomen; penult. segment thickly punctured; ♀ smooth. (L. 1½ l.) Rotten oaks: London district; Ryde: 6-7.

2808 consimilis *Kirby*. — *Ste. M.* v. 116. — Black; shining; punctulated, and with a short silken pile: thorax rounded behind, and with a faint basal impression; elytra flattish, dull brown; legs black, or pitchy-black; tarsi red; antennæ black, slender, nearly filiform. (L. 1¼ l.) Fungi: London district; Suffolk: 6.

2809 assimilis *Kirby*. — *Ste. M.* v. 117. — Black; slightly shining, finely punctured; with an ashy silken pile; thorax with an obscure basal impression; elytra flattened towards the scutellum, and with an elevated humeral callus; abdomen linear, glabrous; legs pale testaceous, thighs

brownish; antennæ shortish. (L. 1⅓ l.) Boleti: London district; Suffolk: 6.

2810 nigripalpis *Kirby*. — *Ste. M.* v. 120. — Black; slightly shining, head somewhat orbiculate, scarcely narrower than the thorax, the latter waved behind, minutely punctulate; elytra pitchy; abdomen glossy; legs pale; palpi and antennæ black. (L. 1¼ l.) Boleti: London district; Suffolk; Norfolk: 6.

2811 nitidiuscula *Ste. M.* v. 121. — Pitchy-black, slightly shining, and pubescent; head black; thorax slightly convex; elytra pitchy; abdomen glossy, deeply margined, the apex pitchy; legs pale pitchy-red; antennæ long, pitchy, the base red; terminal joint obtuse. (L. 1¼ l.) Boleti: London district: 6.

2812 consobrina *Ste. M.* v. 122. — Black; slightly shining, and pubescent; head orbiculate; thorax with an obscure basal fovea; elytra pitchy-red, base of suture and the outer margin dusky; abdomen glossy, tip pitchy; legs pitchy-red; antennæ short, stoutish. (L. 1¼ l.) Boleti: London district: 6.

2813 testaceipes *Ste. M.* v. 122. — Black; shining, rather glabrous; head orbiculate: thorax impunctate; elytra broad, livid pitchy, outer hinder angles dusky; abdomen broad; apex acute and pitchy; legs pale livid; antennæ short, stout, black. (L. 1¼ l.) Fungi: London district: 6.

2814 caliginosa *Ste. M.* v. 123. — Black; rather shining, slightly pubescent; head nearly orbiculate, narrower than the thorax, the latter flattish, with a faint dorsal channel; elytra dark pitchy; abdomen glossy; legs pitchy-red; antennæ rather long and slender. (L. 1⅓ l.) Fungi, &c.: London district: 6.

2815 antennata *Kirby*. — *Ste. M.* v. 115. — Black; rather shining and pubescent, finely punctured; thorax slightly narrowed in front, rounded behind, with a faint dorsal channel; elytra dull testaceous; abdomen with the tip acute and pitchy; legs dull red; antennæ somewhat filiform, slender at base, and half the length of the body. (L. 1½ l.) Fungi: London district; Suffolk: 6.

2816 pusilla *Grav. Mi.* 78. — *Ste. M.* v. 115. — Black; slightly shining; finely pubescent and punctured; head somewhat orbiculate; thorax with a transverse basal foveolet; elytra longer than the thorax, very thickly punctured; tip of abdomen and legs testaceous; antennæ red, pilose, terminal joint acute. (L. 1 l.) Fungi: Scotland and Suffolk: 6.

2817 pallipes *Kirby*. — Al. longiuscula? *Ste. M.* v. 118. — Black; rather shining; smooth; slightly pubescent; thorax rounded behind, flattish, with an obscure dorsal furrow; elytra broad, pitchy-black; legs testaceous, thighs brownish; antennæ pitchy, slightly thickened at tip, apical joint rather short, acute. (L. 1½ l.) Boleti: London district; Suffolk; S. Wales: 6.

2818 sericoptera *Kirby*. — *Ste. M.* v. 119. — Black; slightly shining; with a short dusky pile; head orbiculate-ovate; thorax slightly narrowed and rounded behind; elytra 4-drate, flat, brown, pubescent; abdomen glossy; legs ochreous; antennæ thickened at tip, dusky-red, the basal joint red; palpi dusky. (L. 1⅓ l.) Boleti: London district; Suffolk; Norfolk: 6.

2819 nigricornis *Kirby*. — *Ste. M.* v. 120. — Black; obscure; with a slight dingy pile; head somewhat orbiculate; thorax rounded behind, finely punctured, with an obscure dorsal channel; elytra rather thickly punctured, flat; abdomen linear, glossy; legs livid-testaceous, base of antennæ reddish. (L. 1½ l.) Boleti: London district; Suffolk: 6.

2820 Brassicæ *Kirby*. — *Ste. M.* v. 120. — Deep black; rather shining;

with a dusky silken pile; head 3-angular-orbiculate; thorax rounded behind, obsoletely punctured, with an obscure furrow at the base; elytra dull tawny-yellow; abdomen linear; legs tawny; 2 basal joints of antennæ red, terminal one acute; palpi reddish. (L. 1 l.) Vegetable refuse: London district; Suffolk: 6.

2821 atramentaria *Gyll.* ii. 408. — *Ste. M.* v. 130. — Black, rather smooth and shining; head rounded, narrower than the thorax, the latter rounded behind and with an obscure dorsal line; elytra flattish; legs, especially the tibiæ, reddish; thighs sometimes pitchy; antennæ wholly black, filiform. (L. 1-1½ l.) Boleti: London district; Norfolk; Suffolk; S. Wales: 4-6.

2822 admota *Kirby.* — *Ste. M.* v. 131. — Black, rather shining and wide; thorax slightly narrowed behind, the disc not channelled; elytra broader and longer than the thorax, pubescent; legs red; antennæ short, black, thickened at the tip. (L. 1 l.) Boleti: Suffolk; Bristol: 6.

2823 pumila *Kirby.* — *Ste. M.* v. 131. — Black, slightly pubescent and glossy; head somewhat orbiculate; thorax with an obscure dorsal channel; elytra transverse; abdomen linear; legs pitchy, anterior palest; antennæ longish, slightly thickened exteriorly. (L. ¾ l.) Fungi: London district; Norfolk; Suffolk: 4-6.

2824 livipes *Kirby.* — *Ste. M.* v. 131. — Black; obscure, smooth; head orbiculate; thorax with a faint dorsal furrow; elytra flattish, pitchy-black; abdomen linear, the tip rather acute; legs testaceous. (L. 1 l.) Fungi: London district; Suffolk: 4-6.

2825 erythropa *Kirby.* — *Ste. M.* v. 131. — Deep black; smooth, glabrous; head nearly as wide as the thorax, which is somewhat orbiculate, with a very obscure dorsal furrow; elytra flattish; abdomen linear, very glabrous; legs bright red; antennæ slender, nearly filiform. (L. ¾ l.) Boleti: London district; Suffolk: 6.

2826 obscuriuscula *Kirby.* — *Ste. M.* v. 132. — Black, with a dull obscure pubescence; head somewhat orbiculate; thorax flattish, with a dorsal furrow; abdomen linear; legs dull red, thighs black; antennæ shortish, slightly thickened, the 2 basal joints red. (L. 1 l.) Boleti: London district; Norfolk; Suffolk: 6.

2827 picipennis *Kirby.* — *Ste. M.* v. 132. — Black, shining, slightly rounded; glabrous; head somewhat orbiculate; thorax with an obscure fovea behind; elytra pitchy; abdomen linear; legs red; antennæ shortish, thickened at tip. (L. ¾ l.) Boleti: London district; Suffolk; Yorkshire: 3-5.

2828 fuscula *Ste. M.* v. 132. — Black brown; slightly shining; pubescent; head orbiculate; thorax wider, narrowed behind, and with a faint dorsal furrow, terminating in a basal foveolet; elytra pale-brown; abdomen shining, conic, the tip somewhat pitchy; legs pale testaceous; antennæ the same, with the tip dusky. (L. 1¼ l.) Boleti: London district: 6.

2829 brunnipes *Ste. M.* v. 133. — Black, slightly shining and pubescent; head orbiculate; thorax wider, minutely punctured, but not channelled; elytra dull black; abdomen rather conic; legs red-brown; antennæ with the base fuscous. (L. 1¼ l.) Boleti: London district: 6.

2830 atricornis *Ste. M.* v. 133. — Pitchy-black, slightly pubescent and shining; head orbiculate-3-angular; thorax wider, with a small basal foveolet; elytra dull pitchy-brown, slightly convex; abdomen conic acute; legs and antennæ at base fuscous. (L. 1¼ l.) Boleti: London district: 6.

2831 fimetarius *Ste. M.* v. 133. — Pitchy-brown, slightly shining and pubescent; head somewhat orbiculate; thorax rounded behind, with a faint

dorsal line; elytra slightly convex, deep piceous; abdomen glossy, slightly conic; legs pitchy-testaceous; antennæ fuscous, slender at the base. (L. 1 l.) Boleti: London district: 6-8.

3. *Thorax* broader than long (transverse).

2832 cinnamomea *Grav. Mi.* 88. — Al. pallipes *Ste. M.* v. 151. — Red-brown; very finely punctured; head somewhat orbiculate; thorax transverse, slightly convex; abdomen black, glossy above and narrowed towards the apex; legs and base of the antennæ pale testaceous. (L. 1¾-2 l.) Fungi, &c.: London district; New Forest; Devon: 5-6.

2833 longicornis *Grav. Mi.* 87. — *Ste. M.* v. 114. — Oblong; black; shining; very thickly punctured; thorax somewhat orbiculate and flattish; abdomen very thickly punctured above; the tip brownish, or testaceous; elytra and legs testaceous; antennæ rather long, somewhat filiform. (L. 1-1½ l.) Fungi: London district; New Forest; Norfolk; Suffolk: 6.

2834 Fungi *Grav. Mo.* 157. — Al. xanthopa *Kirby.* — *Ste. M.* v. 114. — Black; rather glossy; very thickly punctured; thorax transverse, slightly convex, as broad as the abdomen, which is slightly narrowed towards the apex, the terminal joint sparingly punctured; elytra pitchy-brown, or testaceous; legs and antennæ red; the apex of the latter sometimes dusky. (L. 1¼-1½ l.)

Var. Al. tricolor *Kirby.* — *Ste. M.* v. 114. — Elytra fuscous; tip of abdomen pitchy; legs testaceous; antennæ red brown. Fungi, &c.: London district; Darenth Wood: 6.

2835 contigua *Kirby.* — *Ste. M.* v. 116. — Black; somewhat obscure; finely pubescent and punctured; head narrower than the thorax, the latter narrowed behind, both with a central fovea; elytra dull red; legs red; antennæ wholly black, distinctly perfoliated. (L. 1½ l.) Fungi: London district; Suffolk: 6.

2836 angustata *Kirby.* — *Ste. M.* v. 115. — Narrow; deep black, shining; head somewhat orbiculate: thorax truncate in front, rounded behind, delicately punctured; elytra flat, obscurely punctured, dull red or pitchy; abdomen with the head and apex pitchy; legs ochreous; antennæ pitchy at the base. (L. 1¼ l.) Fungi: London district; Suffolk: 6.

2837 nitidula *Kirby.* — *Ste. M.* v. 118. — Rather elongate, black, shining; slightly pubescent: head triangular-orbiculate; thorax narrowed behind, and with a faint dorsal furrow; elytra dull reddish, finely punctulate; abdomen linear, glossy; legs ochreous; antennæ dull red, terminal joint rather obtuse; palpi dull red. (L. 1½ l.) Marine rejectamenta: Holme, Norfolk: 8.

2838 sulcifrons *Kirby.* — *Ste. M.* v. 121. — Black; shining; slightly pubescent; minutely punctured; head orbiculate, with an obscure frontal channel; thorax broadest rather before the middle, the disc with a faint channel; elytra dull pitchy; abdomen glossy; legs reddish; antennæ long, dull red. (L. 1½ l.) Boleti: London district; Norfolk; Suffolk; Devon; S. Wales: 6.

2839 foveatocollis *Kirby.* — *Ste. M.* v. 134. — Black, rather shining; thorax minutely punctured, and with a slight basal fovea; elytra slightly pubescent, thickly and finely punctulated, fuscous, with an oblique dense pale streak; abdomen linear, glossy; legs testaceous; antennæ with the basal joint red, the apical one elongated, acute. (L. 1¼ l.) Boleti: London district; Yorkshire, and Scotland: 6.

2840 obfuscata *Grav. Mi.* 87. — *Ste. M.* v. 135. — Black; shining; finely pubescent; head somewhat 3-angular; thorax broader, pitchy, its lateral

margins paler; elytra dull testaceous, convex, punctured; abdomen linear, apex pitchy; legs testaceous; antennæ fuscous. (L. 1½ l.) Fungi: London district; Norfolk: 6.

2841 laticollis *Kirby.* — *Ste. M.* v. 135. — Pitchy, rather glabrous; minutely punctured; head black; thorax broad, rounded behind, livid, with a faint dorsal channel; elytra rather wider than the thorax, livid; abdomen with the apex red; legs pale; antennæ pitchy, base pale: — disc of thorax sometimes dusky. (L. ⅝-1 l.) Boleti: London district; Suffolk: 6.

2842 rufungula *Kirby.* — *Ste. M.* v. 135. — Black; shining; rather pubescent, and very much punctured; head somewhat orbiculate; thorax with the hinder angles broadly red; elytra flat, rusty-red, sides, antennæ, and inner base dusky; legs pale red; antennæ fuscous. (L. 1 l.) Fungi: London district and Suffolk: 6.

2843 infuscata *Kirby.* — *Ste. M.* v. 136. — Black; shining; slightly pubescent; minutely punctured; head orbicular; elytra not wider than the thorax, red-brown; abdomen linear; legs livid; antennæ longish, pitchy-black. (L. 1 l.) Boleti: London district; Norfolk; Suffolk; Bristol; 6-8.

2844 luripes *Kirby.* — *Ste. M.* v. 136. — Black; obscure, smooth, with a short pubescence; head somewhat 3-angular; thorax with a faint dorsal channel; elytra rather wider, flat; abdomen with the tip acute; legs livid, thighs dusky; antennæ longish, terminal joint acute. (L. 1⅓ l.) Boleti: Hertford and Suffolk: 6.

2845 similis *Kirby.* — *Ste. M.* v. 136. — Black, somewhat shining and slightly pilose; head rather triangular; thorax a little transverse, with a very obscure dorsal channel; legs, palpi, and 2 basal joints of the antennæ red, rest of the antennæ dusky-black. (L. 1 l.) Boleti: London district; Suffolk; Norfolk: 6.

2846 obscurata *Kirby.* — *Ste. M.* v. 137. — Black; with a slight obscure silken pile; head somewhat orbiculate; thorax broader, slightly transverse; elytra rather wider, fuscous, with a glossy pile; abdomen with the apex acute and reddish; legs red; antennæ with the terminal joint ovate-acute. (L. 1⅓ l.) Boleti: London district; Norfolk; Suffolk: 6.

2847 fulvipes *Kirby.* — *Ste. M.* v. 137. — Black, rather shining, and glabrous; smooth; head rounded; thorax wider, with an obscure dorsal channel; elytra pitchy, slightly pubescent; abdomen with the edges of some of the terminal segments pitchy; legs testaceous; antennæ red, nearly filiform. (L. 1 l.) Decaying vegetables, &c.: London district; Suffolk: 1-6.

2848 pyrrhopa *Kirby.* — *Ste. M.* v. 137. — Black; rather shining and glabrous; smooth: head somewhat 3-angular; elytra a little obscure; abdomen with the apex obtuse; legs and antennæ dull red, the latter slightly thickened at the tip, terminal joint acute. (L. 1 l.) Boleti: London district; Suffolk: 4-6.

2849 Agarici *Kirby.* — *Ste. M.* v. 138. — Black, slightly shining, glabrous, smooth, head somewhat 3-angular; thorax impunctate; elytra obscure, with a short pubescence; legs and antennæ red, terminal joint of the latter obtuse. (L. 1 l.) Boleti: London district; Suffolk: 6.

2850 atricollis *Ste. M.* v. 138. — Pitchy-brown, rather shining and pubescent: head small; thorax black; abdomen very glossy; legs and antennæ testaceous; terminal joint of the latter obtuse. (L. ¾ l.) Boleti: London district: 6.

2851 brunniceps *Ste. M.* v. 138. — Pitchy-black; slightly shining and pubescent; head brown; elytra pitchy; abdomen shining; legs and antennæ

testaceous; the latter nearly filiform, with the terminal joint acute. (L. ¾ l.) Boleti: London district: 6.

2852 microcephala *Ste. M.* v. 138. — Pitchy-black; slightly shining and pubescent; head smooth, black; thorax faintly narrowed behind, with an obscure dorsal channel; elytra wider, pitchy, with the hinder margin obscurely waved; abdomen glossy; legs testaceous red; antennæ long, pitchy, with the base pale. (L. 1½ l.) Boleti: London district: 6.

2853 nigritula *Grav. Mi.* 85. — *Ste. M.* v. 142. — Black, slightly pubescent, smooth and shining; head rounded; thorax wider, with an obscure dorsal channel; elytra dull spotless yellow; legs ochreous; antennæ testaceous. (L. 1 l.) Boleti: London district; Suffolk: 6.

2854 pyrrhoceras *Kirby.* — *Ste. M.* v. 142. — Black; smooth; slightly pubescent: head rounded; thorax narrowed in front; elytra pale red, flattish; legs ochreous; antennæ red, terminal joint rounded, tip compressed. (L. 1 l.) Boleti: Suffolk: 6.

2855 liturata *Kirby.* — *Ste. M.* v. 142. — Black; rather shining; thickly and finely punctured; glabrous; head orbiculate, with a furrow behind; elytra with an oblique ochreous streak from the shoulder to the inner apex; abdomen dull red, with a black ring towards the apex; legs ochreous; antennæ testaceous. (L. 1 l.) Boleti: London district: 6.

2856 glauca *Ste. M.* v. 145. — Black; slightly shining; obscurely pubescent: head somewhat orbiculate; thorax with a very faint basal fovea; elytra convex, glaucous; abdomen with the apex pitchy-red; legs red; antennæ with the tip acute. (L. 1 l.) Boleti: London district: 6.

2857 parvula *Kirby.* — *Ste. M.* v. 143. — Deep black; slightly pubescent; and rather glossy; finely punctulated; thorax with an obsolete dorsal furrow; elytra 4-drate, very thickly punctured; abdomen glossy; legs dull red; thighs dusky; antennæ with terminal joint ovate-acute. (L. ⅔ l.) Boleti: London district; Norfolk; Suffolk; Devonshire: 4-6.

2858 fuscicornis *Ste. M.* v. 145. — Black, slightly shining, and pubescent; head somewhat orbiculate; thorax with a small basal fovea; elytra wider than thorax, convex, pitchy-red; abdomen with the tip slightly pitchy; legs red; antennæ fuscous-red, short, apex obtuse. (L. ⅛ l.) Boleti: London district: 6.

2859 punctulata *Kirby.* — *Ste. M.* v. 144. — Black, clothed with a long villose pile; very thickly and minutely punctured; head somewhat orbiculate; elytra convex, red, with the legs dull red; antennæ pitchy-red, 2 basal joints testaceous; base of palpi pale. (L. 1⅔ l.) Boleti: London district; Suffolk: 6.

2860 flavicollis *Ste. M.* v. 144. — Pitchy-red, slightly pubescent: thorax wider than the head, convex, reddish-yellow; elytra black; abdomen with a black belt towards the apex; legs red; antennæ short, stout, tip obtuse. (L. 1 l.) Boleti: Godstone, Surrey: 6.

2861 opaca *Ste. M.* v. 144. — Deep black, opaque, slightly pubescent; head large, rounded; thorax rather wider, and a little narrowed behind; elytra dull spotless black; legs red; antennæ pitchy; apex obtuse. (L. 1 l.) Boleti: London district: 6.

2862 fusca *Marsh.* i. 514. — *Ste. M.* v. 142. — Brown-black, slightly pubescent; head somewhat orbiculate; thorax rounded; elytra fuscous; tip of abdomen conic, fuscous; legs testaceous, hinder pair darker; antennæ fuscous, terminal joint very large, ovate; palpi red. (L. 1¼ l.) Boleti: London district: 6.

2863 castanipes *Kirby.* — *Ste. M.* v. 143. — Black, rather shining, glabrous; head somewhat rounded; thorax widest behind; elytra slightly pubescent and margined; abdomen with its apex acute; legs dull red;

antennæ with the tip thickened, the apical joint turbinate. (L. $1\frac{1}{4}$ l.) Boleti: London district; Norfolk: 6.

?864 pilosula *Kirby.* — *Ste. M.* v. 144. — Deep black, shining, conspicuously pilose; head 3-angular-orbiculate; thorax with the angles somewhat rounded; legs dull red; antennæ longish, the terminal joint suddenly enlarged, ovate-acute. (L. $1\frac{1}{8}$ l.) Dung, &c.: London district; Holme, Norfolk: 8.

595 Oligota *Mannerheim.*

2865 pusillima *Grav. Mo.* 175. — *Ste. M.* v. 431. — Somewhat linear; black; shining; elytra dull pitchy; tip of abdomen reddish; legs and antennæ dull red; club of the latter 4-jointed, abrupt, and black. (L. $\frac{3}{4}$ l.) Ripley; South Lambeth; New Forest: 5-6.

2866 picipes *Kirby.* — *Ste. M.* v. 145. — *Shuck. B. C.* pl. 22. f. 3. — Ol. atomaria *Erich. K.* i. 363. ? — Somewhat linear; black, slightly shining; legs and antennæ pitchy-brown, the club of the latter 3-jointed and abrupt. (L. $\frac{3}{4}$ l.) London district; Norfolk and Suffolk: 1-6.

2867 Pusio *Kirby.* — *Ste. M.* v. 146. — Somewhat linear; black; shining; thorax very short; legs and base of antennæ reddish, club moderately thickened, 4-jointed and black. (L. $\frac{1}{2}$ l.) Moss: Ripley: 1-4. Stanhoe, near Fakenham, Norfolk: 1.

2868 casei *Kirby.* — Al. pumila? *Ste. M.* v. 146. — Ol. granaria *Erich. K.* i. 364. ? — Ovate; deep black; shining; mouth, legs, and antennæ dull red, the club of the latter 4-jointed, moderately thickened, and dull dusky-red. (L. $\frac{1}{2}$-$\frac{2}{3}$ l.) Moss: London district: 5-6.

2869 fuscipennis *Kirby.* — *Ste. M.* v. 146. — Ol. subtilis *Erich. K.* i. 364. — Dusky black, shining; elytra, tip of abdomen, and legs dull red-brown; antennæ dull reddish, slightly clavate, the club 4-jointed dusky. (L. $\frac{2}{3}$ l.) Moss, &c.: London district: 6.

2870 minutissima *Kirby.* — *Ste. M.* v. 146. — Pitchy-black, shining; legs dull red; antennæ black, slightly clavate, club 3-jointed. (L. $\frac{1}{2}$ l.) Moss: Ripley and Suffolk: 6.

596 Gyrophæna *Mannerheim.*

2871 nitidula *Gyll.* ii. 413. — *Ste. M.* v. 433. — *Shuck. B. C.* pl. 23. f. 2. — Black; shining; thorax sparingly punctured, the base broadly margined, and with 2 larger punctures; disc of elytra, legs, and base of antennæ testaceous-red. (L. 1 l.) Boleti: London district: 5-6.

2872 nana *Pk. F.* iii. 408. — *Ste. M.* v. 152. — Pitchy-black, shining; margin of thorax, legs, antennæ, elytra, base and apex of abdomen, pale testaceous; outer angles of elytra fuscous; thorax sparingly punctured, the base with a larger puncture on each side; disc of elytra thickly rugose-punctate. (L. $\frac{3}{4}$-1 l.)

Var. St. faciatus *Marsh.* i. 514. — *Ste. M.* v. 151. — Head black; apex of elytra and a belt on the abdomen blackish. Boleti: London district; Norfolk; Suffolk; Devon: 6-8.

2873 affinis *Manner. Pr.* 74. — Gy. nana β. — *Ste. M.* v. 152. — Testaceous; head and belt on the abdomen pitchy; thorax margined, punctured; elytra sparingly punctured, the outer apex fuscous: legs pale. (L. 1 l.) On agarics, &c.: London district: 6-8.

2874 pallicornis *Ste. M.* v. 152. — Gy. congrua *Erich. K.* i. 368. ? — Testaceous; head black; thorax dusky, punctured; abdomen with a black ring; elytra finely punctulated; legs and antennæ pale. (L. $\frac{3}{4}$ l.) Boleti: London district: 6.

2875 polita *Grav. Mi.* 99. — *Ste. M.* v. 152. — Black, very smooth;

shining; mouth, antennæ, and legs pale; elytra pitchy, very obsoletely punctured; thorax margined, the disc with 2 very obscure rows of punctures; tip of abdomen pitchy. (L. ⅔ l.) Boleti: London district; Hull; S. Wales: 6.

2876 marginata *Ste. M.* v. 153. — Pitchy-red; rather obscure; elytra paler, with the outer hinder angles dusky; legs and antennæ pale; abdomen broad, black, strongly margined. (L. 1 l.) Boleti: London district: 6.

2877 latissima *Ste. M.* v. 153. — Very broad, dilated, testaceous: head, thorax, tips of elytra, and a belt on the abdomen, black; thorax with a faint dorsal line, and with 2 minute punctures at the base. (L. 1 l.) Boleti: Hertford: 6.

597 Encephalus *Kirby.*

2878 complicans *Kirby.* — *Ste. M.* v. 164. pl. xxvi. f. 4. — Black; shining; very glabrous; thorax with the base finely margined, very smooth; disc of elytra, legs, and antennæ dull chestnut or reddish; abdomen broad, very obtuse. (L. ⅔-1 l.) Moss: Ripley, 1-; Great Blakenham, Suffolk; Marton Lodge, Yorkshire: 10-1.

598 Aleochara *of Authors.*

2879 fuscipes *Pk. F.* iii. 397. — *Ste. M.* v. 160. — *Shuck. B. C.* pl. 23. f. 4. — Black, shining; antennæ short, thickened in the middle; the base, legs, and elytra red, the sides of the latter black; abdomen above sparingly and deeply punctate: — thighs sometimes dusky. (L. 2½-3½ l.) In dung, carcases, &c.: generally distributed: ⊙. ✶.

2880 tristis *Grav. Mo.* 170. — *Ste. M.* v. 433. — Black, rather shining; very thickly punctured; elytra with a pale testaceous spot at the apex; thorax flattish; abdomen parallel, very closely punctured above; tarsi dull red; antennæ short, thickened exteriorly. (L. 2-2½ l.) Dung: London district: 4-6.

2881 bimaculata *Kirby.* — *Ste. M.* v. 158. — Broad; black; rather shining; slightly pubescent; finely punctured; thorax somewhat convex; elytra with a triangular red spot at the apex near the suture; abdomen broad, apex obtuse; legs wholly black; antennæ slightly thickened exteriorly. (L. 2¼ l.) In dung: London district; Suffolk; S. Wales: 4-6.

2882 brevipennis *Grav. Mi.* 169. — *Ste. M.* v. 433. — Black; shining; elytra short, somewhat opaque, thickly punctured, reddish, immaculate; abdomen sparingly punctured above; legs and base of antennæ testaceous; thighs obscure. (L. 1½-2 l.) Dung: London district: 4-6.

2883 fumata *Grav. Mi.* 96. — *Ste. M.* v. 156. — Deep black; shining; slightly pubescent; elytra very short, thickly punctured, pitchy-brown or dusky; abdomen rather sparingly punctured, the apex pitchy; legs dull testaceous; antennæ pitchy, base red. (L. 1½-2 l.) Dung: London district; Suffolk: 4-6.

2884 villosula *Kirby.* — *Ste. M.* v. 156. — Black; somewhat villose; slightly shining; elytra dull or pitchy-red, with the outer apex slightly notched and mucronated; abdomen somewhat rounded; legs testaceous, thighs fuscescent; antennæ pitchy-red, base paler. (L. 1½ l.) Dung: London district; Suffolk: 4-6.

2885 rufipes *Kirby.* — *Ste. M.* v. 157. — Deep black, slightly shining; somewhat glabrous; smooth; elytra slightly pubescent, punctured, pitchy; abdomen linear; legs bright rusty-red; antennæ black. (L. 1½ l.) Dung: London district: 4-6.

2886 bipunctata *Grav. Mi.* 93. — *Ste. M.* v. 158. — Black; rather glossy; slightly pubescent; thorax convex, thickly punctured; elytra roughly

punctured, with a large obscure red spot at the apex; abdomen somewhat conic, thickly punctured above; legs testaceous; antennæ pubescent. (L. 1½-2 l.) Dung: London district; Norfolk; Suffolk; Bristol; S. Wales: 4-6.

2887 terminata *Kirby.* — *Ste. M.* v. 158. — Broad; black; rather shining, slightly pubescent; thorax rather convex; elytra short, the tip dull red; abdomen broad, its apex obtuse; legs pitchy, anterior palest; antennæ shortish, slightly villose. (L. 2¼ l.) Dung: London district; Bristol; Suffolk: 4-6.

2888 lanuginosa *Grav. Mi.* 94. — *Ste. M.* v. 157. — Black; shining; clothed with a short erect pubescence; thorax finely punctured; elytra rather coarsely punctured, the apex red; abdomen linear, sparingly punctured above; legs black, tarsi red; antennæ deep pitchy-black. (L. 2 l.) Dung: Battersea fields; Suffolk; Norfolk; S. Wales; &c.: 4-6.

2889 nitida *Grav. Mi.* 97. — *Ste. M.* v. 159. — Rather narrow; black; shining; slightly pubescent; thorax with scattered punctures on the sides, and a double row on the disc, the latter smooth; elytra deeply punctured, with a rounded obscure red spot at the apex; abdomen slightly punctured above, the tip obtuse; legs pitchy-black, knees paler. (L. 1½ l).

Var. Al. bilineata *Gyll.* ii. 436. — *Ste. M.* v. 154. — Elytra immaculate; legs rusty-piceous.

Var. ? Al. immaculata *Kirby.* — *Ste. M.* v. 154. — Elytra spotless; legs pitchy, tarsi reddish.

Var. ? Al. agilis *Kirby.* — *Ste. M.* v. 154. — Elytra with a brassy tinge, spotless; legs black; tarsi red. Dung, &c.: London district; Norfolk; Suffolk; Devon; S. Wales: 4-6.

2890 moesta *Grav. Mi.* 96. ? — Al. concolor *Kirby.* — *Ste. M.* v. 153. — Black, pubescent; rather broad and shining; elytra very short, black, spotless, with an ashy-brown pubescence, punctured; abdomen broad, shining, sparingly punctured; legs and base of antennæ pitchy. (L. 1¾-2¼ l.) Dung, &c.: London and Edinburgh districts; Suffolk; Swansea: 4-6.

2891 nigrina *Kirby.* — *Ste. M.* v. 154. — Rather narrow; black; shining; smooth; pubescent; elytra dusky-black, spotless, pubescent, and punctured; abdomen linear, apex obtuse; legs pitchy; antennæ pitchy-black. (L. 1¾ l.) Dung: London district; Suffolk: 4-6.

2892 sericea *Leach.* — *Ste. M.* v. 155. — Black; shining; pubescent; thickly and deeply punctured; especially the elytra, which are clothed with a dense ashy pubescence; legs black; knees and tarsi reddish; antennæ dull black. (L. 1½ l.) Dung: London district; Devon: 4-6.

2893 puncticollis *Kirby.* — *Ste. M.* v. 156. — Black; shining; slightly pubescent; thorax very thickly and rather coarsely punctured; elytra deeply punctured, spotless, pitchy; abdomen with the tip obtuse; legs red; antennæ pitchy, base red. (L. 1⅔ l.) Dung: London district; Suffolk: 4-6.

2894 pulla *Gyll.* iv. 494. — *Ste. M.* v. 433. — Black; rather shining; very thickly punctured, clothed with a dense pale pubescence; elytra brown; legs and palpi testaceous; antennæ black, base and apex red. (L. 1¼-1½ l.) Dung: London district: 4-6.

2895 fulvicornis *Kirby.* — *Ste. M.* v. 157. — Black; slightly shining and pubescent; elytra shortish, somewhat villose, punctured, pitchy-red, dusky at the base; abdomen with the tip red; legs and antennæ red; mouth and palpi the same. (L. 1⅓ l.) Dung: London district; Suffolk: 4-6.

2896 erythroceras *Kirby.* — *Ste. M.* v. 157. — Black; shining; slightly pubescent; elytra rather convex, punctured, dull pitchy-red, the suture broadly bright red; abdomen with the edges of the segments and its tip red; legs and antennæ also red. (L. 1 l.) Dung: London district: 4-6.

2897 velox *Kirby.* — *Ste. M.* v. 159. — Black; shining; punctulate; glabrous; head with the disc smooth; thorax with the disc longitudinally smooth, with a punctured stria on each side; elytra red, base and outer margins dusky; legs black; tarsi reddish. (L. 1⅔ l.) Dung: London district; Hunstanton, Norfolk; S. Wales: 4-6.

2898 Cursor *Kirby.* — *Ste. M.* v. 159. — Black, shining; slightly pubescent, faintly punctured; elytra more coarsely punctured, the inner angles of the apex broadly red; abdomen with its tip rather acute; legs entirely black. (L. 1½-1¾ l.) Dung: London district; Norfolk; Suffolk; Devon; S. Wales: 4-6.

2899 dorsalis *Ste. M.* v. 160. — Shining black; slightly punctured; pubescent; disc of thorax smooth; elytra coarsely punctured, pitchy, with the inner angle dull red; abdomen broadish, acute at tip; legs dull pitchy-red; antennæ pitchy. (L. 1¾ l.) Dung: London district: 4-6.

2900 Cursitor *Kirby.* — *Ste. M.* v. 155. — Black; shining; pubescent; thorax somewhat orbiculate, punctate; elytra coarsely punctate; legs reddish; thighs pitchy, anterior ones palest; antennæ with the 3 basal joints red. (L. 1¾ l.) Dung: London district; Devonshire; Suffolk: 4-6.

2901 Morion *Grav. Mi.* 97. — *Ste. M.* v. 155. — Broad; black; slightly shining, and pubescent; thorax with a very obscure basal impression; elytra with a dull pile, punctulate; abdomen slightly narrowed towards the apex; legs rusty- or pitchy-red. (L. ¾-1¼ l.) Fungi: London district; Norfolk; Suffolk; Devon; S. Wales: 4-6.

2902 exigua *Mann. Pr.* 68. — *Ste. M.* v. 433. — Black; opaque; slightly pubescent; very thickly punctured; elytra rather coarsely punctured; legs dull red; antennæ rather longer than the head and thorax. (L. ¾-1 l.) Dung: London district: 4-6.

2903 sanguinea *Kirby.* — *Ste. M.* v. 160. — Black; shining; smooth; elytra dull blood-red, punctured; abdomen stoutish, recurved, very convex beneath; legs bright red; antennæ black, or pitchy, the base red. (L. 1½ l.) Dung: London district; Suffolk: 4-6.

2904 rufipennis *Kirby.* — *Ste. M.* v. 161. — Pitchy-black; slightly shining; pubescent; faintly punctured; elytra red, strongly punctured; abdomen linear, terminal segment conic, apex truncate; legs red, hinder thighs brownish; antennæ pitchy, base and apex red. (L. 1 l.) Dung: London district; Suffolk: 4-6.

2905 celer *Kirby.* — *Ste. M.* v. 161. — Black, rather shining; slightly pubescent; elytra pitchy-black, with a recurved testaceous-yellow streak, united to an obscure red patch at the tip; abdomen somewhat conic, with the edges of the segments and the extreme tip reddish: legs livid-testaceous; antennæ pitchy-black. (L. ¾-1 l.) Dung: London district; Suffolk: 4-6.

599 Ceranota *Stephens.*

2906 Daltoni *Kirby.* — *Ste. M.* v. 161. — Rather dilated; dull red, or chestnut, slightly shining; legs paler; ♂ with a small tubercle on the back of the basal segments of the abdomen. (L. 2½-4 l.) Under moss: Charlton Wood; Devon; Yorkshire: 3-6.

600 Oxypoda *Mannerheim.*

2907 ruficornis *Grav. Mi.* 91. ? — Al. ruficornis *Ste. M.* v. 150. — Brown-

black, with a silken pile, delicately punctured; thorax rather convex, sides and base testaceous, the latter with an obscure fovea; elytra testaceous, dusky towards the scutellum, and on the sides; abdomen with the margins of the segments and the apex testaceous; legs testaceous; antennæ red, tip sometimes fuscous. (L. 2-3 l.) Boleti; rare: Norfolk; London district and Scotland: 4-6.

2908 lata *Ste. M.* v. 150. — Dusky-black; slightly pubescent; obscure; broad; head small, black; thorax convex, with a deepish basal fovea; elytra dull testaceous-red; suture dusky; abdomen strongly margined, black, with the edges of all the segments red; legs testaceous-red; antennæ black, longish. (L. 1½ l.) Boleti: London district; Suffolk; Devon: 6.

2909 Sheppardi *Kirby.* — *Ste. M.* v. 148. — Black, slightly pubescent, minutely punctured; elytra rather wider than the thorax, pitchy; with an oblique red dash from the shoulder to the suture; abdomen with the base and apex palish-pitchy; legs dull red; antennæ pitchy-black, base slender and red; palpi red. (L. 1¾ l.) Boleti: Ipswich: 6.

2910 nigrofusca *Kirby.* — *Ste. M.* v. 150. — Dusky-black, shining, with a short dull silken pile: head black; thorax with a faint dorsal channel; elytra somewhat 4-drate, fuscous, flattish towards the base of the suture; abdomen linear, black, base and apex pitchy; legs dull red; antennæ stout, fuscous. (L. 1⅓ l.) Boleti, &c.: London district; Barham: 1-6.

2911 lividipennis *Mann. Pr.* 70. — *Ste. M.* v. 432. — *Shuck. B. C.* pl. 23. f. 5. — Fuscous, with a silken pile; thorax with a faint basal fovea; elytra 4-drate, testaceous, dusky towards the scutellum; abdomen with its apex and the edges of the segments testaceous; legs and base of antennæ dull testaceous. (L. 2 l.) Boleti: London district.

2912 livida *Kirby.* — *Ste. M.* v. 147. — Black, rather obscure: head with a frontal fovea; thorax flattish, with a dorsal channel; elytra flat, livid; abdomen pitchy-black, the apex reddish; legs and palpi testaceous; antennæ pitchy, testaceous at the base; mouth pitchy. (L. 1⅓ l.) Boleti: Hertford; Bantham, Devon: 6.

2913 curvipes *Kirby.* — *Ste. M.* v. 147. — Black, with an obscure ashy pile, slightly shining; elytra livid, sides, suture, and base black; legs pale testaceous; thighs brownish, bent and depressed; antennæ pitchy-black. (L. 1¼ l.) Boleti: London district; Norfolk; Suffolk: 6.

2914 umbrata *Grav. Mi.* 90.? — *Ste. M.* v. 148. — Dusky; obscure; with a dull dusky-brown pubescence; thorax narrowed in front, with a very obscure dorsal line; elytra pitchy-brown; legs and base of antennæ testaceous; terminal joint of the latter elongate, acute. (L. 1½ l.) Boleti: London district; Norfolk; Suffolk; Devon: 4-6.

2915 emarginata *Kirby.* — *Ste. M.* v. 148. — Pitchy-black, obscure, slightly pubescent; thorax with a moderate basal fovea; elytra dark pitchy, the outer angle with a deep notch; legs dull pitchy-testaceous; tibiæ paler and brighter; antennæ piceous, terminal joint elongate, acute. (L. 1½ l.) Boleti: London district; Bristol; Norfolk; Scotland: 6.

2916 longiuscula *Grav. Mi.* 80. — Al. longiuscula? *Ste. M.* v. 118. — Elongate; black; somewhat glossy; with a delicate silken pile; thorax slightly convex, with a fovea at the base; elytra linear; legs and base of antennæ testaceous-red. (L. 1½ l.) Boleti: London district: 6.

2917 brevicornis *Kirby.* — *Ste. M.* v. 149. — Black, rather obscure, slightly sericeous; minutely punctured; elytra fuscous; abdomen somewhat conic, its apex fuscous; legs pale testaceous; antennæ somewhat clavate, basal joint reddish; palpi red. (L. 1¼ l.) Boleti: London district: 6.

2918 melanocephala *Kirby.* — *Ste. M.* v. 149. — Pitchy-brown, with a short obscure pile, finely punctured; head somewhat orbiculate, blackish:

thorax with a faint basal channel; elytra pitchy-red; abdomen acute, shining, the base pitchy-red, the apex yellowish; legs dull red; antennæ pitchy-red, base and apex ochreous. (L. 1½ l.) Boleti of the fir: Hertford; Suffolk: 4-6.

2919 sordida *Kirby.* — *Ste. M.* v. 147. — Black; rather shining and pubescent; thorax rounded behind and dilated; elytra ochreous, the base dusky within; abdomen rather acute, the apex reddish; legs ochreous or pitchy; antennæ stoutish, slender at the base. (L. 1¼ l.) Boleti: London district; Norfolk; Suffolk; Bristol; S. Wales: 4-6.

2920 alternans *Grav. Mi.* 85. — *Ste. M.* v. 432. — Al. concinna *Leach.* — *Ste. M.* v. 141. — Elongate; testaceous-red, shining; slightly pubescent, very thickly punctulate; head black; outer angle of the elytra, breast, and belt towards the apex of the abdomen pitchy-brown; antennæ black, with the base pale testaceous. (L. 1½ l.) Boleti: Hertford: 6.

2921 acuminata *Ste. M.* v. 151. — Blackish; opaque, slightly pubescent; head dusky-black, small; thorax with a slight basal fovea; elytra dull pitchy; abdomen very acute, the tip, and occasionally the edges of the segments, reddish; legs dull red; antennæ pitchy, the base dull red. (L. 1⅛-1¾ l.) Boleti: London district; Bristol: 6-8.

2922 brachyptera *Kirby.* — *Ste. M.* v. 128. — Dull red; head black; thorax finely punctate, with an obsolete dorsal furrow; elytra finely punctured, black, with an ashy down, very short; abdomen with the 3d, 4th, and 5th segments black; antennæ red, glabrous. (L. ⅔-1 l.) Boleti: London district; Suffolk: 4-6.

601 Placusa *Erichson.*

2923 † pumilio *Gyll.* ii. 411. — Pitchy-black; opaque; very thickly punctured; flat; thorax very short, sinuated behind; mouth and legs testaceous; elytra and antennæ pitchy. (L. 1½ l.) Moss: London district?

602 Atemeles *Dillwyn.*

2924 paradoxus *Grav. Mo.* 180. — Lo. acuminatus *Kirby.* — *Ste. M.* v. 108. — *Shuck. B. C.* pl. 22. f. 8. — Brown, obscure; glabrous; head black, smooth; thorax with the sides somewhat reflected, hinder angles acuminated, disc with an obscure furrow; elytra dull red, with a golden pile, the outer angle rather mucronate; abdomen broad, the penultimate segment notched, and with a spine on each side; legs and antennæ dull red. (L. 1¾ l.) In nests of Formica rufa: Hampstead Heath; Wimbledon Common; New Forest; Hastings; Martlesham Heath; Swansea: 5-7.

2925 † strumosus *Fab. E.* i. 597. — *Ste. M.* v. 108. — Brown, smooth; thorax with the sides reflexed, the hinder angles rounded; elytra red, the tip very obscurely notched, the outer angle gibbous; legs red; antennæ dull red, longish. (L. 2½ l.) On Hampstead Heath, and near Cheltenham: 6.

(603 Lomechusa *Gravenhorst.*)

(2926 † emarginata *Fab. E.* ii. 600. — *Oliv. E.* iii. 42. pl. 2. f. 12. — *Ste. M.* v. 109. — Brown, rather opaque and villose; head rough behind; crown with a ridge; thorax with the sides slightly reflexed and a little acuminated; disc with an obscure furrow; elytra reddish-brown, notched at the tip, and the outer angle mucronate; legs and antennæ reddish. (L. 1½ l.) Not truly indigenous.)

604 Dinarda *Leach.*

2927 † dentata *Grav. Mo.* 181. — *Ste. M.* v. 107. — *Cur.* ix. pl. 410. — Black, somewhat opaque; finely punctured; thorax with a faint dorsal

channel, the sides rather elevated, and reddish-brown; elytra slightly pubescent, dull chestnut-brown; legs, mouth, and palpi red-brown; antennæ fuscous, basal and terminal joints dull red. (L. 1¾ l.) Sandy places, in ants' nests: Swansea: 6.

605 Diglossa *Haliday.*

2928† mersa *Ent. M.* (*Hal.*) iv. 253. f. *a-h.* — Dull black, slightly pubescent; minutely punctured; legs and palpi dusky-red; antennæ fuscous. (L. 1 l.) Sandy coasts: Port Rain sands, Dublin: 10-5.

606 Silusa *Erichson.*

2929 rubiginosa *Erich. K.* i. 378. — Black; antennæ, legs, and elytra dull red; the space round the scutellum, and the outer apex of the elytra fuscous; thorax transverse, with a faint impression in the middle of the base: edges of the 4 basal and of the apical segments of the abdomen dull red. (L. 2¼ l.) London district: 4.

607 Gymnusa *Karsten.*

(2930† brevicollis *Pk. F.* iii. 398.—M. carnivora *Grav. Mo.* 171.—*Ste. M.* v. 433. — Black, shining; thickly punctured; elytra opaque, finely punctured; legs pitchy-red; tarsi and basal joint of antennæ testaceous. (L. 2½ l.) Improperly recorded as British.)

608 Myllæna *Erichson.*

2931 dubia *Grav. Mo.* 173. — *Ste. M.* v. 430. — *Shuck. B. C.* pl. 22. f. 5. — Black, opaque, with an ashy silken pubescence; mouth, base of the antennæ, legs, and tip of the abdomen, dull red; thorax convex, hinder angles prominent. (L. 1½ l.) Bristol?

2932 minuta *Grav. Mo.* 174. — Black; opaque; with an ashy silken pubescence; labrum testaceous; head and legs fuscous; tarsi testaceous; thorax moderately convex, a little narrowed in front, hinder angles obtuse. (L. ¾ l.) Bristol?

609 Deinopsis *Matthews.*

2933 erosus *Kirby.* — *Ste. M.* v. 149. — De. fuscatus *Ent. M.* (*Matt.*) v. 194. 193. f. 2. — Deep black; thickly clothed with a short silken pile; head broad; thorax with anterior angles rounded, hinder acute; elytra with the hinder margin obliquely truncate towards the suture; abdomen obtuse, all the segments, except the last, margined, the hinder angles produced; knees and tarsi testaceous. (L. 2 l.) Under stones: London district; in Battersea fields; Norfolk; Weston: 5-6.

610 Centroglossa *Matthews.*

2934 conuroides *Ent. M.* (*Matt.*) v. 195. 194. f. 1. — Broadish; black; with a silken pile; thorax narrowed in front, hinder angles acute, wider than abdomen; elytra with a deep notch at the outer hinder angles; abdomen 3 times as long as the elytra, much attenuated, the apical half of the two last segments fuscous; legs pitchy; basal joint of antennæ and mouth testaceous. (L. 1¾ l.) Dead leaves: Weston; New Forest: 1-6.

2935 attenuata *Ent. M.* (*Matt.*) v. 195. — Black; thorax not narrowed in front, the outer angles rather acute; elytra slightly notched on the hinder angles; abdomen suddenly attenuated towards the apex, the whole of the apical, and hinder half of the penult. segments testaceous-red; legs fuscous; antennæ slender, long. (L. 1⅜ l.) Vegetable refuse: Weston: 4-6.

2936 minuta *Ent. M.* (*Matt.*) v. 196. — Black; thorax short, convex; elytra longer than thorax; abdomen broad, stout, deeply margined; the last segment fuscous; legs pitchy; basal joint of antennæ and mouth testaceous. (L. $\frac{3}{4}$ l.) Vegetable refuse: Weston: 2-3.

2937 elongata *Ent. M.* (*Matt.*) v. 196. — Narrow, elongate; brown-black, with a griseous pile; thorax somewhat 4-drate, margins pale fuscous; elytra palest behind, the hinder angles very deeply notched; abdomen strongly margined and scarcely attenuated; legs long, pitchy-red; antennæ fuscous, basal and 3 apical joints, and the mouth, testaceous. (L. $1\frac{7}{8}$ l.) Vegetable refuse: Weston: 6-7.

2938 brevicornis *Ent. M.* (*Matt.*) v. 196. — Elongate; red; head darker than the thorax; elytra short, obliquely truncate towards the suture; abdomen very little attenuated, apex obtuse, dusky, hinder edge of each segment lighter; legs and palpi pale; antennæ short, dusky, basal and apical joint testaceous. (L. $1\frac{3}{4}$ l.) Vegetable refuse: Weston: 6-7.

2939 gracilis *Ent. M.* (*Matt.*) v. 197. — Elongate; black, with a griseous pile; thorax 4-drate; elytra very obliquely truncate towards the suture; abdomen strongly margined and slightly attenuated; the hinder portion of the 2 apical segments fuscous; legs and palpi brown-black, joints lighter; antennæ very short, articulations equal, black. (L. $1\frac{1}{2}$ l.) Moss: Weston: 2-3.

611 TACHYPORUS *Gravenhorst.*

§ A. *Body* generally slender, and elongated.

2940 testaceus *Fab. E.* ii. 607. — *Ste. M.* v. 177. — Linear; testaceous; very glossy and smooth; glabrous; eyes black; abdomen dusky, or dull testaceous-red; legs pale; antennæ yellowish, slightly thickened at the apex. (L. $1\frac{1}{3}$-$1\frac{3}{4}$ l.)

Var. Ta. flavicornis *Kirby.* — *Ste. M.* v. 177. — Larger, flatter, and more glossy; colours brighter; antennæ tawny.

Var. A. nitidulus *Oliv. E.* iii. 34. pl. 3. f. 28. — Ta. nitidulus *Ste. M.* v. 177. — Testaceous-red; legs black; head and abdomen pitchy-brown. Under moss, &c.: London and Edinburgh districts; Norfolk; Suffolk: 10-5.

2941 diffinis *Kirby.* — *Ste. M.* v. 177. — Short; testaceous, obscure, smooth; elytra flat; thorax slightly widened behind; abdomen brownish, the tip scarcely pilose; legs and base of antennæ pale, tip slightly thickened. (L. $\frac{3}{4}$ l.) Moss, &c.: London district; Suffolk; Devon: 10-4.

2942 flavescens *Kirby.* — *Ste. M.* v. 178. — Testaceous; very glossy, smooth, and glabrous; eyes black; abdomen red, or fuscescent, the tip black; legs and antennæ pale, tip of the latter dusky or testaceous: — head occasionally pitchy. (L. $1\frac{3}{4}$ l.) Moss, &c.: Norfolk; Suffolk; Yorkshire: 4-6.

2943 livens *Kirby.* — *Ste. M.* v. 178. — Black; shining; smooth; glabrous; thorax pitchy, lateral and hinder margins livid; elytra and legs livid; antennæ black, base pale, tip thickened. (L. $1\frac{1}{2}$ l.) Moss, &c.: London district; Suffolk; Norfolk: 4-6.

2944 angustatus *Kirby.* — *Ste. M.* v. 178. — Slender; black, extremely glossy and smooth; thorax fuscescent, base and sides livid; elytra convex, dusky-red; antennæ slender, fuscescent, base red. (L. $1\frac{1}{3}$ l.) Moss, &c.: London district; Norfolk; Raehills: 10-6.

2945 minimus *Leach.* — *Ste. M.* v. 178. — Pitchy-black; very glossy and smooth; head wide, black; thorax pitchy-red, the lateral margins and the elytra red; the latter spotless; abdomen black, apex pitchy; legs red; antennæ pitchy. (L. $\frac{3}{4}$ l.) Moss: London district; Devon: 10-5.

2946 basalis *Ste. M.* v. 179. — Slender; testaceous-red; shining; smooth;

head black; thorax spotless; elytra longish, base dusky; abdomen dusky testaceous-red, apex brighter; legs and antennæ pale testaceous, tip of latter pitchy. (L. 1⅓ l.) Moss: London district: 10-4.

2947 gracilis *Ste. M.* v. 179. — Slender; very glossy and smooth; pitchy; head smooth; thorax pitchy-red, sides and base red; elytra bright red, spotless; abdomen dusky-piceous, margins of the segments, and the apex, slightly paler; legs and antennæ pale testaceous, apex of the latter darkest and slightly thickened. (L. 1¼ l.) Moss: London district; Norfolk; Suffolk; Bristol: 10-4.

2948 libens *Leach.* — *Ste. M.* v. 179. — Short; pitchy, shining, very glossy and smooth: head widish; thorax with the margins broadly testaceous; elytra livid, spotless; abdomen very obtuse at the apex, dusky-piceous; legs and antennæ testaceous, the latter darkest, and a little thickened at the tip. (L. 1 l.) Moss, &c.: Battersea fields; Norfolk; Devon: 1-4.

2949 thoracicus *Ste. M.* v. 180. — Rather broad; pitchy-red; slightly shining; very smooth; head dusky or blackish; thorax dull pitchy-red, sides dilated, concolorous; elytra longish, pitchy, with the apex rather paler; abdomen dusky piceous, apex pale testaceous; legs and antennæ red. (L. 1-1½ l.)

Var. Ta. brunneus *Ste. M.* v. 179. — Rather smaller and more slender; of a darker hue; elytra livid brown. Moss, &c.: London district; Devon: 10-4.

2950 pyrrhoceras *Kirby.* — *Ste. M.* v. 180. — Dusky-black, very glossy, smooth, and glabrous; thorax pitchy, lateral margins, especially behind, paler; elytra and legs red; antennæ dull red, base pale. (L. 1½ l.) Moss: London district; and generally distributed: 10-6.

2951 ruficollis *Grav. Mi.* 128. — *Ste. M.* v. 180. — Black, very glossy; smooth; glabrous; thorax tawny-red; elytra pitchy, tip pale; legs yellowish; antennæ somewhat filiform, black, the base red. (L. 1¼ l.) Moss, &c.: London and Edinburgh districts: ⊙.

2952 nigripennis *Ste. M.* v. 180. — Broad; shining black; smooth; glabrous; thorax bright tawny-red; elytra pitchy-black, apex concolorous; abdomen pitchy-black, extreme edges of the segments reddish; legs ochreous; antennæ pale red, the tip dusky. (L. 1 l.) Moss, &c.: London district: 10-4.

2953 pusillus *Grav. Mo.* 9. — *Ste. M.* v. 180. — Shining black, smooth; mouth brown; thorax with the lateral margins, especially towards the base, transparent testaceous; elytra 4-drate, fuscous; the lateral margins rather obscure or dusky; abdomen black; legs pitchy-testaceous; antennæ fuscous, the 2 basal joints red. (L. 1½ l.) Moss: London district; Norfolk; Suffolk: 10-4.

2954 atriceps *Ste. M.* v. 181. — Pitchy-black; shining; very smooth; head black, wider; thorax spotless tawny; elytra dull red, the tip clouded with brown, or dusky; legs and base of antennæ testaceous, apex of the latter thickened and pitchy-black. (L. 1¼ l.) Moss: London district: 10-4.

2955 pyrrhopterus *Kirby.* — *Ste. M.* v. 181. — *Shuck. B. C.* pl. 21. f. 7. — Black; very smooth; shining; glabrous; head pitchy; thorax yellowish, its disc fuscescent, or pitchy; elytra dull red, base within and lateral margin dusky; legs and base of antennæ testaceous; tip of the latter slightly thickened and black. (L. 1⅔ l.) Moss: London district; Suffolk: 10-5.

§ B. *Body* short and rather broad.

2956 chrysomelinus *L.* ii. 685. — *Pz. F.* ix. f. 14. — *Ste. M.* v. 181. — Black; shining; glabrous; very smooth; thorax pale testaceous, very

glossy, the sides pellucid; elytra testaceous-red, the base and lateral margins in front black; breast and legs pale testaceous; antennæ dusky; base pale. (L. 1¾ l.)

Var. Ox. merdarius *Pz. F.* xxvii. f. 18. — *Ste. M.* v. 182. — Elytra testaceous, with the region of the scutellum dusky; antennæ somewhat clavate, livid. Moss, &c.: London district; and generally distributed: ⊙. ✶.

2957 marginellus *Marsham.* — *Ste. M.* v. 182. — Testaceous-red, highly polished and smooth; head black; thorax tawny, spotless; elytra with the lateral margins fuscous; legs and antennæ pale testaceous, the base of the latter palest. (L. 1⅓ l.) Moss, &c.: London district; Bristol; Cramond: 10-4.

2958 obtusus *L.* ii. 684. — *Ste. M.* v. 182. — Testaceous-red; very glossy and smooth; glabrous; eyes, base of the elytra, and breast behind, black; antennæ dull red, base paler. (L. 1½-1¾ l.)

Var. Ox. analis *Fab. E.* ii. 606. — *Ste. M.* v. 182. — Tibiæ and 2 apical segments of the abdomen, black.

Var.? St. melanurus *Marsh.* i. 525. — *Ste. M.* v. 183. — The 3 apical segments of the abdomen black. Moss, &c.: London district; generally distributed: ⊙. ✶.

2959 collaris *Ste. M.* v. 183. — Broad; testaceous; shining, and very smooth; head and thorax pitchy, margins of the latter pale; elytra spotless; abdomen brownish, tip obtuse; legs and base of antennæ pale; tip of the latter brownish. (L. 1½ l.) Moss, &c.: London district; Raehills: 10-4.

2960 subtestaceus *Ste. M.* v. 183. — Pale testaceous, shining, smooth; glabrous; head reddish; eyes black; thorax broad, with a basal depression; elytra slightly fuscescent on the suture; abdomen reddish, the terminal joint black; legs and antennæ pale. (L. 1½ l.) Moss, &c.: London district; Bristol; Norfolk; Raehills: 10-4.

2961 Hypnorum *Fab. E.* ii. 607. — *Ste. M.* v. 184. — Black, very smooth, glossy, glabrous; lateral margins of the thorax behind pale testaceous; elytra red, dusky towards the scutellum, and black at the base of the lateral margins; legs red; antennæ testaceous. (L. 1⅓-1¾ l.)

Var. Ta. marginatus *Grav. Mi.* 127. — *Ste. M.* v. 183. — Lateral margins of the thorax entirely testaceous. Moss, &c.: generally distributed: ⊙. ✶.

2962 nitidulus *Marsh.* i. 520. — *Ste. M.* v. 184. — Black; glossy; smooth; glabrous; thorax with the lateral margins, especially behind, broadly rusty-testaceous; elytra dull red, outer margins black at the base; legs and base of antennæ dull red. (L. 1-1⅔ l.) Moss, &c.: London district, and widely distributed: ⊙.

2963 nitidicollis *Ste. M.* v. 184. — Pitchy-black; shining; glabrous; smooth; thorax polished, pitchy-red, margins pale; elytra with the base indeterminately black, apex pitchy; abdomen with the extreme tip black; legs and antennæ dusky dull-red, base of the latter pale. (L. 2 l.) Moss: London district: 10-4.

2964 erythropterus *Ste. M.* v. 184. — Pitchy-black; shining; glabrous and smooth; head black; thorax with the lateral margins red; elytra ample, bright red; abdomen with the margins of its segments red; legs and base of antennæ red, apex of the latter black. (L. 1½ l.) Moss: London district; Bristol; Norfolk: 10-4.

2965 lateralis *Kirby.* — *Ste. M.* v. 185. — Black; polished, smooth; thorax pitchy, sides dull reddish; elytra pitchy, slightly pubescent; abdomen

slightly pubescent; legs and base of antennæ dull red, apex of the latter black. (L. 1⅔ l.) Moss: London district; Suffolk: 3-6.

2966 putridus *Ste. M.* v. 185. — Black, shining, very smooth; mouth pitchy; thorax wide, base and lateral margins behind broadly pale; elytra pitchy-red, with a blackish cloud near the scutellum; abdomen very acute, its segments edged with reddish; legs and base of antennæ testaceous. (L. 1½ l.) Moss: London district: 10-4.

2967 abdominalis *Fab. E.* ii. 607.? — *Ste. M.* v. 185. — Red; shining; glabrous; eyes black; thorax broad, spotless; elytra convex, wide, clear red; abdomen short, dull fuscous; legs and base of antennæ pale. (L. 1¼ l.) Moss, &c.: London district; Norfolk; Suffolk; Penllergare: 10-4.

2968 apicalis *Ste. M.* v. 185. — Testaceous, shining; smooth; glabrous; head reddish; eyes black; thorax spotless, pale, with the margin paler; elytra and abdomen pale testaceous; legs pale; antennæ reddish at the base, black at the tip. (L. 1¼ l.) Moss: London district: 10-4.

2969 dimidiatus *Fab. E.* ii. 607. — *Ste. M.* v. 186. — Black; polished; smooth; glabrous; thorax short, hinder angles broadly red; elytra elongate testaceous, base slightly dusky within; abdomen with the edges of its segments reddish; legs testaceous; antennæ black, base dull red. (L. 1⅔ l.) Moss: London district; Norfolk; Suffolk; Cramond: 10-4.

2970 macropterus *Ste. M.* v. 186. — Black; shining; smooth; glabrous; thorax with the hinder margin testaceous; elytra elongate, pitchy, the margins entirely red; abdomen black, strongly margined, slightly pilose; legs and base of antennæ testaceous, tip of the latter dusky. (L. 1½ l.) Moss: London district: 10-4.

2971 † formosus *Ent. M.* (*Matthews*) v. 197. — Bright yellow; eyes black; base of elytra nearly black; abdomen black, edges of the segments broadly red, penult. segment wholly red, terminal entirely black; legs and antennæ yellow. (L. 2 l.) Moss: Weston: 2-3.

612 Habrocerus *Erichson.*

2972 nodicornis *Kirby.* — *Ste. M.* v. 186. — Pitchy-black; shining; thorax reddish; abdomen with the apex slightly reddish and pilose; legs, mouth, and palpi red; antennæ reddish, nearly as long as the thorax. (L. 1¾ l.) Decayed wood: Holme-juxta-mare, Norfolk: 8.

613 Trichophya *Mannerheim.*

2973 pilicornis *Gyll.* ii. 417. — Black; pubescent; very thickly punctured; elytra fuscous, flattish; legs testaceous-brown; antennæ with the 2 thickened basal joints fuscous, the remainder hair-like and palish. (L. 1½ l.) Under bark: London district; very rare: Yarm, Yorkshire: 6.

614 Hypocyptus *Schuppel.*

2974 Agaricinus *L.* ii. 570. — *Ste. M.* v. 187. — Black, shining; elytra pitchy or chestnut; head transverse; thorax rather glossy, obscurely punctured; legs and antennæ pale testaceous, latter very slender. (L. ½ l.) Under moss, &c.: London district; Norfolk; Suffolk; S. Wales: ⊙.

2975 longicornis *Pk. F.* iii. 340. — Cy. rufipes *Ste. M.* v. 187. — *Shuck. B. C.* pl. 21. f. 5. — Black; slightly pubescent, and shining; thorax with the lateral margins slightly pitchy, the hinder angles nearly straight; legs and antennæ dull red, the latter slightly thickened towards the tip. (L. ⅔-¾ l.) Moss: common in London and Edinburgh districts; S. Wales: ⊙. ✶.

2976 læviusculus *Man. Pr.* 58. — Cy. nigripes *Ste. M.* v. 188. — Black, shining, slightly pubescent; head broad; thorax with the hinder angles very straight, the sides slightly pitchy; legs dusky-black; antennæ pitchy-black, the 3 terminal joints distinctly largest. (L. ½ l.) Moss: London district; New Forest; Raehills: ⊙.

2977 parvulus *Ste. M.* v. 188. — Black; shining; slightly pubescent; head and thorax glabrous; hinder angles of latter slightly rounded; elytra dull chestnut, or pitchy-black; legs and antennæ pitchy-red. (L. ½ l.) Moss: London district; Bristol; Raehills: 4-6.

2978 anisotomoides *Ste. M.* v. 188. — Very convex, minute; deep shining black; smooth; head and thorax glabrous; elytra slightly pubescent; pitchy-brown; legs and antennæ red. (L. ⅓-½ l.) Moss: London district; Norfolk: 4-6.

2979 biguttatus *Ent. M.* (*Matthews*) v. 198. — Black, shining, with a golden pile: thorax with the margins tawny; hinder angles rounded; elytra with a large red spot on the disc of each; edge of abdominal segments and legs red; palpi and antennæ tawny. (L. ½-⅞ l.) Moss: London district; Weston: 3-4.

615 Conurus *Stephens.*

2980 pubescens *Grav. Mi.* 130. — *Ste. M.* v. 189. — *Shuck. B. C.* pl. 21. f. 6. — Convex; brown-black, somewhat pubescent; elytra chestnut-brown; margins of the abdominal segments reddish; legs and antennæ dull red. (L. 2-2½ l.)

Var. Co. Marshami *Ste. M.* v. 189. — Darker; head and thorax somewhat glabrous; abdomen entirely black; legs dusky: — sometimes wholly testaceous. Moss, &c.: London district; Norfolk; Bristol; New Forest: 4-6.

2981 littoreus *L.* ii. 685. — Co. cellaris *Ste. M.* v. 189. — Black; slightly tomentose; hinder angles of the thorax dull red; elytra with a large lunate patch at the base, and the legs testaceous-red; antennæ red, brown in the middle; palpi red. (L. 1¾-2 l.)

Var. ? Ta. angularis *Ste. M.* v. 193. — Rather pitchy; elytra chestnut, with a paler patch at the base; thorax with the hinder angles broadly, and the extreme base pale testaceous. Moss, &c.: London district; Norfolk; Suffolk; New Forest: 5-6.

2982 bipustulatus *Fab. E.* ii. 606. — *Pz. F.* xvi. f. 21. — *Ste. M.* v. 190. — Dusky-black; with a silken pubescence; hinder margin of thorax slightly testaceous; elytra with a large transverse testaceous spot in the middle of the base; abdomen with the 2 apical segments, and the margins of the rest, pale testaceous; antennæ and legs dull red. (L. 1½-2 l.)

Var. Ta. Sowerbii *Kirby.* — *Ste. M.* v. 193. — Hinder angles of thorax broadly testaceous; abdomen black; legs pale testaceous; antennæ brownish, the 2 basal and 2 apical joints testaceous.

2983 2-notatus *Grav. Mi.* 132. — Ta. fimetarius *Ste. M.* v. 192. — Pitchy-black; shining; thorax very glossy, lateral margins somewhat testaceous; elytra with an oblong spot on the shoulders, and the margin of the apex dull red; legs and antennæ pitchy-red. (L. 1½-1⅔ l.)

Var. Ta. castaneus *Ste. M.* v. 192. — Colour paler; elytra dull red or chestnut, disc sometimes clouded. Moss, &c.: London district; New Forest; Devon: 4-6.

2984 obscuripennis *Kirby.* — *Ste. M.* v. 191. — Dull red; very glossy; smooth; glabrous; convex: head and thorax testaceous; elytra sometimes fuscescent, slightly pubescent; abdomen rather dusky; legs and base of

antennæ yellowish-testaceous; eyes black. (L. 1 l.) Moss: London and Edinburgh districts; Norfolk and Suffolk: 10.

2985 flavus *Kirby.* — *Ste. M.* v. 191. — Lanceolate-linear, slender; testaceous-yellow; pubescent, smooth; eyes black; legs and base of antennæ very pale ochreous-yellow. (L. 1½ l.) Grassy places: London district, &c.: 5-7.

2986 flavipes *Ste. M.* v. 191. — Slender; testaceous-red; glossy; smooth; nearly glabrous; eyes black; elytra rather dull; abdomen dusky or pitchy, edges of the segments reddish; legs and base of antennæ pale yellowish; apex of the latter pitchy-red. (L. 1 l.) Moss: London district: 10-1.

2987 melanocephalus *Ste. M.* v. 191. — Convex; pitchy-red, very glossy; nearly glabrous; head black; elytra dark pitchy, slightly pubescent; abdomen dusky-piceous, with the margins of the segments reddish; legs and antennæ dull red, tip of the latter dusky. (L. 1⅓ l.) Moss: London district: 12.

2988 immaculatus *Kirby.* — *Ste. M.* v. 190. — Brown-black, smooth; rather shining, slightly pubescent; elytra somewhat narrowed at the tip, spotless; legs dull red; antennæ glabrous, dusky-red in the middle, the terminal joint very short, obliquely truncate. (L. 1½ l.) Grassy places, &c.: London district; Suffolk: 6-7.

2989 pusillus *Kirby.* — *Ste. M.* v. 190. — Brown-black, pubescent, slightly shining; thorax ample, base broadly testaceous-red; elytra with the tip, especially towards the suture, testaceous-red; abdomen black; legs dull red; antennæ pale, middle joints dusky-black. (L. 1 l.) Moss, &c.: London district and Norfolk: 4-6.

2990 obscuratus *Kirby.* — *Ste. M.* v. 190. — Brown-black, pubescent and rather glossy; head and thorax dull red; eyes black; elytra with the apex obscure red; abdomen with the margins of all the segments, and the tip, obscure red: legs dull red; antennæ pale red at the base, the tip black. (L. 1⅓ l.) Moss, &c.: Norfolk; Suffolk: 8-1.

2991 pyrrhopterus *Ste. M.* v. 434. — Testaceous-red, shining; thorax paler: eyes dusky-black; elytra brownish; legs and antennæ pale; tip of latter pitchy. (L. 1½ l.) Moss: London district: 6.

616 Bolitobius *Leach.*

2992 atricapillus *Fab. E.* ii. 599. — *Ste. M.* v. 172. — St. lunulatus *Don.* xv. pl. 532. f. 1. — Red; glossy; glabrous; head, breast, scutel, and tip of the abdomen black; elytra blue-black, with a lunate patch on the shoulder, and the hinder margin whitish; legs, 4 basal, and the terminal joint of the antennæ pale testaceous, middle of antennæ black. (L. 2½-3 l.) In gills of fungi: Coombe Wood; Darenth; Hertford; Suffolk; Norfolk; Edinburgh, &c.: 7-9.

2993 lunulatus *L.* ii. 684. ? — *Ste. M.* v. 171. — Red; shining; glabrous: head and breast black; elytra blue-black, with the entire base and apical margin testaceous-red; antennæ black in the middle. (L. 2½-3 l.) In fungi: London district? 6-7?

2994 3-maculatus *Pk. F.* iii. 422. — *Ste. M.* v. 172. — Red; shining; glabrous; head and breast black; disc of thorax and abdomen fuscous; elytra testaceous, with 2 crenulated striæ, the region of the scutel, and the outer apex dusky, or black; legs and base of antennæ pale testaceous, apex of latter dusky, or black. (L. 2-3 l.) Fungi, &c.: London district, and widely distributed: 5-8.

2995 melanocephalus *Marsh.* i. 523. — *Ste. M.* v. 173. — Testaceous-red, shining, smooth, glabrous; head deep black; elytra spotless, with 2 faint

crenate striæ; breast reddish; legs pale testaceous; antennæ dusky, reddish at base. (L. 3 l.) Fungi, &c.: London district and S. Wales: 5-7.

2996 apicalis *Ste. M.* v. 173. — Reddish; smooth; glabrous; shining: head black; thorax with disc fuscous; elytra with 2 crenulated striæ, the outer apex with a black patch; abdomen red-brown; breast black; tip of antennæ brownish. (L. 2-2½ l.) In boleti, &c.: London district: 6.

2997 angularis *Ste. M.* v. 173. — Elongate; testaceous-red, shining; smooth: head pitchy; elytra pale testaceous-red; with 2 obscure crenulated striæ, extreme outer apex black; abdomen with the base of each segment brownish; legs and base of antennæ pale, tip of latter dusky. (L. 2 l.) Fungi, &c.: London district; Devon: 6.

2998 ochraceus *Ste. M.* v. 173. — Ochreous-red, smooth; very glossy: head pitchy; elytra with 2 faint crenulated striæ, the outer apex with a pitchy-black patch; abdomen very acute, the tip pitchy-black; legs and antennæ pale testaceous. (L. 1½ l.) Fungi, &c.: London district: 6.

2999 bimaculatus *Ste. M.* v. 174. — Slender; red-brown; shining; smooth; head pitchy; elytra pale testaceous, with 2 faintly crenulated obscure striæ; the outer apex with a more or less obsolete fuscous spot; abdomen and legs pale; antennæ reddish, tip rather pitchy. (L. 1½ l.) Fungi, &c.: London district; Norfolk; Bristol: 6.

3000 pygmæus *Fab. E.* ii. — *Pz. F.* xxvii. f. 19. — *Ste. M.* v. 174. — Pitchy-black, shining; margins of the thorax and the elytra testaceous, outer angle of the latter fuscous, disc with 2 faint punctured striæ; abdominal segments broadly edged with testaceous-red; legs long, pale; antennæ testaceous, the tip brownish. (L. 1⅓ l.) Boleti, &c.: London district; Suffolk; Norfolk; Bristol; Devon; S. Wales: 6-9.

3001 marginalis *Ste. M.* v. 174. — Pitchy-black; smooth; shining; head black; margins of the thorax testaceous; elytra pale testaceous, with a spot on the outer angle and the lateral margins fuscous; abdomen pitchy, tip paler, margins of the segments reddish; legs and antennæ pale, tip of latter dusky. (L. 1¼ l.) Fungi, &c.: London district; Plymouth: 4-6.

3002 thoracicus *Fab. E.* ii. 606. ? — *Ste. M.* v. 174. — Pitchy-black; shining; smooth; head black: thorax red, spotless; elytra pale testaceous, the tip brown; abdomen pitchy, edges of the segments pale testaceous; legs whitish; antennæ reddish, tips black. (L. 1⅓ l.) Fungi: London district: 6.

3003 nitidulus *Leach.* — *Ste. M.* v. 175. — Narrow; testaceous-red; shining; smooth; head pitchy, base reddish; thorax and elytra spotless, the latter palish, and with 2 faintly punctate striæ; abdomen pitchy-brown, the edges of the segments reddish; tip of antennæ pitchy. (L. 1⅓ l.) Boleti: Battersea fields; Ripley: 6-8.

3004 brunnipennis *Ste. M.* v. 175. — Testaceous-red; shining, smooth; head fuscous; thorax with a faint central fuscous cloud; elytra red-brown, spotless, with 2 very faintly punctured striæ; abdomen brown, with the edges of the segments testaceous; legs and antennæ pale testaceous, tip of the latter brownish. (L. 1½ l.) Fungi, &c: London district: 6.

3005 discoideus *Ste. M.* v. 175. — Pitchy-black; shining; smooth; head black; margins of thorax testaceous; elytra testaceous-red, spotless, with 2 faint punctured striæ; margins of abdominal segments broadly testaceous; legs and antennæ pale, tip of the latter pitchy. (L. 1½ l.) Boleti, &c.: London district: 6-7.

3006 biguttatus *Kirby.* — *Ste. M.* v. 175. — Black; shining; very smooth; glabrous; thorax with the lateral margins piceous; elytra with the

shoulders pale, suture slightly raised; abdomen with the apex piceous, or reddish; legs and antennæ pale, 6 terminal joints of the latter black. (L. 1⅓ l.) Boleti, &c.: Hertford; Suffolk; Norfolk; Devon: 5-6.

3007 ruficollis *Ste. M.* v. 176. — Rather narrow; black; shining; glabrous: thorax red, spotless; elytra fuscous, apical half dull red; margins of abdominal segments broadly testaceous; legs and base of antennæ pale testaceous, tip of the latter dusky. (L. 1½ l.) Boleti: London district; Norfolk: 6-7.

3008 piciceps *Ste. M.* v. 176. — Elongate; black; shining; head somewhat 3-angular, piceous; thorax testaceous-red, spotless; elytra dull reddish, base dusky; extreme tip of abdomen reddish; legs and antennæ pale red, tip of latter dusky. (L. 1½ l.) Fungi, &c.: London district: 4-6.

3009† Simpsoni *Spence.* — *Ste. M.* v. 176. — Black; shining; smooth: head minute; mouth pale; eyes large; thorax broad behind, slightly notched in front; elytra scarcely longer or wider than the thorax, finely punctured, faintly notched at the apex towards the outer angle; legs and antennæ dull red, the latter nearly filiform; palpi elongate, red, the tip brownish. (L. 1¼ l.) Boleti: Yorkshire: 6.

617 Megacronus *Stephens.*

3010 analis *Oliv. E.* iii. 28. pl. 3. f. 24. — *Ste. M.* v. 165. — *Shuck. B. C.* pl. 22. f. 1. — Black; shining; smooth; glabrous: tip of abdomen, legs, anterior coxæ, mouth, and elytra red, the latter punctate-striate; scutel pitchy-red; antennæ pitchy, 4 basal joints and the terminal one, which is thrice as long as the others, testaceous. (L. 2½-3 l.) Moss, &c.: London and Edinburgh districts; Bristol; Devon, &c.: 3-5.

3011 cingulatus *Mann. Pr.* 64. — Me. rufipennis *Ste. M.* v. 166. — Broad; black; shining; glabrous; elytra blood-red, with 3 obscure punctured striæ; tip of abdomen and legs red; antennæ pitchy, the 3 basal, and 2 terminal joints testaceous, the terminal joint as long again as the others. (L. 3½ l.) Moss: London district: 3-5.

3012 merdarius *Oliv. E.* iii. 29. pl. 5. f. 45. — *Ste. M.* v. 166. — Black; shining; glabrous; thorax very glossy, and with the scutel red; elytra dull red, obscurely punctate-striate; apex of abdomen and legs testaceous; antennæ pitchy-brown, the 4 basal joints and the terminal one pale testaceous. (L. 2½ l.) Moss, &c.: London district; Norfolk: 1-6.

3013 cernuus *Grav. Mo.* 31. — *Ste. M.* v. 167. — Pitchy-black; smooth; shining: thorax black or chestnut, with 4 dorsal punctures; mouth, elytra, margins of the abdominal segments, and the apex, chestnut; legs reddish; antennæ pitchy, the 3 basal joints red, terminal one rather longer than the others. (L. 3 l.) Moss, &c.: London district; New Forest: 1-4.

3014 castaneus *Ste. M.* v. 166. — Shining chestnut-red; head pitchy; elytra rather dull, with 3 faint punctured striæ; abdomen dusky, margins of the segments and the tip bright chestnut; legs testaceous; antennæ pitchy, the 5 basal joints and the terminal one pale, apical joint smallish. (L. 2½ l.) Moss, &c.: London district and Norfolk: 1-4.

3015 nitidus *Ste. M.* v. 167. — Broad; pitchy-chestnut; shining; head and base of abdomen pitchy, tip of the latter chestnut-red; thorax chestnut, impunctate; elytra irregularly punctured: legs pale testaceous, 2 hinder tarsi long, slender; antennæ long, filiform, pitchy, base and tip testaceous. (L. 3¼ l.) Moss, &c.: London district, at Gravesend: 4-6.

3016 formosus *Grav. Mi.* 32. — *Ste. M.* v. 167. pl. xxvi. f. 5. — Slender, bright red, shining; head black; thorax brownish, with 4 impressions; elytra red-brown, irregularly punctured; abdomen black, tip red; legs

red; antennæ filiform, brown, with the 2 basal joints paler. (L. 3½ l.) Moss, &c.: London district and near Swansea: 4-6.

3017† elegans *Ent. M.* (*Matthews*) v. 197. — Slender, pitchy-red; very glossy: head dusky; mouth and 2 streaks testaceous; thorax testaceous-red, spotless; elytra dusky, shoulders and tip broadly red, each with a single punctured stria; margins of abdominal segments broadly red; legs and basal joint of antennæ testaceous, remaining joints dusky. (L. 1¾ l.) Moss: Weston: 4-5. ?

618 MYCETOPORUS *Mannerheim.*

3018 splendens *Marsh.* i. 524. — *Ste. M.* v. 168. — *Shuck. B. C.* pl. 22. f. 2. — Black; shining; smooth; glabrous; head somewhat orbiculate; thorax round in front, wide behind; elytra bright blood-red, with a punctured striæ on each near the suture; tip of elytra and legs red; antennæ clavate; base testaceous. (L. 2½ l.) Under stones, &c.: London district; Suffolk: 4-6.

3019 tenuis *Fab. E.* ii. 599. — *Ste. M.* v. 169. — Black; glossy; smooth; glabrous; mouth pitchy; thorax testaceous; elytra pitchy, tip red, each with a punctured stria; margins of abdominal segments and legs red; antennæ pitchy, base paler. (L. 1¾ l.) Under bark: London district; Suffolk; Norfolk; Bristol; S. Wales: 1-4.

3020 lepidus *Grav. Mo.* 26. — *Ste. M.* v. 169. — Black; shining; glabrous; mouth reddish; thorax pitchy, with 2 basal impressions; elytra pitchy, hinder margin reddish, each with 3 punctured striæ; abdomen with the tip and edges of the segments dull red; legs testaceous; antennæ dusky, base reddish. (L. 1¾ l.) Under bark, &c.: Hertford; Bristol; Norfolk; Suffolk; Edinburgh: 1-4.

3021 punctatostriatus *Pk. F.* iii. 417. — *Ste. M.* v. 169. — Black, very smooth and glossy; mouth red; thorax pitchy-red or black, margins reddish; elytra blood-red, each with 3 punctured striæ, the outer margin dusky; tip of abdomen red; legs and antennæ testaceous. (L. 1¾ l.) Under stones: London and Edinburgh districts; Norfolk: 1-6.

3022 clavicornis *Kirby.* — *Ste. M.* v. 169. — Black, shining; mouth red, glabrous; head pitchy; thorax and elytra testaceous, the latter each with a single punctured stria; abdomen with the extreme tip reddish; legs and base of antennæ testaceous, tip of the latter black and thickened; middle joints transverse. (L. 1⅔-2 l.) Moss, &c.: London district; Suffolk: 6.

3023 splendidus *Grav. Mo.* 24. — *Ste. M.* v. 170. — Black or pitchy, very smooth and brilliant, glabrous; mouth and elytra red, the latter with the outer portion black, disc with an obscure punctate stria; abdomen pitchy, margins of the segments, apex, and legs red; antennæ pitchy, base and apex pale. (L. 2¼ l.) Under stones: London district: 6.

3024 nigricollis *Ste. M.* v. 434. — Broad, deep glossy black; elytra pale chestnut-red, each with 2 rows of punctures; abdomen with apex, and the margin of its segments, chestnut; mouth, legs, and base of antennæ red; hinder thighs brown. (L. 3½-4 l.) Under stones: London district: 1-4.

3025 melanurus *Kirby.* — *Ste. M.* v. 170. — Deep black; very glossy and smooth; glabrous; elytra blood-red, each with a punctured stria; extreme tip of abdomen sometimes dull red; legs testaceous; base of antennæ occasionally pitchy. (L. 1½ l.) Under stones, &c.: London district; Suffolk; Devon: 1-4.

3026 brunneus *Marsh.* i. 524. — *Ste. M.* v. 170. — Red-brown; smooth, shining; head black; thorax and elytra red, the latter each with a central punctate-stria, extreme tip brownish; legs and antennæ red. (L. 1½ l.) London district: 6.

3027 rufescens *Kirby.* — *Ste. M.* v. 170. — Red; glossy, smooth; glabrous: head pitchy; thorax and elytra testaceous, the latter each with 4 striæ of minute punctures; abdomen brownish; legs testaceous, hinder tarsi as long as the tibiæ; antennæ pitchy, base testaceous. (L. 1½-1¾ l.) Moss, &c.: London district; Suffolk; Norfolk: 1-4.

3028 punctus *Grav. Mi.* 27. — *Ste. M.* v. 171. — Oblong; red-brown; shining; glabrous; head black, mouth and palpi red; thorax red; elytra testaceous-red, lateral margins dusky, each with 3 punctured striæ; abdomen pitchy, tip reddish; legs red; antennæ pitchy, base and terminal joint testaceous. (L. 1¼ l.) Under stones: London district; Suffolk: 1-4.

3029 † brevicornis *Ent. M.* (*Matthews*) v. 197. — Red, shining, smooth; thorax glossy, narrowed in front, light orange, with a few scattered punctures; elytra with a dusky spot at the scutellum, and a single deeply punctured stria near the outer margin; abdomen coarsely punctured, black, hinder margin of the segments broadly red; legs testaceous; antennæ short, robust, dusky, the base testaceous. (L. 2 l.) Weston: 7.

619 Tachinus *Gravenhorst.*

3030 Silphoides *L.* ii. 684. — *Ste. M.* v. 194. — Ox. suturalis *Pz. F.* xviii. f. 20.? var. — Shining black, smooth; sides of thorax, legs, and base of antennæ livid; elytra livid testaceous, the lateral margins and an irregular longitudinal patch on the disc black; tip of abdomen testaceous. (L. 1½ l.) Dung, &c.: Camberwell, and in other parts of London district; Norfolk; Suffolk; Cramond: 5-7.

3031 collaris *Grav. M.* 143. — *Ste. M.* v. 193. — Rather convex; pitchy-brown; shining, glabrous, thickly punctured; head black; thorax, legs, and antennæ rusty-red, the disc of the former sometimes clouded; ♂ with 3, ♀ with 4, anal styles. (L. 1½-1⅔ l.)

Var. Ta. corticinus *Grav. Mi.* 141. — *Ste. M.* v. 193. — Paler; immature. Grassy places: London district; Devon; Cramond: 6-8.

3032 marginellus *Fab. E.* ii. 607. — *Ste. M.* v. 194. — St. marginatus *Don.* xv. pl. 582. f. 2. — Slightly convex; pitchy-black, shining; glabrous; finely punctured; thorax, with the lateral and basal margins, and a longitudinal streak within the outer base of the elytra, and the tips of the latter, red; legs and base of the antennæ rusty-red. (L. 1¾-2 l.)

Var. ? Ta. laticollis *Grav. Mi.* 141. — *Ste. M.* v. 194. — Thorax broad, its lateral margins pale reddish, or concolorous; elytra dusky, with the tip red. Under stones, &c.: London district, and widely distributed: 4-8.

3033 fimetarius *Grav. Mi.* 141.? — St. fuscipes *Pz. F.* xxvii. f. 12.? — Ta. nigripes *Kirby.* — *Ste. M.* v. 195. — Black; shining; glabrous; elytra and abdomen finely punctured; the margins of the thorax and the elytra red-brown, disc of the last generally clouded with dusky; legs dull red; antennæ black. (L. 2¼ l.) Moss, &c.: London district: 5-6.

3034 brunnipennis *Ste. M.* v. 195. — Black; shining; glabrous; thorax ample, the lateral margins rounded and reddish; elytra long, red-brown, disc clouded behind; tip and margins of abdominal segments and legs reddish; antennæ rusty-piceous, the base obscure. (L. 2½ l.) Moss: London district: 6.

3035 apicalis *Ste. M.* v. 195. — Black; shining; glabrous; punctured; thorax with the lateral margins dilated, base slightly reddish; extreme tip of elytra, and of abdomen, and edges of the segments of the latter, and also the legs, red; antennæ slender, pitchy-red. (L. 2½ l.)

Var. ? Ta. fulvipes *Ste. M.* v. 195. — Darker and more deeply punctured; lateral and hinder margins of thorax pitchy; elytra entirely pitchy-black;

abdomen black; legs tawny; antennæ pitchy. Moss, &c.: London district; New Forest: 3-5.

3036 pullus *Grav. Mi.* 140. — *Ste. M.* v. 196. — St. rufipes *De G. S.* iv. 24. pl. 1. f. 14. — Convex; finely and thickly punctured; shining; pitchy-black; legs, extreme tip of the elytra and basal joint of the antennæ, red: — shoulders of the elytra sometimes reddish. (L. 2½-3 l.) Old wood, &c.: London district; Swansea: 10-4.

3037 rufipes *L.* ii. 685. — *Pz. F.* xxvii. f. 20. — *Ste. M.* v. 196. — Slightly convex, finely and thickly punctured; pitchy-black, shining; apex of elytra and legs red; antennæ pitchy-brown: — elytra sometimes reddish, or with a patch of that hue on the shoulders. (L. 2½-3 l.) Decayed wood, &c.: London district; and widely distributed: 3-6.

3038 intermedius *Kirby.* — *Ste. M.* v. 196. — Black, convex, shining, minutely punctured; thorax with hinder margin slightly reddish; elytra and legs dusky chestnut; abdomen with the edges of the segments reddish; antennæ black. (L. 2½-3 l.)

Var. Ta. limbosus *Kirby.* — *Ste. M.* v. 196. — Sides and base of the thorax reddish; elytra yellowish, with the disc dusky-red; antennæ dull red. Moss, &c.: London district; Norfolk; Suffolk; Swansea: 10-4.

3039 latus *Marsh.* i. 524. — *Ste. M.* v. 197. — *Shuck. B. C.* pl. 21. f. 4. — Black; shining; glabrous; nearly smooth; thorax broad, sides dilated, broadly red towards the base; elytra livid testaceous, the suture broadly, and the sides and apex black; legs and base of antennæ red, tip brownish. (L. 2⅔-3 l.) Moss, &c.: London district, and widely dispersed: 10-4.

3040 cinctus *Marsh.* i. 519. — *Ste. M.* v. 197. — Black; shining; glabrous; minutely punctured; thorax broadish, entire edge chestnut; elytra dusky-chestnut at the base, apex pitchy; scutellum chestnut; abdomen with the tip and the edges of the segments reddish; legs and base of antennæ chestnut: — elytra and legs variable in colour. (L. 3-3¼ l.) Under stones, &c.: London district, and widely dispersed: 10-4.

3041 scapularis *Ste. M.* v. 197. — Black; shining; smooth; glabrous; thorax wide, sides rounded and red; elytra ample, pitchy-black, the base outwardly light testaceous-red, the extreme tip reddish; legs testaceous; antennæ brownish, the base red. (L. 3 l.) Moist banks: London district; Devon: 10-4.

3042 bipustulatus *Grav. Mi.* 135. — *Don.* xv. pl. 532. f. 3. — *Ste. M.* v. 198. — Pitchy-black; shining; glabrous; thorax pitchy, the margins paler; elytra with an oblong yellowish spot at the base, disc finely punctured; legs dull red; antennæ black: — elytra sometimes nearly all yellowish. (L. 2½ l.) Banks: London district; Raehills: 10-4.

3043 subterraneus *L.* ii. 684. — *Ste. M.* v. 198. — Black; shining; glabrous; elytra punctulated, each with an oblong bright testaceous spot at the base exteriorly; legs pitchy-black; antennæ black. (L. 2½-3 l.) Damp banks: Fulham; Battersea fields; Dulwich; S. Wales; Raehills: 10-4.

3044 pallens *Gyll.* ii. 259. ? — *Ste. M.* v. 198. — Broad; testaceous-red; shining; glabrous; head and disc of thorax pitchy-black; elytra finely punctulated, with a brown cloud on the disc behind; legs and base of antennæ pale testaceous, tip of the latter fuscous. (L. 2½ l.) Under stones: London district; Devon: 10-4.

3045 aterrimus *Ste. M.* v. 199. — Elongate; shining-black; glabrous; thorax ample, sides finely margined, but scarcely rounded; elytra thickly and coarsely punctured, tip concolorous with the disc; legs and base of antennæ dull rusty-red, tip of the latter dusky. (L. 4 l.) Moss: Norfolk: 10-4.

3046 elongatus *Gyll.* ii. 251. — *Ste. M.* v. 199. — Elongate; pitchy-black; shining; glabrous; thorax ample, sides finely margined, rounded, and dull red; elytra finely punctured, the punctures slightly disposed in striæ; apex reddish; abdomen with its tip and the edges of the segments red; legs and antennæ dull red, 4 basal joints of the latter darker; palpi dull red. (L. 4-4½ l.) Decayed wood, &c.: Windsor; Norfolk; Yorkshire; Scotland: 4-6.

Fam. 77. STAPHYLINIDÆ *Leach.*

dcxx. Velleius *Ant.* serrated, terminal joint slender, ovate, somewhat acuminate: *palpi* filiform: *tho.* nearly orbiculate: *elytra* flat, apex obliquely truncate: *tibiæ* setose; *anter. tarsi* dilated.

dcxxi. Creophilus *Ant.* short, clavate, terminal joint obliquely truncate, somewhat foveolated: *palpi* nearly filiform: *head* and *thorax* glabrous, the latter orbiculate-4-drate: *elytra* and *abdomen* with hairy patches; latter in the ♂ with apical segment deeply notched; *anter. tarsi* much dilated.

dcxxii. Emus *Ant.* nearly filiform, the 6 terminal joints transverse, the apical one obliquely truncate and slightly notched: *palpi* almost filiform: *thorax* orbiculate-4-drate: *body* densely clothed with long pile: *legs* hirsute, *anter. tarsi* dilated; ♂ with a spine on hinder trochanters.

dcxxiii. Trichoderma *Ant.* filiform; terminal joint obliquely acuminate: *palpi* with apical joint slender, rather shorter than the preceding: *tho.* somewhat 4-drate, rounded behind: *body* entirely clothed with a variegated pile: *tibiæ* setose; *anter. tarsi* dilated.

dcxxiv. Staphylinus *Ant.* filiform, terminal joint obliquely acuminated: *palpi* with apical joint rather slender, as long as the preceding: *tho.* somewhat 4-drate, rounded behind: *body* clothed with a very short uniform pile: *tibiæ* setose; *anter. tarsi* dilated.

dcxxv. Goërius *Ant.* filiform, longish, terminal joint abruptly acuminate: *palpi* somewhat filiform, apical joint cylindric-truncate: *tho.* 4-drate, hinder angles rounded, disc punctulate: *body* glabrous: *tibiæ* setose: *anter. tarsi* much dilated: *mand.* dissimilarly toothed within.

dcxxvi. Ocypus *Ant.* filiform, slender, terminal joint notched, acute: *palpi* filiform, *labi.* with apical joint slightly securiform: *tho.* truncate in front, rounded behind: *body* glabrous: *tibiæ* setose; *anter. tarsi* dilated: *mand.* long, bent, acute, not toothed.

dcxxvii. Tasgius *Ant.* short, filiform; terminal joint abruptly acuminated: *palpi max.* with apical joint short, truncate, *labi.* securiform in ♀: *tho.* somewhat ovate, thickly punctured: *body* glabrous: *tibiæ* setose; *anter. tarsi* much dilated: *mand.* notched within.

dcxxviii. Oxyporus *Ant.* short, thickened at the tip, the 6 terminal joints dilated and compressed: *palpi max.* filiform, *labi.* with terminal joint securiform: *tho.* short, truncate: *elytra* flat, with gibbous shoulders: *body* glabrous: *middle legs* distant at the base; *tibiæ* slightly ciliated: *mand.* prominent.

dcxxix. Euryporus *Ant.* short, distant at the base, filiform, pilose: *palpi max.* filiform, *labi.* with terminal joint securiform: *tho.* ample, very convex, narrowed in front, dilated on the sides: *middle legs* approximating at the base: *mand.* acute.

dcxxx. Astrapæus *Ant.* nearly filiform; joints mostly subglobose-conic: *palpi* all with terminal joint securiform: *tho.* somewhat 4-drate, apex and sides straight, base rounded: *tibiæ* setose; *anter. tarsi* dilated.

dcxxxi. Microsaurus *Ant.* scarcely filiform, short, terminal joint ovate-acute, not emarginate: *palpi* long, slender, apical joint slightly attenuated

at the apex: *head* large: *eyes* large, ovate; *tho.* broad: *elytra* short, wide: *tibiæ* setose; *anter. tarsi* much dilated: *mand.* long, bent.

dcxxxii. QUEDIUS *Ant.* slender, filiform; terminal joint suddenly attenuated: *palpi* elongate, slender, somewhat fusiform: *head* smallish, somewhat ovate: *tho.* convex, its sides expanded, disc polished, smooth, with remote punctures: *tibiæ* setose: *anter. tarsi* much dilated.

dcxxxiii. RAPHIRUS *Ant.* slender, filiform; terminal joint abruptly acuminate: *palpi* with apical joint elongate, acuminate: *head* ovate: *eyes* very large: *tho.* convex, compressed in front, disc with a double row of 3 large punctures: *body* narrowed at each end: *abdomen* acute: *tibiæ* spinose; *anter. tarsi* scarcely dilated, terminal joint elongate.

dcxxxiv. PHILONTHUS *Ant.* filiform; terminal joint excavated at the tip: *palpi* with apical joint more slender than the preceding, truncate: *head* orbiculate: *tho.* 4-drate, sides dilated, compressed in front; disc smooth: *tibiæ* setose, downy within; *anter. tarsi* slightly dilated, terminal joint elongate: *mand.* with a strong central tooth.

dcxxxv. CAFIUS *Ant.* short, pilose; terminal joint ovate, scarcely acuminated: *palpi* filiform, *max.* with apical joint elongate-ovate: *head* large: *eyes* small: *tho.* oblong-ovate: *body* flat: *abdomen* broad: *tibiæ* slightly spined; *anter. tarsi* rather dilated, densely pilose.

dcxxxvi. BISNIUS *Ant.* stout; terminal joint abruptly acuminated: *palpi* somewhat filiform, apical joint rather acute: *head* broad: *eyes* small: *tho.* slightly 4-drate, scarcely rounded behind: *body* flattish: *abdomen* broad: *anter. tarsi* slightly dilated, terminal joint elongate.

dcxxxvii. GABRIUS *Ant.* straight, rather thickened at tip; terminal joint excised: *palpi* slender, apical joint slender, very acute: *head* oblong-ovate: *eyes* small: *tho.* oblong, with 2 rows of punctures approximating in front: *abdomen* slender: *tibiæ* setose; *tarsi* not dilated.

dcxxxviii. HETEROTHOPS *Ant.* straight, short; terminal joint obliquely truncate: *palpi* short, apical joint minute, subulate: *head* small, nearly orbiculate: *tho.* compressed, narrowed in front, dilated behind: *abdomen* elongate, narrowed behind, apex acute, setiferous: *legs* simple: *anter. tarsi* not dilated.

dcxxxix. REMUS *Ant.* straight; terminal joint acute: *palpi* with the apical joint filiform, acuminate: *head* oblong-ovate: *eyes* small: *tho.* elongate, thickly punctured: *body* flat, sericeous: *legs* simple; *anter. tarsi* slightly dilated.

dcxl. OTHIUS *Ant.* filiform, straight; terminal joint ovate-acute: *palpi* filiform, apical joint conic-acuminated: *head* ovate-3-angular; *forehead* grooved: *tho.* oblong: *body* linear, elongated: *anter. tibiæ* pubescent; *tarsi* moderately dilated.

dcxli. XANTHOLINUS *Ant.* elbowed, approximating at the base; terminal joint acuminated: *palpi* filiform, apical joint elongate-ovate: *head* large, mostly oblong-ovate; *forehead* grooved: *tho.* oblong: *body* elongate: *elytra* flat: *abdomen* slightly dilated: *anter. tarsi* not dilated.

dcxlii. LEPTACINUS *Ant.* elbowed, approximating at the base; terminal joint acuminated: *palpi* with the apical joint subulated: *head* moderate; *forehead* 4-sulcate: *tho.* oblong: *body* elongate: *elytra* flattish, the suture imbricated: *anter. tarsi* not dilated.

dcxliii. CRYPTOBIUM *Ant.* elbowed; terminal joint rounded: *palpi* with apical joint minute, subulated: *labrum* bilobed: *head* oblong: *tho.* elongate, 4-angular: *body* linear-elongate: *tarsi* all simple, basal joint slightly longest.

dcxliv. ACHENIUM *Ant.* slightly elbowed; terminal joint acute: *palpi* filiform, apical joint minute, subulate: *labrum* bilobed: *head* obcordate: *tho.*

ovate, flat: *elytra* quadrate: *body* flat: *abdomen* broad: *tibiæ* simple; *anter. tarsi* dilated, terminal joint longest.

dcxlv. LATHROBIUM *Ant.* not elbowed; terminal joint obconic: *palpi* with apical joint minute, subulate: *labrum* transverse, bilobed: *head* suborbiculate, punctured: *tho.* elongate, thickly punctate: *body* linear-elongate, slightly convex: *thighs* compressed; *anterior* and their *tibiæ* generally armed with a tooth; *anter. tarsi* broadly dilated.

620 VELLEIUS *Leach.*

3047 dilatatus *Pk. F.* iii. 389. — *Ste. M.* v. 201. pl. xxvi. f. 6. — Black, shining; thorax with a brassy tinge; elytra opaque, with an obscure pubescence; anterior tarsi dull red beneath; terminal joint of the antennæ testaceous. (L. 9 l.) Winchmore Hill: 6.?

621 CREOPHILUS *Kirby.*

3048 maxillosus *L.* ii. 683. — *Ste. M.* v. 202. — *Shuck. B. C.* pl. 21. f. 2. — Black; shining; pubescent; elytra with a central angulated villose ashy band, in which are about 7 large punctures on each elytron, placed longitudinally, the hinder margin fringed with black; abdomen with an interrupted villose ashy band above, and the 3 basal segments beneath, ashy. (L. 6-10 l.) In carcases, &c.: widely distributed: ⊙.

3049 † ciliaris *Leach.* — *Ste. M.* v. 202. — Black, shining, with an ashy pile; scutellum, tip of the elytra, margins of the abdominal segments and the hinder ones, with tawny-golden pile; legs clothed with tawny pile. (L. 7½ l.) Edinburgh and Inverness: 10-12.

622 EMUS *Leach.*

3050 hirtus *L.* ii. 683. — *Ste. M.* v. 203. — *Cur.* xii. pl. 534. — Black; very hirsute; head, thorax, and abdomen behind, with long golden-yellow hairs, the hinder edge of thorax and the scutellum with black; elytra with black pile in front, and an ashy villose band, dotted with bluish, behind; body with a violet tinge beneath, with a golden band on the penult., and 2 spots of the same on the ante-penult., segment; legs with black hairs. (L. 9-12 l.) Open places: New Forest: Parley Heath; Devon: 6-7.

623 TRICHODERMA *Stephens.*

3051 nebulosum *Fab. E.* ii. 590. — *Ste. M.* v. 204. — St. hybridus *Don.* xvi. pl. 563. — Black; densely clothed with a tawny-golden ashy pile, varied with black; the markings somewhat band-like on the elytra, tip of abdomen black; anterior thighs with the tip, and posterior with a ring, and the tibiæ, testaceous. (L. 6-8 l.) In carcases, &c.: Hertford; Suffolk; Norfolk; Devon; S. Wales, &c.: 10-4.

3052 murinum *L.* ii. 683.? — *Mart. C.* pl. 41. f. 22. — *Ste. M.* v. 205. — Black, clothed with an ashy pubescence, clouded with black; elytra obscurely variegated with fuscous; abdomen varied with ashy and black pile; beneath rather silvery: legs black. (L. 4½-6 l.) In dunghills, &c.: London district; Bristol; Norfolk; S. Wales: 10-6.

3053 pubescens *Fab. E.* ii. 509. — *Ste. M.* v. 205. — Black; obscure; head with a yellowish down; thorax and elytra varied with black and dull red pile; abdomen above dusky, with dull ochreous clouds and a double row of velvety-black spots, beneath with a silvery pile; thighs with a testaceous ring near the tip; base of antennæ dull red, varied with black. (L. 5-6 l.) In carcases, &c.: London and Edinburgh districts; S. Wales; &c.: 1-5.

624 STAPHYLINUS *of Authors.*

3054 erythropterus *L.* ii. 683. — *Don.* ix. pl. 308. — *Ste. M.* v. 205. — St. cæsareus *Ceder. F. I.* No. 1055. — Black, pubescent; elytra, legs, and base of antennæ, red; hinder margin of thorax, and a round spot on either side of each abdominal segment, with golden down; scutellum with deep black. (L. 5½-9½ l.) In pastures: London and Edinburgh districts; S. Wales; Devon; Suffolk; Norfolk: 4-10.

3055 castanopterus *Grav. Mi.* 10. — *Ste. M.* v. 206. — St. erythropterus var. *Oliv. E.* iii. 18. pl. 3. f. 23. — Black; base and tip of antennæ, elytra, and legs, red; thorax immaculate; scutellum with a golden-yellow down; each segment of the abdomen with a small spot of the same on either side. (L. 5-6 l.) Meadows: London district, rare; Devon; S. Wales; Scotland: 10-4.

3056 stercorarius *Oliv. E.* iii. 18. pl. 3. f. 23. — *Ste. M.* v. 206. — Black, opaque, pubescent; base of antennæ, legs, and elytra red; scutellum clothed with a dark pile: each segment of abdomen with an oblique streak of silky down at the base on either side; legs dull-testaceous; base of antennæ pitchy-red. (L. 5½-6 l.) Dung heaps, &c.: London district; Norfolk; Suffolk; Devon: 3-9.

3057 æriceps *Kirby.* — *Ste. M.* v. 206. — Black, opaque; head and thorax brassy-black, finely punctured: scutellum black: elytra dull red; abdomen with a downy silvery spot at the base of each segment on either side; legs dull red. (L. 5½ l.) London district; Suffolk; Swansea: 3-9.

3058 chalcocephalus *Fab. E.* ii. 592.? — *Ste. M.* v. 207. — Dusky black; pubescent; head and thorax brassy, finely punctured; elytra dusky-red; abdomen with 2 obscure pubescent golden lines at the base of each segment; legs brown; thighs dusky; antennæ dusky-brown. (L. 6 l.) London district; Devon: 5-6.

3059 æneocephalus *Pk. F.* iii. 274. — *Oliv. E.* iii. 16. pl. 2. f. 16. — *Ste. M.* v. 207. — Black, pubescent; head and thorax shining brass, very finely punctulated; elytra pitchy-brass; thighs pitchy; tibiæ and tarsi dusky-testaceous; antennæ at base and palpi dullish red. (L. 6-7 l.) Sand-pits Hampstead Heath; S. Wales; Edinburgh: 4-6.

3060 æneicollis *Dahl.* — *Gyll.* iv. 475. — *Ste. M.* v. 435. — Narrow; black, rather densely pubescent; head and thorax finely bronzed, and punctured; elytra fuscous; tibiæ, tarsi, and base of antennæ dull red. (L. 8 l.) London district: 5-6.

3061 brunnipes *Oliv. E.* iii. 13. pl. 1. f. 7. — *Ste. M.* v. 207. — Pitchy-black, rather obscure, punctulate; head and thorax shining; the latter with a smooth dorsal line; elytra obscure; legs entirely, and base and apex of antennæ, red. (L. 5-7½ l.) Under stones, &c.: London district; Suffolk; Norfolk; Raehills: 5-9.

3062 cantianus *Kirby.* — *Ste. M.* v. 207. — Deep black; pubescent; head and thorax shining, irregularly punctured; the latter with a faint smooth dorsal line; elytra obscure, punctured, with a larger impression near the suture towards the apex; legs and antennæ brown. (L. 6½ l.) Under stones: London district; about Gravesend: Winchester: 5-9.

625 GOËRIUS *Leach.*

3063 olens *Mull. Z. D.* 97. — *Fab. E.* ii. 591. — *Mart. C.* pl. 41. f. 21. — *Ste. M.* v. 208. — Deep black, opaque, sparingly tomentose; finely and thickly punctured. (L. 9-16 l.) Abundant in fields, roads, &c.: everywhere in autumn. *

3064† macrocephalus *Leach.* — *Ste. M.* v. 208. — Deep black; head very

large, and, as well as the thorax, with a brassy hue and shining, thickly and minutely punctured; elytra pitchy-black, opaque; legs brown-black; tarsi pitchy-red. (L. 10 l.) Devonshire: 10-1.

3065 cyaneus *Fab. E.* ii. 592. — *K. & S. Int.* pl. 1. f. 2. — *Ste. M.* v. 209. — Black, opaque; head, thorax, and elytra blue, slightly glossy and thickly punctulate; scutel. velvety-black; antennæ with terminal joints pitchy-black. (L. 5½-9 l.) Under stones, &c.: Coombe Wood; Suffolk; Norfolk; Devon; Yorkshire: 10-5.

3066 punctulatus *Marsh.* i. 501. — *Mart. C.* pl. 42. f. 27. — *Ste. M.* v. 209. — Black; head and thorax shining, coarsely punctured; elytra opaque, finely punctured, with a faint bluish tinge; tarsi pitchy; antennæ with the terminal joints dull red. (L. 6½-8 l.) Under stones, &c.: Coombe Wood; Hampstead; Norfolk; Suffolk; Devon; S. Wales: 10-4.

3067 Morio *Grav. Mi.* 6. — *Ste. M.* v. 209. — Slender; black; head and thorax glabrous, shining, distinctly and rather coarsely punctured; elytra dull black, thickly punctured; tarsi dull red; antennæ with the terminal joints pitchy-brown. (L. 6-8 l.) Under leaves, &c.: Darenth Wood; Hampstead; Norfolk; Devon: 10-4.

3068 Kirbii *Leach.* — *Ste. M.* v. 210. — Black, very glossy; head and thorax thickly and deeply punctured; elytra finely punctured, pitchy-brown, the suture slightly raised; tarsi reddish; antennæ pitchy, the tip paler. (L. 7 l.) London district, and Devon: 10-4.

3069 fuscatus *Grav. Mi.* 164. ? — *Ste. M.* v. 210. — Black; head short, transversely 4-angular, and, with the thorax, glossy, rather distinctly but deeply punctured; elytra opaque, thickly punctured; legs pitchy; tibiæ and tarsi reddish; antennæ with the 3 or 4 basal joints black, the remainder rusty-red. (L. 7-8 l.) London district, and Suffolk: 10-4.

3070† erythropus *Pk. F.* iii. 372. — *Ste. M.* v. 210. — Black; head and thorax bright brassy-green, very much punctured; elytra dull brassy-green, finely punctured; abdomen with the penult. segment faintly edged with white, and fringed with tawny; legs red, coxæ black, the 2 anterior beneath, and the hinder pair, red; antennæ rusty-red, the tip dusky. (L. 6-8 l.) Dead leaves: Coombe Wood, and near Dartford: 6.

626 Ocypus *Kirby.*

3071 similis *Oliv. E.* iii. 13. pl. 1. f. 7. — *Ste. M.* v. 211. — Black; slightly tomentose, opaque; head and thorax very thickly punctured, and with a smooth dorsal line; elytra obscure; abdomen with transverse punctures; legs pitchy-black; tarsi and tip of antennæ pitchy-red. (L. 5-7 l.) Sand-pits, &c.: London district; Raehills: 10-4.

3072 picipes *Ste. M.* v. 212. — Black, opaque; head and thorax slightly glossy, very thicky and finely punctulated, with a faint smooth dorsal line; elytra dull black; margins of the abdominal segments pitchy; legs pitchy-black; tarsi reddish; antennæ pitchy, tip red. (L. 6 l.) London district, and Devon: 3-4.

3073 angustatus *Kirby.* — *Ste. M.* v. 212. — Deep black, opaque; slender; head and thorax very slightly shining, very thickly and finely punctured; abdomen with the terminal segment notched beneath; legs pitchy-black, tarsi pale; antennæ pitchy, tip red. (L. 7 l.) London district; Suffolk; Yorkshire: 3-4.

3074 compressus *Marsh.* i. 503. — *Ste. M.* v. 212. — Black; very thickly and finely punctured; head and thorax obscure; elytra slightly pubescent; legs red-brown; antennæ fuscous, the 2 basal and the 2 apical joints rusty-red. (L. 6-7 l.) Under stones, &c.: London district; Norfolk; Suffolk; Sussex, &c.: 10-5.

3075 phæopus *Ste. M.* v. 212. — Deep black; very thickly and finely punctured; head and thorax rather glossy, with a faint dorsal line; elytra opaque, pubescent; legs and antennæ dull red-brown. (L. 7 l.) Under stones: London district: 10-4.

627 TASGIUS *Leach.*

3076 rufipes *Latr. Gr.* i. 285. — *Ste. M.* v. 213. — *Cur.* x. pl. 438. ? — Black; head and thorax with a slight brassy tint, coarsely and deeply punctured, very glossy; with a slender smooth dorsal line; elytra obscure, with a bluish tinge; legs tawny red, with obscure coxæ; antennæ brown, the base red, apex tawny. (L. 6-8 l.) Under stones: London district; Devonshire: 10-4.

3077 confinis *Kirby.* — *Ste. M.* v. 211. — Black, obscure; slightly pubescent; head and thorax glossy, blackish-brass, thickly punctured; elytra dull blackish-brass, with a puncture within the apex; legs pitchy-black; tarsi pitchy-red. (L. 6-7 l.) Under bark, stones, &c.: Epping Forest; Tottenham, &c.: 10-5.

628 OXYPORUS *Fabricius.*

3078 rufus *L.* ii. 684. — *Samou.* pl. 4. f. 11. — *Ste. M.* v. 305. — Red; shining; glabrous: head, breast, elytra, except at the shoulders, 2 apical segments of the abdomen, coxæ, trochanters, and base of the thighs, black. (L. 3-5 l.) Gills of fungi: Coombe Wood; Ripley; Bristol; Norfolk; Suffolk; S. Wales, &c.: 5-6.

3079 maxillosus *Fab. E.* ii. 605. — *Cur.* ix. pl. 418. — *Ste. M.* v. 305. — Black; shining; 2 dots between the eyes, and 1 or 2 towards the base of the thorax, red; elytra lurid ochreous; hinder margin, especially at the angles, black; abdomen pale red, tip more or less fuscous; legs pale red; antennæ fuscous. (L. 3-4 l.) On fungi: near Cheltenham and Bristol: 6.

629 EURYPORUS *Erichson.*

3080† picipes *Pk. F.* iii. 426. — *Shuck. B. C.* pl. 20. f. 6. — Black; shining; thorax very smooth; glossy; with 6 punctures, forming 2 dorsal rows in front of the disc; legs pitchy-red; mouth and base of the antennæ red. (L. 4½ l.) Under bark of trees: Norfolk?

630 ASTRAPÆUS *Gravenhorst.*

3081† rufipennis *Leach.* — *Ste. M.* v. 214. — Black; shining; head and thorax smooth; elytra chestnut-red, with a longitudinal row of punctures; penultimate segment of abdomen, 2 basal joints of antennæ, and labrum, red; tibiæ and anterior tarsi brownish. (L. 6 l.) Coombe Wood and Devon: 6.

631 MICROSAURUS *De Jean.*

3082 lateralis *Grav. Mi.* 35. — *Ste. M.* v. 216. and 485. — *Cur.* xiv. pl. 638. — Black, shining; base of antennæ, palpi, and tarsi pitchy-red; thorax with a faint metallic tinge; elytra opaque, finely punctured, the lateral margin broadly testaceous. (L. 6-6½ l). Darenth Wood; Spitchweek, Devon; Stockton, and near Edinburgh: 6-7.

632 QUEDIUS *Leach.*

§ A. *Eyes* very large, ovate.

3083 tristis *Grav. Mi.* 34. — *Ste. M.* v. 215. — Black, obscure; head and thorax glossy; the former with 6 punctures placed transversely between

the eyes, the latter with 3 placed obliquely on each side of the disc; legs pitchy-black; tarsi, palpi, and antennæ red. (L. 4-6 l.)

Var. Qu. picicornis *Kirby*. — *Ste. M.* v. 215. — Darker and more obscure; antennæ pitchy.

Var. ? ♀. Qu. gracilis *Ste. M.* v. 215. — Rather more slender, and shining; head very small; thorax with 4 distinct punctures; elytra somewhat pitchy; extreme tip of the abdomen, legs, and apex of antennæ pitchy, base of the latter, tibiæ, and tarsi reddish. (L. 6 l.) Under stones: London district; Norfolk; Suffolk; Devon; S. Wales, &c.: 10-5.

3084 picipes *Mann. Pr.* 26. — Qu. pyrrhopus *Kirby*. — *Ste. M.* v. 216. — Black: head and thorax shining; the former with 3 punctures on the hinder angles, and 1 near each eye; the latter with 6, placed obliquely in 2 rows; elytra bright red, very thickly punctulated, opaque; abdomen with a slightly metallic gloss; legs and antennæ red. (L. 3-4½ l.) Dung, &c.: London district; Dover; Norfolk; Suffolk; Yorkshire: 4-6.

3085 picipennis *Pk. F.* iii. 373. — *Ste. M.* v. 216. — Black, obscure; head and thorax very glossy, punctured as the last; elytra very much punctured, pitchy-chestnut; legs and antennæ pitchy-red, thighs dusky; scutel. punctured. (L. 4-5 l.)

Var. Qu. denudatus *Kirby*. — *Ste. M.* v. 216. — Pitchy-black; elytra glabrous, very much punctured; legs and antennæ pitchy. Dung, &c.: London district; Norfolk; Suffolk; Devon; Bristol; S. Wales, &c.: 4-6.

3086 analis *Ste. M.* v. 435. — Black, shining; head and thorax punctured as before: elytra, tip of the abdomen, and the legs, pitchy-red; antennæ pitchy. (L. 5 l.) Dung: London district; Yorkshire: 4-6.

§ B. *Eyes* remote; *sides of thorax* not waved.

a. Thorax with a double row of 2 or 3 punctures.

3087 nitidus *Grav. Mi.* 31. — Qu. variabilis *Ste. M.* v. 218. — Black; very shining; thorax with the lateral margins dilated, orbiculate; elytra obscure, pitchy or black, very much punctulated, pubescent; legs and antennæ pitchy; palpi black. (L. 3-5 l.)

Var. Qu. hæmopterus *Kirby*. — *Ste. M.* v. 217. — Elytra red; legs and antennæ brown; palpi fuscous.

Var. ? Qu. hæmorrhous *Kirby*. — *Ste. M.* v. 217. — Elytra, legs, base of antennæ, apex of abdomen, and edges of its segments, red; palpi pale red. Dung, &c.: London district; Norfolk; Suffolk; Devon: 4-6.

3088 Lathburii *Kirby*. — *Ste. M.* v. 218. — Pitchy; head orbiculate, glossy; thorax broad, polished, glabrous; elytra tawny-yellow; obscure, slightly pubescent; abdomen broad, pitchy; legs rusty-pitchy, tarsi paler; antennæ and palpi tawny-yellow: — tip of antennæ, and hinder legs, sometimes pitchy. (L. 3¾ l.) Dung, &c.: London district; Suffolk: 4-6.

3089 scitus *Grav. Mo.* 50.—St. atriceps *Kirby*. — *Ste. M.* v. 218.—Pitchy-red, or dull red; shining; head black; polished; thorax also polished, its disc sometimes fuscous; elytra dull red, sparingly punctulated, outer angles pitchy; tip of abdomen, legs, and antennæ rusty-red. (L. 3 l.) Dung: London district, and Suffolk: 6.

3090 hæmorrhoidalis *Leach*. — *Ste. M.* v. 218. — Black; somewhat shining; head ovate; elytra, punctured, and legs pitchy-chesnut; abdomen flat, dilated, the terminal segment red; legs pitchy-brown, or chestnut; antennæ pitchy, stoutish. (L. 3½ l.) Dung, &c.: London district; Devon: 4-6.

3091 fulvipes *Fab. E.* ii. 597. — *Ste. M.* v. 219. — Black; shining; head very glossy, rather narrower than the thorax; elytra red, glabrous, nearly

impunctate; extreme tip of abdomen and edges of its segments, legs, and base of antennæ, red; apex of latter dusky-red. (L. 3-4 l.) Dung, &c. London district; Devon: 4-6.

3092 impressus *Pz. F.* xxxvi. f. 21. — *Ste. M.* v. 219. — Black; shining; head and thorax very glossy; elytra glabrous, shining, with 4 rows of punctures, sides, suture, and tip red, or testaceous; legs pitchy; knees brownish; antennæ pitchy-black. (L. $3\frac{1}{2}$ l.) Decayed leaves, &c.: London district; Suffolk; Devon: 4-8.

3093 atripennis *Ste. M.* v. 436. — Pitchy-red; shining; head and elytra deep black; the latter finely punctured; legs pale red; antennæ pitchy. (L. 4 l.) Scotland: 6.

3094 sericopterus *Ste. M.* v. 219. — Black; rather glossy; head and thorax polished; elytra chestnut-brown, clothed with long silken pubescence; abdomen with a bluish gloss, apex acute; legs and antennæ red-brown, the latter palest and slender. (L. 3 l.) Dung: London district: 6.

3095 rufitarsis *Marsh.* i. 512. — *Ste. M.* v. 220.—Black; head rather narrower than the thorax, both polished; elytra pubescent, testaceous, punctured; legs pitchy-black; tarsi red; antennæ pitchy. (L. 3 l.) Dung: London district: 6.

3096 humeralis *Kirby.* — *Ste. M.* v. 220. — Black; highly polished; head orbiculate; eyes largish; elytra dull reddish, very much punctulated, slightly pubescent; abdomen with a purplish hue, the edges of the segments and the extreme tip reddish; legs and base of antennæ red. (L. 3 l.) Dung: London district; Barham: 6.

3097† seminitidus *Kirby.*—*Ste. M.* v. 220.—Black, obscure; head rounded, and with the thorax polished; elytra obscure pitchy, punctulated, pubescent; legs pitchy-black; antennæ and palpi black, the latter somewhat clavate. (L. $1\frac{3}{4}$ l.) Dung: Suffolk: 6.

b. Thorax with a double row of 4 punctures each.

3098 picatus *Kirby.* — *Ste. M.* v. 220. — Black; head somewhat heart-shaped, shining; thorax polished, and with a fovea at the base; elytra pitchy, pubescent, much punctured; legs pitchy-red, anterior coxæ dusky. (L. 3 l.) Dung: London district; Suffolk; Devon: 6.

3099 picipes *Kirby.* — *Ste. M.* v. 221. — Black, with a longish, but scanty ashy pubescence; head somewhat heart-shaped, glossy, and, with the thorax, glabrous; elytra pitchy, obscure, minutely punctulate; legs pitchy-red; anterior coxæ dusky; basal joints of antennæ pitchy. (L. $2\frac{1}{2}$-3 l.)

Var. St. hirtipennis *Kirby.* — *Ste. M.* v. 221. — Elytra clothed with a longer and more rigid pubescence than the type; legs dull red, segments of the abdomen slightly reddish on the edge. Dung: London district; Suffolk: 6.

3100 sericans *Kirby.* — *Ste. M.* v. 221. — Black; shining; pilose; head somewhat orbiculate; thorax with a silken gloss; elytra dull red, pilose, punctulated; abdomen ovate, the edges of the segments beneath red; legs dull reddish; base of antennæ rusty-piceous. (L. $2\frac{1}{3}$ l.) Dung: London district; Suffolk: 6.

3101 fuscipennis *Kirby.* — *Ste. M.* v. 222. — Deep black, shining; rather pilose; head somewhat orbiculate, and, with the thorax, polished; elytra punctulate, chestnut-brown; abdomen with a bluish tint; legs chestnut; antennæ black. (L. 3 l.) Dung: Suffolk; Devon: 6.

3102 rufipes *Ste. M.* v. 222. — Pitchy-black; head and thorax polished; elytra slightly pubescent, very much punctulated, obscure; abdomen also pubescent, edges of the segments obscurely pitchy; legs tawny-red; tibiæ

and tarsi obscure; antennæ pitchy, base red. (L. 2½ l.) Dung: London district: 6.

3103 nitescens *Ste. M.* v. 222. — Pitchy-black; rather glossy; head small, black; thorax somewhat orbiculate; elytra slightly pubescent, apex pale pitchy; abdomen pubescent, margins of the segments, legs, and antennæ, pitchy. (L. 2 l.) Dung: Norfolk; Swansea: 6.

3104 nigricornis *Ste. M.* v. 222. — Deep black, highly polished; elytra slightly glossy, very thickly punctulated; abdomen with a faint purplish tinge; legs pitchy, anterior thighs brownish; antennæ stoutish. (L. 3½ l.) Dung: London district: 6.

3105 caliginosus *Ste. M.* v. 223. — Black; slightly shining; head somewhat ovate; thorax rather elongate-ovate; elytra dull black, finely punctured, pubescent; legs pitchy-black. (L. 2½ l.) Dung: London district: 6.

c. Thorax with 10 punctures, forming 2 rows.

3106 lepidulus *Kirby.* — *Ste. M.* v. 223. — Black; shining; head somewhat heart-shaped, narrower than the thorax, both polished; elytra reddish, slightly pubescent, punctulated; abdomen with the edges of the segments dull pitchy; legs and antennæ red, base of the latter pale. (L. 2½ l.) Dung: London district; Suffolk; Devon: 6.

3107 inquinatus *Kirby.* — *Ste. M.* v. 223. — Black, shining; rather pilose; head somewhat orbiculate; elytra punctulate, and, with the base, black; abdomen linear, silky beneath; legs fuscescent, tarsi paler; antennæ brown-black, the basal joint pitchy. (L. 2⅔ l.) Dung: London district; Suffolk: 6.

3108 picicollis *Kirby.* — *Ste. M.* v. 224. — Black; head orbiculate, scarcely narrower than the thorax, glabrous; thorax somewhat 4-drate, pitchy-brown, shining; elytra pitchy, pubescent; abdomen with the edge of the segments beneath reddish; thighs tawny; tibiæ, tarsi, and antennæ fuscous, basal joint of latter palest. (L. 2 l.) Dung: London district; Suffolk; Norfolk; Devon: 4-6.

3109 discoideus *Grav. Mi.* 38. — Qu. suturalis *Ste. M.* v. 224. — Pitchy-black, or black; shining; head somewhat heart-shaped, narrower than the thorax; elytra slightly pubescent, thickly punctured, pitchy, with the suture, apex, and lateral margin, testaceous; abdomen with the edges of the segments reddish; legs and antennæ dull red. (L 2½ l.) Dung: London district; Norfolk; Suffolk; S. Wales; Cramond: 6.

3110 unicolor *Kirby.* — *Ste. M.* v. 224. — Deep black; rather shining; head somewhat heart-shaped, about half as wide as the thorax, both polished; elytra rather obscure, pubescent. (L. 2½ l.) Dung: London district; Norfolk; Suffolk; Devon: 4-6.

3111 castanopterus *Ste. M.* v. 225. — Black; shining; head somewhat ovate; thorax nearly orbiculate; elytra faintly punctured, bright chestnut-red; 2 basal segments of the abdomen narrowly edged with reddish; legs and antennæ dusky, base of the latter and tarsi pitchy. (L. 2¾ l.) Dung: London district: 5-6.

d. Thorax with 4 punctures.

3112 Skrimshiranus *Ste. M.* v. 225. — Pitchy-red; shining; glabrous; head ovate, pitchy-black; thorax convex, pitchy-red, polished, with 4 punctures placed 4-gonally; elytra finely punctate, pitchy-black; suture pitchy; legs dull pitchy-red; tarsi pale: antennæ pitchy, reddish at the base. (L. 4 l.) South Creek, Norfolk; Whitehall? 6.

§ C. *Eyes* moderate; *thorax* with the lateral margins slightly waved.

3113 nitidus *Fab. E.* ii. 596. ? — *Ste. M.* v. 225. — Black; shining; head much punctured on each side; thorax with 8 punctures on the disc, forming 2 oblique lines; elytra very much punctulated, testaceous-red, slightly pubescent; abdomen punctured; legs pitchy, or black. (L. 5-5½ l.) Dung: London district; Devon; Suffolk: 4-6.

3114 erythropterus *Ste. M.* v. 226. — Black; shining, glabrous; thorax with 2 faint impressions on the disc, and 8 punctures; elytra nearly glabrous, red, the base indeterminately dusky; tip of abdomen and margins of all its segments, with the legs and antennæ, pitchy-red. (L. 5 l.) Dung: London district: 6.

633 RAPHIRUS *Leach.*

3115 semiobscurus *Marsh.* i. 512. — *Ste. M.* v. 241. — Qu. umbrinus *Eric. K.* i. 491. — Pitchy-black; head black, and, with the thorax, polished; elytra dull pitchy, short, thickly punctured; abdomen somewhat iridescent, the edges of the segments beneath reddish; legs and antennæ rusty-red, the latter slender. (L. 3-3¼ l.) Dung, &c.: London district; Norfolk; Suffolk; Devon: 4-6.

3116 mauro-rufus *Grav. Mo.* 56. — Ru. præcox *Ste. M.* v. 245. — Rusty-brown; shining, pilose beneath; head somewhat ovate, pitchy-black; thorax slightly pitchy in front; elytra dusky and finely punctulated, dusky-testaceous; abdomen iridescent; legs and antennæ at base testaceous, apex of the latter dusky. (L. 2½-3 l.) Dung, &c.: London district; Norfolk; Suffolk; Redcar: 4-6.

3117 attenuatus *Grav. Mo.* 61. ? — *Ste. M.* v. 242. — St. præcox *Eric. K.* i. 492. — Pitchy-black; shining; head somewhat orbiculate, dusky; elytra opaque, finely and densely punctured; abdomen iridescent, apex sometimes pitchy; legs testaceous, hinder thighs dusky; antennæ dull testaceous. (L. 2-2¾ l.) Dung, &c.: London district; Devon: 6.

3118 nitipennis *Leach.* — *Ste. M.* v. 242. — Qu. attenuatus *Eric. K.* i. 493. — Black, shining; head orbiculate, narrower than the thorax; elytra brassy-black, very finely punctured, slightly shining; legs, palpi, and antennæ tawny-red; scutellum punctured. (L. 2½ l.) Dung: Battersea fields; Marton; Devon: 4-6.

3119 Boops *Grav. Mi.* 21. — *Ste. M.* v. 242. — Black, shining; head orbiculate, as wide as the thorax; eyes very large; thorax black or pitchy, glossy; elytra pubescent, slightly punctured, sometimes with a greenish tinge; legs and antennæ testaceous. (L. 2-2¼ l.) Dung, &c.: London district; Yorkshire; Scotland: 6-8.

3120 picipennis *Ste. M.* v. 243. — Shining black; head somewhat orbiculate; thorax with the hinder margin pitchy; elytra pitchy, with a faint greenish hue; abdomen with the edges of the segments and the apex pitchy-red; legs pale testaceous; antennæ pitchy-red. (L. 2½ l.) Dung: London district: 4.

3121 rufipennis *Kirby.* — *Ste. M.* v. 243. — Black; obscure; head and thorax polished; elytra rusty-red, with a dense griseous pile; 4 anterior legs testaceous, 2 hinder red; antennæ and palpi testaceous-red. (L. 2¾ l.) Dung, &c.: London district; Suffolk; Yorkshire: 4-6.

3122 fuscipes *Kirby.* — *Ste. M.* v. 243. — Qu. scintillans *Eric. K.* i. 490. ? — Black; head and thorax shining brassy, the former with 4 punctures between the eyes; elytra brassy-black, moderately punctured and pilose; thighs reddish, tibiæ and tarsi fuscescent; base of the antennæ testaceous, apex fuscescent. (L. 2¾ l.) Dung, &c.: Gravesend; Holme, Norfolk: 4-6.

3123 semiæneus *Kirby.* — *Ste. M.* v. 243. — Qu. lucidulus *Eric. K.* i. 495. ? — Black, shining; head with 4 frontal impressions, and, with the thorax, brassy-black; elytra brassy-red; margins of abdominal segments and legs red; hinder thighs dusky; antennæ and palpi testaceous. (L. $2\frac{3}{4}$ l.) Dung, &c.: London district; Suffolk; Norfolk: 4-6.

3124 fulvicollis *Ste. M.* v. 244. — Pitchy-red, shining; head black, somewhat orbiculate; thorax bright glossy tawny-red; elytra pitchy-black, suture and apex paler, finely punctured; abdomen with base of anterior segments blackish; legs pale testaceous; antennæ pitchy. (L. $2\frac{3}{4}$ l.) Under stones: Edinburgh: 4-6.

3125 ruficollis *Kirby.* — *Ste. M.* v. 244. — Black; head very glossy, somewhat orbiculate; thorax bright red, polished; elytra slightly shining, pitchy, and pubescent; abdomen obscure, tip and edges of the segments red; antennæ and legs red. (L. $3\frac{3}{4}$ l.) Dung, &c.: London and Edinburgh districts; Ipswich; Swansea; Carlisle; Devon: 4-6.

3126 sericopterus *Ste. M.* v. 244. — Deep shining black; head smooth, somewhat ovate; elytra dull pitchy-red, thickly clothed with a silken down, and finely punctured; legs and antennæ pitchy-red. (L. $3\frac{1}{2}$ l.) Under stones: Gravesend: 9-10.

3127 fumatus *Kirby.* — *Ste. M.* v. 245. — Pitchy; slightly pubescent; glossy; head black; narrower than the thorax, somewhat orbiculate; thorax also orbiculate, blackish; elytra reddish, flattish; rather villose; abdomen pitchy-red, paler beneath; legs reddish; antennæ red. (L. 3 l.) Under stones: London district; Suffolk; Devon: 4-6.

634 Philonthus *Leach.*

§ A. *Thorax* with the disc impunctate.

a. Lateral margins of thorax rounded.

3128 laminatus *Creutz. E. V.* 128. pl. 3. f. 31. — *Ste. M.* v. 226. — Brassy-black; shining; head rather narrower than the thorax, both highly polished, smooth, and brassy-green; elytra greenish, thickly and finely punctured; abdomen and legs black. ♂ with the antepenult. segment of abdomen very broad. (L. $4\frac{1}{2}$-5 l.)

Var. ? Ph. æneus *Ste. M.* v. 227. — Black; head, thorax, and elytra brassy and shining. Dung: London district, &c.: 10-6.

3129† coxatus *Cur.* fo. 610. — "Black, smooth, and shining; head and thorax ochreous, the former small, punctured behind; elytra green, punctured and pubescent; abdomen with a purplish tinge; legs griseous, 4 anterior coxæ feruginous. (L. 5 l.)" *Cur. l. c.* Locality not known.

3130 chalceus *Ste. M.* v. 227. — Black; shining; head as wide as the thorax, both very glossy brassy-green, disc of the latter very smooth; elytra brassy, sparingly and rather deeply punctured; legs pitchy-brass; tarsi pitchy. (L. $4\frac{1}{2}$-5 l.) Dung: London district.: 10-6.

b. Lateral margins of thorax slightly waved.

3131 splendens *Fab. E.* ii. 594. — *Ste. M.* v. 227. — Deep black, shining; head and thorax highly polished, the former very broad, the latter with its sides slightly waved; elytra greenish-brass, somewhat pubescent, and shining. (L. 5-6 l.) Dung, &c.: London district; Suffolk; Norfolk; S. Wales, &c. ⊙.

§ B. *Thorax* with 4 impressions on the disc, 2 on each side.

3132 æratus *Kirby.* — *Ste. M.* v. 228. — Brassy-black, shining; head and thorax polished, the former with 4 punctures, placed transversely on the front, the latter with 4 placed 4-gonally on the disc; elytra brassy, gla-

brous; legs and antennæ black. (L. 5 l.) Dung: London district and Suffolk: 9-4.

§ C. *Thorax* with 8 discoidal punctures, 4 in each row.

a. Lateral margins of thorax slightly waved.

3133 æneus *Grav. Mi.* 17. — Ph. puncticollis *Ste. M.* v. 228. — Black; head and thorax brassy-black, polished, the former somewhat 4-drate, broad, the latter with its sides a little waved, and slightly punctured; elytra brassy-green, and, with the abdomen, delicately punctured, the last with an ashy pubescence: ♀ with the head narrower than the thorax. (L. 3½-5½ l.)

Var. Ph. politus *Ste. M.* v. 228. — Slender; brassy-black; head narrower than the thorax: — legs sometimes pitchy-brown, and the elytra brownish-brass. Dung, &c.: London district. ⊙.

3134 carbonarius *Gyll.* ii. 319.? — Ph. microcephalus *Ste. M.* v. 229. — Narrow, black, shining; head small, broadly ovate or somewhat 4-drate; thorax with the sides slightly waved, and impressed; elytra brassy-black; abdomen with a greenish tinge, clothed with a black pubescence, and sparingly punctured; the segments sometimes edged with red beneath. (L. 4-5½ l.) Dung: London district. ⊙.

b. Lateral margins of the thorax rounded.

1. *Elytra* metallic, brassy, or blue.

3135 politus *L.* ii. 683.? — Pl. maculicornis *Kirby.* — *Ste. M.* v. 229. — Black; shining; somewhat greenish above; head ovate, much narrower than the thorax, and, as well as the thorax, highly polished; elytra brassy-black; antennæ with the basal joint testaceous beneath. (L. 4-4¾ l.)

Var. St. melanopterus *Wilkin.* — *Ste. M.* v. 229. — Elytra black, with a slight brassy tinge; mouth, legs, and base of the antennæ pitchy. Dung: throughout the London district. ⊙.

3136 lucens *Mann. Pr.* 28.? — Ph. cognatus *Ste. M.* v. 229. — Broadish; black, with a brassy tinge; head narrower than the thorax, both highly polished; dorsal punctures rather faint; elytra dull brown-brassy, opaque, thickly and finely punctured. (L. 4½-5 l.) Dung: London district: 5-9.

3137 decorus *Grav. Mi.* 19. — *Ste. M.* v. 230. — Deep black; head ovate, and, with the thorax, greenish black, the latter broadest; elytra finely punctured, brassy-black, opaque; abdomen with the margins of the segments beneath dull red; legs pitchy-black; tarsi paler. (L. 4-5 l.) Dung and roots of trees: Richmond Park; Darenth Wood; Norfolk: 10-6.

3138 † cyanipennis *Fab. E. S.* i. 597. — *Ste. M.* v. 230. — St. amœnus *Oliv. E.* iii. 42. pl. 4. f. 36.? — Glossy-black, shining; head and thorax very smooth; elytra rich violet-blue, slightly punctulated and pilose. (L. 6 l.) S. Wales, near Swansea: 6.?

3139 atratus *Grav. Mi.* 21. — *Ste. M.* v. 232. — Black; shining; head orbiculate, rather narrower than the thorax, the latter somewhat oblong; elytra brassy-green, or bluish, moderately punctured and nearly glabrous; tarsi pitchy. (L. 2¾-3½ l.) Dung: London district; Devon; Suffolk: 2-6.

3140 sericeus *Ste. M.* v. 231. — Broad; brassy-black; shining; head and thorax glabrous, equal in width, the latter with the dorsal impressions large and approximating; elytra rather coarsely punctured; abdomen with a slight silken pile. (L. 4 l.) Dung: London district: 6.

3141 varius *Gyll.* ii. 321. — Ph. chalcopterus *Marsham.* — *Ste. M.* v. 231. — Deep black; shining; head somewhat ovate, narrower than the tho-

rax, both polished; elytra brassy-green, very glossy; legs pitchy. (L. 2½-3 l.)

♂ ? Ph. pilipes *Kirby.* — *Ste. M.* v. 231. — Black, shining; head somewhat orbiculate; elytra brassy-black, thickly punctured and slightly pubescent; anterior tibiæ, and tarsi, with a pale down beneath. (L. 3½ l.) Dung; London district; Suffolk; Devon: 4-6.

Var. ? St. carbonarius *Grav. Mi.* 23. — *Ste. M.* v. 230. — Longer (4 l.); tip of abdomen, tibiæ, and tarsi rusty-brown. Dung: London district; Suffolk; Norfolk; South Wales: 4-6.

3142 fimetarius *Grav. Mi.* 175. — *Ste. M.* v. 232. — Elongate; black, shining; head somewhat orbiculate, narrower than the thorax, polished; elytra pitchy-brass, or greenish, slightly pubescent, finely punctured; legs and palpi pale pitchy-red. (L. 3 l.) Dung: Hampstead Heath, &c.; Suffolk; Copgrove, Yorkshire; South Wales: 4-6.

3143 lucidus *Grav. Mi.* 21. — *Ste. M.* v. 232. — Deep black, shining; head rather narrower than the thorax, somewhat heart-shaped, polished; elytra brassy-black, slightly pubescent; abdomen with the edges of the middle segments reddish; legs and antennæ pitchy. (L. 3½ l.) Dung: London district; Fakenham: 4-6.

3144 sordidus *Grav. Mi.* 176. — *Ste. M.* v. 233. — Black, shining; head somewhat orbiculate, as wide as the thorax, punctured in front; elytra brassy-green, flattish, with remote deep punctures; legs dull rusty-piceous; tarsi paler. (L. 2½ l.) Dung: London district; Devon: 4-6.

3145 subfuscus *Gyll.* ii. 326. — *Ste. M.* v. 233. — Black, shining; head orbiculate, as wide as the thorax, punctured in front; elytra brown brass, very finely punctulated, pubescent; legs dull testaceous; basal joint of the antennæ slightly reddish at its origin. (L. 2½ l.) Dung: London district.: 4-6.

b. Elytra black, not metallic.

3146 marginatus *Fab. E.* ii. 597. — *Ste. M.* v. 233. — *Cur.* xiii. pl. 610. — Black; head ovate; sides of the thorax and the legs reddish-yellow; edges of the middle segments of the abdomen reddish. (L. 4. l.) Dung: generally distributed. ⊙.

§ D. *Thorax* with the discoidal punctures 5 in each row.

a. Elytra brassy or metallic, not spotted.

3147 varius *Oliv. E.* iii. 27. pl. 5. f. 46. ? — *Ste. M.* v. 234. — Black shining; head somewhat orbiculate, rarely narrower than the thorax; elytra greenish-brown, slightly glossy, and pubescent; legs pitchy-brown. (L. 2½-4 l.)

Var. ? St. concinnus *Grav. Mi.* 21. — *Ste. M.* v. 233. — Elytra brassy-green; legs brownish; abdomen sparingly punctured. Dung: London district, and generally distributed: 4-8.

3148 obscurus *Grav. Mi.* 174. — *Ste. M.* v. 234. — Black; rather obscure; head somewhat orbiculate, and, with the thorax, glossy; elytra dull brassy-black, slightly pubescent; legs obscure brownish. (L. 3 l.) Dung: Darenth Wood; Suffolk; South Wales: 4-6.

3149 simplex *Marsh.* i. 505. — *Ste. M.* v. 234. — Black, somewhat pilose; head orbiculate, and, with the thorax, very smooth and polished; elytra brassy, tomentose; legs pitchy; anterior thighs and coxæ reddish. (L. 2½ l.) Dung: London district: 4-6.

b. Elytra black; spotless.

3150 punctiventris *Kirby.* — *Ste. M.* v. 235. — Deep black; head and thorax polished; elytra obscurely pubescent; abdomen above and beneath

with a distinct puncture on each segment, on both sides; legs fuscous, anterior coxæ reddish. (L. 3. l.) Dung: Suffolk: 4-6.

3151 intaminatus *Kirby.* — *Ste. M.* v. 235. — Black; shining; spotless: head orbiculate, narrower than the thorax; elytra rather obscure, slightly pubescent; legs black; antennæ brownish at the tip. (L. 3. l.) Dung: London district; Suffolk; Devon: 4-6.

3152 aterrimus *Marsh* i. 513. — *Ste. M.* v. 235. — Black, very shining; head somewhat heart-shaped, half the width of the thorax, both polished, and smooth; elytra pitchy-black; 4 anterior thighs flattened and pitchy, with testaceous coxæ; antennæ pitchy at the base.

Var. ? Ph. opacus *Mus. Marsh.* — *Ste. M* v. 236. — 4 anterior thighs somewhat tawny. (L. 3¼ l.) Dung: London district; Suffolk; Norfolk; South Wales: 4-6.

3153 phæopus *Kirby.* — *Ste. M.* v. 236. — Black; head somewhat orbiculate, rather narrower than the thorax, both polished; elytra pitchy, with a faint brassy tint, very much punctulated, pubescent; abdomen with the extreme tip pitchy beneath; legs pitchy-red, with black coxæ; palpi red. (L. 3 l.) Dung: London district; Suffolk: 6.

3154 nitens *Grav. Mi.* 26. ? — *Ste. M.* v. 236. — Black, shining; head somewhat ovate, and, with the thorax, smooth, and polished; elytra griseous-brown, punctured, and slightly pubescent; legs pale fuscous. (L. 2½ l.) Dung: Wrabness, Essex: 6.

3155 obscuripennis *Kirby.* — *Ste. M.* v. 236. — Black; slightly shining; head somewhat heartshaped, narrower than the thorax, discoidal punctures obscure; elytra with an obscure down, scarcely punctured; legs pale red, with black coxæ; antennæ longish, with basal joint pitchy. (L. 2½ l.) Dung: London district; Suffolk; Norfolk; Devon; S. Wales: 4-6.

3156 longicornis *Kirby.* — *Ste. M.* v. 237. — Black; shining; head somewhat orbiculate; elytra pitchy, slightly pubescent; legs pitchy, anterior coxæ dull yellow; antennæ long, red at the base. (L. 2½ l.) Dung: London district; Copgrove, Yorkshire: 4-6.

3157 agilis *Grav. Mo.* 77. — *Ste. M.* v. 237. — Shining; black; head oblong-ovate, narrower than the thorax, smooth; elytra fuscous, slightly glossy, the apex, more or less, indeterminately dusky-ferruginous; disc roughly punctured; legs fuscous, anterior coxæ testaceous. (L. 2½ l.) Dung: London district: 4-6.

3158 ventralis *Grav. Mi.* 174. — *Ste. M.* v. 237. — Pitchy-black; shining; head orbiculate, as wide as the thorax; elytra pitchy-black, thickly punctulated; abdomen with the edges of the segments beneath, and the extreme tip, broadly testaceous-red; legs and base of antennæ also testaceous-red. (L. 2½ l.) Dung: London district: 6.

c. *Elytra* black, or faintly brassy; spotted.

3159 lituratus *Kirby.* — *Ste. M.* v. 238. — Black; head ovate, and, with the thorax, polished; elytra pitchy, with an obscure red line on the disc, not dilated behind, sometimes nearly obsolete; legs pitchy-black; anterior coxæ testaceous. (L. 2¼-3 l.) Dung: London district; Suffolk; Devon; S. Wales; Edinburgh: 4-6.

3160 bipustulatus *Fab. E.* ii. 598. — *Pz. F.* xxvii. f. 10. — Black; head ovate, and, with the thorax, polished; elytra thickly punctulated, pubescent, each with an obscure blood-red spot on the disc behind; legs black. (L. 3-3½ l.) Dung: London and Edinburgh districts; Suffolk; S. Wales: 4-6.

3161 aciculatus *Ste. M.* v. 238. — Slender; black; head orbiculate, and, with the thorax, polished; elytra pubescent, dark pitchy, each with an

obscure red streak, reaching from the shoulder to the inner apex of the suture; anterior thighs testaceous. (L. 3½ l.) Dung: London district: 5-6.

3162 sanguinolentus *Grav. Mi.* 36. — *Ste. M.* v. 238. — Black; head somewhat orbiculate, and, with the thorax, polished; elytra obscure, dusky, each with a red streak in the middle at the base, and the suture broadly red behind; anterior coxæ testaceous. (L. 3 l.) Dung, in sandy places: Hampstead; Ripley, &c.; Swansea: 5-6.

3163 bimaculatus *Grav. Mi.* 38. — *Ste. M.* v. 239. — Black; head somewhat ovate, and, with the thorax, highly polished; elytra brassy-pitchy, each with a large obscure testaceous red patch on the disc towards the apex. (L. 3-3¾ l.) Dung: London district; Suffolk; Devon: 5-6.

d. Elytra red, not spotted.

3164 coruscus *Grav. Mi.* 33.? — *Ste. M.* v. 239. — Black; shining; head somewhat ovate, narrower than the thorax; elytra bright red, slightly pilose. (L. 3 l.) Dung: London district: 7-10.

§ E. *Thorax* with 12 discoidal punctures, 6 in each row.

a. Elytra red, spotless.

3165 rubripennis *Kirby.* — *Ste. M.* v. 239. — Black; head ovate, and, with the thorax, highly polished: elytra bright blood red, spotless, thickly punctured and pubescent; legs fuscous; tarsi paler. (L. 3 l.) Dung, &c.: London district, at South Lambeth, Camberwell, &c.; Norfolk: 8-9.

b. Elytra black or dusky.

3166 micans *Grav. Mi.* 25. — *Ste. M.* v. 240. — Black; head somewhat ovate, and, with the thorax, glossy; elytra brown-black, opaque, silky; legs testaceous; antennæ pitchy at the base. (L. 2½ l.) Dung: London district; Devon: 5-6.

3167 nigrita *Grav. Mi.* 68. — Deep black; head ovate, and, with the thorax, glossy, the latter with a silken griseous pubescence; elytra very thickly and finely punctured; knees pitchy. (L. 3 l.) Dung: London district: 5-6.

§ F. *Thorax* with 16 discoidal punctures, 8 in each row.

3168 Watsoni *Kirby.* — *Ste. M.* v. 240. — Black; shining; slightly pilose; head small, orbiculate, and, with the thorax, glossy, the latter with 2 waved rows of punctures, 8 in each; elytra brassy. (L. 4⅔ l.) Dung: rare: London district; Suffolk; Yorkshire: 5-6.

§ G. *Thorax* with 10 or more punctures in each row.

3169 punctus *Grav. Mi.* 20. — *Ste. M.* v. 240. — St. politus *Pz. F.* xxvii. f. 7. — Black, rather glossy; head somewhat orbiculate, and, with the thorax, thickly punctured on the sides; the latter with 2 rows of 12 distinct impressions: elytra finely punctured, pubescent; terminal segment of abdomen notched beneath; tarsi pitchy. (L. 3½ l.) Dung: Gravesend; Norwich: 5-6.

3170 minax *Kirby.* — *Ste. M.* v. 241. — Black, with an obscure pubescence; head somewhat orbiculate, and, with the thorax, punctured on the sides, the latter with a double row of larger impressions on the disc; abdomen with the 2 last ventral segments red, the last notched at the tip; legs pitchy-black; tibiæ and tarsi pale; mandibles longer than the head, fuscous. (L. 4⅓ l.) Rare; near Hull and Gravesend: 5-6.

3171 † impressicollis *Ste. M.* v. 436. — Black; shining; elytra with the outer half of each obliquely chestnut-red; antennæ pitchy; thorax with its

entire disc thickly covered with deeply impressed dots, placed very irregularly. (L. 4 l.) New Forest: 6.

635 Cafius *Leach.*

3172 Fucicola *Leach.* — *Cur.* ix. pl. 322. — *Ste. M.* v. 246. — Black; shining; slightly pilose, head large, especially in ♂, flat, irregularly punctured; thorax punctured on the sides, and, with 8 larger punctures, forming 2 rows on the disc; elytra obscure, downy, faintly punctured, dull bluish; legs pale griseous; antennæ dusky, the base of the 3 basal joints and the apical one entirely dull red. (L. 2-4½ l.) Beneath putrid fuci. Mount Edgcombe; Redcar, Yorkshire; sea-shore, Dalmeny: 5-8.

3173 xantholoma *Grav. Mo.* 41. — *Ste. M.* v. 246. — Black; shining; head orbiculate, and punctured on the sides; thorax with a large puncture towards each anterior angle, and 3 others on each side of the disc, forming 2 rows; elytra dull black, with the lateral margins testaceous; abdomen with 2 rather obscure longitudinal villose lines; legs, palpi, and antennæ dusky. (L. 3½ l.).

Var. St. lateralis *Kirby.* — *Ste. M.* v. 246. — Pitchy-black; elytra dusky, pubescent, the lateral margin dull ochreous; abdomen clothed with a fine down, in certain positions appearing tessellated with ash-colour; legs pitchy-red.

Var. Ca. littoralis *Ste. C.* No. 3015. — Elytra pale pitchy-brown, with paler margins; abdomen pale on the sides, with tessellated patches of ash-coloured down; legs red.

Var.? Ca. tessellatus *Ste. C.* No. 3016. — Rather narrow; pitchy, elytra and abdomen pale; the latter prettily tessellated with blackish and ash-coloured down; legs pale red. On the coasts; almost universally distributed: 4-8.

636 Bisnius *Leach.*

3174 cephalotes *Grav. Mi.* 22. — *Ste. M.* v. 247. — Black; head orbiculate, large, wider than thorax; the latter dark pitchy, disc with large punctures disposed in rows; elytra blackish-brass, slightly pubescent; abdomen with the margins of the segments beneath, and the apex, red; legs pitchy, tarsi red; antennæ with the 4 basal joints black, remainder ashy-red. (L. 2¾-3 l.) On sea coasts. Livingston, Suffolk; Snetisham, Norfolk; and Devonshire: 4-6.

3175 rotundiceps *Kirby.* — *Ste. M.* v. 248. — Black, rather shining; head rounded, angles slightly punctured; thorax wider than the head, with 10 deeply impressed punctures, forming 2 rows; elytra slightly pubescent, pitchy-black, with the lateral margin pale; abdomen with the segments beneath broadly red; legs rusty-red; basal joint of antennæ red. (L. 2½ l.) Coasts of Norfolk and Suffolk: 6.

3176 simplex *Leach?* — *Ste. M.* v. 248. — Shining black; head orbiculate, with 6 large punctures; thorax pitchy, with 10 large impressions in 2 rows; elytra thickly punctured, pitchy, the extreme tip reddish, outer edge slightly pale; legs pitchy-testaceous, tibiæ and tarsi darker; antennæ pitchy, base tawny. (L. 2 l.) Coast of Devon: 3-5.

3177 fuscicornis *Kirby.* — *Ste. M.* v. 248. — Black, shining; head orbiculate with 12 large punctures; thorax 4-drate, with 10 large impressions in 2 rows, and some smaller ones; elytra with the lateral margins pale at the base; legs fuscous; thighs tawny; antennæ fuscous, basal joints red. (L. 2½ l.) Suffolk: 4.

3178 fulvipes *Ste. M.* v. 249. — Blaek, shining; head very glossy, with 4 punctures between the eyes, and 2 on the angles; thorax also glossy,

with 8 punctures in 2 rows, the 3 anterior in each row almost touching; abdomen with the extreme edges of the segments pitchy-red; legs light tawny-red, tibiæ dusky; antennæ dusky, basal joint red. (L. 2 l.) London district: 4-5.

637 Gabrius *Leach.*

§ A. *Thorax* with 10 discoidal punctures, 5 in each row.

3179 suaveolens *Kirby.* — *Ste. M.* v. 249. — Black; rather shining; head oval, punctured on the sides; thorax somewhat pitchy behind, sides punctured; elytra obscure dull pitchy, thickly punctured; abdomen pitchy beneath, the margins of the segments paler; legs and palpi testaceous; antennæ pitchy, basal joints testaceous. (L. 2½ l.) On banks of rivers: Lea, at Hertford; Gipping, near Ipswich: 5-6.

3180 pygmæus *Kirby.* — *Ste. M.* v. 250. — Black, rather shining; head oblong, rather wider than the thorax, with a puncture on each side near the eyes; thorax oblong, minutely punctured on the lateral margins; elytra punctulate, shining, nearly glabrous; legs and basal joints of antennæ pitchy. (L. 1⅓ l.) Boleti: London district; Norfolk; Suffolk; Devon: 6-8.

3181 phæopus *Ste. M.* v. 250. — Black; shining; head oblong-ovate, minutely punctured on the sides, thorax the same, with the usual impressions very small; elytra nearly glabrous; legs and antennæ fuscous. (L. 1½ l.) Banks: London district; New Forest: 4-6.

3182 nanus *Grav. Mo.* 96.? — *Ste. M.* v. 251. — Black; shining; head large, punctured on the sides; thorax a little narrowed behind, with the usual lateral punctures; elytra dusky-piceous, margins rather paler, moderately punctured; margins of abdominal segments broadly pale testaceous; legs and base of antennæ testaceous. (L. 1½ l.) Banks, &c.: London district: 5-6.

3183 albipes *Ste. M.* v. 252. — Pitchy-black; head glossy, ovate, with minute lateral punctures; thorax reddish, with some scattered impressions on the sides; elytra pale pitchy, or testaceous; legs, base of antennæ, and mouth, pale testaceous. (L. 1½ l.) Banks: London district: 3-5.

3184 ventralis *Kirby.* — *Ste. M.* v. 252. — Pitchy-black, shining; pilose; head and thorax somewhat 4-drate, and thickly punctured on the sides; elytra slightly pilose; abdomen linear, pitchy-red beneath; legs, 3 basal joints of antennæ, mouth, and palpi red. (L. 2⅛ l.) Banks: London district; Bristol; Suffolk: 4-6.

3185 vernalis *Grav. Mo.* 75. — Black; shining; head ovate, rather narrower than the thorax, which is oblong, both punctured on the sides; elytra pitchy-brown, opaque; legs, base of antennæ, and mouth, testaceous-red. (L. 2½ l.) Under stones, &c.: London district: 3-5.

§ B. *Thorax* with 12 discoidal punctures, 6 in each row.

3186 aterrimus *Grav. Mi.* 41. — *Ste. M.* v. 250. — Black; shining; head oblong-ovate, its sides and those of thorax punctured; elytra nearly glabrous, punctulated; legs pitchy-testaceous; antennæ pitchy-black, with the base pitchy. (L. 1⅔-2 l.) Banks of rivers, &c.: Battersea fields; Bristol; Ipswich: 4-6.

3187 pallipes *Kirby.* — *Ste. M.* v. 250. — Black, rather shining; head rather oblong; mouth pitchy; elytra pitchy, nearly glabrous, punctulated; abdomen pitchy-black, margins of the segments and the apex dull reddish; legs pale testaceous; base of antennæ and palpi red. (L. 2¼ l.) Norfolk; Suffolk: 4-6.

3188 basalis *Ste. M.* v. 251. — Black; shining; head oblong, faintly punc-

tured on the sides; elytra nearly glabrous, distinctly punctured; abdomen with the extreme edge of the segments pitchy; thighs pale testaceous, tibiæ and tarsi dusky; antennæ pitchy, base testaceous. (L. 1½ l.) London district: 6.

3189 villosulus *Kirby.* — *Ste. M.* v. 251. — Black, slightly pubescent; head somewhat heart-shaped, rather wider than thorax, sides and base punctured; elytra reddish-pitchy; finely punctured; abdomen with the edges of the segments and the apex red-pitchy; legs and antennæ testaceous. (L. 1⅔ l.) Banks: Suffolk: 6.

3190 attenuatus *Leach.* — *Ste. M.* v. 251. — Slender; pitchy-black, shining; head oblong, faintly punctured; thorax rather obscurely punctured; elytra dull pitchy punctulate; tip of abdomen, legs, and antennæ testaceous. (L. 1¼ l.) Banks: Battersea fields; Devon: 2-4.

§ C. *Thorax* thickly punctured on the sides, disc smooth.

3191 cinerascens *Grav. Mi.* 49. — *Ste. M.* v. 252. — Black; shining; head somewhat 4-drate, thickly punctate; thorax oblong, rather closely punctulate, with a smooth dorsal line; elytra dull fuscous, opaque, slightly pubescent, very finely and thickly punctulate; legs and base of antennæ red. (L. 1¾ l.) Banks, &c.: London district; Suffolk; Devon: 3-5.

3192 semipunctatus *Kirby.* — *Ste. M.* v. 252. — Black; slightly pubescent; shining; head and thorax oblong-ovate, sides thickly punctured, disc smooth; elytra pitchy or reddish, finely punctured; legs pitchy-red, tibiæ and tarsi paler; base of antennæ red. (L. 2 l.) Stones, &c.: London district; Suffolk: 3-6.

638 HETEROTHOPS *Kirby.*

3193 binotatus *Grav. Mi.* 28. — *Ste. M.* v. 257. — Black; or pitchy; head and thorax very glossy, the former ovate, the latter with 2 dorsal punctures on each side, and a deeper one in front near the anterior angle; elytra pilose, pitchy, lateral margins paler, apex testaceous; tip of abdomen and margins of its segments, and legs, red; antennæ reddish, base paler. (L. 1¾-2¼ l.)

Var.? He. Holmensis *Kirby.* — *Ste. M.* v. 257. — Pitchy; head, thorax, and elytra black, apex of abdomen alone reddish; legs pitchy-red.

Var.? He. Kirbiellus *Ste. M.* v. 257. — Black, shining; elytra opaque, the extreme tip pitchy; legs and antennæ testaceous-red. On sea coasts: Norfolk; Suffolk; Yorkshire; Swansea; Ryde; Sussex: 5-7.

639. REMUS *Holme.*

3194 sericeus *Ent. Tr.* (*Holme*), ii. 64. — Dull black, with a golden pubescence on the elytra and abdomen; mouth red; head and thorax rather deeply punctured, the latter with a raised dorsal line; elytra flat, minutely and thickly punctured; abdomen punctured; legs and antennæ pitchy-red, or red. (L. 2½ l.) On the beach; Ryde; St. Mary's, Scilly: 6-7.

640 OTHIUS *Leach.*

3195 fulvipennis *Fab. E.* ii. 609. — *Pz. F.* xxvii. f. 23. — Ot. fulgidus *Ste. M.* v. 253. — Glossy-black; head ovate, with scattered punctures; thorax rather smooth, with 6 large punctures on each side; elytra red, punctulated; tip of abdomen, legs and antennæ red. (L. 5-5½ l.) Woods and gardens; Hampstead; Swansea; Marton; Edinburgh: 8-10.

3196 pilicornis *Pk. F.* iii. 379. — *Ste. M.* v. 254. var. — Black; shining; head ovate, wider than the thorax, pitchy-black; thorax longer than the head; elytra smooth, pitchy-black, with an obscure stria near the suture, legs and antennæ pitchy, the latter pilose: — abdomen sometimes red, with

a black ring towards the apex. (L. 3½ l.) Under bark of pines, &c. : Dorking ; Windsor : 5-6.

3197 alternans *Grav. Mi.* 48. — *Ste. M.* v. 254. — Slender, filiform ; shining red ; head black, somewhat 4-drate ; thorax narrower than the head ; elytra black, glossy, impunctate ; abdomen with a black belt towards the apex, which, with the legs and antennæ, is red, the latter slightly pilose : (L. 3-4 l.) Under bark, &c. : London and Edinburgh districts ; Marton : 5-6.

3198 glabricornis *Kirby.* — *Ste. M.* v. 254. — Slender, red ; shining ; glabrous ; head somewhat heart-shaped, wider than thorax, black ; thorax oblong, angles slightly rounded ; elytra black, reddish at the tip, smooth ; abdomen with a black belt towards the apex ; antennæ thickened at the tip, glabrous. (L. 2¾ l.) Under bark of Scotch fir : London district ; Swansea : 5-6.

3199 melanocephalus *Grav. Mo.* 107. — Ot. angustus *Kirby.* — *Ste. M.* v. 255. — Pitchy, shining ; slightly pilose ; head somewhat ovate, scarcely narrower than the thorax, black ; thorax very smooth, rusty-red ; elytra rather shorter than thorax, punctured ; legs and antennæ testaceous ; the latter pilose. (L. 2-2½ l.) Under bark : London and Edinburgh districts ; Bristol : 5-6.

3200 ater *Ste. M.* v. 255. — Black ; shining ; head ovate, and, with the thorax, smooth ; elytra dull black, finely punctured ; abdomen obscure, its tip reddish ; legs and antennæ rusty-piceous. (L. 3½ l.) Norfolk : 6.

3201 ustulatus *Grav. Mi.* 46. — *Ste. M.* v. 255. — Slender, glossy, black ; head smooth, with a few lateral impressions ; thorax a little narrowed behind ; elytra slightly punctured, black, with the lateral margins and apex red ; tip of abdomen, legs, antennæ, and palpi red. (L. 3-3½ l.) Under bark, &c. : London district : 6.

3202 læviusculus *Kirby.* — *Ste. M.* v. 255. — Black ; shining ; head finely punctured on the sides ; thorax very smooth ; elytra punctured, pitchy, sides and apex paler ; tip of abdomen reddish ; 4 anterior legs testaceous, posterior and anterior dull red. (L. 2-3 l.) Under bark : London district ; Suffolk ; Swansea : 5-6.

3203 obscurus *Leach.* — *Ste. M.* v. 256. — Black, somewhat obscure ; head nearly ovate ; elytra rather pitchy, punctulated, the punctures disposed a little in striæ ; apex of abdomen, tibiæ, and tarsi pitchy red ; thighs and base of antennæ pitchy. (L. 3¼ l.) Banks of Plym, near Ashburton : 6.

3204 subiliformis *Grav. Mi.* 29. — *Ste. M.* v. 256. — Pitchy-red ; head orbiculate, dusky ; thorax very glossy, smooth ; elytra much punctured, slightly pubescent, and glossy ; tip of abdomen pale pitchy ; legs dull pitchy ; antennæ short, dull red, with the base brighter. (L. 2½ l.) Banks : London district ; Suffolk : 5.

3205 † Scoticus *Kirby.* — *Ste. M.* 256. — Deep black ; head and thorax polished ; elytra, tibiæ, tarsi, and antennæ pitchy ; head orbiculate. (L. 4 l.) Scotland.

641 Xantholinus *Dahl.*

3206 fulgidus *Fab. E.* ii. 609. ? — St. pyropterus *Grav. Mo.* 102. — *Ste. M.* v. 258. — Deep black, very glossy ; head oblong-ovate, deeply and thickly punctured ; thorax smooth, with a short bent stria on the edge of each side ; elytra bright blood red, with a single punctured stria ; tarsi red ; antennæ reddish, 3 basal joints pitchy. (L. 4½ l.) London district : 8-4.

3207 glabratus *Grav. Mi.* 178. — Gy. cruentatus *Marsh.* i. 516. — *Ste. M.* v. 260. — Black, shining ; elytra blood-red, sides of the head and of the thorax punctured, the disc of the latter with 4 rows of large impressions ; tarsi red ; antennæ pitchy ; palpi reddish. (L. 5½-6 l.) Under stones &c. : London district ; and generally distributed : 10-4.

3208 tricolor *Pk. F.* iii. 378. — *Ste. M.* v. 261. — Testaceous red ; shining ; head pitchy-black ; sides punctured ; thorax rusty-red, disc sometimes

fuscescent, sides punctured, the inner punctures disposed in a straight line of 12 large impressions; elytra and legs testaceous; abdomen above dusky or black. (L. 4¼ l.)

Var. St. affinis *Marsh.* i. 527. — *Ste. M.* v. 261. — Pitchy; thorax with the base or entire disc black; abdomen pitchy, edges of the segments paler, Banks, &c.: London district; Norfolk; Suffolk; Devonshire; S. Wales: 4-10.

3209 punctulatus *Pk. F.* iii. 380. — *Ste. M.* v. 262. — Black, shining; head densely and roughly punctured, especially on the sides, front rather smooth, with 12 grooves; thorax with the dorsal rows with 5-12 punctures; elytra pitchy-brass, punctured, the punctures somewhat disposed in striæ; tarsi and palpi red. (L. 3-3½ l.)

Var. A. ochraceus *Gyll. M.* ii. 352. *Ste. M.* v. 262. —Elytra, antennæ and legs pitchy-red. Under stones, &c.: London district, and generally distributed: ⊙ ⁎.

3210 angustatus *Kirby.* — *Ste. M.* v. 263. — Black, shining; head punctured throughout; forehead with 2 grooves; thorax with the dorsal rows with 8-10 punctures; elytra pitchy, punctured, the punctures somewhat disposed in striæ on the sides: legs and antennæ pitchy. (L. 3 l.) Dung, &c.: London district; Suffolk: 6.

3211 quadratus *Kirby.* — *Ste. M.* v. 260. — Black; head oblong, with confluent excavated lines; thorax punctured on the sides, and the dorsal series with 10-12 punctures; elytra punctured; tip of abdomen reddish; legs and antennæ dusky- or pitchy-black; palpi dull red. (L. 3 l.) Stones: London district; Suffolk: 6.

3212 linearis *Fab. E.* ii. 599. — *Oliv. F.* iii. 42. pl. 4. f. 38. — *Ste. M.* v. 261. — Glossy-black; head and thorax brassy-black, punctured on both sides, the latter with 12 large punctures forming 2 rows on the disc; elytra pitchy-brass; legs and antennæ pitchy. (L. 3½ l.)

Var.? St. longiceps *Grav. Mi.* 177. — *Ste. M.* v. 262. — Head and thorax pitchy, with a faint brassy tinge; elytra dull red. Moss, &c.: London district, and generally distributed: ⊙ ⁎.

3213 parumpunctatus *Gyll.* iv. 481. — *Ste. M.* v. 262. — Shining; black; glabrous: head large, with 4 short frontal channels; its sides and those of the thorax punctured, the disc of latter with 2 rows of 5 impressions each; elytra pitchy, punctured, the punctures disposed in striæ on the sides; tip of abdomen pitchy; legs and antennæ dull red. (L. 3 l.)

Var.? Gy. semistriatus *Kirby.* — *Ste. M.* v. 262. — Forehead with 2 distinct bent, furrows and 2 obscure ones; elytra pitchy, the outer angles paler; legs, antennæ, and mouth red. Stones: London district: 4-6.

3214 lentus *Grav. Mo.* 101. — Flattish; black; shining; head somewhat 4-drate, thickly punctured on each side; thorax more sparingly punctured; the dorsal rows with 7-8 punctures, elytra and legs testaceous-brown. (L. 3½ l.) Stones: London district: 4-6.

3215 rotundicollis *Kirby.* — *Ste. M.* v. 259. — Black, shining; head smooth, with 2 frontal channels; thorax rather oblong, smooth with 4 longish impressions on the disc, and others on the sides; elytra testaceous-red; dusky at the base towards the suture; tip of abdomen and tarsi red; legs and basal joints of antennæ pitchy, rest of the antennæ pale red. (L. 3½ l.) Stones: Bristol; Suffolk: 6,

3216 apicalis *Kirby.* — *Ste. M.* v. 260. — Deep black; glossy; head with 4 deep frontal channels; thorax with some scattered punctures on the sides, and larger ones on the disc, forming 4 rows; elytra nearly smooth, the apex pitchy-red; legs pale; antennæ pitchy, base pale. (L. 3 l.) London district, and Norfolk: 6.

3217 procerulus *Grav. Mo.* 95. ? — *Ste. M.* v. 264. — Black, shining; head

somewhat 4-drate, thickly punctured on the sides, the forehead with 4 obscure grooves; thorax with numerous scattered punctures; elytra slightly pilose, punctured, pitchy, the apex paler; two apical segments of the abdomen pitchy; legs pitchy-testaceous; antennæ and palpi fuscous. (L. 3 l.) London district: 6.

642 Leptacinus *Erichson.*

3218 batychrus *Knoch.* — *Gyll.* iv. 480. — *Ste. M.* v. 263. — Black; shining; head large, punctured, with 4 frontal channels; thorax with the dorsal rows 12-16 punctate; elytra pitchy, the outer apical angles paler, somewhat punctate-striate; legs and antennæ dull ferruginous; base of the latter pitchy. (L. 2½ l.)

Var.? Gy. 4-sulcus *Kirby.* — *Ste. M.* v. 264. — Elytra obscurely punctate-striate; legs and antennæ pitchy. Stones: London district: 4-6.

3219 diaphanus *Marsh.* i. 514. — *Ste. M.* v. 259. — Black; shining; head broad, ovate, punctured, with 4 frontal channels; thorax rather round behind; sides punctured, the dorsal rows with 16-20 punctures; elytra pale testaceous, diaphanous, obscurely punctate-striate; legs and antennæ dull red. (L. 2½-3 l.)

Var.? Gy. longicollis *Kirby.* — *Ste. M.* v. 259. — Very black; elytra pitchy, the outer apical angles pale; legs and antennæ dusky. London district; Suffolk; York: 4-6.

3220 sulcifrons *Kirby.* — *Ste. M.* v. 260. — Deep black, shining; head oblong, punctured, with 4 deep grooves on the forehead; thorax rather narrowed behind, with 4 rows of punctures on the disc; elytra rather smooth; legs and antennæ pitchy. (L. 2 l.) London district; Suffolk; Norfolk; Devon: 4-6.

3221 pusillus *Ste. M.* v. 264. — Black, shining; sides of the head thickly punctured, disc smooth, with 4 obscure frontal grooves; thorax oblong, sides punctured, dorsal rows with about 5-8 punctures; elytra dull pitchy-black, punctured and slightly pubescent; abdomen with the edges of the segments reddish; legs, antennæ, and palpi pale. (L. 1¾ l.) Stones: London district: 6.

643 Cryptobium *Mannerheim.*

3222 fracticorne *Pk. F.* iii. 430. — *Ste. M.* v. 271. pl. xxvii. f. 1., a.—f.— Black; shining; head elongate, narrower than the thorax, moderately punctate; thorax elongate, more thickly punctured, the punctures disposed in 2 somewhat regular lines, the space between smooth; legs testaceous; antennæ pitchy-brown, basal joint black. (L. 2 l.) Grassy places: Battersea fields: 2-4.

644 Achenium *Leach.*

3223 humile *Nic. A. H.* 38. — Ac. depressum *Cur.* iii. pl. 115. — *Ste. M.* v. 265. — Black; nearly glabrous; head distinct, as wide as the thorax, the latter very glossy, sparingly punctured on the sides, and with 2 dorsal rows of impressions, the intermediate space smooth; elytra flattish, apex and that of the abdomen, with the margins of the segments, the legs and antennæ, testaceous: — elytra sometimes testaceous, with the base of suture and the outer apex dusky-brown. (L. 3½-4 l.)

Var.? Ac. depressum *Grav. Mi.* 182. — Shining black; head 4-drate, smooth, testaceous: thorax finely punctured on the sides; elytra flat, red, with the base black, the disc thickly punctured, the punctures somewhat disposed in striæ; apex of abdomen above brownish; legs red, hinder thighs and tips of the others, and the antennæ, brownish. (L. 3½ l.) Grassy places: about London; in Copenhagen fields; banks of Orwell: 1-6.

645 LATHROBIUM *Gravenhorst.*

3224 quadratum *Pk. M. S.* 29. — *Ste. M.* v. 266. — Deep black, slightly pilose and shining; finely punctured; thorax somewhat 4-drate; elytra slightly glossy; abdomen obscure, with long anal styles: legs and antennæ pitchy, or testaceous. (L. 3½ l.)

Var. La. terminatum *Grav. Mi.* 53. — *Cur.* xiv. pl. 650. — Elytra with a red spot at the tip, legs, and base and apex of antennæ, testaceous. Damp places: Battersea fields; Isle of Sheppy, Rochester; Norfolk; Suffolk; Cramond: 1-6.

3225 brunnipes *Fab. E.* ii. 609. — *Ste. M.* v. 266. — Black, shining; punctured; thorax oblong; elytra concolorous, slightly pubescent; faintly punctured; legs testaceous; mouth and antennæ red; anterior thighs and tibiæ slightly toothed. ♂ with the penult. segment of abdomen broadly and deeply notched: ♀ with a notch on each side of the same segment, and a central lacinia, rounded at the tip. (L. 3½-4 l.) Under stones, &c.: London and Edinburgh districts; generally diffused: 10-4.

3226 atriceps *Kirby.* — *Ste. M.* v. 267. — Dull red; punctulated; head somewhat ovate, black; glabrous; shining; thorax dark rust-colour, with a smooth dorsal line; elytra tawny, base dusky; abdomen obscure; legs tawny, anterior thighs with a single tooth; antennæ dull red, tip paler. (L. 3½ l.) Under stones: London district; Norfolk; York: 10-4.

3227 elongatum *L.* ii. 685. — *Pz. F.* ix. f. 12. — *Ste. M.* v. 267. — Black; shining; punctured: head somewhat 4-drate; thorax oblong, with a smooth dorsal line; elytra behind, legs and antennæ, dull red, the former thickly punctured; anterior thighs and tibiæ with a tooth. ♂ with the 6th segment of the abdomen with 2 channels, and notched; ♀ with it entire and rounded. (L. 4 l.) Under stones: London district, and widely distributed: 10-4.

3228 fulvipenne *Grav. Mo.* 104. — *Ste. M.* v. 267. — Black; shining; punctured; head somewhat heart-shaped; thorax oblong, with a minute smooth dorsal line; elytra as long as the thorax, flattish, testaceous-yellow, dusky at base, slightly pubescent; legs red; anterior thighs obscurely toothed. ♂ with penult. segment of abdomen notched beneath, but not impressed, ♀ with it conic and entire. (L. 3½ l.) Stones, &c.: London district; Rochester; Suffolk: 4-6.

3229 rufipenne *Gyll.* iii. 704. — *Ste. M.* v. 268. — Black; slightly shining; punctured; head and thorax oblong, the latter with a narrow smooth dorsal line; elytra longer than the thorax, convex; bright red, with the base black; antennæ and legs testaceous. ♂ with the penult. segment of the abdomen beneath with 3 notches, of the ♀ entire, rounded. (L. 3½ l.) Under stones: London district: 10-4.

3230 ochraceum *Marsham.* — *Ste. M.* v. 268. — Black, shining, sparingly punctured; head somewhat heart-shaped; thorax oblong, with a narrow smooth dorsal patch; elytra pale ochreous, minutely punctured; penult. segment of abdomen rather broadly edged with testaceous; legs pale ochreous; antennæ pitchy. (L. 3½ l.) Stones: London district: 10-4.

3231 punctatostriatum *Kirby.* — *Ste. M.* v. 268. — Filiform; black; slightly shining; glabrous; punctured; head somewhat heart-shaped; thorax oblong, with a smooth dorsal line; elytra rather convex, chestnut, deeply punctured, the punctures disposed in close striæ; abdomen pitchy beneath; legs testaceous-red; anterior thighs and tibiæ with a small tooth, antennæ and palpi red. (L. 3¼ l.) Under stones. London district; Dover; Bristol; Devon; Suffolk: 10-6.

3232 punctulatum *Mann. Pr.* 37. — *Ste. M.* v. 269. — Black, slightly shin-

ing; thickly punctured; head somewhat heart-shaped; thorax oblong, with a faint smooth dorsal line; elytra rather obscurely punctured, the apical half bright testaceous red; tip of abdomen pitchy; legs, antennæ, and mouth red. (L. 3½ l.) Under stones: London district: 10-4.

3233 multipunctatum *Grav. Mi. 52.* — Pitchy, or pitchy-red, shining; head and thorax oblong, thickly punctured; the latter with a smooth dorsal line; elytra slightly convex, pitchy-red, or brown; base darker, deeply punctured, the punctures disposed in lines towards the suture; legs, tip of abdomen, mouth, and antennæ testaceous; anterior thighs and tibiæ with a small tooth. (L. 3 l.) Under stones, &c.: London district: 10-4.

3234 filiforme *Grav. Mi.* 134. — La. lineare. — *Ste. M.* v. 269. — Linear-elongate, black; slightly shining, punctured; head somewhat ovate; thorax oblong; elytra rather shorter than the thorax, pitchy, punctured, the punctures somewhat disposed in striæ towards the suture; legs pitchy; antennæ dull pitchy-red. (L. 2½ l.) Damp places: London district, and generally distributed: 10-6.

3235 longulum *Grav. Mi. 53.* — *Ste. M.* v. 270. — Linear-elongate, pitchy-black, shining; head and thorax oblong, distinctly punctured; the latter with a smooth dorsal line; elytra flat, obscurely punctured; abdomen with the extreme tip pitchy-red; legs, antennæ, mouth and palpi dull red; anterior thighs with an obscure tooth. (L. 1¾ l.) Under stones: London district; Suffolk: 10-4.

3236 foveatum *Ste. M.* v. 270. — Pæ. lævigatus *Gyll.* iv. 483.? — Pitchy-black, somewhat shining, very finely punctured; head rather heart-shaped, thorax somewhat elongate-4-drate, with a deep fovea on each side near the base; elytra very finely punctured, the extreme tip slightly edged with chestnut; legs and antennæ pitchy testaceous. (L. 2 l.) Stones: London district: 10-4.

3237 nanum *Ste. M.* v. 270. — Narrow; pitchy-black; slightly shining, finely punctured; head and thorax elongate; elytra slightly pubescent, with a few scattered punctures, the tip reddish; apex of abdomen, legs and antennæ, pitchy-red. (L. 1¼ l.) Under stones: London district: 3-4.

3238 erythrocephalum *Ste. M.* v. 370. — Deep black, shining, finely punctured; head elongate, dusky-red; elytra slightly pubescent, with a few remote punctures; abdomen pitchy; legs and antennæ testaceous. (L. 1½ l.) Under stones: London district: 4.

Fam. 78. STENIDÆ *Mac Leay.*

dcxlvi. Medon *Head* large, 4-drate: *eyes* minute: *tho.* somewhat 4-drate, as wide as the head: *elytra* obliquely truncate towards the suture: *abdomen* with terminal segment long: *legs* slender: *tarsi* simple: *labrum* with a central notch: *mandibles* internally 4-dentate.

dcxlvii. Sunius *Head* moderate, somewhat 4-drate: *eyes* small: *tho.* flat, nearly 4-drate: *elytra* flat: *abdomen* with penult. segment longest: *tarsi* simple: *labrum* entire: *palpi* filiform.

dcxlviii. Astenus *Head* large, somewhat orbiculate: *eyes* small, rather prominent: *tho.* small, nearly orbiculate, flattish: *abdomen* linear, obtusely truncate at tip: *tarsi* with 4th joint bilobed, *anterior* slightly dilated.

dcxlix. Rugilus *Head* large, orbicular: *eyes* small: *tho.* small, considerably narrowed in front: *abdomen* broad; penult. segment longest, apex obtuse: *tarsi* entire: *labrum* with 2 prominent teeth in front: *palpi* somewhat clavate.

dcl. Pæderus *Head* large, orbicular: *eyes* small: *tho.* very convex, obovate, as large as the head: *abdomen* with penult. segment longest; the terminal in

the ♀ with 2 pilose styles: *legs* long, slender; *tarsi* with 4th joint bilobed, *anter.* dilated.

dcli. Dianoïs *Head* large, somewhat 3-angular: *eyes* moderate, prominent *tho.* elongate-cylindric, notched: *abdomen* margined, its apex with 2 long naked setæ: *tarsi* with 4th joint slightly bilobed: *labium* not elongated.

dclii. Stenus *Head* very large, somewhat 3-gonate: *eyes* very large and prominent: *tho.* elongate-ovate: *abdomen* convex, its apex simple: *tarsi* with 4th joint slightly bilobed: *labium* elongate, retractile.

dcliii. Evæsthetus *Head* large, 3-angular-orbiculate: *eyes* globose, prominent: *tho.* obcordate, foveolated: *body* linear, somewhat cylindric: *tarsi* entire: *ant.* clavate: *max palpi* long, 3-jointed.

646 Medon *Stephens.*

3239† Ruddii *Ste. M.* v. 273. pl. xxvii. f. 2. *a-f.* — Black, shining, glabrous; smooth; antennæ, elytra, tip of abdomen, and legs pitchy red; apex of mandibles dusky. (L. 3¼ l.) New Forest: 6.

3240 brunneus *Eric. K.* i. 513. — Pale pitchy-red; head oblong, very thickly punctured; disc of thorax thickly, sides sparingly, punctured; elytra rather larger than the thorax, finely punctured. (L. 2 l.) Banks: London district: 6.

647 Sunius *Leach.*

3241 melanocephalus *Fab. E.* ii. 610. — *Ste. M.* v. 274 — *Shuck. B. C.* pl. 18. f. 2. — Filiform; black, shining; rather thickly punctured; thorax red, minutely punctured; elytra pitchy; legs tawny; antennæ and palpi red. (L. 1½-1¾ l.)

Var.? St. tricolor *Marsh.* i. 516. — *Ste. M.* v. 275. — Thorax fulvous, dusky in front; elytra pitchy-red; tip of abdomen reddish. Under stones in sandy places; generally distributed: 3-6.

3242 unicolor *Rudd.*? — Slender; dull fuscous-black, opaque; legs, palpi, and antennæ slightly piceous. (L. 1½ l.) Banks: Ryde: 6.

3243 marginalis *Stephens.* — Slender; fuscous-black, opaque; legs, palpi, antennæ, tip of the abdomen and edges of its segments, pitchy-red. (L. 1½ l.) Banks: London district: 5-6.

3244 ochraceus *Grav. Mi.* 59.? — *Ste. M.* v. 275. — Pitchy-red; head black; elytra pubescent, smooth; legs pale testaceous; palpi and antennæ red. (L. 1¾ l.) Under stones. London district; Bristol; Suffolk: 4-6.

3245 rubricollis *Grav. Mo.* 138. — *Ste. M.* v. 275. — Dusky-red; shining; head obscure; mouth, thorax, and antennæ red; legs pale; elytra dusky-red, with a slight griseous pile. (L. 1½ l.) Under stones: London district; Dover: 1-6.

648 Astenus *De Jean.*

3246 brunneus *Kirby.* — *Ste. M.* v. 276. — Red-brown; obscure; slightly pubescent; minutely punctured; head dusky; eyes black; thorax with a faint dorsal ridge; elytra flattish towards the suture, rather coarsely punctured; legs, palpi, and antennæ dull red. (L. 1½-2¼ l.) Roots of grass: Battersea fields; Levington, Suffolk: 4-6.

3247 angustatus *Fab. E.* ii. 599. — *Don.* xvi. pl. 573. f. 1. — *Ste. M.* v. 276. — Black, obscure; thickly punctured; head orbiculate, narrowed in front; elytra with the tip testaceous; legs and antennæ testaceous-yellow. (L. 1½ l.) Damp meadows; widely distributed: 4-6.

3248 immaculatus *Kirby.* — *Ste. M.* v. 276. — Black; obscure, glabrous; finely punctured; head somewhat orbiculate; elytra spotless; abdomen with the edges of the segments above and below pale yellow; legs and antennæ paler yellow. (L. 1½ l.) Grassy places: London district: 1-4.

3249 dimidiatus *Kirby.* — *Ste. M.* v. 277. — Narrow; black; obscure; glabrous; head 3-angular, chestnut; thorax also chestnut, narrowed in front; with a faint dorsal ridge; elytra rather convex and punctulated; legs and antennæ testaceous; palpi red. (L. 1½ l.) Grassy places: London district; Suffolk: 4-6.

3250 sulcicollis *Kirby.* — *Ste. M* v. 277. — Black; shining; head somewhat orbiculate, thorax reddish, with a short excavated line towards the hinder margin; elytra punctured, spotless; abdomen with the edges of the segments reddish; legs and antennæ also reddish. (L. 1½ l.) Damp grassy places: Dover and Winchelsea: 6-8.

649 Rugilus *Leach.*

3251 orbiculatus *Fab. E.* ii. 609. — *Pz. F.* xliii. f. 21. — *Ste. M.* v. 278. — Black; obscure; glabrous; minutely rugose-punctate; thorax with a slightly raised smooth line; elytra pitchy-black, with the tip and the legs testaceous; antennæ and palpi brown. (L. 2-2½ l.)

Var. Pæ. immunis *Kirby.* — *Ste. M.* v. 278. — Elytra with the apex concolorous; legs and antennæ brown. Under stones, &c.; generally distributed: ⊙.

3252 punctipennis *Kirby.* — *Ste. M.* v. 278. — Black; slightly pilose; minutely punctured; head large, orbiculate; thorax with a very obscure raised dorsal line; elytra brassy-black, spotless; legs testaceous, tips of the 4 hinder thighs dusky; antennæ and palpi red. (L. 2½-3 l.) Under stones, &c.: London district; Suffolk; Devon: 1-6.

3253 † fragilis *Grav. Mi.* 140. — *Cur.* iv. pl. 168. — *Ste. M.* v. 278. — Black; rather shining; finely punctured; thorax bright red, or testaceous, with a smooth dorsal channel; elytra pitchy, the extreme edge reddish; legs pale red; antennæ pale testaceous, the tip brighter. (L. 2½ l.) Moss, &c.; Walthamstow; Epping Forest; New Forest; Humby, Lincolnshire: 1-6.

650 Pæderus *of Authors.*

3254 littoralis *Grav. Mi.* 61. — Pæ. riparius *Oliv. E.* iii. 44. pl. 1. f. 2. — *Don.* v. pl. 167. — *Ste. M.* v. 280. — Wingless; robust; shining red; head, mandibles, apex of abdomen, breast, hinder coxæ, and knees black; elytra blue, or greenish, coarsely punctured; thorax glabose, somewhat orbiculate: antennæ fuscous, base and apex testaceous. (L. 3½-4 l.) Roots of trees, grass, moss, &c.: London district, in Richmond Park, and at Ripley abundant; widely dispersed: ⊙.

3255 riparius *L.* ii. 684. — *Pz. F.* ix. f. 11. — Pæ. littoralis *Ste. M.* v. 279. — Shining red; head, apex of abdomen, breast, and tips of thighs black; elytra blue or greenish, rather coarsely punctured; thorax oblong; antennæ black, with the base testaceous; mandibles and coxæ red. (L. 3½-4 l.) On borders of large rivers: near Southampton; Devon; Carlisle; Cambridge: ⊙.

3256 longipennis *Eric. K.* i. 517. — Shining red; head, apex of abdomen, breast, and tips of thighs black; elytra elongate, blue, coarsely punctured; thorax oblong, with the sides parallel; antennæ black, with the 3 or 4 basal joints pale red; tips of tibiæ and of tarsi blackish: mandibles pitchy. (L. 3¼ l.) Banks: London district; Hants: 4-8.

3257 fuscipes *Cur.* iii. pl. 108. — *Ste. M.* v. 280. — Shining red; head, tip of abdomen, breast, and apex of thighs black; tibiæ and tarsi pitchy-brown; elytra dark blue or deep green; coarsely punctured and shortish; thorax oblong; mandibles and coxæ bright red; antennæ black, the base testaceous. (L. 2-3 l.) On bushes: Clandon Common; New Forest: 5-6.

3258 ruficollis *Fab. E.* ii. 608. — *Pz. F.* xxvii. f. 22. — *Ste. M.* v. 281. — Black; slightly shining; head bluish-black; thorax bright red, very convex; elytra deep blue, coarsely punctured; legs and antennæ black; basal joint of the latter testaceous beneath. (L. 3 l.) On the coasts: Swansea and Barmouth: 5-7.

3259 sanguinicollis *Ste. M.* v. 281. — Violet, shining; head orbiculate, punctured; thorax bright red, obcordate; elytra bright blue, thickly punctured; abdomen black, its apex bluish; legs and antennæ wholly black. (L. 3 l.) North coast of Devon and coast of Glamorganshire: 6.

651 Dianoüs *Leach.*

3260 cærulescens *Gyll.* ii. 463. — *Cur.* iii. pl. 107. — Di. rugulosus *Ste. M.* v. 436. — Blue-black, rather obscure, punctured, clothed beneath with a whitish down; elytra each with a round central tawny red spot; legs long; tibiæ, tarsi, and antennæ black. ♂ with the penult. segment of the abdomen deeply notched. (L. 2-2½ l.) Damp places: Southgate; Hastings; Spitchweek and Woodland, Devon; Roslyn Castle and banks of Annan, &c.: 5-9.

652 Stenus *Latreille.*

§ A. *Abdomen* margined. *a. Elytra* spotted.

3261 bimaculatus *Gyll.* ii. 466. — *Ste. M.* v. 301. — Black; thickly and deeply punctured, and with a scanty whitish pile; thorax with a deep dorsal furrow; elytra with a round tawny spot; legs tawny; knees and tarsi black; palpi luteous, tip dusky. (L. 3 l.) In damp places: London district; Yorkshire; S. Wales: 5-6.

3262 biguttatus *L.* ii. 685. ? — *Samou.* pl. 4. f. 13. — *Ste. M.* v. 302. — Black, with a brassy tinge; very thickly and deeply punctured; with a delicate silvery pile; thorax with a short basal impression; elytra with a round yellow dot; legs black; antennæ pitchy; palpi ochreous, with the tip black. (L. 2-2½ l.) Damp places: Hertford; Ripley; Suffolk; Norfolk: 5-6.

3263 guttula *Ger. M.* (*Müll.*) iv. 225. — St. Kirbii *Leach.* — *Cur.* iv. pl. 164. — *Ste. M.* v. 302. — Black; densely and deeply punctured, clothed with a thick golden-ashy pile; thorax with the disc uneven; elytra coarsely punctured, with a round ochreous spot; legs ochreous; tips of thighs, tibiæ, and tarsi, and base of tibiæ, dusky-black; palpi pale, with the tip dusky. (L. 1¼-2 l.) On the banks of the Croydon canal; in Yorkshire; Devon; Suffolk: 5-6.

3264 bipunctatus *Kirby.* — *Ste. M.* v. 302. — Black, with a brassy tinge; closely and deeply punctured, with a dense whitish pile; thorax with an obscure channel; elytra impressed behind the suture, coarsely punctured, with a tawny central dot; legs black, base of thighs and the tibiæ luteous. (L. 1¾-2 l.) Damp places: Coombe Wood; Norfolk; Suffolk; Carlisle; Devon: 5-6.

3265 bipustulatus *L.* ii. 685. — *Ste. M.* v. 303. — Black, glabrous, rather obscure; thickly and coarsely punctured; thorax with a basal impression; elytra flattish near the suture, coarsely punctured, with a round rusty dot in the middle; legs black; base of palpi testaceous. (L. 2¼ l.) Damp places: Hampstead; Hertford; Lancashire; Swansea: 5-7.

3266 bimaculosus *Stephens.* — St. binotatus *Kirby.* — *Ste. M.* v. 303. — Black, slightly punctured, with a pale ashy pile; thorax narrowed behind; elytra unequal, pitchy, with a round tawny spot behind the middle; legs, antennæ, and palpi black. (L. 2½ l.) Damp places: London district; Norfolk: 5-7.

b. Elytra not spotted. 1. *Legs* black.

* *Abdomen* with apex styliform: — ZOLMÆNUS *Leach.*

3267 Juno *Pk. F.* iii. 433. — *Ste. M.* v. 303. — Black; rather glossy; deeply punctured; with a scanty whitish pile; thorax with an obsolete channel, and foveated; elytra coarsely punctured; forehead with 2 furrows; palpi testaceous, tip brown; ♂ with the hinder thighs and tibiæ thickened, the penult. ventral segment deeply notched, the antepenult. also notched, and with two ridges. (L. 2-2½ l.) Damp places, common: London district; Bristol; Devonshire; Swansea: ⊙ ✶.

* * *Abdomen* with apex simple.

3268 pubescens *Kirby.* — *Ste. M.* v. 297. — Black; thickly and minutely punctured; with a very fine pubescence; thorax slightly narrowed behind; elytra with the surface foveolated; abdomen very obsoletely punctured, smooth; antennæ shorter than the thorax, pale testaceous, with the club black; palpi black. (L. 3 l.) Damp places: London district; Norfolk; Suffolk; Devon; Bristol; Bayford, Lincolnshire: 4-6.

3269 lævior *Kirby.* — *Ste. M.* v. 297. — Deep black, faintly punctured; clothed with an ashy pile; front with 2 channels; thorax with 2 obscure basal foveæ; elytra smooth, with a depression on the suture; legs slender, black; antennæ pitchy at the base. (L. 2½ l.) Damp places: London district; Norfolk; Suffolk: 4-6.

3270 buphthalmus *Grav. Mi.* 156. — *Ste. M.* v. 296. — Black; opaque; very thickly and deeply punctured, with a scanty silvery pile; thorax oblong, with an obscure channel; elytra as long as the thorax, convex; abdomen thickly and rather deeply punctured; tarsi fuscous; antennæ short, black; palpi pitchy, basal joint pale. ♂ with penult. segment of abdomen beneath notched. (L. 2-2¼ l.) Damp places: Battersea fields; Bristol; Devon: 4-8.

3271 lineatulus *Kirby.* — *Ste. M.* v. 296. — Black, thickly punctured, slightly pubescent; head with 2 frontal grooves; thorax elongate, roughly punctured, the base rather foveolated; tarsi longish, slender; base of abdominal segments with a faint longitudinal ridge; palpi reddish, tip black. (L. 2¾ l.) Damp places: London district; Suffolk; Norfolk: 4-6.

3272 lævis *Marsham.* — *Ste. M.* v. 297. — Black; obscure, slightly punctured, and rather pubescent; head obscurely 2-canaliculate; thorax moderately punctured; the sides rough; elytra minutely punctured; tarsi fuscous; antennæ pitchy, the 2 basal and the 3 apical joints black; palpi black, the base pitchy. (L. 2 l.) Damp places: London district: 6.

3273 pallitarsus *Kirby.* — *Ste. M.* v. 298. — Black; very finely and thickly punctulated; with a short silvery pile; head with 2 shallow frontal channels; thorax short, ovate, not foveolated; elytra very finely punctured, the base foveolated; legs dusky, tarsi reddish; antennæ dull red, club black; palpi reddish. (L. 2 l.) Damp places: Darenth; Norfolk; Suffolk; Devon: 4-6.

3274 pilosulus *Kirby.* — *Ste. M.* v. 298. — Black; finely and closely punctured; with a fine silvery pile; head obscurely 2-canaliculated; thorax somewhat cylindric, with an obscure bent basal impression; elytra flattish towards the suture; abdomen distinctly punctured; antennæ short, testaceous, basal joint and club dusky; palpi black, basal joint palish. (L. 2 l.) Damp places: Norfolk; Suffolk; New Forest: 5-6.

3275 canaliculatus *Gyll.* iv. 501. — St. affinis *Kirby.* — *Ste. M.* v. 298. — Deep black; densely and deeply punctured; with a slight ashy pile; forehead flat; thorax oblong, obcordate, with a faint channel; elytra rather

longer than the thorax ; obscurely punctured towards the suture ; abdomen moderately punctured ; antennæ and palpi black. (L. 1¾-2 l.) Damp places : London district ; Barham ; Devon : 3-5.

3276 angustatus *Kirby.* — *Ste. M.* v. 299. — Slender ; black ; obscure ; finely punctured ; thorax obcordate, with a faint dorsal channel and 2 basal foveæ ; elytra much longer than the thorax, delicately punctured, flattened ; abdomen much attenuated at the apex ; antennæ dull red, with the club dusky ; palpi testaceous. (L. 1½-2 l.) Damp places : London district ; Suffolk : 6.

3277 melanopus *Marsh.* i. 528. — *Ste. M.* v. 299. — Black ; rather shining and glabrous ; roughly punctured ; thorax short ; with a short faint dorsal line ; elytra longer than the thorax, coarsely punctured ; flattish near the suture ; antennæ and palpi black. (L. 1½ l.) Damp places : London district ; Norfolk ; S. Wales : 4-8.

3278 melanarius *Kirby.* — *Ste. M.* v. 299. — Black ; somewhat obscure ; roughly punctured ; thorax somewhat cylindric, without dorsal channel or foveæ ; elytra wider, but not longer, than the thorax, flattened towards the suture ; abdomen smooth, base of the segments flat ; legs, antennæ and palpi black ; (L. 1½ l.) Damp places : London district ; Suffolk ; Norfolk ; New Forest : 3-6.

3279 carbonarius *Gyll.* iv. 505. — *Ste. M.* v. 300. — Black ; opaque ; very thickly and deeply punctured ; with a slight whitish pile ; thorax oblong, flattish, with an obsolete dorsal channel and 2 or more faint basal foveæ ; elytra as long as the thorax, flattish ; abdomen finely punctured : legs, antennæ, and palpi black. (L. 2¼ l.) Damp places : Battersea fields ; Devon : 4-6.

3280 nitidus *Kirby.* — *Ste. M.* v. 300. — Deep glossy black, very globose, punctured ; thorax somewhat globose, equal, with a minute impression on each side ; elytra scarcely longer than the thorax ; abdomen smooth, faintly margined ; legs dusky ; antennæ testaceous, basal joint and club black ; palpi testaceous, apex dusky. (L. 1¾ l.) Damp places : Battersea fields ; Devon : 4-6.

3281 nitens *Kirby.* — *Ste. M.* v. 300. — Cylindric ; deep shining black ; with a short whitish pile ; head, thorax, and elytra coarsely punctured ; the latter as long as the thorax ; abdomen finely punctured, and slightly margined ; antennæ pitchy, the 2 basal joints black ; palpi pale, with the apical joint black. (L. 1⅔ l.) Damp places : London district ; Suffolk : 4-6.

3282 pusillus *Kirby.* — *Ste. M.* v. 301. — Black ; densely punctate ; with a slight whitish pile ; forehead deeply excavated ; thorax somewhat globose, roughly punctured, and with 2 basal foveæ ; abdomen very finely punctured, slightly margined ; antennæ and palpi black, basal joint of the latter testaceous. (L. 1 l.) Damp places : London district ; Suffolk ; Devon : 4-6.

3283 nanus *Ste. M.* v. 301. — Black, rather finely punctured ; with a slight palish pile ; thorax elongate, the disc convex, not foveolated ; elytra longer than the thorax, foveolated ; abdomen robust, short ; legs dusky ; antennæ and palpi pitchy at the base. (L. 1 l.) Damp places : London district ; Woodland, Devon : 2-6.

2. *Legs* pale, or pitchy.

3284 phæopus *Kirby.* — *Ste. M.* v. 288. — Black, finely punctured, with a scanty, short, silvery pile ; thorax rounded, globose, equal ; elytra with an oblong fovea in the middle of the base, flat near the suture ; legs pitchy ; antennæ testaceous, basal joint and club dusky ; palpi with base testaceous. (L. 1½ l.) Damp places : London district ; Suffolk ; Norfolk ; Devon : 4-8.

3285 picipes *Kirby.* — *Ste. M.* v. 288. — Black; finely punctured; with a slightly silvery pile; thorax globose, with an oblique impression on each side behind the middle; elytra obsoletely foveolated before the middle; abdomen subulate conic; legs pitchy, knees dusky; antennæ reddish, club black; palpi red. (L. 1⅔ l.) Damp places: London district; Bristol: 4-6.

3286 argyrostoma *Ste. M.* v. 288. — Slender; black; thickly and finely punctured; with a slight whitish pile; thorax rounded, slightly convex; abdomen acute at tip; legs and antennæ pitchy; labrum testaceous, clothed with a silvery pile. (L. 1½ l.) Damp places: Battersea fields: 2-4.

3287 fuscipes *Grav. Mi.* 157. — *Ste. M.* v. 289. — Black; rather shining; thickly punctured; with a griseous pile; forehead obsoletely channelled; thorax oblong, equal; elytra as long as the thorax, convex; abdomen slightly margined, shining; legs rusty-pitchy, thighs reddish; antennæ pitchy, 2 basal joints black; palpi fuscous, basal joint ochreous. (L. 1½ l.) Damp places: London district; Dover; Bristol; Norfolk: 4-6.

3288 flavipes *Kirby.* — *Ste. M.* v. 289. — Black; shining; delicately punctured; thickly clothed with a velvety silvery pile; head flat; thorax with a 3-angular smooth space on the disc; elytra flat, pitted at the base towards the suture; abdomen linear; legs pale luteous; antennæ luteous, the basal and the 2 apical joints black; palpi ochreous. (L. 1½-1½ l.) Damp places: London district; Devon; Suffolk; Norfolk; Yorkshire: 4-6.

3289 circularis *Grav. Mi.* 157. — *Ste. M.* v. 289. — Black; very slightly shining; glabrous; roughly punctured; thorax somewhat globose, equal; elytra coarsely punctured; abdomen conic; legs and antennæ testaceous; palpi reddish. (L. 1-1¼ l.) Damp places: London district; Suffolk: 4-6.

3290 immunis *Marsh.* i. 528. — *Ste. M.* v. 290. — Black, rather glabrous; moderately punctured; thorax somewhat elongate, obsoletely impressed; elytra coarsely punctured; with an obscure basal impression; abdomen conic, faintly margined and delicately punctured; legs testaceous; antennæ and palpi testaceous-yellow, club of the former black. (L. 1½-2 l.) Damp places: London district; Norfolk: 4-6.

3291 subrugosus *Ste. M.* v. 290. — Brassy-black, shining; somewhat ruggedly punctured, furnished with 2 obscure depressions; thorax rather elongate, with a faint dorsal channel terminating in a basal fovea, and 2 other foveæ on the disc; elytra finely punctured; legs pale ochreous; antennæ rusty-ochreous; palpi pale. (L. 2 l.) Damp places: Battersea fields: 3-6.

3292 Ossium *Kirby.* — *Ste. M.* v. 290. — Black; slightly pilose; finely punctured; thorax elongate, and with the elytra deeply pitted, the former with a dorsal channel; abdomen elongate-conic; legs testaceous, knees black; antennæ pale red, base and apex black. (L. 1½ l.) Damp places: London district; Norfolk; Suffolk; Devon: 11-4.

3293 tenuicornis *Ste. M.* v. 291. — Black; somewhat opaque, thickly and finely punctured; thorax slightly narrowed behind, with a faint dorsal channel; elytra coarsely punctured and pitted; abdomen faintly margined; legs pale, outer tip of thighs and of tibiæ dusky; antennæ long, slender, pale, the 2 basal joints black. (L. 1½ l.) Damp places: Battersea fields; Bristol; Devon: 4-7.

3294 geniculatus *Ste. M.* v. 291. — Broad; black, slightly glossy; thickly and coarsely punctured; thorax elongate, with a dorsal channel, and 2 basal foveæ; elytra finely punctured, with the base impressed; abdomen deeply margined; thighs at the base and the middle of the tibiæ tawny,

rest of the legs black; antennæ rusty, base black, palpi pale. (L. 2 l.) Damp places: London district; Devon: 4-6.

3295 gonymelas *Kirby.* — *Ste. M.* v. 291. — Brassy-black, punctured, nearly glabrous; thorax longish, roughly punctured, and obscurely foveolated; elytra longer than the thorax, coarsely punctured, and impressed at the base; legs reddish, apical half of the thighs black; antennæ short; palpi reddish, tip black. (L. 2 l.) Damp places: London district; and generally distributed: ⊙.

3296 Aceris *Kirby.* — *Ste. M.* v. 292. — Slender; brassy-black; punctulated; nearly glabrous; forehead slightly 2-canaliculated; thorax obscurely foveolated; elytra faintly impressed; abdomen slightly margined; legs tawny-yellow; apex of the hinder thighs sometimes dusky; antennæ yellowish, club dusky; palpi yellow. (L. 2 l.) Damp places: London district; Suffolk; Devon; Scotland: 4-6.

3297 Juncorum *Leach.* — *Ste. M.* v. 292. — Shining black, with a brassy tinge; punctured; thorax short, slightly foveolated at the base; elytra faintly impressed; abdomen a little margined; legs pale, hinder thighs with the apex broadly black, base of hinder tibiæ black; palpi and middle of antennæ pale, base and apex of the latter black. (L. 2 l.) Damp places: London district; in Battersea fields; Devon; Bristol; Crwmlyn Bog, &c.: 3-5.

3298 nitidiusculus *Kirby.* — *Ste M.* v. 292. — Black; shining, very thickly punctured, and clothed with a scanty silvery pile; thorax rather long, with 2 smooth basal impressions, elytra finely punctured and foveolated towards the base; abdomen slightly margined; legs testaceous; apex of thighs and base of tibiæ dull black; antennæ and palpi testaceous, tipped with black. (L. 2¼ l.) Damp places: London district; Suffolk: 3-5.

3299 punctatissimus *Ste. M.* v. 293. — Black, shining, very thickly and finely punctured; thorax with a faint dorsal channel; abdomen strongly margined; legs pale, with the extreme tip of the thighs and the base of the tibiæ and tarsi black; antennæ fuscous, with the 2 basal joints black; palpi pale. (L. 2¼ l.) Damp places: London district; Suffolk; Norfolk; Bristol; Spitchweek, Devon.: 4-6.

3300 nigricornis *Kirby.* — *Ste. M.* v. 293. — Black, opaque, very thickly punctured; thorax attenuated at both ends the disc with an obsolete channel; elytra roughly punctured; legs livid testaceous, knees and tarsi blackish; palpi livid. (L. 2½ l.) Damp places: London district; Bantham, Devon; and generally distributed: ⊙.

3301 Boops *Grav. Mo.* 227. — *Ste. M.* v. 293. — Black; opaque; thickly punctured; front with 2 deep grooves; thorax widest in the middle, with a distinct dorsal channel; legs dusky black, with the base of the thighs and tip of the tibiæ testaceous; antennæ fuscous, with the basal joint obscure; palpi testaceous with the tip dusky. (L. 2¼ l.)

Var. St. clavicornis *Fab. E. S.* ii. 527.? — *Ste. M.* v. 294. — Legs tawny, with the tips of the thighs and the tarsi black; palpi tawny. Damp places: London district; Norfolk; Bristol; S. Wales, &c.: 4-6.

3302 atricornis *Ste. M.* v. 294. — Black; shining, thickly punctured; thorax unequal, with a basal impression; elytra finely punctured, with the surface even; legs tawny; apex of thighs, base of tibiæ, and the tarsi dusky; antennæ and palpi black. (L. 2½-3 l.) Damp places: London district; Suffolk; Norfolk; Devonshire: 4-6.

3303 canaliculatus *Kirby.* — *Ste. M.* v. 294. — Black; rather obscure; roughly punctured; forehead with 2 slight channels; thorax with an obscure central fovea, and slightly foveolated on the disc: abdomen with a short longitudinal ridge at the base of its segments; legs livid testaceous;

knees, and outside of the tibiæ and tarsi, black; antennæ dull red, basal joint black; palpi paler. (L. 2¼ l.) Damp places: London district; Suffolk; Norfolk; Devon; South Wales, &c.: ⊙.

3304 submarginatus *Kirby.* — *Ste. M.* v. 295. — Black; rather glossy; punctured; forehead with a glossy ridge; thorax with an obscure dorsal channel; abdomen very slightly margined; legs dirty brown, the base of the thighs rather tawny; middle of the antennæ testaceous, base and apex, and the palpi, black. (L. 1½ l.) Damp places: London district; Bristol; New Forest; South Wales: 4-6.

3305 sulcicollis *Kirby.* — *Ste. M.* v. 295. — Black, with a brassy tinge; shining; punctured; thorax broad, short, with a short deepish dorsal channel; elytra longer than the thorax, finely punctured; abdomen strongly margined; legs pitchy-red; tarsi paler; antennæ dusky. (L. 1½ l.) Damp places: London district; Suffolk; Devon: 4-6.

3306 bifoveolatus *Gyll.* iv. 500. — *Ste. M.* v. 395. — Short; deep black; shining; rather deeply punctured: thorax convex, oblong, with 2 distinct bent foveæ at the base; elytra rather convex, thickly punctate; thighs pitchy-red, tips black; tibiæ pitchy-brown; antennæ testaceous, basal and 3 terminal joints black. (L. 1½ l.) Damp places: London district; Bristol; Devon: 4-6.

§ B. *Abdomen* rounded, not margined.

a. Legs pale, or varied.

3307 oculatus *Grav. Mi.* 155. — *Ste. M.* v. 282. — Bluish-black, with a whitish pile; finely and thickly punctured; legs tawny, knees dusky or black; antennæ rather long, testaceous, the basal joint black; palpi tawny. (L. 2-2½ l.) Damp places: London district; and generally distributed: ⊙.

3308 scabrior *Kirby.* — *Ste. M.* v. 282. — Deep black; shining; pubescent: thickly and very coarsely punctured; thorax rounded, equal; thighs red, black at the tip; tibiæ with the extreme tip dull red; tarsi black; antennæ black, base dull red; palpi red. (L. 2½ l.) Damp places: London district; Spitchweek, Devon: 4-6.

3309 cicindeloides *Grav. Mi.* 155. — *Ste. M.* v. 283. — Black; rather shining; very deeply and very coarsely punctured; slightly pubescent; thorax oblong; abdomen rather finely punctured; legs pale testaceous; tips of the thighs and base of the tibiæ broadly black; palpi and antennæ pale, with the tip dusky. (L. 2½ l.) Damp places: London district; Devon; South Wales: 2-6.

3310 cognatus *Ste. M.* v. 283. — Black; shining; with a brassy tinge; deeply punctured; thorax oblong, with 2 shallow foveæ; abdomen rather deeply punctured; base of thighs tawny, their apex, tibiæ, and tarsi black; palpi and base of antennæ pale. (L. 2 l.) Damp places: Devon: 4-6.

3311 similis *Kirby.* — *Ste. M.* v. 283. — Flattish; deep black; rather shining; minutely punctured; with a fine whitish pile; abdomen rather more strongly punctured; thighs tawny; tibiæ and tarsi pitchy, or pale tawny; middle of antennæ and palpi pale pitchy. (L. 1½ l.) Damp places: Battersea fields; Woodland, Devon: 3-4.

3312 fulvicornis *Kirby.* — *Ste. M.* v. 284. — Very black, rather obscure, minutely punctured: thorax cylindric, the sides rounded; base of elytra impressed; legs fuscous, tarsi paler, middle of antennæ tawny, 2 basal and 3 terminal joints black; palpi pale, with the tip black. (L. 1¾ l.) Damp places: London district; Barham, Devon: 4-6.

3313 pallipes *Grav. Mo.* 233. ? — *Ste. M.* v. 284. — Pitchy-black; slightly shining; deeply punctured; with a short whitish pile; thorax with 2 obscure bent foveæ at the base, and a smaller one between; elytra less

deeply punctured; abdomen slightly margined; legs pale testaceous; palpi testaceous, tip dusky; antennæ pale, the basal and 3 apical joints black. (L. 1½ l.) Damp places: London district: 4-6.

3314 Marshami *Ste. M.* v. 284. — Black, minutely and thickly punctured; with a short whitish pile; legs, antennæ, and palpi pale red, tips of thighs and base of antennæ dusky. (L. 1½ l.) Damp places: London district: 4-6.

3315 brunnipes *Kirby.* — *Ste. M.* v. 285. — Black, somewhat glabrous; finely punctured; thorax obcordate; legs pitchy-brown; antennæ and palpi black. (L. 1½-1¾ l.) Damp places: London district; Bristol; Devon: 2-5.

3316 curvipes *Kirby.* — *Ste. M.* v. 285. — Black; slightly shining; thickly punctured; thorax globose; abdomen slightly margined; legs pitchy-red, hinder tibiæ bent at the base; antennæ pitchy-black; palpi black. (L. 1½ l.) Damp places: London district; Norfolk: 4-6.

b. Legs black.

3317 nigriclavis *Kirby.* — *Ste. M.* v. 285. — Black; thickly punctured; densely clothed with whitish pile: thorax cylindric, somewhat ovate, roughened with closely set punctures; legs totally black; antennæ red; 2 basal joints and club black; palpi red, with the apex black. (L. 2¼ l.) Damp places: London district; Suffolk; Norfolk; Bristol; Devon: 4-6.

3318 tarsalis *Gyll.* ii. 472. — *Ste. M.* v. 286. — Bluish-black; thickly punctured; clothed with a short thick silvery pile; abdomen rather finely punctured; legs black; tarsi dilated, pale testaceous; palpi testaceous, tip dusky; antennæ pale testaceous, basal joint black, 3 apical ones dusky. (L. 2½ l.)

Var. ? St. rufitarsis *Kirby.* — *Ste. M.* v. 286. — Tarsi, antennæ, and palpi red, tips of the 2 last pitchy or dusky; mandibles reddish.

Var. ? St. flavitarsis *Wilkin.* ? — *Ste. M.* v. 286. — Tarsi reddish-yellow; antennæ and palpi pale testaceous, with black tips. Damp places: London district; Norfolk; Suffolk; Darenth; New Forest: 4-7.

3319 unicolor *Kirby.* — *Ste. M.* v. 286. — Black; slightly shining; punctured; glabrous; thorax rounded; abdomen finely punctured, base of the segments flat; legs, antennæ, and palpi black, basal joint of the last sometimes yellowish. (L. 1½ l.) Damp places: Battersea fields; Norfolk; Suffolk, &c.: 4-6.

3320 assimilis *Kirby.* — *Ste. M.* v. 287. — Black; slightly shining; glabrous; punctured; thorax somewhat glabrous; elytra convex; abdomen linear, cylindric, finely punctured; legs fuscous; antennæ and palpi black. (L. 1 l.) Damp places: London district; Suffolk; Woodland, Devon: 2-6.

3321 fornicatus *Kirby.* — *Ste. M.* v. 287. — Black; rather shining; scantily clothed with a fine shortish pile; roughly punctured; thorax nearly glabrous, convex; elytra convex, arched; abdomen conic; antennæ and palpi black, base of the latter pale. (L. 1⅛ l.)

Var. ? St. crassus *Kirby.* — *Ste. M.* v. 287. — Thorax somewhat obcordate; abdomen faintly margined; legs fuscous. Damp places: London district; Suffolk: 2-6.

3322 gracilis *Ste. M.* v. 288. — Slender; deep black; minutely punctured; with a short whitish pile; thorax somewhat glabrous; elytra with a faint ridge at the base; legs and palpi black; antennæ pale, basal and 3 apical joints fuscous. (L. 1½ l.) Damp places: London district: 4-6.

653 Evæsthetus *Gravenhorst.*

3323 scaber *Grav. Mo.* 202. — *Ahr. F.* vii. f. 13. — *Ste. M.* v. 329. — Black; obscure; minutely punctured: head flattish, dull brown, or tes-

taceous; thorax with 2 approximating incurved foveæ towards the base; legs and antennæ dull red. (L. ⅓ l.) Under stones, &c.: Aldham, Suffolk; Marton Lodge, Yorkshire; Winterborne Stoke, Hants; Norfolk; Devon: 3-5.

Fam. 79. OXYTELIDÆ *Stephens.*

dcliv. Siagonium *Body* flat, linear: *ant.* not elbowed; elongate, pilose: *tho.* obcordate: *elytra* long: *tibiæ* ciliated within; *anterior pair* denticulate without; *tarsi* distinctly 5-jointed: *labrum* deeply notched: ♂ with head cornuted.

dclv. Bledius *Body* convex, narrow: *ant.* elbowed: *tho.* slightly produced in front, rounded behind: *elytra* remote: *tibiæ* ciliated; *anter.* toothed without; *tarsi* retractile, 4-jointed: ♂ with head and thorax cornuted.

dclvi. Hesperophilus *Body* slightly convex, narrow: *ant.* elbowed, basal joint long, 2d and 3d short: *tho.* shield-shaped: *elytra* remote: *anter. tibiæ* denticulate-pectinate without; *tarsi* 4-jointed: *palpi* with terminal joint slender: *head* and *thorax* unarmed.

dclvii. Phytosus *Body* slightly convex, elongate: *ant.* elbowed, 2 basal joints equal, 3d short: *tho.* flattish, without a channel, with a short bent spine beneath the anterior angles: *tibiæ* pilose, 4 *anter.* spinose; *tarsi anter.* 4-, *poster.* 5-jointed: ♂ with *abdomen* broad and obtuse at apex; ♀ with *elytra* longer and wider than thorax.

dclviii. Platysthetus *Body* short, broad in front: *ant.* not elbowed: *tho.* convex, with a dorsal channel: *head* large, lobed: *elytra* flat: *legs* short; *tibiæ* all denticulate-pectinate: *tarsi* 3-jointed, retractile.

dclix. Oxytelus *Body* flat, elongate, somewhat linear: *ant.* not elbowed: *tho.* flat, with several channels: *legs* short; *tibiæ* ciliated, 4 *anterior* alone denticulate-pectinate: *tarsi* 3-jointed: head and thorax unarmed.

dclx. Aploderus *Body* flattish, elongate, wide: *ant.* not elbowed: *tho.* uneven, notched in front, rounded behind, and somewhat lunate: *elytra* very short: *abdomen* rather linear: *tibiæ* ciliated, 4 *anterior* denticulate-pectinate: *tarsi* 3-jointed: *head* small, orbicular: *palpi* with terminal joint minute.

dclxi. Trogophlæus *Body* flat, linear: *ant.* elbowed: *tho.* convex, foveolated: *elytra* with prominent shoulders: *tibiæ* unarmed, ciliated; *tarsi* 3-jointed, terminal joint longer than the others, arched: *palpi* with terminal joint minute, aciculated.

dclxii. Carpalimus *Body* flattish, linear: *ant.* straight: *tho.* truncate-heart-shaped, foveolated: *legs* short; *tibiæ* ciliated, simple; *tarsi* indistinctly 3-jointed, terminal joint longest.

654 Siagonium *Kirby.*

3324 4-corne *Kirby.* — *Cur.* i. pl. 23. — *Ste. M.* v. 306. — Flat; pitchy, shining, and glabrous; head dusky, tuberculated in ♀, horned in ♂; elytra with 4 striæ, 2 of them foveolated, disc with an oblique rusty dash, outer angle dusky; tip of abdomen rusty; legs and antennæ red. (L. 2-2½ l.) Under bark of elm: Kensington Gardens: South Lambeth; Norfolk; Suffolk: 2-6.

655 Bledius *Leach.*

3325 tricornis *Pk. F.* iii. 396. — *Ent. Tr.* pl. in p. 97. — *Ste. M.* v. 307. — Black, slightly shining, deeply punctured; legs pitchy-red; elytra rusty-red, with the base nd suture black. ♂ with a stout bent porrected horn on each side of the head, and an elongate glabrous one on the anterior edge of the thorax, grooved above: ♀ with 3 small tubercles in place of the

horns. (L. 2-3½ l.) On sandy shores; especially near Southend; and along the eastern coast: 4-8.

3326 Taurus *Ahr. F.* — *Ste. M.* v. 308. — Bl. Skrimshirii *Cur.* iii. pl. 143. — Black, shining; sparingly punctured; legs chestnut; elytra reddish, ochreous, with a 3-angular dusky patch at the base of the suture; tip of abdomen rusty. ♂ with a long thin vertical horn on each side of the head; and an obtuse one on the anterior edge of the thorax, pilose and chestnut at the tip: ♀ with 2 conical tubercles on the head; thorax unarmed. (L. 2½-3½ l.) On coast of Norfolk, near Fakenham: 4-6.

3327 Ruddii *Ste. M.* v. 308. pl. xxvii. f. 3. — Narrow, shining black; moderately punctured; antennæ, legs, and elytra ochreous-red. ♂ with a short acute horn on each side of the head, and an elongate straight slender one on the anterior edge of the thorax, its apex pilose: ♀ with 2 small tubercles on the head; thorax unarmed. (L. 2-2½ l.) Coatham Marshes, Yorkshire: 4-6.

656 HESPEROPHILUS *Stephens.*

3328 fracticornis *Pk. F.* iii. 382. — *Ste. M.* v. 309. — Black; smooth; head finely punctured and slightly 2-tuberculate; thorax deeply and coarsely punctured, and with a single dorsal channel; elytra moderately punctured; tip of abdomen and the legs testaceous red; antennæ dusky, base red. (L. 2½ l.) Sandy coasts, &c.: Battersea fields; Norfolk; Suffolk; Yorkshire: 4-6.

3329 hæmopterus *Kirby.* — *Ste. M.* v. 310. — Black; smooth; head punctulated and with 2 small tubercles; thorax obscurely punctured, and with a faint dorsal channel; elytra punctulated, red; tip of abdomen reddish; legs, antennæ, and palpi red. (L. 1⅔-2 l.) Sandy coasts, &c.: Norfolk; Suffolk; Yorkshire; Barham; Battersea: 4-6.

3330 divisus *Marsham.* — *Ste. M.* v. 310. — Black, obscure; head and thorax finely punctured, the latter with an obscure dorsal channel; elytra punctured, testaceous; legs, palpi, and base of antennæ the same. (L. 2-2⅓ l.) Banks of rivers: Battersea: 4-6.

3331 arenarius *Pk. F.* iii. 382. — *Ste. M.* v. 310. — Black, slightly shining: head and thorax punctured, the latter with a dorsal channel: elytra very thickly and finely punctured, livid, or pale, with the base and sides of the suture dusky or black: tibiæ and antennæ livid; palpi dusky: abdomen glossy. (L. 1½ l.) On the coasts of Devon; Yorkshire, &c.: 4-6.

3332 Talpa *Gyll.* ii. 448. — *Ste. M.* v. 311. — Black, obscure; slightly pubescent: head somewhat heart-shaped, obscurely 2-tuberculate; thorax suddenly narrowed behind, convex, smooth, with a faint dorsal impression; elytra punctulated, deep black or bluish; tarsi red; antennæ pitchy, base black. (L. 2 l.) Coasts of Devon and Yorkshire: 4-6.

657 PHYTOSUS *Rudd.*

3333 spinifer *Rudd.* — *Cur.* xiv. pl. 718. — Pitchy-black, shining; thorax, elytra, tip of abdomen, legs, and antennæ reddish. ♀ black, with the mouth, antennæ, and legs pitchy. (L. ♂ ¾-1 l.; ♀ 1-1¼ l.) Under marine rejectamenta, Ryde: 5-6.

658 PLATYSTHETUS *Mannerheim.*

3334 cornutus *Grav. Mi.* 109. — *Ste. M.* v. 311. — Black, shining, glabrous: forehead thickly punctured, of the ♂ bispinous at the apex: thorax finely punctured, and with a deep dorsal channel; elytra obscurely punctured, black, with an oblique pale dash, or testaceous; tarsi red.

(L. 1½ l.) Dung: London district; Norfolk; Suffolk; Bristol; Yorkshire: 2-6.

3335 morsitans *Pk. F.* iii. 383. — *Ste. M.* v. 312. — Black; shining, very smooth: forehead flat, channelled; thorax thickly punctured, and with a deep dorsal line; elytra very thickly punctured, the punctures somewhat disposed longitudinally, and with a single sutural stria, pitchy red or testaceous; tibiæ, tarsi, and mouth also testaceous. (L. 1¼-2 l.) Dung: London district, and generally distributed: ⊙ ✶.

3336 trilobus *Oliv. E.* iii. 20. pl. 5. f. 48. — *Ste. M.* v. 312. — Black; shining; glabrous: head with a frontal impression and a transverse line behind; thorax with a deep longitudinal channel; elytra very much punctured; legs brownish-yellow; antennæ dusky. (L. 1½ l.) In dung, &c.: generally distributed: 2-6.

3337 sulcatus *Marsham.* — *Ste. M.* v. 313. — Broad; black; shining; glabrous; head with a deep frontal channel; thorax slightly punctured, with a deep dorsal groove; elytra pitchy-black, rather coarsely punctured, and with a faint sutural stria; legs pitchy; antennæ dusky. (L. 1½ l.) In dung: London district; Norfolk; Suffolk; Devon; S. Wales: 4-6.

3338 brunnipennis *Ste. M.* v. 313. — Black, shining, glabrous, thickly punctate: head large, impressed; thorax with an obsolete dorsal channel; elytra reddish-brown, flattish, with a punctured stria towards the suture; legs and antennæ pitchy-red. (L. 1¼ l.) Dung: London district: 4-6.

3339 immunis *Kirby.* — *Ste. M.* v. 313. — Black, shining; glabrous; punctured: head small, without a frontal impression; thorax ample, convex, with a faint dorsal channel; elytra pitchy-red, finely punctured; abdomen pitchy at the tip; legs pitchy-red; antennæ dusky. (L. 1½ l.) Dung, &c.: London district; Norfolk; Suffolk; New Forest: 4-6.

3340 foveatus *Kirby.* — *Ste. M.* v. 313. — Black; shining; glabrous: head narrower than thorax, with an impressed line on the occiput; thorax short, with a deep dorsal groove and a broad rough fovea on each side; elytra and legs reddish, thighs pitchy; mandibles fuscous. (L. 1 l.) In dung, &c.: London district; Suffolk: 4-6.

3341 caliginosus *Ste. M.* v. 314. — Black; shining; glabrous, very thickly punctured; head narrower than the thorax, not impressed; thorax small, with an obscure dorsal channel; elytra dull black, or pitchy; legs pitchy-red, tibiæ and tarsi palest; antennæ dusky, the base and mouth pale. (L. 1½ l.) In dung: London district: 4-6.

3342 pallidipennis *Pz. F.* xxvii. f. 16. — *Ste. M.* v. 314. — Black; shining; glabrous: head narrower than the thorax, flat, unarmed: thorax with a deep dorsal groove; elytra punctured, pale, with the margin dusky; abdomen rather pitchy at the tip; thighs fuscous; tibiæ and tarsi red; antennæ dusky-black. (L. 1½ l.) In dung: London district; Suffolk: 4-6.

659 Oxytelus *Gravenhorst.*

3343 carinatus *Grav. Mi.* 106. — *Pz. F.* lvii. f. 24. — *Ste. M.* v. 315. — Pitchy-black; rather glabrous: head punctured, front smooth; crown with a double tubercle, and an acute one before each eye: thorax punctured, and with 4 acute raised lines; elytra with confluent punctures; thighs pitchy-red, tibiæ and tarsi testaceous: base of antennæ dull red. (L. 1⅔ l.) Dung, &c.: generally distributed: ⊙ ✶.

3344 pulcher *Grav. Mi.* 107. — *Ste. M.* v. 315. — Pitchy-black, somewhat glabrous; head roughly punctured, front smooth, base with 2 foveolets, and a pitchy tubercle on each side, before the eyes; thorax rusty-black, margins finely denticulated, disc longitudinally roughened: elytra and

legs testaceous; antennæ red, base paler. (L. 2¼ l.) Dung, &c.: London district; Norfolk; Suffolk, &c.:

3345 rugosus *Fab. E.* ii. 601. — *Ste. M.* v. 316. — Black, glabrous: head finely punctured, front smooth, with 3 tubercles; thorax with the sides obsoletely denticulate, disc with 4 grooves, somewhat in form like the letter M; elytra roughly punctured: legs pitchy-black, tarsi red; mouth pitchy. (L. 2¼ l.) Dung, &c., throughout the country: ⊙ ✶.

3346 picipennis *Ste. M.* v. 316. —Ox. piceus *Pz. F.* xxvii. f. 14. ?—Broad; pitchy-black; shining; front impressed; thorax with its sides entire, the disc punctulate, and with 3 channels; elytra finely punctured, pale testaceous; abdomen with terminal segment pitchy; legs pale; antennæ pitchy, base testaceous. (L. 1¾ l.) Dung, &c.: London district; Norfolk: 4-6.

3347 nitens *Marsham.* — *Ste. M.* v. 316. — Black, rather glabrous; head with 2 short impressions: front flattish; thorax with 3 longitudinal lines, and the outer margins foveolated; elytra flattish, testaceous, base dusky within; legs testaceous, hinder tibiæ with a minute tooth externally; base of antennæ testaceous. (L. 2 l.) Dung: London district; New Forest; Devon; Bristol; S. Wales: 4-6.

3348 piceus *L.* ii. 686. — *Oliv. E.* iii. 20. pl. 3. f. 38. — *Ste. M.* v. 317. — Pitchy-black, rather glabrous: head roughly punctured, front smooth, with a deep fovea; thorax with 3 longitudinal grooves, the lateral margins foveolated; elytra pitchy, roughly punctured; legs pale; antennæ longish, their base, the mouth, and palpi dull red. (L. 1½-2 l.) Dung, &c.: generally distributed in the south: ⊙.

3349 antennatus *Kirby.*—*Ste. M.* v. 317. — Black; rather shining; glabrous; punctured: head with a frontal impression: thorax with the sides entire, the disc rough, with 3 equal dorsal channels; elytra pitchy; legs pale; antennæ nearly half as long as the body, dusky, the base pale. (L. 1½ l.) Dung: Suffolk and Devonshire: 6.

3350 sculpturatus *Grav. Mo.* 187. — *Ste. M.* v. 317. — Black; slightly shining; thickly punctured: head roughish, with a smooth frontal impression: thorax short, the sides slightly rounded and entire, disc flattish, with a central dorsal channel; widest in front, a linear bent one on each side, and an obscure fovea at the base: thighs pitchy-red; tibiæ and tarsi pale. (L. 1½-2 l.) Dung: London district; Norfolk; Suffolk: 4-6.

3351 nitidus *Kirby.* — *Ste. M.* v. 318. — Black; shining; glabrous; punctured: forehead slightly convex: thorax crenulated on the sides, the disc with 5 longitudinal channels, divided by four lines, resembling by their union the letter M; elytra testaceous, with 2 obscure foveæ; legs testaceous, antennæ with basal joint dull red; palpi red; mandibles pitchy. (L. 1⅔-2 l.) Dung: Suffolk: 6.

3352 flavipes *Ste. M.* v. 318. — Black; shining; thickly punctured: head rough, with a slender smooth frontal depression: thorax with the sides entire, disc flat, with 3 dorsal channels; elytra flat, pitchy-red; tip of abdomen reddish or pitchy; legs pale testaceous; antennæ dusky, tip and the palpi testaceous. (L. 1¼ l.) Dung, &c.: London district; Devon: 6.

3353 depressus *Grav. Mi.* 103.—*Ste. M.* v. 318. — Black, opaque, very finely punctured; head flat; thorax with the sides rounded and entire, the disc flat, with 5 dorsal channels, divided by raised glossy lines: elytra flat, pitchy, with an obscure sutural stria; legs and mouth testaceous; antennæ fuscous. (L. 1 l.) Dung, &c.: London district, &c.: 4-6.

3354 fuscipennis *Ste. M.* v. 319. — Black, nearly opaque; finely and closely punctured; head flat; thorax with the sides entire; disc flat, with 4 dorsal lines, interstices not very deep, approaching in front; elytra flat, fuscous;

tip of abdomen pitchy; legs and base of antennæ pale. (L. 1 l.) Dung: London district: 6.

3355 pallipes *Kirby.* — *Ste. M.* v. 319. — Black, opaque; head orbiculate; thorax minutely punctured, with five dorsal foveolets, divided by 4 slightly raised lines, the 2 intermediate diverging in front; elytra flat, pitchy, with an oblique impression in front; legs testaceous, thighs brownish; antennæ dusky. (L. 1¼ l.) In dung, putrid fungi, &c.: generally distributed in the south: 4-8.

3356 nitidulus *Grav. Mi.* 107. — *Ste. M.* v. 319. — Black, slightly shining; somewhat punctured; head transverse; thorax with the sides entire, the disc flat, with 3 linear channels and an obscure fovea towards each side; elytra pitchy-red; legs testaceous, thighs more or less dusky. (L. ¾-1 l.) Dung, &c.: London district; Devon: 5-6.

3357 ruficrus *Kirby.* — *Ste. M.* v. 320. — Black; shining, punctured; forehead with an obscure excavation; thorax with the sides entire, the disc flat, with 3 linear channels, and an obscure fovea towards the base of each side; elytra flat, pitchy; legs pitchy; tarsi red; antennæ reddish at base. (L. 1⅜ l.) Dung, &c.: Hertford and York: 6.

3358 consobrinus *Ste. M.* v. 320. — Black; slightly shining, glabrous; punctured; head small, with a faint frontal channel; thorax with 3 obscure channels in front; elytra flat, pitchy-testaceous; legs the same; antennæ pitchy, the base paler. (L. 1¼ l.) Dung: London district: 6.

3359 biarcuatus *Ent. M.* (*Matthews*) v. 198. — Black, shining; head as broad as thorax, sparingly punctured; thorax with the disc smooth, with 2 bent coarsely punctured longitudinal foveæ in the centre, the sides flat and deeply punctured; elytra coarsely punctured, red, with the suture dusky; apex of abdomen, and mouth, red; legs testaceous; antennæ dusky, basal joint red. (L. 2 l.) London district; Weston: 2-5.

3360 angustatus *Kirby.* — *Ste. M.* v. 320. — Narrow; deep pitchy-black; glabrous; roughly punctured; head with a transverse and longitudinal impression forming a roman T: thorax with 3 dorsal channels, the sides flat and obscurely foveolated; elytra pitchy; thighs dusky; tibiæ and tarsi red; antennæ dusky. (L. 1⅜ l.) Dung, &c.: London district: ⊙.

3361 opacus *Kirby.* — *Ste. M.* v. 321. — Black, smooth, opaque; head very obscurely punctulate; forehead depressed on each side; thorax with 3 obscure dorsal grooves, the sides each with a distinct fovea; elytra flattish, smooth; legs red, thighs dusky. (L. 1-1½ l.) Dung, &c.: London district, and generally distributed: 1-7.

3362 pusillus *Leach.* — *Ste. M.* v. 321. — Black; opaque, very finely punctured; head small; thorax more distinctly punctured, with 2 obscure longitudinal channels on the disc, and a faint fovea at the base towards the sides: elytra flattish, pitchy; legs pale red; base of antennæ dusky. (L. 1 l.) Dung, &c.: London district; Suffolk; Devon: 4-6.

660 Aplοderus *Stephens.*

3363 brachypterus *Marsh.* i. 510. — *Ste. M.* v. 322. — Black; shining; head with 2 small tubercles; thorax with 2 punctured longitudinal foveæ on the disc, and an obscure impression towards each side; elytra pitchy, very much punctured; legs pale, or pale testaceous; antennæ pitchy, base paler. (L. 2-2½ l.) Moss, &c.: Battersea fields; Barham; Ipswich: 1-5.

661 Trogophlæus *Mannerheim.*

3364 corticinus *Grav. Mo.* 192. — *Ste. M.* v. 323. — Black; rather opaque; very thickly punctured; thorax with 2 short, rather bent dorsal foveolæ; elytra flattish, pitchy-black; legs pitchy, knees, tips of tibiæ, and the tarsi

paler; antennæ dull pitchy, basal joint reddish. (L. ¾-1 l.) In moss, &c.: London district.

662 CARPALIMUS *Kirby.*

3365 bilineatus *Kirby.* — *Ste. M.* v. 324. pl. xxvii. f. 4. *a-g.* —Black; slightly pubescent; thorax obcordate, with 2 slightly bent approximating dorsal foveæ; elytra minutely punctured, pitchy-black; tip of last abdominal segment pitchy beneath; legs dull red; antennæ pitchy, base dull red. (L. 1⅓-1½ l.) Under stones, moss, &c.: London district; Barham: 12-5.

3366 arcuatus *Kirby.* — *Ste. M.* v. 324. — Black; slightly pubescent; thorax with 2 minute foveæ, and a round one on each side towards the hinder margin; elytra finely and thickly punctured; legs pitchy. (L. 1⅓ l.) Under stones, &c.: London district and Suffolk: 2-5.

3367 bicolon *Kirby.* — *Ste. M.* v. 325. — Black; shining, glabrous; head large; thorax obcordate, with 4 discoidal punctures placed tetragonally; elytra thickly and finely punctured; antennæ slender at the base, the tip somewhat clavate. (L. ¾ l.) Moss, &c.: London district; Norfolk; Suffolk; Hull: 1-5.

3368 fuliginosus *Grav. Mi.* 102. ? — *Ste. M.* v. 325. — Black, rather glossy; thorax with 2 faint impressions behind, and a very short slightly raised ridge between; elytra obscure, somewhat silky; legs and palpi dull red; antennæ dull red, the terminal joints thickened and black. (L. 1⅛ l.) Moss, &c.: London district; Bristol; Norfolk; Suffolk; Devon: 1-5.

3369 picipennis *Kirby.* — *Ste. M.* v. 325. — Black; rather obscure; thorax with 4 obscure impressions towards the base; elytra pitchy-red, with a delicate pubescence; legs testaceous; antennæ moderate, slightly thickened at the tips; mouth reddish. (L. ¾ l.) Under stones, &c.: London district; Suffolk: 1-5.

3370 rufipennis *Kirby.* — *Ste. M.* v. 326. — Black; smooth, nearly glabrous; thorax with the disc obscurely impressed; elytra and legs red; antennæ shorter than the thorax, rather thickened at tip, the terminal joint acute. (L. ¾ l.) Moss, &c.: London district; Norfolk; Suffolk; Devon: 1-5.

3371 affinis *Kirby.* — *Ste. M.* v. 326. — Broad; black, obscure; thorax very obscurely impressed; elytra with a delicate silken pile, faintly punctured; thighs pitchy, or red; tibæ and tarsi dull red; antennæ with basal joint testaceous. (L. ¾ l.) Moss &c.: London district; Suffolk; Devon: 1-5.

3372 obscurus *Kirby.* — *Ste. M.* v. 326. — Black; obscure; slightly pubescent; thorax with a slightly bent impression on each side towards the base; elytra pitchy-black; legs dull piceous; tarsi brighter; antennæ pitchy. (L. ⅞-1 l.) Moss &c.: London district; Norfolk; Suffolk; Devon; York: 1-5.

3373 atratus *Ste. M.* v. 327. — Deep black; narrow; slightly shining; thorax with a deep, slightly bent impression on each side towards the base; elytra finely and thickly punctured, and with a faint depression near the base of the suture; abdomen rather widened towards the apex: legs and antennæ deep pitchy-black. (L. ¾ l.) Moss: London district; Wilts: 1-5.

Fam. 80. OMALIIDÆ *Leach.*

dclxiii. TÆNOSOMA *Body* linear, narrow: *palpi max.* with penult. joint dilated, apical one small, subulate: *tho.* narrower than the head: *elytra* flat: *abdomen* obtuse: *tibiæ* unarmed; *tarsi* 5-jointed, terminal joint as long as all the preceding.

dclxiv. PHLÆOCHARIS *Body* somewhat linear, convex: *palpi max.* with apical

joint acicular: *ocelli* 0: *tho.* as broad as the elytra: *tibiæ* unarmed; 4 *anter. tarsi* with the 3 basal joints dilated.

delxv. Coprophilus *Body* linear, narrow, flat: *palpi* filiform, terminal joint of *max.* longest, conic, truncate: *ocelli* 0: *tho.* somewhat 4-drate: *middle legs* approximating at base; *anter. tibiæ* spinulose; *tarsi* 5-jointed, filiform.

delxvi. Pseudopsis *Body* broad, flat: *palpi max.* with terminal joint slender, acute; the preceding dilated: *ocelli* 0: *head* narrow, ridged: *tho.* nearly circular, sulcated: *elytra* flattened, ridged: *ant.* filiform, thickened at the tip.

delxvii. Megarthrus *Body* broad, flattish: *palpi max.* with penult. joint thickened, clavate; terminal acute: *ocelli* 0: *ant.* with the 2 basal joints robust, apical one very large, somewhat orbicular: *labrum* transverse: *tibiæ* bent, simple.

delxviii. Syntomium *Body* broad, flat; edges sharply ridged: *palpi max.* with apical joint small, obconic-acute: *ocelli* 0: *ant.* somewhat clavate: *labrum* notched: *tho.* with lateral margins crenulate: *tibiæ* simple.

delxix. Proteinus *Body* oval, convex: *palpi max.* with terminal joint acicular: *ocelli* 0: *ant.* clavate; club 3-jointed: *tho.* transverse, hinder angles acute: *elytra* half the length of the abdomen: *tibiæ* simple.

delxx. Anthobium *Body* oval, flattish: *palpi max.* with apical joint conic, longer than the preceding: *labrum* narrow: *ant.* with basal joint large: *ocelli* 2: *tho.* transverse: *elytra* long: *tibiæ* simple; *tarsi* with the 4 basal joints short, equal, dilated.

delxxi. Deliphrum *Body* oval, slightly convex: *palpi max.* with terminal joint acute, longer than the preceding: *ant.* with basal joint robust, apical one large, ovate-acute: *ocelli* 2: *tho.* transverse: *elytra* ample, elongate: *tibiæ* spinulose; *poster. tarsi* with the 2 basal joints elongate.

delxxii. Lathrimæum *Body* oval, rather convex: *palpi max.* with terminal joint acute, longer than the preceding: *ant.* gradually thickened to the tips: *ocelli* 2: *tho.* transverse, channelled: *elytra* ample, nearly covering the abdomen: *tibiæ* simple; *poster. tarsi* with the 2 basal joints longish.

delxxiii. Olophrum *Body* oval, convex: *palpi max.* with terminal joint twice as long as the preceding: *ant.* pilose, with basal joint robust, apical one large, acuminate: *ocelli* 2: *tho.* transverse: *elytra* broad: *tibiæ* unarmed; *poster. tarsi* with the 2 basal joints longish.

delxxiv. Coryphium *Body* oblong, flat: *palpi max.* with terminal joint thickened, apex truncate: *ant.* thickened towards the apex: *head* wider than the *tho.*, which is slightly narrowed behind: *ocelli* 2: *tibiæ* unarmed; *tarsi* filiform.

delxxv. Micralymma *Body* oblong, flat: *labrum* transverse, 3-lobed: *ocelli* 0: *tho.* obcordate: *elytra* very minute: *abdomen* long, considerably wider than the thorax, margined: *tibiæ* simple; *tarsi* with very long hairs.

delxxvi. Omalium *Body* oblong-ovate, flat: *palpi* nearly filiform, apical joint acute: *ant.* short, pilose, thickened at the tip: *ocelli* 2: *tho.* short, obcordate, or transverse, narrowed behind: *tibiæ* slightly setose; *tarsi* with the 4 basal joints short.

delxxvii. Acidota *Body* oblong-ovate, rather convex: *palpi* filiform, terminal joint scarcely longer than the preceding, acute: *ant.* long, somewhat filiform: *ocelli* 2: *labrum* and *mand.* entire: *tho.* ovate, broadest behind: *tibiæ* spinous; *poster. tarsi* with basal joint elongate.

delxxviii. Deleaster *Body* elongate-ovate, flattish: *palpi max.* filiform: *ocelli* 0: *tho.* broadest in front: *elytra* broader than thorax, rectangular: *middle legs* approximating at the base; *tibiæ* unarmed; *tarsi* 5-jointed.

delxxix. Lesteva *Body* oblong, flattish: *palpi max.* with terminal joint somewhat acuminate: *ant.* filiform: *ocelli* 2: *tho.* obcordate: *elytra* long:

abdomen broad, flat: *tibiæ* unarmed; *poster. tarsi* with basal joint elongate.

663 Tænosoma *Mannerheim.*

3374 pusillum *Gyll.* ii. 409. — *Ste. M.* v. 323. — *Shuck. B. C.* pl. 16. f. 4. — Black, slightly shining; delicately punctured; thorax with 2 oblong, parallel, obscure foveæ before the middle of the base; elytra, legs, and antennæ testaceous. (L. ¾-1 l.) Under stones, &c.: London district: 1-4.

664 Phlæocharis *Mannerheim.*

3375 subtilissima *Mann. Pr. B.* 30. — *Shuck. B. C.* pl. 16. f. 5. — Pitchy-brown, pubescent; mouth, antennæ, and margin of the abdominal segments pitchy-red: legs pitchy-red; tarsi testaceous. (L. 1 l.) Under pine bark: New Forest: 6.

665 Coprophilus *Latreille.*

3376 striatulus *Fab. E.* ii. 396. — *Ste. M.* v. 345. — *Shuck. B. C.* pl. 16. f. 3. — Black; shining; thorax punctulate, with a dorsal furrow and 2 oblique approximating foveæ at the base; elytra faintly punctate-striate: tarsi reddish: palpi red. (L. 2¼-2½ l.) Gardens, roads, &c.: London district; Suffolk: 2-5.

666 Pseudopsis *Newman.*

3377 † sulcatus *Ent. M.* (*Newm.*) ii. 314. — *Ste. M.* v. 437. — *Shuck. B. C.* pl. 16. f. 2. — Black; smooth; antennæ and legs fuscous. (L. 1½ l.) Isle of Wight and Weston?: 9.

667 Megarthrus *Kirby.*

§ A. *Thighs* compressed.

3378 rufescens *Kirby.* — *Ste. M.* v. 331. pl. xxvii. f. 5. *a-f.* — Pitchy-red; rather obscure; punctured; lateral margins of the thorax expanded, and with the legs and antennæ red: abdomen black above. (L. 1-1 1/12 l.) Roots, moss, &c.: Hertford; Dulwich; Ripley; New Forest; Suffolk; Norfolk; Devon; Raehills: 2-6.

3379 retusus *Kirby.* — *Ste. M.* v. 331. — Tawny-yellow; punctured; eyes black; margins of the thorax expanded, flattened, and pale; legs and antennæ pale testaceous; head retuse. (L. 1 l.)

Var. Me. flavus *Kirby.* — *Ste. M.* v. 331. — Pale dull yellow; eyes black; thorax with a smooth dorsal line; head retuse: antennæ fuscous. Moss, &c.: London district; Suffolk: 4-6.

§ B. *Thighs* simple, slender.

3380 depressus *Pk. F.* iii. 412. — *Oliv. E.* iii. 36. pl. 3. f. 26. — *Ste. M.* v. 332. — Pitchy-black; flat; obscure; punctured; thorax with a dorsal channel, the sides obscurely waved; hinder angles cut out: legs red. (L. 1 l.) Boleti, &c.: London district; Suffolk; Devon; S. Wales: 2-6.

3381 emarginatus *Kirby.* — *Ste. M.* v. 332. — Pitchy-black, flat; obscure; punctured: thorax with a dorsal channel; lateral margins not waved, sometimes reddish, hinder angles notched; elytra pitchy; legs red; antennæ dusky. (L. 1 l.) Boleti, &c.: London district; Devon; Raehills: 4-6.

3382 macropterus *Grav. Mo.* 215. — *Ste. M.* v. 332. — Black; slightly pubescent; punctured: punctures obscure on thorax, disc convex, with a short obsolete dorsal impression, hinder angles acute; elytra somewhat roughly punctured; tip of abdomen pitchy; legs and 2 basal joints of

antennæ dull red; palpi fuscous. (L. 1 l.) Rotten trees, &c.; London district; and widely distributed: 2-6.

3383 pusillus *Ste. M.* v. 333. — Black, slightly shining and pubescent, very finely punctured; thorax with a distinct dorsal channel, extending from base to apex; elytra, legs, and antennæ dull pitchy. (L. ¾ l.) Decayed trees: New Forest: 6.

3384 marginatus *Ste. M.* v. 333. — Pitchy-black; thickly and rather coarsely punctured; elytra pale or reddish, depressed at the base of the suture; thorax with a dorsal channel, the lateral margins rounded broad, transparent rust-colour; legs and base of the antennæ pale red. (L. ¾ l.) Under stones, &c.: Southend: 4-6.

3385 affinis *Ste. M.* v. 333. — Pitchy, coarsely and thickly punctured; eyes black: thorax reddish, with a fine dorsal channel, lateral margins expanded, flat, pale, hinder angles entire; elytra very coarsely punctured; legs and antennæ pale red. (L. ¾ l.) Stones: Devon: 6.

668 Syntomium *Curtis.*

3386 nigroæneum *Kirby.* — *Cur.* v. pl. 228. — *Ste. M.* v. 329. — Brassy-black; rather obscure, punctate: thorax roughly punctured, with a faint ridge in the middle behind; elytra coarsely punctured; abdomen finely punctulate, dilated; legs and antennæ dusky-chestnut. (L. ¾-⅞ l.) Chalk-pit: Great Blackenham, Suffolk. Moss: Ripley; Southgate; Norfolk; Marton Lodge, Yorkshire: ⊙.

669 Proteinus *Latreille.*

3387 brachypterus *Pk. F.* i. 288. — *Pz. F.* iv. f. 10. — *Ste. M.* v. 334. — Black; slightly pubescent; thorax smooth, with a small basal fovea, lateral margins reddish; elytra finely rugose-punctate; hinder edge obscurely reddish; legs, palpi, and basal joint of the antennæ testaceous. (L. [illegible] l.). In fungi, &c.: London district; Norfolk; Suffolk; Devon; Scotland: 8-12.

3388 clavicornis *Kirby.* — *Ste. M.* v. 334. — Oblong; black; slightly shining; smooth; rather convex; legs dull red; antennæ black, with a distinct 3-articulate club; terminal joint obtuse. (L. ⅔ l.) Boleti: London district; Suffolk; Somerset: 6-8.

3389 ovalis *Kirby.* — *Ste. M.* v. 335. — Short, oval; black; smooth; flattish; thorax with hinder angles faintly notched; elytra very finely punctured, sometimes pitchy; legs dull red; antennæ black, terminal joint rather long. (L. ⅔ l.) Boleti, &c.: London district; Suffolk; Devon; Rae-hills: 6-10.

3390 macropterus *Gyll.* ii. 209. — Black, slightly shining; thorax very short, slightly punctured; elytra pitchy, more thickly punctured; legs and 2 basal joints of the antennæ testaceous. (L. ⅔ l.) Fungi, &c.: London district: 4.

670 Anthobium *Leach.*

3391 nigricorne *Ste. M.* v. 336. — Black; rather glossy; glabrous; thorax convex, pitchy behind; elytra pitchy, distinctly and thickly punctured, the outer hinder angles rounded; abdomen glossy black, with a strong margin; legs pale testaceous, antennæ black. (L. 1 l.) Hedges; London district; Devon: 4-6.

3392 subsulcatum *Ste. M.* v. 336. — Black; slightly shining; glabrous; thorax with the disc rather convex, and with a very faint dorsal channel; elytra deep pitchy-black, finely punctured; abdomen glossy-black, legs pitchy; antennæ reddish-pitchy. (L. 1¼ l.) Hedges: London district; Bristol; Devon: 4-6.

3393 sulculum *Kirby*. — *Ste. M.* v. 336. — Black ; rather shining ; glabrous ; punctulated ; head smoothish ; thorax with a distinct dorsal channel ; elytra pitchy, punctate-striate, outer angles rounded ; abdomen broad, smooth, tip pitchy-red ; legs red ; antennæ dusky, base pale. (L. $\frac{1}{3}$ l.) Hedges : London district ; Bristol ; Norfolk : 4-6.

3394 nitidum *Ste. M.* v. 337. — Deep shining black ; glabrous ; thorax slightly convex, impunctate, widest behind, hinder angles rounded and somewhat pitchy ; elytra deep pitchy-black, obscurely punctured ; abdomen with the tip rather obtuse ; legs and antennæ pitchy. (L. 1. l.) Hedges : London district : 4-6.

3395 ophthalmicum *Pk. F.* iii. 409. — *Ste. M.* v. 339. — Testaceous ; finely punctured ; head smooth ; eyes prominent, black ; thorax without a dorsal channel ; elytra thrice the length of the thorax, yellowish, glossy ; abdomen deep black ; tip of antennæ black. (L. $\frac{3}{4}$-1 l.) Flowers : London district ; Suffolk ; Raehills : 4-6.

3396 torquatum *Marsh.* i. 127. — *Ste. M.* v. 339. — Si. semicoleoptrata *Pz. F.* xxiv. f. 6. ? — Dull red ; glabrous ; back of the head and eyes black ; thorax truncate in front, the disc with an obscure furrow ; elytra twice as long as the thorax, finely and thickly punctured, yellowish ; abdomen, breast, and antennæ black, base of the latter, legs, and palpi testaceous. (L. 1 l.)

♀ ? Om. mucronatum *Kirby*. — *Ste. M.* v. 339. — Elytra with a spine at the apex, which is obliquely truncate. Flowers : London and Edinburgh districts ; Norfolk ; Suffolk ; S. Wales : 4-6.

3397 brunneum *Ste. M.* v. 340. — Red-brown ; shining glabrous ; head dusky or black, with 2 distinct basal foveæ ; thorax glossy-red, finely punctured, and with 2 basal foveæ ; elytra rather long, punctured, the punctures disposed in striæ ; abdomen with the edges of the segments reddish ; legs and antennæ dull red, tip of latter dusky. (L. $1\frac{1}{4}$ l.) Flowers : London district : 4-6.

3398 minutum *Fab. E.* i. 342. — An. Ranunculi *Ste. M.* v. 337. — Black, rather shining and glabrous ; head slightly punctured ; mouth reddish ; thorax with the sides expanded and flat, minutely punctured ; elytra pitchy, or fuscous, distinctly punctured, the apex in the ♂ truncate, in the ♀ with a spine ; abdomen acute ; legs and base of antennæ testaceous. (L. $\frac{3}{4}$-$1\frac{1}{4}$ l.)

Var. ? An. picipenne *Kirby*. — *Ste. M.* v. 337. — More slender, flattish ; elytra livid-black, or pitchy ; legs tawny. Flowers : London district ; Yorkshire ; Suffolk ; Norfolk ; Devon ; S. Wales : 4-7.

3399 ruficorne *Marsham*. — *Ste. M.* v. 338. — Broad ; pitchy-red ; rather glossy ; glabrous ; thorax punctured, with a faint dorsal channel, the margins pitchy-red ; elytra roughly punctured, the punctures somewhat disposed in striæ, outer angles curved, inner acute ; abdomen short, black, acute ; legs and antennæ red, tips of the latter dusky. (L. $1\frac{1}{2}$ l.) Hedges : London district : 6

3400 Sorbi *Gyll.* ii. 206. — *Ste. M.* v. 338. — Testaceous ; sparingly and finely punctured ; eyes black ; thorax deeply notched in front, with an obscure channel ; elytra twice the length of the thorax, testaceous-yellow ; abdomen black ; 4 terminal joints of antennæ dusky. (L. $\frac{3}{4}$-1 l.)

Var. Si. lutea *Marsh.* i. 128. — *Ste. M.* v. 338. — Reddish testaceous, elytra pale yellow ; tip of antennæ black ; abdomen testaceous. Flowers : London district ; Devon ; Suffolk ; Raehills ; S. Wales : 4-6.

3401 ruficolle *Pz. F.* xxv. f. 5. — *Ste. M.* v. 340. — Rusty-red ; glabrous ; head black ; thorax yellowish-red, with a distinct dorsal channel, and 2 basal impressions ; elytra yellowish, twice as long as the thorax, thickly

punctured; legs testaceous-yellow; antennæ black, base testaceous. (L. 1¼ l.) Flowers: London district: 4-6.

671 Deliphrum *Erichson.*

3402 tectum *Pk. F.* iii. 68. — *Oliv. E.* iii. 42. pl. 3. f. 21. — *Ste. M.* v. 340. — Black; shining; slightly punctured; head smooth, with 2 frontal impressions; thorax transverse, pitchy-black; with a dorsal channel, sides testaceous; elytra very long, dull yellow; minutely punctured; legs and base of the antennæ testaceous, apex of the latter dusky. (L. 1½ l.) Under stones; in dung: London district; Norfolk; Suffolk; Beverley, Yorkshire: 4-6.

672 Lathrimæum *Erichson.*

3403 atrocephalum *Gyll.* iv. 463. — *Ste. M.* v. 342. — Testaceous-red, shining, deeply punctured; head pitchy-black; thorax transverse, slightly notched in front, the disc convex, with a faint channel, and 2 basal foveæ; elytra thickly and coarsely punctured, the punctures somewhat disposed in striæ; antennæ dusky at the tip. (L. 1¼ l.) Under stones: Coombe Wood: 4-6.

3404 melanocephalum *Marsh.* i. 127. — *Oliv. E.* iii. 36. pl. 3. f. 21. ? — *Ste. M.* v. 341. — Pitchy-red; glabrous; slightly shining; head dusky; thorax yellowish, truncate in front, disc punctured, and with a faint dorsal line: elytra ochreous, minutely punctured; abdomen reddish; legs and antennæ ochreous. (L 1¼ l.) Under stones: London district; Norfolk; Suffolk: 4-6.

3405 longipenne *Kirby.* — *Ste. M.* v. 342. — Griseous; glabrous; shining; very thickly punctured; head pitchy or black; thorax transverse, deeply notched in front, disc with a fovea on each side at the base: elytra scarcely shorter than the abdomen, flattish; abdomen dusky, apex pitchy-red; legs and base of antennæ testaceous, apex of the latter black. (L. 1½-1¾ l.) Flowers, &c.: London district; Norfolk; Suffolk: 4-6.

3406 unicolor *Marsham.* — *Ste. M.* v. 343. — Testaceous; glabrous, shining; head smooth, with 2 minute foveæ; thorax slightly notched in front, disc rather convex, thickly punctured, and with a smooth impression on each side; elytra long, dull yellow, coarsely punctured, punctures slightly disposed in lines; tips of antennæ and eyes black. (L. 1¾ l.) Flowers, &c.: London district; Norfolk; Suffolk; Devon: 4-6.

3407 nigriventre *Ste. M.* v. 343. — Testaceous yellow; slightly shining, finely punctured; head dusky; eyes black; thorax with the hinder angles rounded, disc not channelled; elytra long, finely punctured; abdomen black, its tip yellow; legs and antennæ pale yellow, apex of latter dusky. (L. 1½ l.) Stones, &c.: London district: 4-6.

3408 inflatum *Gyll.* iii. 700. — *Ste. M.* v. 343. — Ovate, very convex; shining; testaceous red; rather deeply punctured; head pitchy; thorax short, disc convex, thickly punctured; elytra pitchy, rather pale anteriorly, moderately punctured; abdomen broad, pale beneath; legs and antennæ pale testaceous. (L. 1¼ l.) Stones: London district: 4-6.

673 Olophrum *Erichson.*

3409 piceum *Gyll.* ii. 200. — *Ste. M.* v. 341. — Sil. blattoides *Ahr. N. A. H.* ii. pl. 2. f. 3. — Convex; broad; dusky-piceous, or reddish-brown; shining; punctured; thorax transverse, with a basal impression; elytra thickly and rather coarsely punctured; legs and antennæ red. (L. 2 l.) Under moss, &c.: Coombe Wood; Norfolk; Suffolk; Devon; Rachills: 10-4.

3410 fuscum *Grav. Mo.* 211. — Moderately convex; pitchy-brown; shining; coarsely punctured; thorax with a smooth patch on the disc; elytra coarsely punctured, the inner punctures somewhat disposed in lines; legs and base of the antennæ pale red. (L. 2 l.) Moss: N. of England: 12.

3411 consimile *Gyll.* ii. 199. — *Ste. M.* v. 341. — Convex; pitchy-black; shining; thickly and rather finely punctured; thorax very convex, a little narrowed behind, black, margin pitchy, base with an obscure fovea; elytra deeply punctured, the punctures somewhat in striæ towards the suture; legs and antennæ dull red. (L. $1\frac{3}{4}$ l.) Moss: Scotland: 12.

3412 assimile *Pk. F.* iii. 409. — Rather convex; dull red; rather glossy; punctured; eyes black; thorax with the disc rather convex, with a faint dorsal line in front; elytra rather coarsely, and simply, punctured; abdomen pitchy; legs testaceous; antennæ pale red. (L. $1\frac{1}{4}$-$1\frac{3}{4}$ l.) Moss, &c.: London district; Suffolk: 9-4.

674 Coryphium *Kirby.*

3413 angusticolle *Kirby.* — *Ste. M.* v. 344. — Black, or pitchy, rather shining; somewhat pubescent; thickly punctured; thorax somewhat longitudinally roughened; abdomen broad, acutely margined, its apex mucronated; legs and base of antennæ testaceous. (L. $1\frac{1}{4}$ l.) Hedges: London district; Ipswich and Levington, Suffolk: 4-6.

675 Micralymma *Westwood.*

3414 Johnstonæ *Mag. Z. & B.* (*West.*) ii. 130. pl. iv. f. 1. — *Shuck. B. C.* pl. 15. f. 5. — Entirely black, not shining; somewhat smooth; slightly pubescent. (L. $1\frac{1}{4}$-$1\frac{1}{2}$ l.) Sea coast: Berwick-upon-Tweed; S. of Scotland: 7-10.?

676 Omalium *Gravenhorst.*

§ A. *Thorax* obcordate.

3415 planum *Pk. F.* iii. 405. — *Ste. M.* v. 346. — Elongate, flattish; black; shining; very finely punctured; thorax with an entire faint dorsal furrow, and an oblong fovea on each side at the base; elytra and legs testaceous-brown, the former irregularly punctured; base of antennæ testaceous, tip black. (L. $1\frac{1}{4}$ l.) Boleti: Hertford; Suffolk; Norfolk; Devon: 4-6.

3416 deplanatum *Gyll.* ii. 222. — *Ste. M.* v. 346. — Elongate, flattish; testaceous-red, or pitchy-black; shining; rather pubescent, and irregularly punctured; disc of thorax pitchy-black, not channelled, not foveolated; elytra testaceous-red, somewhat rugged; abdomen black above; legs and antennæ red; head dusky: — sometimes entirely testaceous-red; or with the suture dusky or black. (L. $1\frac{3}{4}$ l.) In boleti: London district; Norfolk; Suffolk: 4-6.

3417 concinnum *Marsh.* i. 510. — *Ste. M.* v. 347. — Elongate, black; rather shining and pubescent; thickly punctured; thorax slightly convex, the disc with an obscure fovea; elytra dull rusty-red, very thickly punctured; legs and antennæ rusty-red, the latter short. (L. 2 l.) Boleti, &c.: London district; Norfolk; Suffolk; S. Wales: 4-6.

3418 brunnipes *Ste. M.* v. 347. — Rather elongate, black; shining; finely and thickly punctured; head broad; thorax slightly convex, the disc with a faint dorsal channel; elytra deep black; abdomen pitchy, edges of the segments and the apex pitchy-red; legs brown; antennæ dusky-brown, base pale. (L. $1\frac{1}{4}$ l.) Boleti: Dover; Oakhampton: 4-6.

3419 monilicorne *Gyll.* ii. 219. — *Ste. M.* v. 347. — Rather elongate; flattish; black; shining, glabrous; head sparingly punctured, with 4 impressions placed 4-gonally; thorax thickly punctured, and with 2 oblong foveæ; elytra pitchy, closely punctured; abdomen smooth, its apex pitchy; legs and base of antennæ testaceous, 6 terminal joints of the latter black and moniliform. (L. 1⅛ l.) Boleti: London district; Suffolk; Bristol: 4-6.

3420 brunnipenne *Marsham.* — *Ste. M.* v. 348. — Rather elongate; pitchy-black; shining; thickly punctured; head flat; thorax with 2 shallow foveæ on the disc; elytra brown, much punctured, the punctures somewhat disposed in striæ; legs and antennæ brown. (L. 1¼ l.) Boleti: London district; Norfolk; Suffolk: 4-6.

3421 picinum *Kirby.* — *Ste. M.* v. 348. — Linear; pitchy-black; very glabrous and thickly punctured; thorax with an obscure dorsal channel; abdomen very dull pitchy-black; smooth; legs pitchy, tarsi red; antennæ nearly filiform, black, the tip and the palpi reddish. (L. 1¼ l.) Boleti: London district; Devon: 4-6.

§ B. *Thorax* somewhat 4-drate.

3422 brunneum *Pk. F.* iii. 404. — *Ste. M.* v. 348. — Red-brown; shining; punctured: head dusky; eyes black; elytra somewhat punctate-striate, the tips dusky; abdomen strongly margined, the penultimate segment pitchy-black; legs pale testaceous-red; antennæ and palpi red. (L. 1-2 l.) Boleti, flowers, &c.: London district; South Creek, Norfolk; Suffolk: 4-6.

3423 iopterum *Kirby.* — *Ste. M.* v. 349. — Red, shining; thickly punctured; the punctures disposed in close-set striæ on the elytra; head, breast, suture, and tips of the elytra, and apex of abdomen, black; legs, base of antennæ, and palpi red. (L. 1-1½ l.) Boleti, &c.: London district; Suffolk; New Forest; Devon: 4-6.

3424 sordidum *Kirby.* — *Ste. M.* v. 349. — Dull testaceous yellow; very finely punctured; eyes black; elytra pale; abdomen dusky; legs and base of antennæ ochreous, tip of the latter black. (L. 1¼ l.) Boleti: London district; Essex: 4-6.

3425 striatum *Grav. Mi.* 119. — *Ste. M.* v. 349. — St. minutus *Oliv.* iii. 42. pl. 6. f. 53. — Black; rather shining; glabrous; punctured; thorax with an obscure dorsal channel and 2 foveæ; elytra pitchy-black, punctate-striate; abdomen broad; legs, base of antennæ, and palpi red, or testaceous, apex of antennæ dusky. (L. 1 l.) Boleti, &c.: London district; Barham; Norfolk; New Forest; S. Wales: 4-6.

3426 subpubescens *Kirby.* — *Ste. M.* v. 350. — Linear; shining black, with a pale silken pile, especially on the thorax and elytra; thickly punctured; abdomen broadish; legs pale testaceous, thighs darker, hinder ones dusky; antennæ black, with the base pale. (L. 1 l.) Boleti: London district; Suffolk; Yorkshire: 4-6.

3427 exiguum *Gyll.* ii. 218. — *Ste. M.* v. 350. — Black, obscure, thickly punctured; mouth pitchy; thorax with 2 oblong basal foveæ; elytra flattish, pitchy-black, deeply and roughly punctured; abdomen rather glossy, smooth, strongly margined; legs testaceous; antennæ dusky-black. (L. ¾ l.) Boleti: London district: 4-6.

3428 nigricolle *Kirby.* — *Ste. M.* v. 357. — Black, or pitchy-black; glabrous; punctured; thorax somewhat 4-drate, the margin reddish; elytra dusky-red; legs, palpi, and antennæ red. (L. 1½ l.) Hedges: London district and Suffolk: 4-6.

§ C. *Thorax* transverse.

a. Thorax obsoletely, or not, foveolated.

3429 florale *Pk. F.* iii. 406. — *Ste. M.* v. 350. — Pitchy-black, shining; punctured; thorax with 2 very obsolete foveæ; elytra finely punctured, the punctures somewhat disposed in striæ; legs reddish; tarsi slightly dilated; mouth pitchy; antennæ and palpi black. (L. 1½-2 l.)

Var. ? Om. Viburni *Grav. Mi.* 117. — *Ste. M.* v. 351. — Elytra dusky or brown; legs pitchy, thighs dusky. Hedges: London district; and generally distributed: 3-8.

3430 Salicis *Gyll.* ii. 226. — *Ste. M.* v. 351. — Black, shining; flattish; deeply punctured; thorax with 2 slight bent foveæ; elytra rather convex, somewhat regularly punctate-striate, especially near the suture; legs and antennæ testaceous, or rusty-red, tip of the latter dusky; mouth red. (L. 1½-2 l.) Hedges: London district: 4-6.

3431 ruficorne *Kirby.* — *Ste. M.* v. 352. — Pitchy-black; slightly shining; glabrous; finely punctured; margins of thorax pitchy-red, disc with 2 obscure foveæ; elytra with the punctures faintly disposed in striæ; abdomen very obscurely punctured, tip pitchy-testaceous; legs and antennæ testaceous; palpi red. (L. 1¾ l.) Hedges: Bristol; Suffolk; Norfolk: 4-6.

3432 Salicinum *Gyll.* iv. 467. — *Ste. M.* v. 352. — Flattish; black; glabrous; thickly and deeply punctured; thorax with 2 oblong, very obscure foveæ; the lateral and hinder margins, and sometimes the anterior one, dull red; punctures on the elytra disposed in striæ; apex of abdomen occasionally reddish; legs and base of antennæ testaceous, apex of the latter dusky. (L. 1¼ l.) Hedges: London district: 4-6.

3433 læve *Grav. Mo.* 211. — *Ste. M.* v. 352. — Flat; black, shining; finely punctured; head large; thorax with 2 oblong obscure foveæ, the sides more or less testaceous; elytra rather long, simply punctured; abdomen smooth, sometimes testaceous; legs, and 2 or 3 basal joints of the antennæ, testaceous; terminal joint of the latter black. (L. 1¾ l.) Hedges: London district: 4-6.

3434 pilosulum *Kirby.* — *Ste. M.* v. 353. — Pitchy-black; very much punctulated; rather shining and clothed with a short pile; head neither punctured nor foveolated; thorax with an obscure dorsal line; legs, antennæ, and palpi red. (L. ⅓ l.) Boleti: London district; Bristol; Yorkshire: 4-6.

3435 pusillum *Gyll.* ii. 218. — *Ste. M.* v. 353. — Flat; black; slightly shining; faintly punctured; thorax with the sides flattened, the disc dusky-brown, opaque, with 2 oblong, minute, obscure foveæ; elytra dusky-brown; legs, antennæ, and mouth dull-testaceous, tips of antennæ dusky. (L. 1 l.) Hedges: London district: 4-6.

b. Thorax deeply foveolated.

3436 foveolatum *Kirby.* — *Ste. M.* v. 353. — Black; rather obscure; glabrous; smooth: thorax dull brown, with 4 largish impressions placed transversely; elytra much longer than the thorax, brown, very smooth; abdomen black, or pitchy; legs pale-testaceous; antennæ testaceous, apex dusky. (L. ¾ l.) Hedges: London district: Suffolk.

3437 piceum *Kirby.* — *Ste. M.* v. 354. — Pitchy-red; finely punctured; thorax with 4 short foveæ behind, the side ones broadest and oblique; elytra pitchy, shoulders testaceous; abdomen pitchy, tip red; legs and antennæ testaceous, 5 terminal joints of the latter dusky. (L. 1½ l.) Hedges: London district; Suffolk; Devon; Raehills: 4-6.

3438 cæsum *Knoch.* — *Grav. Mo.* 209. — *Ste. M.* v. 354. — Black; slightly

shining; very thickly and very finely punctured; thorax with 2 short ovate foveæ; legs reddish; antennæ dusky testaceous, the base blackish; palpi testaceous. (L. 1⅓ l.) Hedges: London district; Suffolk; Norfolk; Devon: 4-6.

3439 Oxyacanthæ *Knoch.*—*Gyll.* ii. 217.—*Ste. M.* v. 355. — Black; obscure; very thickly punctured; thorax with 2 elongate bent foveæ, and a minute basal impression; legs reddish; antennæ dusky-testaceous, the 2 basal joints black. (L. 1¼ l.) Hedges: London district: 4-6.

3440 rivulare *Pk. F.* iii. 407. — *Pz. F.* xxvii. f. 15. — *Ste. M.* v. 354. — Black; slightly shining; rather deeply punctured; thorax with 2 deep longitudinal bent foveæ, and an obsolete one on each side towards the outer margin; elytra testaceous, or pitchy-brown, rarely dusky, with the shoulders testaceous; legs and base of antennæ dull testaceous, tip of the latter black. (L. 1¾-2 l. Hedges, and generally distributed: ⊙ ✶.

3441 fuscum *Ste. M.* v. 355. — Pitchy-brown; shining; punctured; thorax with 2 moderately deep short foveæ, and a slight depression on each side towards the hinder margin; elytra fuscous-brown, ratherly coarsely punctured; abdomen black; legs pitchy; antennæ black. (L. 1¼ l.) Hedges: London district: 4-6.

3442 excavatum *Kirby.* — *Ste. M.* v. 355. — Flat; black, shining; thorax with the margins elevated, the disc with 2 deep oblong, approximating, dorsal foveæ; elytra thickly but faintly punctured, with a slightly elevated line, strongly margined; legs pitchy, tibiæ and tarsi paler; antennæ black. (L. 1½ l.) Hedges: London district; Suffolk: 4-6.

3443 subrugosum *Ste. M.* v. 356. — Black; shining; punctured; thorax with 2 deep longitudinal foveæ, divided by a smooth space; elytra pitchy, somewhat roughly and very thickly punctured; apex of abdomen occasionally pitchy; legs red; antennæ pitchy. (L. 1½ l.) Hedges: London district: 4-6.

3444 pygmæum *Pk. F.* iii. 410. — *Ste. M.* v. 356. — Oblong-ovate, convex; testaceous red, pubescent; thickly and finely punctured; head pitchy-red; thorax with a basal impression; elytra with rather coarse scattered punctures; abdomen with the penult. segment sometimes pitchy; legs and antennæ testaceous. (L. 1 l.) Hedges: London district: 4-6.

3445 Primulæ *Kirby.*—*Ste. M.* v. 356.—Wedge-shaped, pitchy-black; shining; glabrous; punctured; thorax with a deep basal fovea, the sides rounded; elytra obliquely truncate, slightly margined; legs pale red; antennæ dull red, the base paler; palpi red. (L. 1¼ l.) On flowers of primrose: London district; Suffolk: 4-6.

3446 latum *Ste. M.* v. 357. — Broad; shining black; punctured; thorax somewhat 4-drate-transverse, with 2 deep bent dorsal foveæ in the middle, and a single shallow one on each side towards the hinder angles; elytra pitchy, rather thickly punctate-striate; legs, palpi, and antennæ testaceous. (L. 1¾ l.) Hedges: London district: 4-6.

677 Acidota *Kirby.*

3447 crenata. *Fab. E.* ii. 596. — *Ste. M.* v. 358. pl. xxvi. f. 6. *a-d.* — Black; shining; glabrous; punctured; sides of thorax, legs, and elytra brown, the latter punctate-striate; antennæ reddish, pilose. (L. 2½-3 l.) Amongst decaying firs: N. of England and Scotland; also Norfolk; rare near London: 5-6.

3448 rufa *Grav. Mi.* 115. — *Ste. M.* v. 358. — Red; shining, very glabrous; punctured: thorax with a large fovea, and 2 obsolete dorsal grooves towards the base; elytra somewhat punctate-striate; legs pale red. (L. 1½-2½ l.) N. of England, and in Scotland: 5-7.

678 DELEASTER *Erichson.*

3449 dichroa *Grav. Mi.* 188. — *Ste. M.* v. 359. — Le. Leachii *Cur.* vii. pl. 303. — Red; shining; glabrous; smooth: head black, mouth and palpi reddish; thorax with 3 foveæ; abdomen and tips of elytra black; breast pitchy; legs and antennæ pale red. (L. 2¾-3 l.) Under stones: N. of England, near Carlisle; Barmouth; Raehills and Braid Burn, near Edinburgh: 4-6.

679 LESTEVA *Latreille.*

3450 caraboides *L.* ii. 685. — *Oliv. E.* iii. 22. pl. 2. f. 17. — *Ste. M.* v. 360. — Red; very much punctured above; head with 2 foveæ behind; eyes black: thorax heart-shaped; glossy: elytra yellowish red; abdomen with a blackish spot on the back; legs and antennæ pale yellowish-testaceous. (L. 2 l.) Under stones, &c.: rare near London; N. of England; Scotland; and S. Wales: 4-6.

3451 globulicollis *Man. Pr.* 56. — *Ste. M.* v. 360. — Black; rather glossy; pubescent; deeply punctured; forehead with 2 deep foveæ: thorax heart-shaped, elevated in front, somewhat globose, with an obscure dorsal channel; elytra coarsely punctured; legs and base of antennæ red. (L. 2 l.) Scotland, on Ben Nevis: 6.

3452 canaliculata *Kirby.* — *Ste. M.* v. 360. — Pitchy-black; pubescent; rather shining; head with 2 faint foveæ, and 2 slight frontal impressions; thorax convex, with a dorsal channel, terminating in a fovea at the base; elytra rather coarsely punctured; legs dull red; antennæ pale, middle dusky. (L. 2 l.) Cumberland, and near Edinburgh: 10-4.

3453 Hookeri *Kirby.* — *Ste. M.* v. 361. — Black; shining; glabrous; punctured; head with 2 small foveæ, and 2 oblique impressions; thorax convex, thickly punctured, with a very obscure dorsal channel; elytra livid testaceous, base dusky within; legs testaceous, antennæ dull red, the middle darkest. (L. 1⅔ l.) Also found in Scotland: 6.

3454 alpina *Fab. E.* ii. 598. — *Oliv. E.* iii. 32. pl. 6. f. 55. — Flat; wedge-shaped; pitchy-red, shining, punctured; head unequal, with 2 frontal foveæ; eyes black; thorax with 2 obscure foveolets in the middle; elytra yellowish-testaceous, pubescent; abdomen black, dilated beyond the middle; legs livid yellowish; antennæ testaceous: — head and disc of thorax sometimes pitchy-black. (L. 1½ l.) Under stones: London district; Scotland: 5-6.

3455 testacea *Grav. Mi.* 121. — *Ste. M.* v. 361. — Rusty-red, or testaceous; shining; punctured: head red, with deep foveæ between the eyes; the latter black; thorax convex, shining red, glabrous; elytra pale, rather deeply punctured; tip of abdomen black, or dusky; legs and antennæ testaceous. (L. 2 l.) Stones: Darenth Wood; Bristol; Jedburgh: 5-6.

3456 obscura *Pk. F.* iii. 388. — *Ste. M.* v. 361. — Car. dimidiatus *Pz. F.* xxxvi. f. 3. — Pitchy-black, obscure, pubescent; thickly punctured: forehead with 2 oblong impressions; thorax with 2 very obscure foveæ on the disc; elytra flat, pitchy, thickly and finely punctured; abdomen black; legs dull testaceous, knees dusky; antennæ pitchy-red. (L. 2 l.) Under stones: widely distributed: ⊙ ⁎.

3457 plagiata *Pk. F.* iii. 387. — *Ste. M.* v. 362. — Black; shining; slightly pubescent; thickly punctured; front with 2 deep foveæ; thorax with a basal impression; elytra with an oblong red stripe on the disc; abdomen large, ovate; base of the thighs reddish; palpi and base of antennæ pitchy. (L. 2½ l.) Rare near London; Scotland: 6.

3458 rufitarsis *Kirby.* — *Ste. M.* v. 362. — Black; shining; punctured; head with 2 foveæ behind the eyes; mandibles pitchy; thorax with an

obscure basal fovea; elytra depressed at the base towards the suture; legs black; tarsi slender, red; antennæ black. (L. $1\frac{3}{4}$ l.) Under stones: Charlton Wood, and Devonshire: 5-6.

3459 nigripes *Ste. M.* v. 363. — Deep black, somewhat obscure; slightly pubescent; finely punctured; forehead with 2 deep foveæ; thorax not foveolated; elytra nearly as long as the abdomen; legs totally black; antennæ dusky-black. (L. $1\frac{1}{2}$ l.) Under stones, &c.: London district: 6.

3460 impressa *Kirby.* — *Ste. M.* v. 363. — Dull red, pubescent; rather shining; thickly punctured; head dusky, with 2 frontal foveæ; eyes black; thorax irregularly impressed; elytra with 2 obscure foveæ near the suture; abdomen black; smooth; legs and antennæ pale red. (L. $1\frac{1}{2}$ l.) London district; Bristol, and Barham: 3-6.

3461 planipennis *Kirby.* — *Ste. M.* v. 363. — Linear; black; slightly shining; and rather pubescent: head with 6 foveæ; thorax irregularly impressed, and with a smooth dorsal ridge; elytra flat, lurid, base near the suture dusky; legs livid; antennæ dull red. (L. $1\frac{2}{3}$ l.) In Yorkshire, near Hull; Bristol: 6.

3462 Kirbii *Ste. M.* v. 363. — Brown-black; very finely punctured, and densely pubescent; head with 2 impressions; thorax with 2 foveæ in the middle of the disc, and 1 basal in front of the suture: legs and antennæ red. (L. $1\frac{1}{2}$ l.) North Wales: 6.

APPENDIX.

Page 8. LEBIA.

34 Dele " Zoological Gardens, Regent's Park."

34 *b* † ephippium. — Pale red; eyes and a broad band behind the middle of the elytra, produced 3-angularly forwards on the suture towards the scutellum, black; tips of antennæ fuscescent. (L. 2¼ l.) Zoological Gardens, Regent's Park: 6.

Page 120. — Nos. 953 and 954. (§ A. *Ste. M.* iii. 42.) form the genus CRYPTARCHUS *Shuckard.*

Page 135. — 1092 Ips? ferruginea forms the type of PITYOPHAGUS *Shuckard.*

Page 139. — Gen. 192 *b.* TEREDUS *De Jean.* — *Ant.* 11-jointed; club 2-articulate, terminal joint obtuse: *tho.* convex-cylindric, elongate, sides entire. *body* linear-cylindric: *elytra* entire: *tarsi* 4-jointed.

1119 *b* † nitidus *Fab. E.* ii. 563. — *Shuck. B. C.* pl. 34. f. 6. — Black; glabrous: antennæ, palpi, and legs dull red; elytra very finely punctate-striate. (L. 1¾ l.) Under bark of trees: Sherwood Forest: 6.?

Page 141. — Gen. 201 § B. BIOPHLÆUS *De Jean,* is PEDIACUS *Shuck. B. C.* pl. 34. f. 2.

Page 147. — Gen. 222 *b.* TERETRIUS *Erichson.* — *Body* elongate, flat: *mand.* retracted: *prostern.* rounded behind: *elytra* not striated; *tibiæ* broad, dilated, compressed, toothed.

1230 *b* picipes *Fab. E.* i. 92. — *Shuck. B. C.* pl. 41. f. 6. — Black, shining, punctured; antennæ and legs pitchy-red. (L. 1-1¼ l.) Old palings: Camberwell; Windsor: 6.

Page 152. EPIERUS.

1227 14-striatus. — Dendrophilus 14-striatus *Shuck. B. C.* pl. 41. f. 3.

Page 173. AGRILUS.

A new and beautiful species of this genus has recently occurred in Dumfriesshire, in June: it will shortly be described by Mr. Shuckard: it appears greatly allied to A. mendax *Man. Enu.* p. 111.

Page 191. RAGONYCHA.

1511 *b* † fulvicollis *Stephens.* — Black; head tawny-red, with a yellowish patch beneath each eye; thorax bright tawny, the margins a little dusky; base of scutel reddish; elytra roughish, dusky black; body beneath, coxæ, and base of anterior thighs tawny-chestnut; legs brown-black. (L. 4½ l.) Hedges: Deal: 6.

Page 200. PTINUS.

(1581 *b* hololeucus *Falderman*? — Pale ochreous-red; densely clothed throughout with a pale ochreous silky down. (L. 1½-2 l.) Houses London, ⊙; whitethorn hedge, Ryde, 6; but probably introduced.)

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Brachinus	5	6	9
Brachyderes	1	215	251
Brachysomus	1	214	246
Brachytarsus	2	265	267
*Bradytus	6	20	39
Bromius	(2)	304	
Broscus	1	20	34
BRUCHIDÆ		205	264
Bruchus	12	264	265
Bryaxis	7	345	346
BUPRESTIDÆ		171	171
Buprestis	1	171	172
BYRRHIDÆ		143	144
Byrrhus	9	144	145
Bythinus	4	345	348
Byturus	1	124	131
Cacicula	2	313	319
Cælioides	1	210	219
Cafius	2	385	399
Calandra	2	210	216
Calathus	11	19	28
Callicerus	1	350	357
Callidium	8	269	274
*Calomicrus	1	288	294
Calodera	4	350	354
Callistus	1	19	24
Calopus	1	336	338
Calosoma	3	13	16
*Campta	1	116	120
*Campylis	1	176	184
CANTHARIDÆ		321	334
Cantharis	1	334	335
CARABIDÆ		4	13
Carabus	20	13	14
Cardiapus	1	289	301
Cardiophorus	3	176	182
Carpalimus	9	416	419
*Carpophilus	2	116	122
Caryoborus	1	264	265
Cassida	18	286	286
CASSIDIDÆ	2	285	286
Cateretes	12	117	122
Catops	16	109	111
CEBRIONIDÆ		184	185
Celia	(4)	38	
Centroglossa	6	352	372
CERAMBICIDÆ		268	268
Cerambyx	2	268	270
*Ceranota	1	351	369
Cercyon	54	93	93
Cerophytum	1	174	175
Cerylon	4	125	139
Cetonia	2	170	170
CETONIIDÆ		154	170
Ceutorhynchus	23	211	223
*Chætarthria	1	88	92
*Chætocnema	6	289	302
*Chephorus	1	20	35
Chilocorus	5	313	313
Chlænius	8	19	24
Chlorophanus	1	215	252
Choleva	3	109	112
Choragus	1	264	265
Chrysobothris	2	171	172
Chrysomela	27	303	308
CHRYSOMELIDÆ		285	303
Cicindela	6	4	5
CICINDELIDÆ		4	4
Cicones	1	134	136
Cillenum	1	51	52
Cionus	4	210	218

Cis - -	13	202	203
Cistela - -	5	327	327
CISTELIDÆ -		320	327
* Clambus - -	5	99	107
Claviger - -	1	346	349
Cleonus -	4	215	251
* Cleopus - -	1	210	219
Clerus - -	2	196	197
Clivina - -	2	10	11
Clythra - -	5	303	306
Clytus - -	8	270	275
Cnemidotus -	1	61	64
Coccinella -	32	313	314
COCCINELLIDÆ -		313	313
Colaspis - -	1	303	303
Colydium -	1	134	138
Colymbetes -	43	62	71
Conopalpus -	2	336	338
* Conurus - -	12	352	377
* Cophosus -	1	20	34
Copris - -	1	155	155
Coprophilus -	1	422	423
Corticaria -	11	124	129
* Corylophus -	1	99	107
Corynetes - -	1	196	198
* Coryphium -	1	424	427
Cossonus - -	2	210	216
* Creophilus -	2	384	386
Crepidodera -	(11)	294	
CRIOCERIDÆ -		280	280
Crioceris - -	7	281	284
Cryptarchus -	(2)		433
Crypticus - -	1	322	324
Cryptobium -	1	385	404
Cryptocephalus -	22	303	304
Cryptohypnus -	4	176	180
Cryptophagus -	15	134	136
Cryptorhynchus -	1	211	226
* Ctenicerus -	7	176	181
Cteniopus - -	1	327	328
* Ctenonychus -	1	176	183
CUCUJIDÆ - -		109	141
Cucujus - -	9	141	141
CURCULIONIDÆ -		205	210
* Curtomerus -	2	269	275
* Curtonotus -	2	21	39
Cybister - -	1	62	78
Cychrus - -	3	13	13
CYCLICA - -		3	285
Cyclonotum -	1	92	93
Cycnegetis - -	(2)	317	
Cylindera -	1	269	273
Cymatopterus -	(3)	71	
Cyphon - -	17	185	185
CYPHONIDÆ -		184	185
Dasytes - -	7	193	195
Deinopsis - -	1	352	372
Deleaster - -	1	422	431
Deliphrum -	1	422	426
Demetrias -	3	5	6
Dendroctonus -	1	206	209
Dendrophilus -	5	147	152
Deporaüs - -	1	253	262
Dermestes - -	5	140	140
DERMESTIDÆ -		109	140
Diachromus - -	1	21	48
Dianoüs - -	1	407	409
DIAPERIDÆ -		320	324
Diaperis - -	2	324	325
* Dibolia - -	2	289	301
Dicerca - -	1	171	172
Diglossa - -	1	351	372
* Dinarda - -	1	351	371
* Dinoderus -	2	203	204
* Diplocheilus -	1	19	23
Dircæa - -	1	329	330
* *Disopus* - -	(1)	304	
* Distomus -	1	10	13
* Dolichosoma -	1	193	196
Dolopius - -	1	175	177
Donacia - -	21	280	281
Dorcatoma -	3	198	200
Dorcus - -	1	154	154
Dorytomus - -	9	212	235
Drasterius - -	1	176	180
Drilus - -	1	187	187
Dromius - -	21	5	6
Dryophilus -	1	199	202
Dryops - -	1	81	81
Drypta - -	1	5	6
Dyctiopterus -	3	187	187
Dynastes - -	2	167	167
DYNASTIDÆ -		153	167
Dyschirius -	16	10	11
DYTICIDÆ - -		61	61
Dyticus - -	8	62	77
Eburia - -	1	268	270
* Ecanus - -	1	133	134
Ectinus - -	1	175	178
Elaphidion - -	2	268	270
ELAPHRIDÆ - -		4	59
Elaphrus - -	4	60	60
Elater - -	10	175	179
ELATERIDÆ - -		171	175
Ellescus - -	1	212	239
Elmis - -	9	81	82
* Emus - -	1	384	386
* Encephalus -	1	351	367
ENDOMYCHIDÆ -		313	320

Endomychus -	1	320	320	
Engidæ - -		108	134	
Engis - -	2	134	135	
*Enicocerus -	3	83	85	
*Enicopus -	1	193	195	
**Entomoscelis* -	(1)	310		
*Epaphius -	1	22	50	
*Ephistemus -	4	98	101	
Epierus - -	1	147	150	433
Epomis - -	1	18	23	
Erirhinus -	3	212	234	
Erotylidæ -		108	133	
*Eryx - -	1	327	327	
Evæsthetus -	1	407	415	
Eubria - -	1	185	187	
Eucnemidæ -		171	174	
Euplectus -	9	345	348	
Euglenes - -	1	336	338	
Eumicrus -	(2)	342		
Eumolpus -	4	303	304	
Eupoda - -		3	280	
Euryporus -	1	384	389	
*Eutheia - -	1	342	344	
*Falagria -	11	350	353	
*Gabrius -	14	385	400	
Galeruca - -	11	288	289	
Galerucidæ -		285	288	
Gastrophysa -	(3)	312		
Geodephaga -		1	4	
Georyssus -	1	81	83	
Geotrupes -	9	157	157	
Geotrupidæ -		153	157	
Gibbium - -	1	198	200	
*Goërius - -	8	384	387	
Gonioctena -	(4)	311		
Gracilia - -	1	270	275	
*Grammoptera -	6	277	279	
Graphoderus -	(1)	77		
Graptodera -	(3)	395		
Gronops - -	1	212	236	
Grypidius -	1	212	234	
Gymnaëtron -	1	210	217	
Gymnusa -	1	351	372	
Gyrinidæ -		61	78	
Gyrinus - -	8	78	78	
Gyrophæna -	7	351	366	
Habrocerus -	1	352	376	
Haliplus -	14	61	62	
Hallomenus -	3	329	330	
Haltica - -	42	288	291	
Harpalidæ -		4	18	
Harpalus -	51	21	40	
*Heliophilus -	2	321	324	
*Helobia - -	7	13	16	
Helocera -		2	143	
Helodes - -	2	303	311	
Helophoridæ -		80	83	
Helophorus -	11	83	84	
Helopidæ -		320	326	
Helops - -	5	326	326	
*Hesperophilus -	5	416	417	
Heteroceridæ -		79	80	
Heterocerus -	5	80	80	
Heteromera -		4	320	
*Heterothops -	1	385	401	
Hippodamia -	(3)	317		
Hispa - -	1	286	286	
Hispidæ -		285	286	
Hister - -	22	147	148	
Histeridæ -		143	147	
Holoparamecus -	1	124	127	
Homalota -	1	350	357	
Hoplia - -	2	168	169	
Hydaticus -	4	62	76	
Hydradephaga -		1	61	
Hydræchus -	1	88	89	
Hydræna -	12	83	87	
Hydrobius -	4	88	90	
Hydrochus -	3	83	83	
Hydronomus -	1	212	234	
Hydrophilidæ -		80	88	
Hydrophilus -	1	88	89	
Hydroporus -	46	62	66	
Hygronoma -	1	350	356	
*Hygrotus -	10	62	65	
Hylastes - -	9	206	209	
Hylecætus -	1	202	202	
Hylesinus -	8	205	207	
Hylobius - -	2	213	240	
Hylotrupes -	1	269	274	
Hypera - -	22	212	236	
Hyperaspis -	(2)	314		
Hyphidrus -	2	62	64	
Hypocyptus -	6	352	376	
Hypolithus -	2	175	180	
Hypophlæus -	4	321	322	
Hypothenemus -	1	206	209	
Hypulus - -	1	329	330	
Ilybius - -	(8)	75		
Ips - -	5	134	135	
**Isarthron* -	(1)	275		
*Ischnomera -	5	336	336	
*Ischnopoda -	7	350	355	
Labidostomis -	(3)	306		
Laccobius - -	8	88	91	

Laccophilus -	2	62	71	
Lachnaia - -	(1)	306		
Læmophlæus -	(7)	141		
Lagria - -	1	328	328	
LAGRIIDÆ -		320	328	
LAMELLICORNES -		2	153	
Lamia - -	1	269	272	
Lampra - -	1	171	172	
Lamprias - -	4	5	8	
LAMPYRIDÆ -		184	187	
Lampyris - -	2	187	187	
Larinus - -	1	215	252	
*Lasioderma -	1	198	200	
Lathrimæum -	6	422	426	
Lathrobium -	15	386	405	
Latridius - -	12	124	128	
Lebia - -	4	5	8	433
Leioides - -	34	99	102	
Leionotus -	(2)	77		
Leiosoma -	1	213	239	
Leiophlæus -	1	214	241	
Leiopterus -	(2)	72		
Leiopus - -	1	269	272	
Leistus - -	8	13	17	
Leptacinus -	4	385	404	
Leptura - -	11	277	278	
LEPTURIDÆ -		268	277	
Lesteva - -	13	422	431	
Licinus - -	3	18	23	
Limnebius -	9	88	88	
Limnichus -	1	144	145	
LIMNIIDÆ -		79	81	
Limonius -	5	175	178	
Liophlæus -				
Lissodema -	1	134	139	
Lixus - -	5	215	251	
Lomechusa -	1	351	371	
LONGICORNES -		3	268	
*Lopha - -	13	51	57	
Loricera - -	1	18	22	
LUCANIDÆ -		153	154	
Lucanus - -	1	154	154	
Ludius - -	1	176	181	
Luperus - -	2	288	291	
Lycoperdina -	1	320	320	
Lyctus - -	1	134	139	
Lygistopterus -	(2)	188		
Lymexylon -	1	202	202	
LYMEXYLONIDÆ		184	202	
*Lymnæum -	2	51	51	
Lyprus - -	1	211	227	
*Macrocnema -	17	289	299	
Macroplia -	2	280	284	
Magdalis -	4	215	252	
Malachius -	16	193	193	
MALACODERMA -		3	184	
Malthinus -	19	188	191	
*Mantura -	6	288	299	
Masoreus -	1	21	48	
Mastigus - -	1	342	342	
*Mecinus - -	3	210	217	
*Medon - -	2	406	407	
*Megacronus -	8	352	380	
*Megaladerus -	1	342	344	
Megatoma -	1	142	143	
*Megarthrus -	8	422	423	
Megischia -	1	327	328	
Melandrya -	2	328	328	
MELANDRYIDÆ -		328	328	
Melanophila -	1	171	172	
*Melanotus -	1	176	181	
Melasis - -	1	174	174	
*Melasoma -	6	303	307	
*Meligethes -	15	116	120	
Meloë - -	4	334	335	
Melolontha -	3	167	168	
MELOLONTHIDÆ -		154	167	
MELYRIDÆ - -		184	193	
Merionus - -	2	213	240	
Mesosa - -	1	269	272	
Metallites - -	(2)	249		
Mezium - -	1	198	200	
Miarus - -	3	210	218	
Miccotrogus -	2	211	229	
Micralymma -	1	422	427	
Micraspis - -	(1)	114		
Microdera -	(4)	307		
Micropeplus -	4	117	123	
Microrhagus -	1	174	174	
*Microsaurus -	1	384	389	
Microzoum -	(1)	323	373	
Miscodera - -	1	20	34	
Misolampus -	1	326	326	
*Mniophila -	1	289	303	
Molytes - -	2	213	239	
Monochamus -	3	268	270	
Mononychus -	1	211	226	
Monotoma -	3	134	138	
Mordella - -	11	331	332	
MORDELLIDÆ -		321	331	
*Mycetæa -	2	124	127	
Mycetocharus -	1	327	327	
MYCETOPHAGIDÆ -		108	123	
Mycetophagus -	6	124	132	
Mycetoporus -	12	352	381	
Mycterus -	1	339	340	
Mylæchus -	1	109	110	
Myllæna - -	2	351	372	

*Nacerda	(1)	337	
Nebria	4	13	16
Necrobia	4	196	198
Necrodes	1	113	114
NECROPHAGA		2	108
Necrophorus	8	113	113
Necydalis	3	270	276
Nedyus	34	210	219
*Nemoicus	1	214	249
Nemosoma	1	134	139
Nitidula	26	116	117
NITIDULIDÆ		108	116
Nosodendron	1	144	145
*Notaphus	9	51	56
Notaris	3	212	234
Noterus	2	62	70
Nothus	2	336	338
Notiophilus	6	59	60
NOTOXIDÆ		321	340
Notoxus	2	340	340
Oberea	(3)	273	
Obrium	1	270	275
Ocalea	1	350	354
*Ochina	1	199	202
Octhebius	11	83	85
*Ocypus	5	384	388
*Ocys	3	51	53
Odacantha	1	5	6
*Odontonyx	1	19	28
Œdemera	5	336	337
ŒDEMERIDÆ		321	336
Oiceoptoma	5	113	114
Oligota	6	350	366
Olistophus	1	19	28
Olophrum	4	422	426
OMALIIDÆ		345	421
Omalium	32	422	427
*Omaloplia	1	167	168
Omaseus	12	20	32
Omias	(3)	243	
Omophlus	1	327	328
*Oncomera	1	336	337
*Oniticellus	1	155	156
Onthophagus	10	155	155
Onthophilus	2	147	148
Oödes	1	20	35
Oömorphus	1	144	147
Opatrum	2	321	323
Opilus	1	196	197
Ophonus	14	21	46
Orchesia	3	329	330
Orchestes	15	212	229
Orectocheilus	1	78	79
Orobitis	1	210	219
Orsodacna	4	281	284
Orthochætes		212	236
*Orthoperus		99	107
Oryctes	1	167	167
*Othius	11	385	401
Otiorhynchus	23	214	241
*Oxygnathus	1	10	11
*Oxyomus	4	159	165
Oxypoda	16	351	369
Oxyporus	2	384	389
Oxystoma	3	253	262
OXYTELIDÆ		345	416
Oxytelus	20	416	418
Pachyrhinus	6	211	227
*Pachyta	6	277	280
Pæderus	6	406	408
Pædiacus	(1)		433
Pælobius	1	62	64
Panagæus	2	18	22
*Pangus	1	21	46
*Panus	1	215	253
Paramecosoma	1	124	130
PARNIDÆ		79	81
Parnus	4	81	81
Paromalus	3	147	152
Patrobus	2	20	34
Pedinus	1	322	324
*Pella	5	350	355
*Penichroa	1	270	275
Pelophila	1	60	61
Peltis	1	113	116
*Peryphus	22	51	54
*Phædon	13	303	311
Phalacrus	24	98	99
Phaleria	1	324	325
PHILHYDRIDA		2	79
Philhydrus	7	88	90
*Philochthus	6	51	53
*Philonthus	44	385	394
Philopedon	3	214	244
Phlæocharis	1	421	423
Phlæöpora	2	350	356
Phloëobius	1	265	267
*Phloïophilus	3	124	131
*Phloïotrya	1	329	329
Phosphuga	2	113	116
Phratora	(2)	312	
*Phylan	1	322	324
Phyllobius	9	214	249
*Phyllopertha	3	167	169
Phyllotrata	(14)	291	
Phytœcia	(1)	273	

Phytosus -	1	416	417	
Pissodes -	3	212	326	
Pityophagus -	(1)		433	
*Placusa -	1	351	371	
Plagiodera -	(1)	313		
Platycerus -	1	154	154	
Platydema -	4	324	325	
*Platyderus -	1	19	30	
*Platynus -	2	19	25	
Platypus -	3	205	206	
Platyrhinus -	1	265	267	
Platysma -	1	20	35	
Platysoma -	3	147	153	
Platysthetus -	9	416	417	
Plinthus -	1	212	239	
Podabrus -	1	188	191	
Podagrica -	(8)	293		
Pœcilus -	4	19	31	
*Pogonocherus -	3	269	271	
Pogonus -	4	19	31	
Polistichus -	1	6	10	
Polydrusus -	12	214	248	
Polygraphus -	1	205	206	
*Polystoma -	1	350	354	
Poöphagus -	1	210	223	
*Pria - -	1	116	121	
PRIONIDÆ -		268	268	
Prionus -	1	268	268	
Pristonychus -	1	19	25	
*Procas -	1	213	236	
Procrustes -	1	13	14	
*Proscarabæus -	5	334	334	
Prosternon -	1	175	179	
Proteinus -	4	422	424	
Psammodius -	2	159	166	
*Psammæchus -	1	124	130	
PSELAPHIDÆ -		344	345	
Pselaphus -	4	345	346	
Pseudopsis -	1	422	423	
PSEUDOTETRAMERA		3	205	
PSEUDOTRIMERA -		3	313	
Pterostichus -	4	20	34	
Ptilinus -	2	198	199	
PTINIDÆ -		184	198	
Ptinus - -	8	198	199	433
Ptomaphagus -	7	109	110	
Ptosima -	1	171	173	
Purpuricenus -	1	268	270	
Pyrochroa -	2	340	340	
PYROCHROIDÆ -		321	340	
*Quedius - -	32	385	389	
Ragonycha -	5	188	191	433
Ramphus - -	1	253	262	
Rantus - -	(5)	71		
*Raphirus -	13	385	393	
Remus - -	1	385	401	
Rhagium -	3	277	277	
RHINCHOPHORA -		3	205	
Rhinobatus -	1	215	252	
*Rhinodes -	2	215	253	
Rhinomacer - -	1	264	265	
Rhinonchus -	12	211	224	
*Rhinusa - -	4	210	217	
*Rhisotrogus -	2	167	167	
Rhynchites -	18	253	262	
Rhyncolus - -	4	210	216	
Rhynocyllus -	1	215	252	
Rhytirhinus -	41	215	251	
*Rhyzobius -	1	313	319	
*Rhyzopertha -	2	203	205	
Rhyzophagus -	10	135	140	
Ripidius - -	1	331	334	
Ripiphorus -	1	331	334	
Rugilus - -	3	406	408	
*Rutidosoma -	1	211	226	
RYPOPHAGA -		2	79	
SALPINGIDÆ -		321	339	
Salpingus -	3	339	339	
Saperda - -	9	269	272	
Saprinus -	11	147	150	
Sarrotrium -	1	321	322	
SCAPHIDIIDÆ -		108	109	
Scaphidium -	1	109	109	
*Scaphisoma -	2	109	109	
SCARABÆDIÆ -		153	155	
Scarites - -	3	10	10	
SCARITIDÆ -		4	10	
Sciaphilus - -	1	214	246	
Scirtes - -	2	185	185	
SCOLYTIDÆ -		205	205	
Scolytus - -	3	205	208	
Scraptia - -	2	329	330	
SCYDMÆNIDÆ -		321	342	
Scydmænus -	16	342	342	
Scymnus - -	15	313	318	
*Selatosomus -	2	176	182	
Serica - -	1	167	168	
*Sericoderus -	1	99	108	
Sericosomus -	4	175	177	
Siagonium -	1	416	416	
Sibinia - -	3	212	229	
Silis - -	1	188	188	
Silpha - -	8	113	115	
SILPHIDÆ - -		108	113	

Silvanus	3	124	127
Silusa	1	351	372
*Simplocaria	2	144	147
Sinodendron	1	154	155
Sinoxylon	1	202	204
Sitaris	1	334	334
Sitona	13	214	246
*Sogines	1	20	32
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*** In the foregoing Index, the sectional and family names are in capitals, the synonymes in italics, and an asterisk is annexed to those genera whose characters were first *published* by me, although in several instances previously named by others. The first column of figures shows the number of species in each genus or subgenus; the second, the page where the description of the genus occurs; the third, the page where that of the species in the respective genera commences; and the fourth refers to the Appendix.

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