A generic and specific description of British plants / translated from the Genera et species plantarum of the celebrated Linnaeus. To which is prefixed an etymological dictionary ... And a glossary ... With notes and observations, by James Jenkinson.

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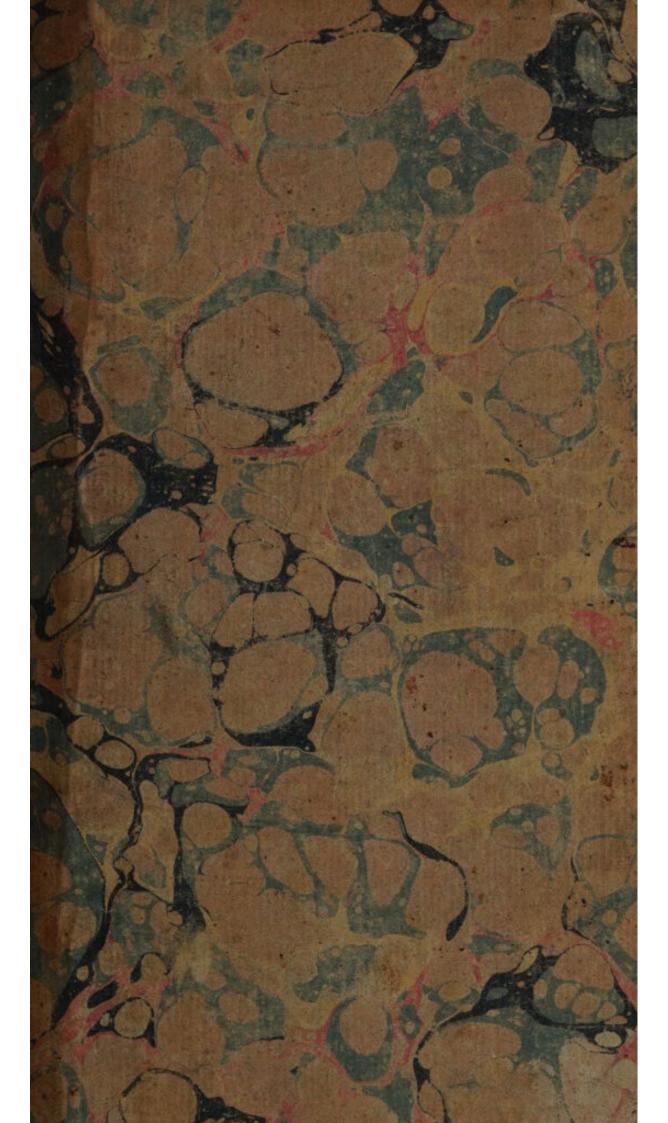
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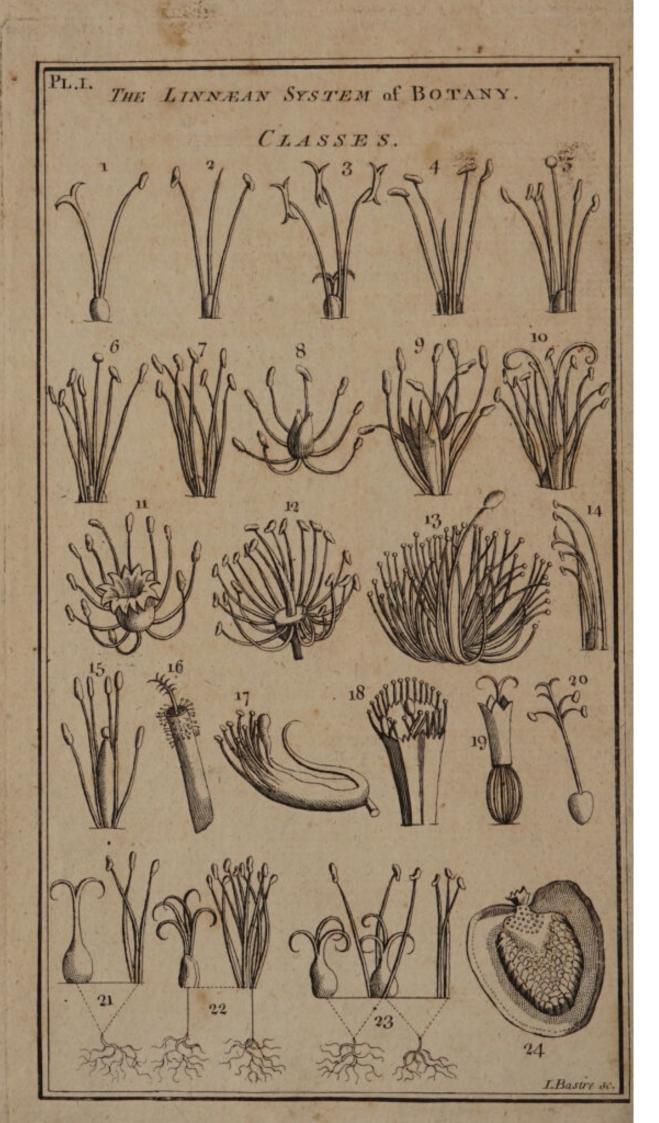


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GENERIC AND SPECIFIC

DESCRIPTION OF

BRITISH PLANTS,

TRANSLATED FROM THE

Genera et Species Plantarum

OF THE CELEBRATED

LINNÆUS.

TO WHICH IS PREFIXED

An ETYMOLOGICAL DICTIONARY explaining the Classes, Orders and Principal Genera.

AND

A GLOSSARY is added to explain the TECHNICAL TERMS.

WITH

NOTES AND OBSERVATIONS,

BY

JAMES JENKINSON.

KENDAL:

Printed, and fold by T. Caslon, and Hawes, Clark, and Collins, in London; J. Ashburner, in Kendal; and A. Ashburner, in Lancaster.

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INTRODUCTION.

A Translation of the Genera et Species Plantarum of the justly celebrated Linnæus, has hitherto been unattempted either in our own language, or any other, notwithstanding the reputation of the author, the merit of the performance, and the preference his Botanic System has obtained in the estimation of the learned of all nations.

It is not the Translator's design to enter into an investigation of the various systems of Botany, that have appeared from the time of Theophrastus, the first philosophic botanist, the disciple of Aristotle, who shourished in the third century, before the christian ara, to the appearance of the great northern luminary Dr Linnæus; it is sufficient that this system is now universally sollowed by the learned; an attempt therefore to present it in an english dress, certainly needs no appology: Nevertheless, the translator conscious to him-

felf

felf of the many difficulties attending a work of this nature, and fearful whether his words are adequate to convey the original fense in full perfection; offers this Description of British Plants, to the judgment of the impartial public, with the greatest diffidence.

The multitude of technical terms made use of in the original; terms of such a singular nature, has laid the translator under the necessity of using words, perhaps, not to be found in any english dictionary extant: In order therefore to remedy this inconvenience, a Glosfary is added, to elucidate what may appear too obscure, especially to the mere english student, for whom this is principally designed.

It may not be amiss to inform the reader, that some few compound words perhaps will occur, that are not explained in the glossary, such as cordato-ovate, by which is understood a leaf more approaching to an oval; but had it been ovato-cordate, it would have signify'd one more of the heart-shape than oval: The same must be observed of all compounds, as lanceolato-cordate, cordato-hastate, multisido-laciniated, &c.

The number of technical terms may be objected against the merit of the translation, but if it be considered that the size of the book, in order that it might be portable, was a primary consideration; every objection of that nature, will entirely vanish, for most certain

ly, if every botanical term had been expressed by a circumlocution, as often as any such occurs, the book must unavoidably have been swelled beyond a pocket size.

LINNÆUS has divided the whole tribe of plants into twenty four Classes, founded upon their fructification; these classes are divided into Orders, these orders into Genera, these genera into Species, and these species are subdivided sometimes into Varieties, to which, in this translation, are added notes and observations, taken part from Ray's Synopsis, Hudson's Flora Anglica, and from the translator's own remarks.

Grasses, Trees, Fungi, Alga, Mosses, and Exotics of every kind, are designedly for many reasons, omitted in this translation.

That the young student may enter upon this most agreeable study, with every advantage, he will here find a full explanation of the meaning of each class and order, so that with a little help and a good inclination to surmount every difficulty, for I pretend not to say but difficulties will arise, there can be no doubt but in a short time he will become a complete botanist. However, in order to introduce him into the method of classing plants according to the Linnaan System, the following plants are reduced to their classes, orders, and genera.

VERONICA.

VERONICA.

In the first place to determine the class, I carefully examine several flowers, to find the number of the stamina, which in this plant, I find to be two; I therefore fay it is of the Diandria class: I then examine the number of pistils which I find to be only one, I therefore conclude with certainty it is of the order of Monogynia; had the been two, I should have faid it had been of the Digynia, if three Trigynia, &c. To determine the genus, I first examine the cup, by the description in the book; then the flower, then the stamina, pistil, and fruit; every one of these concurring with the description, I conclude the plant to be of the genus of the Veronicas: If I chuse to go further, and distinguish the species, I examine the leaves, &c. and find the plant to be, Upright Spiked Male Speedwell or Fluellin, with flowers to the end of the spike, the leaves opposite, and obtusely crenated, and stalk quite simple and ascendent.

HOUSE-LEEK.

I examine the filaments or stamina, and find there are twelve in number, I then immediately say it is of the Dodecandria class, and because there are above sive pistils, I say it is of the order Polygynia.

STRAWBERRY.

I examine the *stamina* which I find to be more in number than nineteen, and the *cup* and *corolla* being according to the description of the twelfth class, and

the stamina inserted into the inner side of the cup or corolla, which is a distinguishing characteristic, I say it is of the *Icosandria* class, and there being more than five pistils, it is of the order *Polygynia*.

solvent and POPP Prox.

I first examine the stamina, and find them very numerous, always more than twelve, and inserted on the receptacle of the suture seed, whereby these plants are distinguished from those of the Icosandria class; I therefore say *Poppy* is of the *Polyandria* class, and there being but one pistil, it must be of the order *Monogynia*.

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I exercise the floreinas and find they coaldier at the

In order to class it, I carefully examine the filaments of several flowers, which I find to be four in number, am I then to conclude it is of the Tetrandria class? no, because upon further examination, I shall find that two of the stamina are longer than the other two, I therefore determine it to be of the Didynamia class, and because it has no seed-vessel, but the seeds are at the bottom of the cup, it must be of the order Gymnospermia.

tion the formation of D. A. D. F. L. A. X. and where

I examine the stamina, and find them four in number, but because two of them are longer than the other two, I determine it to be of the *Didynamia* class, and because there is a pericarpium or seed-vessel, whereby it is distinguished from the former plant, I pronounce it to be of the order *Angiospermia*.

SCURVY

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I first look at the stamina, which in this I find to be fix in number, I am not therefore hastily to pronounce it of the Hexandria class, because on further examination I shall find that four of the stamina are longer than the other two, I therefore say it is of the Tetradynamia class, and because it has a short pod, it is of the order Silicutiosa, if it had had a long pod, it would have been of the order Siliquosa.

. CRANE'S BILL. ... and gried

fore tay Posty is of the Popularia class, and there

I examine the stamina, and find they coalesce at the base, and form one body, I therefore determine it to be of the Monadelphia class, and because there are ten stamina, it must be of the order Decandria.

over that had the U.M. ITO R. Y. wit now observed

am I then to conclude it is of the Terranders clais? no.

Upon the first view of the flower, I see it is of the papilionaceous or buttersly-kind, and upon examining the stamina, I find they form two distinct dissimular bodies which coalesce at the base; the one above the pistil, the other surrounding it, I therefore pronounce, with certainty, that it is of the Diadelphia class, and because there are fix stamina, it must be of the order Hexandria.

LETTUCE.

ber, but because two of them are longer than the other

I first observe that it bears compound ligulated slowers, and that the florets are all hermaphrodite; I therefore

therefore immediately pronounce Lettuce of the Syngenesia class, and of the order Polygamia Aqualis.

ORCHIS.

I examine the stamina, and find them as in the difinition of the twentieth class, which is Gynandria, I therefore immediately rank it among the Gynandria Diandria plants.

NETTLE.

I examine the flowers, and find none that have both male and female parts, but find both on the fame plant, I therefore fay its of the Monoecia class, and because there are four stamina, it must be of the order Tetrandria.

What has been here faid, we hope will be fufficient to initiate the *Student* into the method of *classing*, which point once gained, half the difficulty in this agreeable and entertaining study is conquered.

Many and various are the advantages attending the study of Botany, whether considered in a commercial or chemical view, or with regard to the affinity it bears to agriculture, the very source and basis of every trading nation: If considered as an amusement, it seems extremely well calculated to employ the vacant hours of the country Gentleman, being the most innocent, as well as the most salutary, that can excite the attention of the human mind.

To

INTRODUCTION.

To be constantly and perpetually employ'd in contemplating the operations of nature, in viewing the harmony of her works, thro' the whole vegetable creation, in looking thro' nature "up to nature's God," must make deeper, and more lasting impressions on the mind, than the most laboured harangues of Divines, or the more extravagant vociferations of Enthusiasts. Contemplations of this nature, must convince the most subtle Disputant, the most obstinate Sceptic, of the existence of a Supreme intelligent Cause of all Things. Every plant, every flower, every part of a slower, affords convincing proofs of a Divine existence.

Let me now wish the Student every species of delight, that can possibly result from studies of this nature, and with pleasure embrace the opportunity of returning thanks to those Gentlemen, by whose persuasions I begun, by whose assistance and countenance I have been enabled to go thro' with this translation, and acknowledge myself, with the

most sincere esteem,

and profound respect,

their much obliged Friend,

YEALAND, April 10th, 1775.

J. Jenkinson.

ENGLISH BOTANISTS.

THE following Translation being the first ever offered to the public, the Translator submits it to your judgment with the greatest distidence, conscious to himself, that much may be added, and many alterations made, before it can be complete: He gratefully acknowledges the hint from Dr HUNTER, Professor of Botany in Edinburgh, of not only a deficiency, but also a great impropriety in the English Names of many plants, especially in the Species, where the specific name seems to have no connection with the generic: A reformation herein, would perhaps be thought too daring for an individual; the Translator of this work, therefore, solicits the affiftance of the English Botanists, not only to reform this impropriety, but for any help that will render the book more complete, should it be so well received as to require a second edition.

CONTRACTIONS.

Bauh Pin. & Pr. Caspari Bauhini Pinax & Prodromus. Black's Spec. Bot. 1. Blackstone Specimen Botanicum.

Boerh. Boe hav.

Dill. Joanis Dillenii Historia Muscorum.

Diosco. Dioscorides.

Flo. fuec. Caroli Linnæi Flora Suecica.

Ger. Gerrard's History of Plants.

Malp. Malphigius.

Obs. Linn. Observation of Linnaus.

Park. Parkinfon.

Phil. Tranf. Philosophical Transactions.

Plin. Pliny.

R. Sy. Ray's Synopfis.

Riven. Augusti Quirini Rivini Ordines Plantarum.

T. Turneford.

Turn. Gulielmi Turneri Historia Plantarum.

Tournf. Josephi Pitton Tournefort Institutiones Rei Herbaria. Wil. Sy. Wilson's Synopsis of British Plants.

ERRATA.

Page 30, line 30. for Great read Greek. p. 72 1. 26, for dichetomus read dichetomous. p. 87 1. 29, dele a comma. p, 125 1. 35, for monnophyllous read monophyllous. p. 138 1. 30 for melamphyrum, read melampyrum. p. 195 1. 26 for histato, read hastato.

Etymological Dictionary;

OR,

EXPLANATION

eni succión y stume or victor

The CLASSES, ORDERS,

AND

PRINCIPAL GENERA.

HE following etymological dictionary, comprehending not only the derivations of the classes, orders, and principal genera, but likewise the reason of their derivations, it is hoped, will meet with a general approbation, from students of every class.

Most of the terms in the greek language from whence the classes and orders are taken, being expressive of the meaning, a derivation thereof, will give a good insight into the nature of them, as well as the sexual system, on which they are founded.

The Great Author of Nature has implanted in the human mind, a strong desire of knowing the origin and source, from whence things and names that fall under

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our consideration are derived. In this dictionary, both the learned and the english scholar will find that desire gratistied. The Greek words in Italic characters will doubtless be more pleasing to many readers, and can be no ways detrimental to the scholar. A derivation of every genus in the book is not to be expected, several are yet unknown, and probably forever will be, others if certain, are insignificant, and consequently scarce deserve our notice; thus much however I dare promise, that whenever it tends to elucidate the meaning, the nature, and quality of the plant, or the soil where it is to be found, the derivation is not omitted, as such it is useful, the rest is all conjecture and serves only to amuse without improving the understanding.

CLASSES.

See Plate I. facing the Title.

1. NONANDRIA, 2. DIANDRIA, 3. TRIANDRIA, 4. TETRANDRIA. 5. PENTANDRIA. 6. HEXANDRIA. 7. HEPTANDRIA. 8. OCTANDRIA. 9. ENNEANDRIA. 10. DECANDRIA. These ten classes which consist of hermaphrodite flowers, take their denomination from the number of stamina or male parts of the flower.

- monos, unus, and aner, vir, a male or male part, that is, having one stamen or male part.
 - 2. DIANDRIA, having two stamina or male parts?

into the nature of them,

- 3. TRIANDRIA, having three males.
- 4. TETRANDRIA, having four males.
- 5. PENTANDRIA, having five males.

6. HEXANDRIA, having fix males.

ETYMOLOGICAL DICTIONARY. xv

- 7. HEPTANDRIA, having feven males.
- 8. OCTANDRIA, having eight males.
- 9. ENNEANDRIA, having nine males.
- 10. DECANDRIA, having ten males or stamina.

It must be observed that in all these classes, the slowers are hermaphrodite; for should the semale part be wanting in any plant, such plant would belong to some other class.

- the flowers have twelve stamina or male parts, but is not strictly confined to that number, but includes all hermaphrodite flowers, furnished with any number of stamina, from twelve to nineteen, both inclusive: No flowers yet have been found to have exactly eleven stamina, and therefore no class has been allotted to that number.
- 12. ICOSANDRIA, is derived from eikofi, viginti, twenty, and aner, vir, a husband or male part. The the plants which belong to this class are rarely found with less than twenty stamina, yet they frequently have a greater number, and therefore to know them from those of the next class, recourse must be had to the class Icosandria in the book.
- 13. POLYANDRIA, is a word formed of the two greek words polus, many, and aner, a husband, and fignifies that the flowers have many stamina and always more than twenty.
- 14. DIDYNAMIA, is derived from dis, two, and dunamis, power, and fignifies the power of two, and is applied to this class, because the flowers have two stamina longer than the rest, whereby it is to be distinguished from the fourth class.

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- 15. TETRADYNAMIA, this is derived from tetra, quatuor, four, and dunamis, power or superiority, and signifies the superiority of four, because there are six stamina, and four are always longer than the rest, whereby it is distinguished from the sixth class.
- one, or the same, and delphus, uterus, i. e. a womb, and expresses the union of the silaments, which in this class do not stand separate, but join at the base, and form one substance out of which they proceed, as from the same womb.
- 17. DIADELPHIA, is compounded of dis, duo, two, and delphus, uterus, a womb, and means that the stamina are united into two distinct bodies, and proceed as it were out of two different wombs, as the word imports.
- 18. POLYADELPHIA, fignifies many wombs, from polus, many, and delphus, a womb, and means that there are many diffinct fets of stamina proceeding out of as many different wombs, as the word implies.
- 19. SYNGENESIA, is compounded of fun, together or in company, and genefis, generation; and fignifies congeneration, and alludes to the circumstance of the stamina, in which, tho' the filaments stand separate, yet the antheræ, which are more immediately subservient to generation, are united in a cylinder, and perform their office together.
- 20. GYNANDRIA, is derived from gune, a wife or female part, and aner, a husband or male part, and means that the stamina grow upon the pistils, so that the male and female parts are united; a circumstance never found in other hermaphrodite slowers.
- or the same, and oikos, domus, a house or habitation; and

ETYMOLOGICAL DICTIONARY. xvii

shews that the plants of this class have their male and female parts on distinct parts of the same plant; i e. the slowers are not hermaphrodite, but those slowers which have the stamina want the pistil, and those that have a pistil want the stamina, yet are all found on the same plant, but in different flowers.

- 22. DIOECIA, from dis, two, and oikes, domus a house or habitation, and means that the flowers are either male or female, but that the male flowers are on one plant and female on the other.
- 23. POLYGAMIA, from polus, many, and gamos, a marriage, and fignifies a plurality of marriages. This class produces, either upon the same or different plants hermaphrodite flowers, and also flowers of one sex only, be it male or female; or flowers of each sex; and the latter receiving impregnation from, or giving it to the hermaphrodites, as their sex happens to be. The parts essential to generation in the hermaphrodite flowers, do not confine themselves to the corresponding parts within the same flower; but become of promiscuous use, which gives name to this class.
- 24. CRYPTOGAMIA, from kruptos, concoled, and gamos, a marriage, and therefore it fignifies concealed marriage, and is applied to this class, because the plants belonging to it, either bear their flowers concealed within the fruit, or have them so small as to be imperceptible.

ORDERS.

A S the ten first classes took their denomination from the number of stamina or male parts of the slower, so the orders of the thirteen classes take their denomination from the number of the pistils or female parts of the slowers. The greek word, compounded with the numerical

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merical terms in the titles of these orders, signifies a wife or female:

MONOGYNIA, implies one woman or female part which is one ftyle.

DIGYNIA, two ftyles. . rewort sneedship ai and smale

TRIGYNIA, three styles.

TETRAGYNIA, four ftyles.

PENTAGYNIA, five styles.

HEXAGYNIA, fix ftyles. and plant to stant the

DECAGYNIA, ten styles. and and and and and and

POLYGYNIA, many styles; derived from monos, one and gune, feemina, a woman, &c. to polus, many, and gune, woman. This will be thought sufficient, as they are further explained in the body of the work, where they occur.

Class 14 Didynamia, the first order of this class is GYMNOSPERMIA, derived from the two greek words gumnos, nudus, naked, and sperma, semen, a seed, which shews that the plants of this order have naked seeds, in opposition to the next order,

ANGIOSPERMIA, which is derived from aggeion, vas, a veffel, and fperma, femen a feed, and means fuch as have their feeds in a feed-veffel.

The orders which constitute the 15th class Tetradynamia, are sufficiently explained in their proper place. And the orders of 16, 17, and 18 classes, are denominated from the number of the stamina, which have been explained already, and the derivation of each given. The orders belonging to the other classes are all sufficiently explained under their proper heads, where they occur, to repeat them here, would be mere tautology.

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PRINCIPAL GENERA.

CHILLEA, ab Achille, the herb wherewith Achilles

angelical virtue of the trop soil

is faid to have cured Telephus.

Acorus, ab a, privativum, et korē, pupilla, from its supposed virtue in curing the disorders of the pupil of the eye.

Acrosticum, ab akros, fummus, et stichos, ordo.

ACTEA, ab Acteone, filio Æristei, from Acteon the son of Æristeus.

ADIANTHUM, ab a, privativum, et diaino, madefacio, because the leaves take no wet unless gently thrown on.

ADONIS, ab Adonide, from Adonis, who according to the poets, was by Venus turned into the flower which bears the name Adonis.

ADOXA, ab a, privatum, et doxa, gloria.

Aедоровіим, ab aix, caper, a goat, et pous, pes, a foot, i. e. goat's foot.

AGROSTEMA, ab agros, ager, et istemai, sto, being

found in corn fields.

ALISMA, ab alusma, anxietas, anxiety.

ALTHEA, ab atheo, fano, from its many medicinal and chirurgical qualities.

AMARANTHUS, ab a, non et marainomai, marcesco,

from a supposition that it never withers. Visited I at y

ANAGALLIS, ab anagelao, rideo, to smile, from its beautiful appearance, when the sun shines.

Anchusa, ab anchousein, fucare, from its suffocatory

or aftringent quality: It blusted a out so still stoq partiti

DETONICAL

Andromeda, ab aner, vir et domao, domo, she was the daughter of Cepheus and Cassiope, the king and queen of Æthiopia.

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Anemone, ab anemos, ventus, quod nisi spirante vento non apperiat se, because its said, the slower never opens, but when the wind blows.

ANETHUM, Plin. anethon para to ano thein, quod cito

crefcat, because it soon grows up after sown.

ANGELICA, a vi radicis seminisque, from the supposed angelical virtue of the root and seeds.

ANTHEMIS, ab anthos, flos, a flower.

ANTHERICUM, ab anthos, flos, et rechos, sepium, as tho' it delighted in hedges.

ANTHYLLIS, ab anthos, flos, a flower, et lanugo, foft

down.

APIUM, quod ex eo apex, i. e. caput triumphantium coronabatur. Because the head of those who had the honour of a triumph, were crowned with it.

Aquilegia, ab aqua, water, and lego, to gather, as

tho' it collected more water than common.

ARCTIUM, ab arktos, urfus, a bear.

ARUM, ab a, privativum, et ara, noxa, i. e. without any noxious quality.

Asparagus, ab asperitate plantæ. From the asperity

of the plant.

Asperugo, ab asperitate plantæ. From the asperity of the plant.

Asphodelus, ab a, privativum et sphalto, subplanto,

to fupplant.

ASTER, after, stella, a star.

ASPLENIUM, ab a privativum, et splen, the spleen, from its supposed virtue in curing the spleen.

ATHAMANTHA, ab urbe Theffaliæ, fo called from a

city in Thessaly.

ATROPA, ab a, non, et trepho, nutrio, because of its

deadly quality.

AKERONE,

BALLOTA, para to ballein ōta, quod tanquam aures demittat post folia locatos, because it puts out slowers like ears behind the leaves.

BETA, fortasse a flumine Bætis ubi nascitur, from the

river Betis where found.

BETONICA,

BETONICA, quod et Vettonica, quod eam Vettones in Hispania invenerint, or Vettonica, because the Vettones first found it in Spain.

BLACKSTONIA, from Blackstone who first found it.

Bor Ago, quasi Corago, quod cordis affectibus medetur, because it cures the disorders of the heart.

BRYONIA, a bruoo, musco oppletus, quod a bruon, mus-

cus, moss.

Bulbocodium, a bulbos, bulbus, a bulb, et kodion, lana, wool.

Bunium, a bunios, collis, a hill.

Bupleurum, ex bous, bos et pleuron, latus, because it hath threads in the leaves like ribs in the side.

Butomus, ex bous, bos, cattle, et temno, scindo, to cut, because formerly it was cut and given to the cattle for fodder.

CALLITRICHE, a kalos, pulcher, et thrix, capillus quod capillum nutriat et pulchrum reddat. Plin. Because it was supposed to nourish and beautify the hair.

Campanula, a campana, figura corollæ, i. e. from

the flower being of a bell shape.

CARLINA, nomen regionis, the name of a country.

CARUM, a Caria regione, from the country.

CENTAUREA, a Chirone Centauro dict. quasi centum et aretai, virtutes. Plin. From Chiron the Centaur.

CERATOPHYLLUM, a keras, cornutum, et phullon, foli-

um, i. e. having a horny leaf.

CHEROPHYLLUM, a chirō, gaudeo, et phullon, folium, because it abounds in leaves.

CHEIRANTHUS, a cheir, manus, the hand, et anthos, flos, a flower.

CHELIDONIUM, chelidon, hirundo, a swallow, because

it flowers about the coming of swallows.

CHENOPODIUM, a chen, anser, a goose, et pous, pes, a

foot, i. e. goose-foot.

Chrysanthemum, a chrusos, aureus, golden et anthos, flos a flower, as tho' it were a golden flower.

CHRYSOSPLENIUM,

XXII ETYMOLOGICAL DICTIONARY.

CHRYSOSPLENIUM, a chrusos, aureus, golden, et splen, the spleen.

CICORIUM, ab kiō, vado, et chorion, ager, because it

overruns the fields.

CIRCÆA, from Circe the Sorceres.

CLEMATIS, a klēma, viticula, a shoot or tendril where-

by it feizes the neighbouring trees or shrubs.

CLINOPODIUM, ab kline, lectus, et pous pes a foot, from its supposed likeness of the leaves to the foot of a bed.

Cochlearia, a figura foliorum, from the shape of

the leaves being like a shell.

Convolvulus, a con et volvo, to twist or twine round about.

Conyza, aknuza, scabies, from its supposed virtue

in curing cutaneous diforders.

CORIANDRUM, a korë, pupilla, the pupil, et anër, vir, a man. Quod sit rotundum instar pupillæ, because of its being round like the pupil of the human eye.

Cotyledon, a kotule, cavitas, a hollowness.

Cynoglossum, a kuon, canis, a dog, et glossa, lingua, a tongue, i. e. hound's tongue.

Cypripedium, a podion, calceus, a shoe, kupris veneris,

i. e. Venus's Shoe or Lady's Slipper.

DIANTHUS, a Dios, Jovis, et anthos, flos, i. e. Jove's Flower.

DIGITALIS, a figura corollæ digitalis, from a suppofition that the flower is shaped like a singer.

Dipsacus, a dipsao, sitio, to thirst, as tho' it brought

on an intolerable thirst.

DROSER A, a drosson, ros, the dew, because there is commonly found on this plant, even in the hottest sun, drops like dew.

DRYAS, a drus, quercus, an oak.

Echinophora, ab echinos, spina, a thorn, et phero, fero to bear, because it bears spines or prickles like those of a Hedge-Hog.

Echium, ab echis, vipera, a Viper.

EPILOBIUM, ab epi, supra, lobas, siliqua, et ion, viola, because of its long pods.

EQUISETUM,

ETYMOLGICAL DICTIONARY. xxiii

Equisetum, herba est a cauda equinæ similitudine nomen habens; so called from its resemblance to the Tail of a Horse.

ERICA, ab eriko, frango, to break, because the antients used it in curing the stone in the human bladder.

Erigeron, ab er, ver, et geron, senex, because it is

white in the spring like the hair of old men.

EUPATORIUM, ab Eupatore rege sic dict. alii quod quasi hepati medeatur. From king Eupator, or else according to some, because it was supposed of service in curing the disorders of the liver.

EUPHORBIA, ab Euphorbo nomen habet Jubæ regis

medico. From Euphorbus king Juba's physician.

EUPHRASIA, lætitia, joy.

FICARIA, a fukē, ficus, a fig-tree.

FRAGARIA, quali fragrantia; from its fragrance.

Fumaria, a fumo dict. quod lacrymas alliciat ficut fumus, because it draws the tears from the eyes as smoke doth.

GALEOPSIS, a gale, felis, a cat, et opsis, vultus, the

countenance or appearance.

GALLIUM, a gala, lac, milk, quod vim habeat coaguli in cogendo lacte. Because it has the power of runnet in milk.

Gentius the first finder of it. From king

GERANIUM, a geranos, grus, a crane, quod in summitate habet similitudinem gruis capitis. Because the seed-vessel has the appearance of a Crane's Bill.

HEDYSARUM, ab aron, unguentum, an ointment, et edusma, suavitas. Because a sweet smelling ointment

used to be made of it.

Helleborus, ab eileo, constringo, to bind, et bora, pabulum, food for cattle, i. e. a restringent food.

HERACLEUM, ab ērakles Hercules.

HERNIARIA, ab hernia, the disease called a rupture. Hesperis, ab hesperis, hesperus, the evening; because it gives a greater smell by night.

HIERASIUM,

xxiv ETYMOLOGICAL DICTIONARY.

HIERACIUM, ab ierax, accipiter, a Hawk.

HIPPOCREPIS, ab ippos, equus, horse, et crepis, ferrum, a shoe, i. e. a Horse Shoe.

HIPPURIS, ab ippos, equus, a horse, et oura, cauda, a

tail. i. e. a Horse-Tail.

Humulus, ab humido folo; from growing in moift foil.

Hyacynthus, a puero Hyacyntho interfecto ab Apoline & in hunc florem mutato. From the youth Hyacinthus slain by Apollo, and turned into this flower.

HYDROCHARIS, ab udor, aqua, water, et chiro, gaudeo. Because it is generally found in water: It is likewise the name of a frog in the Batrachom. or the Battle of the Frogs.

Hydrocotyle, ab udor, aqua, water, et kotile, vas,

a veffel.

Hyoscyamus, ab us, sus, a swine, et kuamos, faba, a bean. i. e. Swine's Bean.

IBERIS, ab Iberia regione, from the country Iberia.

IMPATIENS, ab elasticitate fructus, from the elasticity of the fruit.

JASIONE, from Jason the supposed first finder.

Juncus, a jungendo vimine, from its flexible nature. Lactuca, ita dict. quod abundantia lactis exuberat. Plin. From its abounding with milk.

LAMIUM, ex Lamio Ionæ monte. Plin. From La-

mium a mountain in Ionia.

LAPSANA, a lapto, purgo, from its purgative quality. LEONTODON, ab leon, leo, a lion et odous, dens, a tooth. i. e. Lion's Tooth.

LEONURUS, ab leon, leo, a lion. et oura, cauda, a tail. i. e. Lion's Tail.

LEPIDIUM, a lepis, squama, quod squamas & maculas a facie abstergit. Plin. From its power, supposed or real, of taking off spots from the face.

LIGUSTICUM, a Liguria Italiæ regione, from Liguria

a country in Italy.

LITHOSPERMUM, a lithos, lapis, et sperma, semen, because the seeds are like small stones.

LYCHNIS,

ETYMOLOGICAL DICTIONARY. XXV

LYCHNIS, a luchnos, a lucido colore, from its shining colour.

Lycopus, ab lukos, lupi, a wolf, et opsis, facies, a face.
Lycopus, a lukos, lupi, a wolf, et pous, pes, a foot.

LYTHRUM, a luthron, cruor, blood.

LYSIMACHIA, a Lysimachia inventore, from Lysimachus the first finder.

MALVA, a malasso, emollio, to soften.

MARRUBIUM, ab oppido Italiæ, a town in Italy.

MATRICARIA, ab usu medico quod matricem juvat, from its supposed medicinal virtue in assisting the matrix.

MELAMPYRUM, a melas, niger, black, et puros, gra-

num, feed. i. e. having black feed.

MELITTIS, a melitta, apis, a bee, which is derived

from meli, mel, honey.

MENTHA, from Minthis the fon of Cocytus changed into this flower.

Mercurialis, from Mercury the interpreter of the Gods.

Monotropa, a monos, folus, et trepho, nutrio.

Myagrum, a muia, musca, a fly, et agreuo, capto, to take, because it holds the flies that touch it.

Myosotis, a muos, mus, a mouse, et ota, aures, the ears; because of the leaves resembling the ears of a mouse.

Myosurus, a muos, mus, a mouse, et oura, cauda, a tail. i. e. Mouse-Tail.

Myriophillum, ab murios, infinitum, an infinite number, et phullon, folium, a leaf, i. e. having a multitude of leaves.

NARCISSUS, from Narciffus, who was turned into this flower.

NEPETA, ab oppido Italiæ, a town in Italy.

NYMPHÆA, a numphē, aqua, water, because it is found in water.

ONOPORDUM, ab onos, asinus, an ass, et perdo, pedo, to fart, because if given to asses, according to Plin. it will make them fart.

XXVI ETYMOLOGICAL DICTIONARY.

Ophioglossum, ab ophis, serpens, a serpent, et glossa, lingua, a tongue.

ORCHIS, ab orchis, testiculus, a testicle.

ORNITHOGALUM, ab ornis, avis, a bird, et gala, lack, milk. Linn.

ORNITHOPUS, ab ornis, avis, a bird, et pous, pes, a foot. i. e. Bird's Foot.

Oxalis, ab oxalis, acidus, acid or four.

Partetaria, ab paries, a wall, because it grows on old walls.

Paris, a Paride, filio Priami. From Paris the fon of Priam, remarkable for his true love to Helen, hence in english, called True-love, or one Berry.

PARNASSIA, from mount Parnassus.

Peucedanum, a dauos, humilis, et peuke, picea. Or according to Diosco. it takes it name from its bitterness.

PHYTEUMA, a phuō, gigno.

Picris, a picros, amarus, bitter, because of its bitterness.

PINGUICULA, a pinguitudine foliorum, from the fatness of the leaves.

Polemonium, ab polemos, bellum, nomen herbæ apud Diosco. quæ sic nominata esse traditur, a bello et certamine quod antequissimi duo regis inter se certarunt, dum interventionis ejus laudem uterque sibi tribueret, ut refert Marcellius: sunt qui sic dictam putent quod adversus venena pugnet. The name of an herb which is so called, because two ancient kings contended whether should have the honour of first finding of it, as Marcellius says: Some think it so called, because it was supposed an antidote against poison.

Polygala, a polus, multum, et gala, lac, from its

abounding with milk.

POLYGONATUM, a polus, multus, et gonu, genu, a joint, from its abounding with joints.

Polypodium, ab polus, multus, many, et pous, pes, a

foot.

Potentilla, ab potentia virium, from its supposed virtue.

Potamogeton,

ETYMOLOGICAL DICTIONARY, xxvii

Potamogeton, a potamos, fluvius, et geiton, vicinus, because found in or near rivers.

Poterium, a poterion, poculum, a cup.

PRIMULA, a præcocitate florum, from coming early in the fpring.

PULMONARIA, from pulmo, the lungs, from its sup-

posed efficacy in curing the diforders of the lungs.

Pyrola, a pyro foliorum figura. The leaves being shaped like leaves of a Pear Tree.

RAPHANES, a radios, facile, et phino, appareo, be-

cause it springs up so soon after being sown.

RESEDA, a resedendo dolores, from assuaging pain.
RHODIOLA, a roseo odore radicis, from the sweet smell of the root.

RUMEX, a rumo, sugo, to suck, because its juice will quench the thirst; or by others quasi strumex, because accounted good for strumous swellings.

SAGITTARIA, a figura foliorum, being shaped like

an arrow.

SALICORNIA, from fal, falt, because found on the falt marshes.

SALSOLA, a falsetutine plantæ, from the plant being saltish.

SALVIA, quasi salutem ferens. From its salubrious quality.

Samolus, a Samo Infula. The island Samos.

Sanguisorba, i. e. fanguis, blood, et forbeo, to lick up.

SANICULA, a fanando vulnera, from healing wounds.

SAPONARIA, a vi foliorum. From their power of

raifing a lather like foap.

Satyrium, herba ad venerem incitans, Diosco. a saturizo, prurio ad venerem instar satyri; provoking to venery.

SAXIFRAGA, faxum & frango, Breakstone.

Scabiosa, ab usu medicinali, from its medicinal power in curing cutaneous disorders.

Scleranthus, a skleros, exfuccus, et anthos, flos.

d 2 SCROFULARIA,

xxviii ETYMOLOGICAL DICTIONARY.

Scrophularia, quod ejus usu scrofæ delectantur. Because by eating of this plant scrophulous disorders were supposed to be cured.

Scutellaria, a figura calycis. From the figure

of the cup being like a cap or hood.

Sedem, a sedendo in rupibus, from being found growing on rocks.

Senecio, a fenex, an old-man; as tho' the down of

of this plant refembled on old-man's beard.

SEMPERVIVUM, a sempiterno virore, of an everlast-

ing green.

SERRATULA, a ferratis foliis, from the ferrated leaves.
SERAPIAS, a Serapide deo Ægyptio. Plin. From the

Egyptian God Serapis.

SMYRNIUM, ab urbe Smyrna, from the city Smyrna.
STACHYS, a stachus, spica, from the flower growing in a spike.

STRATIOTES, a fratos, exercitus.

Subulatia, a figura foliorum, from the figure of

the leaves, which are subulated or awl-shaped.

From Teucer who is faid to have first found this plant.

THYMUS, a thumos, animus, the mind.

TRAGOPOGON, from tragos, herci, & pogon, barba, i. e Goat's eard.

TRIENTALIS, a magnitudine plantæ, from the height

of the plant.

TRIFOLIUM, having three leaves.

TURRITIS, a turris, a tower.

Tussilago, from tuffis, a cough, and ago, to drive away.

URTICA, ab urendo tactu, from its stinging quality.

XANTHIUM, ab anthos, flos, a flower.



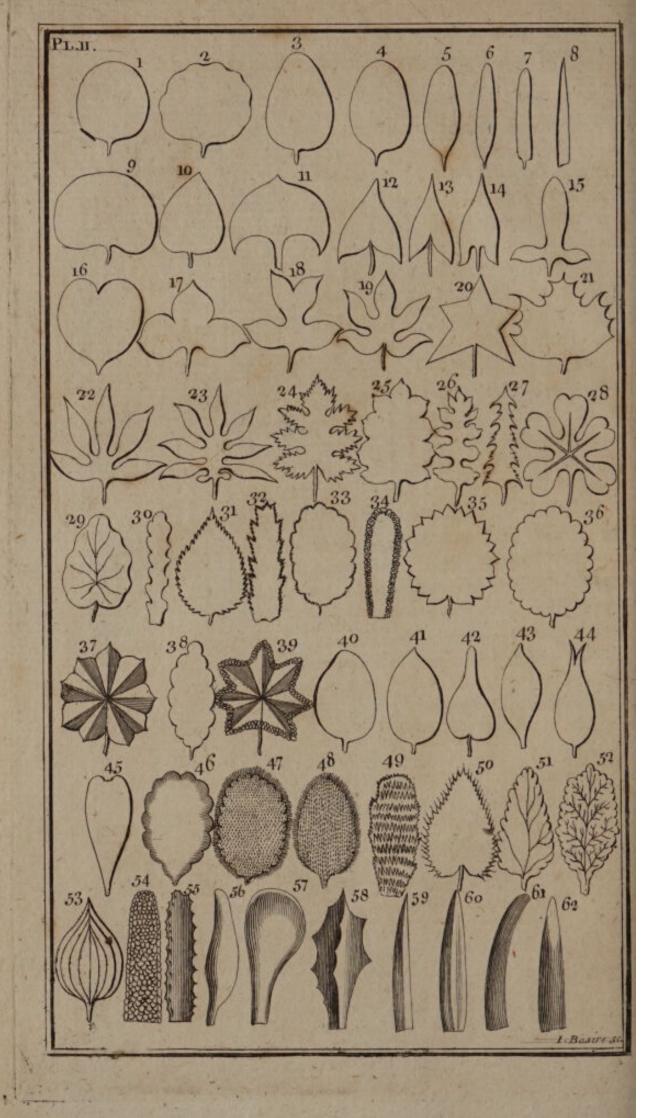


PLATE II.

SIMPLE LEAVES.

Fig.		Fig.
I.	Orbiculated	31. Serrated
2.	Subrotund or roundish	32. Duplicato-serrated
3.	Ovate	33. Duplicato-crenated
4.	Oval	34. Cartilagineous
5.	Oblong	35. Acutely-crenated
6.	Lanceolated	36. Obtusely-crenated
7.	Linear	37. Plicated
8.	Subulated	38. Crenated stanta .go
9.	Reniform or Kidney-sha-	39. Crisp
Mark.	ped	40. Obtufe Walls 1 40
10.	Cordate	41. Acute
11.	1 unulated	42. Acuminated
	Triangular	43. Obtuse with a blunt point
	Sagittated	44. Acutely-emarginated
	Cordato-Sagittated	45. Wedge-shaped and nicked
	Hastated	46. Retufe
	Split or Coven	47 Pilose Salaria 33
1,650	Tri obed or three lobed	48. Tomentose.
18.	Pramorje or bitten, as	49. Hispid
	in the Scabius	50. Ciliated
	Lobate	51. Rugofe
	Quinquangular	52 Venoje
	Eroje	53. Nervose
	Palmated	54. Papillose
-	Pinnatifid	55. Linguiform
	Laciniated	36. Acinaciform
	Sinuated	57. Delabriform
	Dentato-sinuated	58. Deltoid or Delta form
	Retrorsum-sinuated or	59. Triquetrous
	Holowed backwards.	
	Partite	61. Sulcated
100	Repand	62. Cylindrical
30	. Dentated	DIATE
		PLATE

PLATE III.

COMPOUND LEAVES.

Fig. 63. Binate	Fig. 72. Pinnate cirrhose
64. Ternate with the folioles	73. ——conjugate
Sessile.	74. ——decursively
65. Ternate with the folioles	75. ——articulated
petiolated	76. Lyrated
66. Digitated	77. Biternate
67. Pedate	78. Bipinnate
68. Pinnate with an odd one	79. Triternate
69. ——abrupt	80. Tripinnate Abrupt
70. ——alternate	81. ———with an odd
71. ——interrupted	one

PLATE

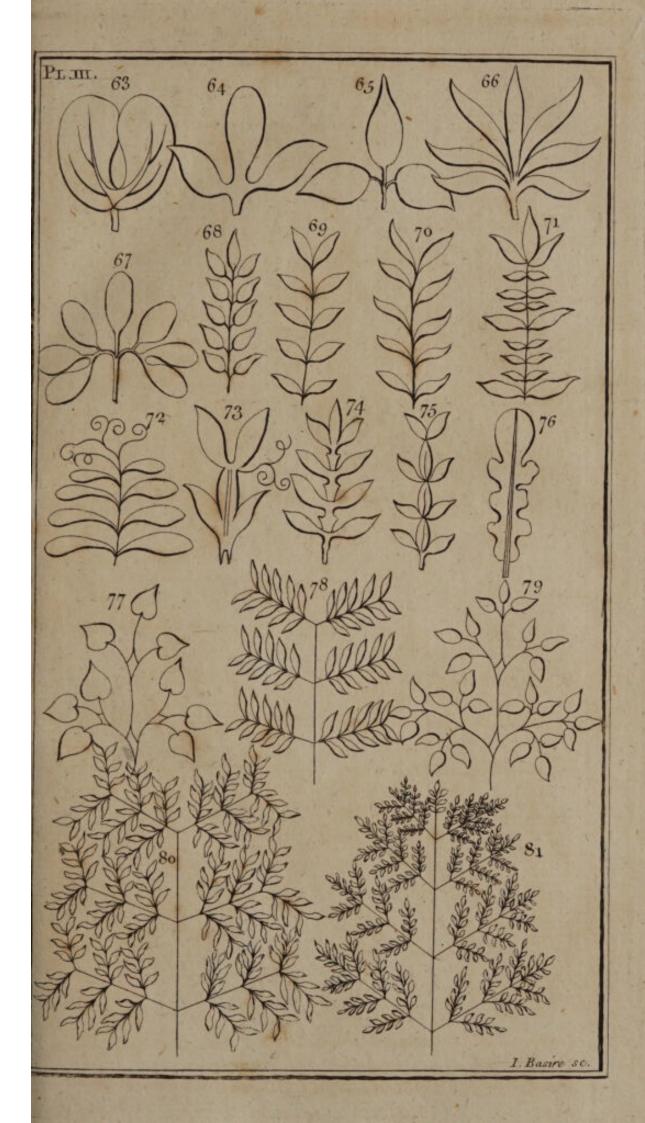








PLATE IV.

Fig.

82. Inflex

83. Erett

84. Patent

85. Horizontal

86. Reclined

87. Revolute

88. Seminal

89. Cauline

90. Rameous

91. Floral

92. Peltated

93. Petiolated

94. Seffile

95. Decurrent

96. Amplexicaule or surrounding the stalk. Fig.

97. Perfoliate

98. Connate

99. Vaginant

100 Articulated

101. Stellate

102. Quatern

103. Opposite

104. Alternate

105. Acerose

106. Imbricated

107. Fasciculated

108. Frons

109. Parabolic

110. Spatulated *

^{*} In the form of a Spatula, an instrument which is used by surgeons to spread salve with.

P. L. A. TE V.

PARTS of a FLOWER.

Fig.

111. a Spatha, b the Flower of a Narcissus.

112. a Gluma, b Arista of a Grass.

113. A Compound Umbel, a universal umbel, d d partial umbels, or umbellulæ, c universal involucrum, b partial involucrum.

114. c Calyptra, b Operculum, a Capitulum

115. a a Spatha, b a Spadix.

116. A common naked Receptacle.

117. A common Receptacle with imbricated Palei.

118. Amentum

119. Strobilus

120. Fungi, a Pileus, b Volva, c Stipes.

121. Monopetalous Corolla, a the Tube, b the Limb.

122. A Flower, a Germen, b Style, c Stigma, d Filaments, e Antheræ, f Petals.

123. Polypetalous Corolla, a Ungues, b Laminæ.

124. A Campanulated Nestarium in the Narcissus.

125. The horned Nestaria in the Aconite,

126. The horned Nectaria in the cup of the Tropæolum.

127. The Nectaria in the Grass of Parnassus.





GENERIC and SPECIFIC

DESCRIPTION

OF

BRITISH PLANTS.

CLASSI.

MONANDRIA.

The plants of this class have but one stamen, and from one to two pistils.

MONOGYNIA comprehends such plants as have but one pistil.

SALICORNIA. MARSH SAMPIRE OF SALTWORT.

HE cup is fquare, truncated, ventricose, and remains till the fruit be ripe. There is no flower and but one simple stamen, longer than the cup: There are two oblong, didymous, erect antheræ. The germen is ovato-oblong, the style is simple, and stigma bisid. The ventricose and instated cup, supplies the place of a seed vessel and contains one seed.

LINNÆUS fays tho' he observed but one stamen,

others have observed two.

Herbacea. Marsh Sampire, Jointed Glasswort, or Saltwort with joints flat at the apex, and emarginato-bisid. Common on the sea shore. An. July, Aug. The others found in England, and mentioned by authors, are only varieties and not distinct species.

HIPPURIS.

HIPPURIS. MARE'S TAIL.

This plant hath neither cup nor flower, and but one ftamen, which is fixed upon the receptacle. The anthera is femibifid. The germen is oblong, and beneath the receptacle. There is one fubulated, erect flyle, longer than the stamen with an acute stigma. There is no. feed veffel, and but one roundish, naked feed.

Vulgaris. Common Mare's Tail. Found in standing

waters. Per. May.

DIGYNIA comprehends such as have two pistils.

CALLITRICHE. STARWORT OF STAR-HEADED WATER CHICKWEED.

The flower confifts of two incurved, acuminated, canaliculated petals, opposite to each other. There is one long filament bended backward with a fimple anthera: The germen is roundish with two capillary, bended styles and acute stigmata. The fruit is a roundish, quadrangular, compressed, bilocular capsule, containing folitary, oblong feeds.

Verna. Vernal Starwort, Star-headed Water Chickweed, with the upper leaves of an oval figure, and masculine and feminine flowers. Found in ditches and still waters.

An. April, -Aug.

Autumnalis. Autumnal Starwort with linear leaves, bifid at the apex, and hermaphrodite flowers. Found with the former. An. Sep.

CLASS II.

DIANDRIA.

The plants of this class have two stamina in each flower, and from one to three pistils.

MONOGYNIA comprehends such plants as have but one pistil.

CIRCÆA. ENCHANTER'S NICHTSHADE.

THE cup confifts of two oval, concave, bended and deciduous leaves. There are two petals, of a turbinato-cordate figure, patent and equal, commonly shorter than the cup. There are two capillary, erect filaments of the length of the cup, with roundish antheræ. The germen is turbinated and under the receptacle. The style is like thread and of the length of the stamina. The stigma is obtuse and emarginated. The fruit is a turbinato-oval, bristly, bilocular capsule, opening from the base towards the apex, containing solitary, oblong seeds that are narrowest towards the bottom.

Lutetiana. Enchanter's Nightshade with an upright stalk and many branches. Found in shady places and

under hedges. Per. June, July.

Alpina. Mountain Enchanter's Nightshade with an afcending stalk and but one branch. This is a small plant and more procumbent than the other; the cup and flower are of the same colour. At the foot of the mountains in Westmorland and Yorkshire. About Dalham Tower in Westmorland. Per. Aug.

VERONICA. SPEEDWELL.

The cup is divided into four parts and remains till the fruit be ripe, each segment is lanceolated and acute. The flower consists but of one wheel-shaped petal, with a tube almost the length of the cup. The limb is quadripartite

dripartite and plain, with oval fegments, of which the lower one is narrower and its opposite broader than any of the rest. There are two ascendent stamina which are narrower towards the bottom with oblong antheræ. The germen is compressed and the style is thread-like and of the length of the stamina (but in some not quite so long) with a simple stigma. The fruit is a capsule of a cordate sigure with a compressed apex that contains two cells and four valves, in each of which are many roundish seeds.

The tube of the corolla is different in different plants, in some very short, in others very long. The largest segment of the flower in some constitutes an upper lip, and the other three an under lip; the middle one be-

ing the narrowest.

Spicata. Upright spiked Male Speedwell or Fluellin with flowers to the end of the spike, the leaves opposite and obtusely crenated, the stalk quite simple and ascendent. Found in meadows and pastures. In several closes adjoining to Newmarket-Heath, beyond Bottlesham. R. S. in the pastures about Horse-heath Hall in Cambr. about Cartmell-well in Lan. Arnside-Park in Westm. J. J. Per. June.

Hybrida. Welch Speedwell with flowers to the end of the spike, the leaves opposite and obtusely serrated and roughish, with an upright stalk. Found in Wales.

Per. July.

Officinalis. Male Speedwell with lateral fpikes bearing flowers, the leaves opposite and the stalk procum-

bent. In dry barren pastures. Per. May.

Serpyllifolia. Paul's Betony or little smooth Speedwell, with branches that partly end in spikes; the leaves are oval, shining and crenated. Found on dry mountainous pastures. Per. May.

Beccabunga. Common Brooklime with lateral branches, oval, plain leaves and a creeping stalk. In ditches and

rivers. Per. June.

Anagallis. Long leaved Water Speedwell with lateral branches, lanceolated, ferrated leaves and an upright stalk. Per. July.

Scutellata.

Scutellata. Narrow leaved Water Speedwell with lateral branches, pendulous pedicelli, and linear, entire leaves. Found in watery places. On Hampstead and Putney Heaths.

- Chamædrys. Wild Germander with lateral branches, and oval, feffile, rugofe, dented leaves and a weak stalk.

Per. May In meadows and pastures.

Montana. Stalked Speedwell with lateral branches, few flowers and rough cups, oval, rugofe, crenated, petiolated leaves, and a weak stalk. In moist woods and hedges. In Charleton Wood, the lower part plentifully Mr J. Sherard. R. S. Per. May.

Peduncles with single flowers.

Arvensis. Speedwell with fingle flowers, cut, cordate, fessile leaves, longer than the peduncle. In fields and on old walls. An. May.

Agrestis. Germander Speedwell with solitary flowers, and cut leaves, cordate and shorter than the peduncle.

An. May.

Hederifolia. Ivy leaved Speedwell with fingle flowers, plain, cut, cordate five-lobed leaves. An. April, May.

Triphyllos. Trifid Speedwell with folitary flowers and leaves digitato-partite, shorter than the peduncle. In fandy fields. At Rowton in Norfolk, betwixt the town and highway, twelve miles before you come to Norwich. An. May, June.

PINGUICULA. BUTTERWORT OF YORKSHIRE SANICLE.

The cup is personated, small, acute, and endures till the fruit be ripe. The upper lip is erect and trifid; the lower lip is bended back and bisid. The flower has but one personated petal. The longer lip is straight, obtuse, and trifid; the shorter lip is bisid, more obtuse and patent. The nectarium is corniculated, and produced from the basis of the petal. The two silaments are cylindrical, crooked, and arise under the upper lip,

fhorter than the cup, with roundish antheræ. The germen is globose and style very short. The stigma is bilabiated; the upper lip is larger, plain, bended back, and covers the antheræ; the lower lip is very narrow, erect, bissid, and shorter. The fruit is an oval, unilocular capsule, slat at the apex, gaping and containing numerous cylindrical seeds, having a loose receptacle.

Lusitanica. Cornwal Butterwort, with the apex of the nectarium incrassated. In marshy places about Kirk-

hampton. R. S. Per. May.

Vulgaris. Common Butterwort with a cylindrical nectarium the length of the flower. In mossy wet ground in Lancashire, Westmorland, and Yorkshire: On Shooter's-Hill I found it. May.

UTRICULARIA. HOODED-MILLFOIL.

The cup consists of two oval, hollow, small leaves, that fall away with the flower. The flower is monopetalous and personated. The upper lip is plain, obtuse and erect; the lower lip is larger, plain, and entire. The palate is cordate and prominent between the lips. The nectarium is corniculated and arises from the base of the petal. The two silaments are very short and bended. The antheræ are small and adhere. The germen is globose, and the style is like thread, of the length of the cup, with a conical stigma. The fruit is a globose, large, unilocular capsule containing numerous seeds.

Vulgaris. Common hooded Millfoil with a nectarium in the form of a cone, and but few flowers on the stem. In standing waters and ditches. Per. June July. In Lin-

colnshire, Isle of Ely, and near Hornsey.

Minor. Leffer hooded Millfoil with a nectarium in the form of a keel. In the fame places with the former. I found this in a ditch in the great meadow at Gunner-thwaite belonging to Mr T. BEAKBANE, Lan.

Both forts observed by Mr Lawson in the ditches by the causeway over the Moss to the Fell-end near Wither-

flack and Brig steer-moss, in Westmorland. Per.

VERBENA.

VERBENA. VERVAIN.

The cup is monophyllous, angulated, tubulated, linear and quinquedentated, (and the fifth denticle is truncated) and endures till the fruit be ripe. The flower is monopetalous with a cylindraceous ftraight tube the length of the cup, which is foon dilated and incurved. The limb is patent and femiquinquifid, with fegments rounded and nearly equal. The filaments are four in number, briftly, very flort, and fituated within the tube of the flower, of which two are florter than the other two. The antheræ are bended and the number of the filaments, and fometimes only half the number. The germen confifts of four angles with a fimple thread-like ftyle, the length of the tube and an obtufe ftigma. The feed veffel is fcarce vifible, the cup covering the feeds, which are two, or four of an oblong fhape.

Officinalis. Vervain with four filaments, the spikes are like thread upon unequally divided stems, the leaves are multifido-laciniated, and the stalk is solitary. By public road sides. In Warton Town and near Leighton-

beck Furnace in Lancashire. July, Aug.

LYCOPUS. WATER-HOREHOUND.

The cup confifts of one leaf that is tubulated and half cut into five, each fegment being narrow and acute. The flower is unequally monopetalous, with a cylindraceous tube the length of the cup. The limb is quadrifid, obtufe, and patulent; the fegments being nearly equal, but the upper is broadest and emarginated, and the lowest the least. The two filaments are commonly longer than the corolla, to the upper fegment of which they are inclined. The antheræ are small. The germen is quadrifid, the style is like thread, upright, and the length of the stamina. The stigma is bisid and bended back. There is no feed vessel, the cup containing four roundish feeds.

Europæus. Water-horehound with finuato-ferrated leaves. July. I found this in most of the dirty ditches abous

London. Per.

SALVIA. CLARY.

The cup is monophyllous, tubulated, striated, visibly larger towards the top, and compressed; the mouth is erect, bilabiated and the lower part bidentated. The slower consists of one petal, the tube of which grows larger towards the top, and is compressed. The limb is ringent, the upper lip of which is concave, compressed, crooked, and emarginated: The lower lip is broad and trifid, the middle segment being largest, roundish and emarginated, on these are placed two others crosswife by the middle, on the lower extremity of which is a glandule, on the upper an anthera. The germen is quadrifid, the style is like thread and very long; the stigma is bisid. There is no seed vessel, the connivent cup containing the seeds, which are four in number and roundish.

Obf. Linn. The fingular bifurcation of the fila-

ments constitutes an effential character.

The rudiments of two barren stamina are found in the faux of the corolla. The glandula in many is callous; in some few others the rudiment of an anthera that is not fariniferous is to be met with.

Pratensis. Meadow Clary with cordato-oblong crenated leaves: The upper leaves surrounding the stalks, the whorls naked, the slowers in the helmet glutinous. In

Effex. Per.

Verbenaca. Common English Wild Clary with finuatoferrated leaves, the flowers narrower than the cup. In meadows and pastures. Per. May. On the ropery between the glass-houses and Newcastle upon Tyne. Wilson's Sy.

C L A S S III.

TRIANDRIA.

The plants of this class have three stamina, and from one to three pistils.

MONOGYNIA comprehends such plants as have but one pistil.

VALERIANA. VALERIAN.

HE flower consists of one petal. The tube is gibbous and contains the nectar in the lower side; the limb is quinquisid, and the segments obtuse. There are three subulated, erect silaments of the length of the corolla, with roundish antheræ. The germen is beneath the receptacle, the style is like thread, of the length of the stamina, with a thickish stigma. The fruit is a capsule that splits and falls off, and the seeds are single

and oblong.

Obs. Linn. There is a great diversity of the parts of fructification in this genus, both as to number and figure, e.g. The margine of the cup in some is scarce observable; in others it is quinquisid. The tube of the corolla in some is oblong in others it has got a melliferous spur, in others it is very short. The limb in some is equal, in others bilabiated and the upper lip bisid. There are three stamina in some, in others two, in others only one; in the sibirica sour. The stigma of the pistil in some is trifid in others emarginated, in others globose. Scarce any seed vessel in some; in others a thick capsule, in others bilocular. The seeds of some have down, others have none. These observations have relation in general to the exotic valerians.

Officinalis. Great wild Valerian, the flower of which has three stamina, and all the leaves are pinnate. In moist

TRIANDRIA MONOGYNIA.

moist wet hedges, and the sides of ditches most commonly. Per. June.

A variety of this, with narrow leaves, called Mountain Valerian is found near Buxton-well: Above a stony

and thorny place called Ashwood, Derbysh.

Dicica. Small Marsh Valerian, the flower of which has three stamina, but the female parts are not on the same plant. The leaves are pinnate. Hudson says the radical leaves are oval, and those on the stalk pinnate. In moist pastures. Per. June.

Locusta. Lamb's-Lettuce or Corn-Sallet, the flower of which hath three stamina, the stalk is dichotomous, and the leaves are linear. In plowed fields. An. May, June.

CROCUS. SAFFRON.

The cup or spatha is monophyllous. The tube of the flower is simple and long. The limb is divided into six segments, and every segment is ovato-oblong and equal. The three silaments are subulated, and shorter than the corolla, with antheræ shaped like arrows. The germen is roundish, the style is like thread, of the length of the stamina. The stigmata are three, convoluted and serrated. The fruit is a roundish capsule containing three lobes, three cells, and three valves, having many roundish seeds.

Sativus. Saffron. The spatha or cup has one radical valve and a very long tube of the flower. About Saffron-walden in Essex. Per. Aug.

IRIS. FLOWER-DE-LUCE.

The cup has two valves, and continues till the fruit be ripe. The flower is fexpartite, each petal being oblong and obtuse, the three exterior are reslex, the three interior are erect, more acute, and all connected by ungues. There are three subulated filaments which lie upon the reslexed petals. The antheræ are oblong, straight and depressed. The germen is oblong, and placed beneath the receptacle: The style is simple and very short; the stigma

stigma is very large and tripartite; the segments are like the petals, broad and reflex with bifid apices. The fruit is an oblong, angulated, trilocular capfule with three valves, containing many large feeds.

Obf. Linn. The nectarium in some is a villose line ingraved upon the base of the reflexed petals; in others there are externally three points at the base of the flower. The capfule in some is trigonal, in others hexagonal.

Pseudacorus. Yellow Water Flower-de-luce with flowers without beards, the inner petals less than the stigma and the leaves shaped like a sword. In rivers and moist mea-

dows. Per. July.

Fatidissima. Stinking Gladdon with beardless flowers, inner petals very patent, the stalks without angles and the leaves shaped like a sword. In woods and hedges near Hornsey. Per. June and July.

TRYGYNIA comprehends such as have three pistils.

MONTIA. WATER-CHICKWEED.

The cup confifts of two oval, concave, obtuse, erect leaves that remain till the fruit is ripe. The flower is monopetalous and quinquepartite; three of the fegments are alternately less and support the stamina. There are three capillary filaments the length of the corolla, on which they are inferted, with small antheræ. The germen is turbinated, with three villose patent styles and simple stigmata: The fruit is a turbinated, obtuse, covered, unilocular capfule, with three valves, containing three roundish seeds.

Obf. Linn. The cup has often three leaves, and there are often five stamina.

Fontana. Montia. Water-Chickweed. An. April.

C L A S S IV.

TETRANDRIA.

The plants of this class have four stamina, and from one to four pistils.

MONOGYNIA comprehends fuch plants as have only one pistil.

DIPSACUS. WILD TEASEL.

HE common cup consists of many flowers, and many leaves that are longer than the floscule, lax and endure till the fruit be ripe. The proper cup is scarce manifest, resting upon the germen. The proper universal flower is equal, monopetalous and tubulose, the limb is quadrisid and erect, the exterior segment being larger and more acute. There are four capillary silaments, longer than the corolla, with the antheræ incumbent. The germen is beneath the proper receptacle, the style is like thread and the length of the corolla, with a simple stigma. The fruit is a common receptacle of a conical sigure, beset with long scales, containing a single columnar feed with a marginaceous rim.

Fullonum. Manured Teasel with serrated sessile leaves, and the beards of the fruit bended back. Bien. July.

Pilosus. Small wild Teasel with leaves on the foot stalks.

In watery places and in hedges. Aug.

Sylvestris. Wild Teasel with serrated, sessile leaves, and the beards of the fruit erect. Bien. July. About the New-Mill near Burton, West.

SCABIOSA. SCABIUS.

The common cup confifts of many flowers, and many leaves, furrounding the receptacle in various feries and resting upon it, of which the interior ones are gradually less. The proper cup is double and both are upon the germen

germen. The exterior cup is shorter, membranaceous, plicated, and endures till the fruit be ripe. The interior cup is quinquepartite, the fegments are fubulato-capillaceous. The universal flower is equal; the proper one is monopetalous, tubulofe, half cut into four or five

equal, and often unequal, fegments.

There are four filaments that are fubulato-capillary and weak, with oblong incumbent antheræ. The germen beneath the proper receptacle is involved in a sheath as it were in a fmall cup or calyx. The style is like thread of the length of the corolla. The stigma is obtufe and obliquely emarginated. There is no feed veffel, but the feeds are folitary, ovato-oblong, wrapped up and crowned with their proper cups. The common receptacle is convex.

Succifa. Scabius or Devil's Bit with quadrifid, equal flowers, fimple stalk branches approximating, and leaves lanceolato-oval and entire. In meadows and pastures. On Mr TownLey's, of Leighton-Hall, meadows adjoining the

mosses. Per. July and Aug.

Arvensis. Common Field Scabius with quadrifid flowers forming a ray, a hispid stalk and pinnatifid leaves. Per.

Aug.

Columbaria. The leffer Field Scabius with quinquifid flowers forming a ray; the radical leaves are oval and crenated, those on the stalk are pinnated and setaceous. In mountainous pastures. On Dupper's-Hill near Croydon. Per. July. In feveral dry pastures about Yealand, Lan.

ASPERULA. WOODROOF.

The cup is small, quadridentated, and placed upon the germen. The flower is monopetalous and infundibuliform; the tube is cylindraceous and long; the limb is quadripartite and the fegments are oblong, obtufe and reflex. The four filaments are placed on the fummit of the tube, with fimple antheræ. The germen is didymous, roundish, and beneath the receptacle; the style is like thread and bifid, and the stigmata are headed.

The Fruit is two dry globose berries joined together,

containing fingle, roundish, and large feeds.

Odorata. Woodroof with eight lanceolated leaves, and flowers in a bunch, fet on by peduncles. In woods and

shady places. Per. May.

Cynanchica. Squinancywort with four linear leaves: the upper leaves are placed opposite on an erect stalk, and the flowers are quadrifid. In dry mountains, especially chalky. Per. July.

GALLIUM. LADY'S BEDSTRAW.

The cup is small, quadridentated, and rests upon the germen. The slower is monopetalous, wheelshaped, quadripartite and acute. The germen is didymous and below the receptacle. The style is of a thread-like-form, semibistid and the length of the stamina, with globose stigmata. The fruit is two dry, globose berries joined together, containing single, large seeds of a kidneyshape.

Palustre, White Lady's Bedstraw with four oval, unequal leaves, and diffuse stalks. On the banks of rivers

and moist meadows. Per. July.

Pufillum. The least Lady's Bedstraw with eight hispid, linear, acuminated, imbricated leaves, and dichotomous peduncles. On the mountains near Kendal in West. On many mountains in the north of Lanc. Per. Aug.

Verum. Yellow Lady's Bedstraw, or Cheese-renning with eight linear sulcated leaves, and short branches bearing slowers. In way-sides and dry places frequently. July

and Aug.

Montanum. Mountain Lady's Bedstraw with four linear shining leaves, a weak stalk and shining seeds. On mountains. Per. July.

Mollugo. Wild Madder with eight ovato-linear, ferrated, patent, mucronated leaves, a feeble stalk, and patent

branches. In hedges. June and July.

Uliginosum. Marsh Goose-grass with six lanceolated, serrated, mucronated and stiff, pungent pointed leaves, and slowers larger than the fruit. On heathy and moist pastures

pastures. On Hampstead-heath plentifully. Per. June

and July.

Boreale. Croffwort Madder with four lanceolated leaves and three shining nerves, an erect stalk and hispid seeds. On mountains. Per. June till Aug. Near Orton and many other places in West. as on the banks of the river Lune a little above Kirkby Bridge.

Aparine. Cleavers or Goose Grass with eight lanceolated, carinated, rough, pungent, sharp pointed leaves, vil-

lose joints and hispid fruit. An. May till Aug.

Spurium. Goose Grass with smoother seeds and six lanceolated, carinated, rough, pungent, sharp pointed leaves, and simple joints. An. June.

Parisiense. The least Goose Grass with verticillate, linear leaves, bisid peduncles and hispid fruit. On walls

and barren pastures. Per. July.

Erettum. Small Mountain Bastard Madder with eight shining, lanceolated, sharp pointed leaves, an upright stalk, a panicle at the end, and dichotomous peduncles. Per. Aug.

R U B I A. WILD-MADDER.

The cup is small, quadridentated, and fixed above the germen. The slower is monopetalous, campanulated, quadripartite and without a tube. The four subulated filaments are shorter than the corolla with simple antheræ. The germen is didymous and beneath the receptacle. The style is like thread, and bisid, with headed stigmata. The fruit is two shining berries growing together, containing solitary, roundish, umbilicated seeds.

Obf. LINN. The flower is often quinquifid.

Anglica. Wild-Madder with four leaves. On St Vincent's Rock near Bristol. July and Aug.

PLANTAGO. PLANTAIN.

The cup is quadripartite, erect, short and endures till the fruit be ripe. The flower is monopetalous, endures till the fruit be ripe and then withers away; the tube is cylindrically

cylindrically globose: The limb is quadripartite and depressed, and the segments oval and acute. The four silaments are capillary, erect and very long; the antheræ are oblongish, compressed and incumbent. The germen is oval, the style is like thread, of half the length of the stamina. The fruit is an oval, bilocular capsule, with a lax dissepimentum and many oblong seeds.

Obf. LINN. The cup in some is equal, in others

unequal.

Plantains with naked Stems.

Major. Plantain with oval smooth leaves, a round stem and a spike with imbricated floscules. By way sides An. June and July.

Media. Hoary Plantain with ovato-lanceolated, hoary leaves, a cylindrical fpike and roundish stem. In gravelly pastures and road-sides. Per. July and Aug.

Lanceolata. Ribwort Plantain with lanceolated leaves, a naked, oval spike, and angulated stem. Per. June—Aug.

Maritima. Narrow leaved Sea Plantain with entire, femicylindrical leaves, a woolly base and a long round stem. On the sea-shore between Newcastle and Morpeth. Per. June and July.

Læffingii. Sea Plantain with linear and somewhat dented leaves a round stem, and cylindrical spike, with cari-

nated, membranaceous bracteæ. Per. July.

Coronopus. Buckshorn Plantain with linear, dented leaves and a long round stem. In gravelly places. An. July and Aug.

Uniflora. Grass-leaved Plantain with one flower, and subulated leaves. In sandy pastures. On Hounsley-heath

near Witton.

Montana. Mountain Plantain with lineari-lanceolated leaves that are woolly at the base, a roundish spike, and long round stem. Hudson's Fl. Ang. Per. July.

CENTUNCULUS. BASTARD PIMPERNEL.

The cup is quadripartite, patent, and remains till the fruit be ripe; the fegments are acute, lanceolated, and longer than the corolla. The flower is monopetalous and wheel shaped. The tube is partly globose. The limb is quadripartite and plain with segments somewhat oval. The four silaments are almost the length of the corolla having simple antheræ. The germen is roundish, situated within the tube of the flower; the style is like thread, of the length of the flower and remains till the fruit be ripe, having a simple stigma. The fruit is a globose, unilocular capsule containing many small seeds.

Minimus. Bastard Pimpernel with alternate, oval leaves. Found near the Paper Mills on Hounstow-heath. Dr.

WATSON. An. June.

SANGUISORBA. BURNET.

The cup confifts of two leaves opposite each other, very short, and fall off with the flower, which is monopetalous, plain and quadripartite, the segments being oval and obtuse, cohering only at the ungues. The four filaments are broadest towards the top, and of the length of the corolla, with roundish, small antheræ. The germen is tetragonal, situated between the cup and corolla. The style is like thread and very short with an obtuse stigma. The fruit is a small, bilocular capsule, containing small seeds.

Officinalis. Burnet with oval spikes. In wettish pastures and dry mountains. Per.

ALCHEMILLA. LADY'S MANTLE.

The cup is monophyllous, tubulated and endures till the fruit be ripe; the mouth is plain and divided into eight parts; the segments are alternately less. There is no slower, but four erect subulated and very small filaments placed on the mouth of the cup with roundish antheræ. The germen is oval, the style is like thread, of the length of the stamina, and placed on the base of

the

the germen with a globose stigma. The neck of the cup is shut and contains a single, elliptical, compressed seed.

Vulgaris. Lady's Mantle with leaves in a lobe. On

mountains and pastures. Per. June-Aug.

Alpina. Cinquefoil Lady's Mantle with digitated, serrated leaves. On Limestone-Knot in Longsleddale six miles from Kendal. West. Wilson's Sy. Per. July.

Minor. The least Lady's Mantle with lobated, plicated,

acutely ferrated leaves like filk. Per. July.

We have, in conformity to the original, classed Vervain among the Diandria Monogynia plants, tho' it has, we believe invariably four stamina and ought with great propriety to be inferted among the plants of this class, we mean the english Vervains.

SHERARDIA. LITTLE FIELD-MADDER.

The cup is small, quadridentated, placed above the germen and endures till the fruit be ripe. The flower is monopetalous and infundibuliform, with a long cylindraceous tube: The limb is quadripartite, plain and acute. The four filaments are placed on the top of the tube with simple antheræ. The germen is didymous, oblong and beneath the receptacle, the style is like thread and bissid at the summit, with headed stigmata. The fruit is oblong, coronated, and longitudinally separable into two-seeds that are oblong and marked on the apices with three points, convex on one side and plain on the other.

Arvensis. Little Field Madder with all the leaves in whorls, and flowers at the end of the stalks. May and

June.

DIGYNIA comprehends such as have two pistils.

APHANES. PARSLEY-PIERT.

The cup is monophyllous, tubulated, and remains till the fruit be ripe; the mouth is plain and divided into eight parts, the fegments being alternately less. There

is no flower, but four erect, fubulated, very small filaments, placed on the mouth of the cup, with roundish antheræ. There are two oval germina with styles like thread, of the length of the stamina, and placed at the base of the germen. The stigmata are headed. The cup contains in the bottom two oval, acuminated, compreffed feeds of the length of the style.

Obf. LINN. This plant approaches near to the La-

dy's Mantle.

We have but one species of this plant. In dry paftures and on rocky mountains. An. May-Aug. On Yealand common plentifully.

BUFONIA. BASTARD CHICKWEED.

The cup is tetraphyllous, erect and endures till the fruit be ripe, the leaves are fubulated and carinated with membranaceous margins. There are four flower petals, oval, emarginated, erect, equal, and shorter than the cup. The four filaments are equal and the length of the germen, with didymous antheræ. The germen is oval, compressed with two styles the length of the stamina, The fruit is an oval, compressed, unilocular capfule with two valves, containing two oval compressed seeds, that are convex on one fide.

We have but one species of this plant. On the sea

shore. On Hounstow-heath. R. Sy. May.

TETRAGYNIA comprehends such as have four pistils.

POTAMOGETON. PONDWEED.

There are four roundish, obtuse, concave, erect, unguiculated, deciduous petals without any cup. The four filaments are plain, obtuse and small with didymous and short antheræ. There are four ovally-pointed germina and obtuse stigmata. There is no feed vessel, but the feeds are four in number, roundish and acuminated, gibbous on one fide, and compressed and angulated on the other.

Natans.

20 TETRANDRIA TETRAGYNIA.

Natans. Broad leaved Pondweed with oblongo-oval petiolated swimming leaves. In rivers. Per. Aug.

Perfoliatum, Perfoliated Pondweed with cordate leaves furrounding the stalks. In rivers. Per. June and July.

Lucens. Long-leaved Pondweed with plain lanceolated leaves ending in petioles. In rivers and lakes. Per. June.

Crispum. The great Water-Caltrops with lanceolated leaves alternately undulated and serrated. In rivers, dit-

ches, and standing waters. May and June.

Seratum. The lesser Water-caltrops or Freg's-lettuce with opposite, lanceolated leaves, partly undulated. In smooth running rivers. Per. June.

Compressum. Pondweed with linear, obtuse leaves and

a flat stalk. Per. June and July.

Petinatum. Fennel-leaved Pondweed with setaceous, parrallel leaves growing in distichs. In the Serpentine river in Hide-Park. Per. June.

Gramineum. Grass-leaved Pondweed with linearly, lanceolated leaves, alternately sessile and broader than the

ftipula. In the ditches about Deptford. Per.

Marinum. Sea Pondweed with linear leaves alternately distinct, and at the bottom forming a kind of a sheath.

In ditches near the fea. Per. Aug.

Pufillum. Small grass-leaved Pondweed with opposite, alternately distant leaves, patent at the base, on a long round stalk. In ditches and standing Waters. Per. June—Aug.

SAGINA. PEARLWORT OF CHICKWEED BREAK-STONE,

The cup consists of four oval, concave, patent leaves that remain till the fruit be ripe; and the flower consists of four oval, obtuse, patent petals that are shorter than the cup. The four silaments are capillary with roundish antheræ: The germen is partly globose, with four subulated styles, bending back and downy. The stigmata are simple. The fruit is an oval quadrilocular capsule consisting of four valves, containing many small seeds sixed to the receptacle.

Procumbens.

PENTANDRIA MONOGYNIA. 21

Procumbens. Pearlwort with procumbent branches. On walls, houses, and fandy fields. An. June.

Erecta. The least Stitchwort with an upright stalk, and

one or three flowers. An. April and May.

CLASS V.

PENTANDRIA.

The plants of this class have five stamina and from one to five pistils or more.

MONOGYNIA comprehends such plants as have but one pistil.

MYOSOTIS. MOUSE-EAR'D SCORPION-GRASS.

THE cup is semiquinquisid, oblong, erect, acute, and remains till the fruit be ripe. The flower consists of one petal with a cylindraceous, short tube. The limb is semiquinquisid and plain; the segments are emarginated and obtuse. The faux is short; the squamulæ are five in number, convex, prominent, and connivent. The five silaments, in the neck of the tube, are very short, with very small, covered antheræ. The germina are four: The style is like thread, of the length of the tube of the corolla, with an obtuse stigma. The cup is large, erect, and contains four oval, acuminated, smooth seeds.

Scorpioides. Mouse-ear'd Scorpion-grass with naked seeds, and the apices of the leaves callous. All the rest found in England are only varieties and not distinct species. In dry meadows and in ditches. Per. April—Aug.

LITHOSPERMUM, GROMWELL,

The cup is quinquepartite, oblong, straight, acute and endures till the fruit be ripe; the segments are subulated.

and keel-shaped. The flower consists of one petal the length of the cup, and is infundibuliform. The tube is cylindraceous, the limb is semiquinquisid, obtuse, erect with a perforated faux. The five filaments are very short, with oblong antheræ in the faux of the corolla. There are four germina with a thread-like style the length of the tube of the corolla, and an obtuse, bisid stigma. There is no seed vessel, but the cup contains four ovatoacuminated, hard, shining seeds.

Officinale. Gromwell with polished seeds and flowers scarce appearing above the cup, and lanceolated leaves. In the Tarns, a common field between Yealand and Burton, plentifully. Lan. About Bristol. In Carlton wood, Camb.

Dr. WILMER. Per. June and July.

Purpuro-cæruleum. The lesser creeping Gromwell with polished feeds and flowers much larger than the cup. In mountainous pastures. Per. June.

Arvense. Bastard Alkalet with rugose seeds, and flowers scarce appearing above the cup. An. June and July.

ANCHUSA. ALKALET.

The cup is quinquepartite, oblong, round, acute, and endures till the fruit be ripe. The flower is monopetalous and infundibuliform; the tube is cylindraceous and the length of the cup; the limb is femiquinquifid, erectopatent and obtufe. The faux is shut with five convex, prominent, oblong connivent scales: The five filaments are very short, in the mouth of the corolla, with oblong, incumbent, covered antheræ. There are four germina, and a thread-like style, the length of the stamina. The stigma is obtuse and emarginated. The cup, which becomes large and erect, contains four oblong, obtuse, and gibbous seeds.

Sempervirens. Evergreen Alkalet with capitated, diphyllous peduncles, Found near Vauxhall. June and July.

CYNOGLOSSUM. Hound's-Tongue.
The cup is quinquepartite, oblong, acute, and endures till

till the fruit be ripe; the flower is monopetalous, infundibuliform and the length of the cup, the tube is cylindraceous and shorter than the limb, which is semiquinquisid, the faux is shut with sive convex, prominent, connivent scales. The five silaments are very short in the faux of the corolla, with roundish naked antheræ. There are four germina, with a subulated style, the length of the stamina, that endures till the fruit be ripe, and the stigma is emarginated. There is no seed vessel but the arilli of the seeds or outward skins which are roundish, externally more obtuse and scabrous, serve the place thereof. The seeds are partly oval, gibbous, acuminated and smooth.

Obf. Linn. The effential characteristic consists in the four arilli fixed to the style and containing each one feed.

Officinale. Hound's-tongue with stamina shorter than the flowers, the leaves are broadly lanceolated, sessile and downy. Very common in the north of Lancashire. Per. June and July.

PULMONARIA. Bugloss-cowslips, or Long-LEAVED SAGE of JERUSALEM.

The cup consists of one quinquedentated, pentagonal leaf that endures till the fruit be ripe. The flower is monopetalous and infundibuliform. The tube is cylindrical, and of the length of the cup. The limb is semi-quinquisid, obtuse, and erecto-patent. The faux is pervious. The five filaments are very short and placed in the faux, with erect, connivent antheræ. There are four germina, and a thread-like style shorter than the cup. The stigma is obtuse and emarginated. There is no seed vessel, but the cup contains four roundish, obtuse seeds in its bottom.

Officinalis. Sage of Jerusalem with radical, ovato-cordate, and scabrous leaves. In woody places. Per. May and June.

Maritima. Sea-Bagloss with shortened cups, oval

24 PENTANDRIA MONOGYNIA:

leaves, and a ramose procumbent stalk. In the Isle of Walney, and near Whitehaven. Cum. Mr. Lawson. Per. July.

SYMPHYTUM. COMFREY.

The cup is quinquepartite, erect, pentagonal, acute, and endures till the fruit be ripe: The flower is monopetalous; the tube is short, the limb is tubulato-ventricose, and somewhat thicker than the tube, the mouth is quinquedentated, obtuse and reslex. The faux is surrounded with five subulated rays, shorter than the tube, which converge into a cone. The five silaments are subulated and placed alternately with the rays of the faux, having acute, erect and covered antheræ. There are four germina, with a thread-like style, the length of the cup and a simple stigma. There is no seed vessel, but the cup is enlarged and contains four gibbous, acuminated, connivent seeds.

Officinale. Comfrey with ovato-lanceolated, decurrent leaves. In watery places and on the banks of rivers.

Per. July and Aug.

BORAGO. BORAGE.

The cup is quinquepartite, and remains till the fruit be ripe. The flower is monopetalous, wheel-shaped and the length of the cup. The tube is shorter than the cup. The limb is quinquepartite, round and plain. The faux is coronated, having five prominencies, emarginated and obtuse. There are five subulated, connivent silaments, with oblong antheræ affixed to the internal side of the silaments. There are four germina with a thread-like style longer than the stamina. The stigma is simple. There is no seed vessel but the cup becomes larger, inslated, and contains four roundish, rugose seeds, carinated outwardly from the point, globose at the base, and inserted into a hollow receptacle.

Officinalis. Borage with the leaves placed alternately,

and patent cups. Per. June-Aug.

medicine with instruct cups, oval

PENTANDRIA MONOGYNIA. 25

ASPERUGO. GERMAN MADWORT.

The cup is monophyllous, quinquifid, erect, with unequal denticles, and remains till the fruit be ripe. The flower is monopetalous and infundibuliform. The tube is cylindraceous and very short. The limb is semiquinquifid, obtuse and small. The faux is shut with five con-

vex, prominent, connivent scales.

The five filaments are very short and placed in the faux, with oblongish and covered antheræ. There are four compressed germina with a thread-like short style, and an obtuse stigma. There is no seed vessel, but the cup which is very large, erect, compressed, and connivent, contains four oblong compressed seeds, standing by pairs.

Procumbens. German Madwort with compressed cups. By Boxley in Suffex and in the Holy Island, R. Sy. Near Purfleet in Essex, D ALCHORNE. An. April and May.

LYCOPSIS. SMALL WILD BUGLOSS.

The cup is quinquepartite, the fegments oblong, acute. patulent and remain till the fruit be ripe. The flower is monopetalous and infundibuliform: The tube is cylindraceous and bended, the limb is femiguinguifid and obtuse. The faux is shut and the scales are convex, prominent and connivent. There are five very fmall filaments at the flexure of the tube of the corolla. There are four germina with a thread-like style the length of the stamina, and an obtuse bisid stigma. There is no feed veffel, the cup being very large and inflated, contains four oblongish seeds.

Obf. Linn. The effential character confifts in the curvature of the tube of the corolla.

Arvensis. Small wild Bugloss with hispid, lanceolated leaves and erect cups. In fields and by road-fides. An. June and Sep. The transact of court of I whom MUHDE ECHIUM, emargingred, and obtufe, with a

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E C H I U M. VIPER'S BUGLOSS.

The cup is quinquepartite, erect and endures till the fruit be ripe; the fegments are subulated and erect. The slower is monopetalous and campanulated; the tube is very short and the limb erect, growing gradually wider at the extremity, where it is divided into five unequal fegments; the two upper fegments being longer than the rest, and the lowest one is small, acute and reslex; the faux is pervious. There are five subulated silaments of the length of the corolla, declining and unequal, with oblong, incumbent antheræ. There are four germina with a thread-like style the length of the stamina, and an obtuse, bisid stigma. There is no feed vessel, instead of which the cup becomes rigid and contains four roundish and obliquely acuminated seeds.

Vulgare. Viper's Bugloss with a tuberculato-hispid stalk, the stalk leaves are lanceolated and hispid, the spike flowers are on the side. In fields and road sides. Per.

Fully.

Anglicum. English Viper's Bugloss with a simple, erect stalk, lanceolato-linear hispid leaves, and the spike slowers on one side. The stamina are longer than the corolla.

MILLER'S Diet. Aug.

Italicum. Wall Viper's Bugloss with a hairy, erect stalk, rough spikes and very long stamina. In sandy places. In the Isle of Jersey, on the sandy grounds near St Hilary plentifully. Hup. Flo. Ang. Per. July.

PRIMULA. PRIMROSE.

The involucrum hath many leaves, many flowers, and is very small. The cup is monophyllous, tubulated, pentagonal, quinquedentated, acute, erect, and endureth till

the fruit be ripe.

The flower is monopetalous, the tube is cylindraceous and the length of the cup, terminated with a small hemispherical neck. The limb is patent and semiquinquistid; the segments cordate, emarginated, and obtuse, with a pervious

pervious faux. The five filaments are very short, within the neck of the corolla. The antheræ are acuminated, erect and connivent. The germen is globose, the style is thread-like, of the length of the cup, with a globose stigma. The fruit is a roundish capsule almost the length of the cup, covered, unilocular and has ten dents, containing numerous, roundish seeds. The receptacle is ovato-oblong and loofe.

Vulgaris. Common Primrose with rugose, dented leaves, and a stem having but one flower. In woods and hedg-

es. Per. April and May.

Veris. Cowslips with rugose dented leaves and a stem having many flowers. Plentiful in many Parts of the

North of Lan. Per. April and May.

Farinofa. Bird's Eye with crenated smooth leaves and the limb of the flower plain. In the meadows about Leighton-hall, the feat of GEO. TOWNLEY, Efq. Lan. plentifully. In foft ground in Lan. West. and Yorksh. Per. May, June and July.

MENYANTHES. MARSH TREFOIL, OF BUCK-BEAN.

The cup is monophyllous, quinquepartite, erect, and endures till the fruit be ripe. The flower is monopetalous and infundibuliform. The tube is cylindricallyinfundibuliform, and fhort. The limb is quinquifid beyond the middle, the fegments are reflexo-patent, obtufe and roughish. The five filaments are subulated and short with acute antheræ, bifid to the base and erect. The germen is conical, the ftyle is cylindrical and almost the length of the flower. The stigma is bisid and flat. The fruit is an oval capfule, unilocular and furrounded with a cup containing many oval, fmall feeds.

Trifolia. Marsh Trefoil or Buck-bean with three leaves. In wet meadows frequently. About New-dyke and Tewit-field-Tarn, near Yealand, Lancashire. Per. June and

July.

Nymphoides. Fringed Water-lily, with entire cordate leaves

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leaves and ciliated flowers. In rivers and large ditches. Per. June and July.

HOTTONIA. WATER-VIOLET.

The cup is monophyllous and quinquepartite, the fegments are linear and erecto-patulent. The flower is monopetalous and hypocrateriform; and the tube is the length of the cup. The limb is quinquifid and plain; the fegments are ovato-oblong and emarginated. The five filaments are fubulated, fhort, erect, opposite to the fegments of the corolla, and placed upon the tube thereof with oblong antheræ. The germen is globosofo-acuminated. The ftyle is thread-like and short with a globosofo fligma. The fruit is a globosofo, acuminated, unilocular capfule, placed upon the cup, containing many globosofo seeds. The receptacle is globosofo and large.

Palustris. Water Violet with a verticillate peduncle containing many flowers. In ditches and lakes frequently. On Brigsteer moss near Kendal West. plentifully. Per.

July and Aug.

LYSIMACHIA. WILLOW-HERB.

YANTIES MARSETA

The cup is quinquepartite, acute, erect, and remains till the fruit be ripe. The flower is monopetalous and wheel-shaped without any tube, the limb is quinquepartite and plain, the segments ovato-oblong. The five filaments are subulated with acuminated antheræ. The germen is roundish, the style is like thread, of the length of the stamina, with an obtuse stigma. The fruit is a globose, unilocular capsule with ten valves and many angulated seeds. The receptacle is globose, very large and punctated.

Such whose peduncles have many flowers.

Vulgaris. Yellow Willow-herb, or Loofestrife with a panicle and branches terminating with flowers.

Yellow

Yellow Willow-herb with short obtuse leaves and the flowers gathered into a head. R. Syn. 282. In shady places and on banks of rivers. Per. June and July.

Thirsiflora. Tufted Loosestrife with lateral pedunculated branches. In the East Riding of Yorkshire. Per. June.

Such whose peduncles have but one flower.

Nemorum. Yellow Pimpernel of the Woods with acute, oval leaves, folitary flowers and a procumbent stalk. In woods and often by road-fides. Per. May, June.

Nummularia. Moneywort with leaves partly cordate, folitary flowers and a creeping stalk. In moist meadows

and pastures. Per. June and July.

Tenella. Purple Moneywort with oval leaves somewhat acute, peduncles longer than the flowers and a creeping stalk. In paludibus cespitosis: Hudson. On the little hills, upon the mostly ground on Yealand Common, below Mr CLARKSON's of Brackenthwaite, Lan. plentifully. Per. July and August.

ANAGALLIS. PIMPERNEL.

The cup is quinquepartite, acute, and endures till the fruit be ripe, and the segments are carinated. The flower is monopetalous, and wheel-shaped without any tube. The limb is quinquepartite and plain; the legments are ovato-orbiculated and joined by ungues. The five filaments are erect, shorter than the corolle, and rough towards the bottom. The antheræ are finple. The germen is globose, the style is thread-like and flightly inclined, with a headed ftigma. The captale is globose, unilocular and cut round, having many angulated feeds. The receptacle is globose and very large.

Arvensis. Male and Female Pimpernel with una.v ded leaves, and a procumbent stalk. Common in itelas ar 1 dry places. The others mentioned by Authors are only varieties and not distinct species. snn. CONVOICES.

go PENTANDRIA MONOGYNIA

CONVOLVULUS. BINDWEED.

The cup is quinquepartite, connivent, oval, obtuse, very small and endureth till the fruit be ripe. The slower is monopetalous, campanulated, patent, large, folded and obsoletely quinquelobed. The five silaments are subulated, shorter by half than the corolla, the antheræ are oval and compressed. The germen is roundish, the style is thread-like, of the length of the stamina. There are two stigmata, oblong and broadish. The fruit is a roundish capiule wrapped up in the cup having one, two, or three valves, and two roundish seeds.

Obf. Linn. The flower has commonly ten notches

in the edge.

Such as have climbing Stalks.

Arvensis. Small Bindweed with sagitated leaves, sharp on both sides, and one slower on the peduncle. In fields and roads almost every where. Per. June and July.

Sepium. Great Bindweed with fagitated, truncated leaves, and tetragonal peduncles with fingle flowers.

In hedges often. Per. June and July.

Soldanella. Sea Bindweed with kidney-shaped leaves, and peduncles with single flowers and a prostrate stalk. Frequent on the sea-shore. Per. July.

POLEMONIUM, GREAT VALERIAN, LADDER to HEAVEN, and JACOB'S LADDER.

The cup is monophyllous, semiquinquisid beneath the receptacle, shaped like a glass, acute and remains till the fruit be ripe. The flower is monopetalous and wheel-shaped, the tube is shorter than the cup, shut with five valves to the apex. The limb is quinquepartite, large and plain; the segments are roundish and obtuse. The five silaments are inserted upon the valves of the tube of a thread-like form, shorter than the corolla, and inclined. The antheræ are roundish and fixed on by the sides. The germen is oval, acute, and the style is a thread-like form,

form, the length of the corolla. The stigma is trisid and bended backwards. The fruit is a trigono-oval, trilocular capsule with three valves, and many irregular, acute seeds.

Cæruleum. Jacob's Ladder with pinnate leaves, erect flowers, and cups longer than the tube of the corolla. About Malham-cove. Dr Richardson. Per. June.

CAMPANULA. BELL-FLOWER.

The cup is quinquepartite, acute, erecto-patent, and above the receptacle. The flower is monopetalous, campanulated, impervious at the base, semiquinquisid, and withereth away; the segments are broad, acute and patulent. The nectarium is in the bottom of the corolla made up of five acute, small, connivent valves, that cover the receptacle. The five silaments are capillary, very short, and inserted upon the top of the valves of the nectarium. The antheræ are compressed and longer than the filaments. The germen is angular and beneath the receptacle, the style is like thread and longer than the stamina. The stigma is tripartite, oblong, thickish and bended backwards. The fruit is a roundish, angulated capsule, having three or sive valves, and as many lateral formina emitting the seeds, which are numerous and small The receptacle is fixed and columnar.

Obf. LINN. The figure of the feed veffel is indeter-

minate.

Rotundifolia. The leffer round leaved Bell-flower with the leaves towards the root of a kidney shape, and those on the stalk linear. In dry barren pastures frequent.

July and Aug.

Patula. Field Bell-flower with very straight leaves, and those towards the root lanceolato-oval and a patulent panicle. In woods and hedges. In Buddon wood near Loughborough, Leicest. Mr Pultney. Per. July and Aug.

Uniflora. Mountain Bell-flower with one flower on the stalk. On the mountains about Grasmere in West. Hudson. Per. July and Aug. Repunculus;

Rapunculus. Rampions with undulated leaves, those at the root being lanceolato-oval, with a panicle not patulent. On the banks of ditches and fields but not common. Near Croydon in Surry. Hudson. Per. Aug.

Latifolia. Giant's Throatwort with ovato-lanceolated leaves, a very simple cylindrical stalk, solitary pedunculated slowers and cernuous fruit. In most part of the North plentifully. About Yealands in abundance. Lan. Per. July and Aug.

Trachelium. Canterbury Bells with an angulated stalk, petiolated leaves, ciliated cups, and trifid peduncles. In

woods and hedges. Per. July and Aug.

Glomerata. Lesser Throatwort with a simple angulated stalk, sessile slowers that end in a head. On mountain-

ous and chalky pastures. Per. July.

Hybrida. The less Venus's looking-glass or Codded Corn-Violet with a strait branching stalk at the base, oblong, crenated leaves, aggregated cups, longer than the corolla and prismatic capsules. In fields but not common. In the fields about Northfleet and Stone plentifully. An. June and July.

Hederacea. Ivy-leaved Bell-flower with cordate, quinquelobed, petiolated, smooth leaves, and a loose stalk. On moist and watery banks in the West of England, especially in Cornwal and Devonshire. Hudson. Lawson found it about Sheffield in Yorksh. Per. May—Aug.

PHYTEUMA. HORNED RAMPIONS.

The cup is monophyllous, quinquepartite, acute, erecto-patent and placed above the germen. The flower is monopetalous, stellate, patent, and quinquepartite, the segments are linear, acute and bended back. The five filaments are shorter than the corolla, with oblong antheræ. The germen is below the receptacle, the style is of a thread-like shape, the length of the corolla, and bended back. The stigma is tripartite, oblong and turned back. The seed vessel is a roundish trilocular, capsule with many small, roundish seeds.

Orbicularis.

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Orbicularis. Horned Rampions with a round head, or fpike of flowers, ferrated leaves, and those towards the root cordate. On dry pastures. On the downs of Hamp-Shire and Suffex. R. Sy. Per. July.

SAMOLUS. ROUND-LEAVED WATER-PIMPERNEL.

The cup is quinquepartite, placed above the receptacle and obtuse at the base; the segments are erect and remain till the fruit be ripe. The flower is monopetalous and hypocrateriform. The tube is very short, only the length of the cup, and patulent. The limb is plain, quinquepartite, and obtufe. The fquamulæ are very short at the base of the sinus of the limb and connivent. The five short filaments are within the segments of the corolla, with connivent, covered antheræ. The germen is beneath the receptacle, the style is thread-like, the length of the stamina with a headed stigma. The fruit is an oval capfule furrounded by the cup containing only one cell and many small oval feeds. The receptacle is globose and large.

Valerandi. Round-leaved Water-pimpernel with a roundish leaf not crenated. BAUH. Pin. 252. PARK. 1237. In moist meadows between Greenwich and Woolwich, Hup-

son. Per. June.

VERBASCUM. MULLEIN.

The cup is monophyllous, quinquepartite, fmall and endures till the fruit be ripe, and the segments are erect and acute. The flower is monopetalous and wheel-shaped, the tube is cylindraceous and short, the limb is patent and quinquepartite, the fegments oval and obtufe. The five filaments are fubulated, bended backwards, shorter than the corolla, with roundish, compressed, erect antheræ. The germen is roundish, the style is thread-like, of the length of the stamina and bended inwards. The stigma is thickish and obtuse. The fruit is a roundish, bilocular capfule. The receptacles are partly oval and fixed to the diffepimentum. The feeds are numerous and angulated. F

Thapfus.

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Thapfus. Great White Mullein, High-taper, Cow's Lungwort with decurrent leaves downy on both fides. Bien. July.

Lychnitis. Hoary Mullein with oblong leaves like wed-

ges. This I found on Shooter's Hill. Bien. July.

Nigrum. Sage-leaved black Mullein with cordato-oblong

petiolated leaves. July.

Blattaria. Yellow Moth Mullein with oblong smooth leaves surrounding the stalk, and solitary peduncles. An. June.

DATURA. THORNY APPLE.

The cup is monophyllous, oblong, tubulated, ventricose, quinquangular, quinquedentated, horizontally deciduous near the base, and the remaining part is orbiculated, and endures till the fruit be ripe. The flower is monopetalous and infundibuliform. The tube is cylindraceous, commonly longer than the cup. The limb is erecto-patulent, quinquangular, quinqueplicated, almost entire, quinquedentato-acuminated. The five filaments are fubulated and the length of the cup, with oblong compressed, obtuse antheræ. The germen is oval, the Style is like thread and straight. The stigma is thickish, obtufe, bilamellated. The fruit is a bilocular, oval capfule with four valves placed on the base of the cup. The receptacles are convex, large, pointed, and fixed to the diffepimentum. The feeds are numerous and kidney shaped.

Stramonium. Thorny Apple with spiny, erect, oval seed vessels and oval smooth leaves. About London. An. July.

HYOSCYAMUS. HENBANE.

The cup is monophyllous, tubulofe, and towards the bottom ventricofe; the mouth is quinquifid, acute, and remains till the fruit be ripe. The flower confifts of a fingle infundibuliform petal with a fhort cylindrical tube, and erecto-patent limb, lightly divided into five obtuse fegments,

fegments, one of which is broader than the rest. The five filaments are fubulated and bended inwards with roundish antheræ. The germen is roundish, the style is thread-like, the length of the stamina with a headed stigma. The fruit is a capfule of an ovato-obtuse figure with a line marked on each fide, containing many unequal feeds.

Common Henbane with finuated leaves fur-Niger. rounding the stalk, and sessile flowers. In way sides and in places where rubbish has laid for some time, common in the North. An. July.

ATROPA. DEADLY NIGHTSHADE.

The cup is monophyllous, quinquepartite and gibbous, the fegments are acute and remain till the fruit be ripe. The flower is monopetalous and campanulated, with a very short tube, a ventricose, oval limb, longer than the cup; the mouth is small, quinquifid and patulent with nearly equal fegments. The five filaments are fubulated and arise out of the base of the corolla, the length thereof, converging at the base, diverging at the top, and shaped like a bow. The antheræ are thickish, bending at the bottom, but erect towards the apices. The germen is femi-oval, the style is thread-like of the length of the stamina and bended. The stigma is headed, bended towards the bottom, then erect, and transverso-oblong. The feed veffel is a globofe berry, upon a large cup, which is bilocular, containing many kidney shaped seeds, The receptacle is convex, kidney-shaped and sleshy.

Belladonna. Deadly Nightshade with an herbaceous stalk and entire oval leaves. About Warton Lane-end, and Throngwood; Yealand common in feveral places, Lan. Near Rochester in Kent, about Fulborn in Cambridgeshire, Darking in Surry. And about Furness Abby, Lan. the estate of lord G. CAVENDISH; from whence it's called the Vale of Nightshade, by Mr WEST. Per. May, June and

Fuly.

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SOLANUM. COMMON NIGHTSHADE.

The cup is monophyllous, semiquinquisid, erect, acute, and remains till the fruit be ripe. The flower is monopetalous and wheel-shaped, having a very short tube. The limb is semiquinquisid, patent and plicated, with broad acute segments. The five silaments are subulated and very small, with oblong connivent antheræ, opening in the apices by two pores. The germen is roundish, having a thread-like style longer than the stamina and an acute stigma. The fruit is a roundish, smooth, bilocular berry with a convex sleshy receptacle, having many roundish seeds in the pulp.

Nigrum. Nightshade with an herbaceous unarmed stalk, oval, angular indented leaves, and nodding um-

bels. An. June and July.

Dulcamara. Woody Nightshade with a shrubby flexible, unarmed stalk, the upper leaves spearshaped, and bunches of flowers at the top of the stalk. In hedges that have a moist situation. Per. June and July.

ILLECEBRUM. VERTICILLATE KNOT-GRASS.

The cup is pentaphyllous and quinquangular, the leaves coloured and acuminated, the apices standing off one another and remaining till the fruit be ripe. The five capillary silaments are within the cup, having simple antheræ. The germen is oval, acute, ending in a short, bisid style, having a simple, obtuse stigma. The seed vessel is a roundish capsule, acuminated on both sides, having sive valves and one cell, covered in the cup, containing one roundish seed, acute on both sides and very large.

Verticillatum. Knot-Grass with naked, verticillate flowers and procumbent stalks. In moist meadows and pastures about Penzance in Cornwall. R. Sy. Per. July.

GLAUX. SEA MILKWORT, OF BLACK SALT-WORT.
There is no cup, unless you reckon the flower a cup,
which consists of one quinquepartite, campanulated, erect
petal

petal that endures till the fruit be ripe; the fegments are obtuse and bended back. The five filaments are fubulated and erect, of the length of the corolla, with roundish antheræ. The germen is oval, the style is thread-like, of the length of the stamina, with a headed ftigma. The fruit is a globose, acuminated, unilocular capfule, with five valves and as many roundish feeds. The receptacle is very large and globofe.

Maritima. Sea Milkwort with elliptico-oblong leaves.

Flo. LAPP. Found on the sea shore. Per. July.

THESIUM. BASTARD TOADFLAX.

The cup is monophyllous, turbinated, semiquinquifid and endures till the fruit be ripe; the fegments are lanceolated, erect and obtuse. There is no flower unless the internal coloured cup be one. The five filaments are subulated and placed on the basis of the segments of the cup, having roundish antheræ. The germen is beneath the receptacle, and grows to the base of the cup. The style is thread-like and of the length of the stamina with an obtuse, thickish stigma. There is no seed vessel, but the cup contains one roundish, covered feed.

Linophyllon. Bastard Toadslaw with a foliaceous panicle, and linear leaves. On Gogmagog-hills and Newmarket-heath. R. Sy. Near Basing stoke in Hampshire. Per.

June and July.

CHENOPOPIUM.

VINCA. PERIWINCLE.

The cup is quinquepartite, erect, acute, and endures till the fruit be ripe. The flower is monopetalous and faucer-like with a tube longer than the cup, cylindrical beneath, broader at the top, marked with five lines and has a pentagonal mouth. The limb is horizontally divied into five parts, each fegment growing to the top of the tube. The five filaments are very short and inflexed, with membranaceous, obtuse, erect, crooked, fariniferous antheræ. There are two roundish germina, with

two roundish corpuscles on their sides, supporting one common style the length of the stamina, crowned with two stigmata, the lower orbicular and plain, the upper headed and hollow. The fruit is composed of two taper, acute, pointed husks, opening lengthways, containing oblong, cylindrical, sulcated feeds.

. Minor. Periwincle with procumbent stalks, lanceolato-oval leaves and the flowers upon peduncles. In woods

and hedges. Per. May and June.

Major. Periwincle with erect stalks and oval leaves. Per. May and June.

DIGYNIA comprehends such as have two pistils.

HERNIARIA. RUPTUREWORT.

The cup is monophyllous, quinquepartite, acute, patent, coloured, and endures till the fruit be ripe, without any flower. The five fubulated filaments are very fmall, fituated between the fegments of the cup, with simple antheræ. There are five other barren stamina placed alternately with the others. The germen is oval with scarce any style, but two acuminated stigmata of the length of the style. The fruit is a small capsule in the bottom of the cup containing one solitary, ovato-acuminated shining seed.

Glabra. Smooth Rupturewort. Found in gravelly places. About the Lizard-point in Cornwall. Hudson.

An. July.

OWI

Hirsuta. Rough or hairy Rupturewort. In gravelly places, but not common. In the fields near Colney-hatch

near Barnet. An. July and Aug.

Lenticulata. Sea Rupturewort with a roundish, thick shining leaf like mother of thyme. R. Sy. 161. On the Sea-shore. Per.

CHENOPODIUM. COMMON ENGLISH MERCURY OF ALLGOOD.

The cup confifts of five leaves which are hollow and endures till the fruit be ripe. There are five subulated filaments opposite the leaves of the cup and of the same length, with roundish, didymous antheræ. The germen is orbicular, the style is bipartite and short, and the stigma is obtufe. There is no feed veffel, but the cup is thut and pentagonal, with five compressed angles, and deciduous, with one orbicular depressed feed.

Obf. LINN. In some species a trifid style is observ-

ed.

Bonus Henricus. Common English Mercury or Allgood with arrow-shaped triangular leaves that are entire, and compound spikes without leaves. A common plant. Per. June-Aug.

Urbicum. Upright Blite with dented, triangular leaves very straight, long, thickfet branches. Fl. Suec. 215.

An. Aug. and Sep.

Rubrum. Sharp-leaved Goosefoot with cordato-triangular obtusely dented leaves, erect, compound branches, shorter than the stalk. An. Aug.

Murale. Common-Goosefoot or Sowbane with oval, shining, acute, dented leaves, and naked branching stems.

An. Aug.

MUTT

Hybridum. Maple-leaved Blite with cordate angulatoacuminated leaves and naked branching boughs. An. Aug.

Viride. Common Orache with triangular entire, gnawed leaves, oblong fummits and erect branches. An. Aug.

Album. Green Blite with dentato-finuated rhomboidal leaves, and branching subfoliated boughs. An. Aug.

Serotinum. Late flowering Blite with deltoid, finuatodentated rugofe, uniform leaves, the branches terminating with fruit. An. Aug. Sep.

Glaucum. Oak leaved Blite with ovato-oblong repand leaves and naked, simple branches in clusters. An. Aug.

PENTANDRIA DIGYNIA.

Such as have entire leaves.

Vulvaria. Stinking Orache with rhombeo-oval, entire leaves, and flowers in a cluster. Hudson fays it grows frequently in uncultivated places by roads and walls. I never found it in the north of England, and but rarely about London. An. Aug.

entire leaves, a decumbent stalk, and dichotomous

fprouts. An.

Maritimum. Sea Blite or White Glasswort with subulated semicylindrical leaves. On the lea shore frequent-

ly. An. Aug.

Fruticosum. Shrubby Stone crop, or Glesswort with round linear fleshy leaves and a shrubby stem. Aug. On the sea shore:

BETA. SEA BEET.

The cup consists of five hollow leaves that endure till the fruit be ripe, and the segments are ovato-oblong and obtuse. There are five subulated filaments, without any flower, opposite to the leaves of the cup, and the same length, with roundish antheræ. The germen is below the receptacle and has two short, erect styles, with acute stigmata. The fruit is an unilocular, deciduous receptacle, containing one kidney-shaped, compressed seed, wrapped up in the empalement.

Vulgaris & Maritima. Sea Beet with decumbent stalks and triangular petiolated leaves. On the sea shore plen-

tifully. Hudson. Bien. Aug.

SALSOLA. PRICKLY GLASSWORT.

The cup consists of five oval, concave leaves that remain till the fruit be ripe. There is no flower, but there are five very short stamina placed upon the segments of the cup. The germen is globose, with a style divided into two or three parts, and recurved stigmata. The fruit

fruit is an oval, unilocular capfule, wrapped up in the

empalement having one large feed like a fnail.

Kali. Glasswort with subulated, sharp pointed leaves, and oval empalements proceeding from the sides of the stalks. On the sea shore. July, Aug.

SWERTIA. MARSH GENTIAN.

The cup is quinquepartite, plain and endures till the fruit be ripe, having lanceolated fegments. There is but one petal, and no tube. The limb is plain and quinquepartite and the fegments are lanceolated, larger than the cup, and joined by means of ungues. There are ten nectaria, two in the base of every fegment of the corolla hollowed and surrounded with small, erect bristles. There are sive subulated erecto-patent silaments shorter than the corolla with incumbent antheræ. The germen is ovato-oblong, without any style, but two simple stigmata. The fruit is a round, acuminated, unilocular, capsule with many small seeds.

Obs. There are some species with quadrisid flowers.

Perennis. Marsh Gentian with quinquisid flowers and

the radical leaves oval. Per. Aug.

GENTIANA. GENTIAN OF FELLWORT.

The cup is quinquepartite, acute and the segments are oblong and remain till the fruit be ripe. The slower consists of one tubulated, imperforated, quinquisid petal, that withers away, and is of various shapes. There are five subulated silaments shorter than the corolla with simple antheræ. The germen is oblong, cylindraceous and the length of the stamina, without any styles but two oval stigmata. The fruit is an oblong, round, acuminated capsule, slightly bisid in the apex and unilocular, with two valves, containing numerous small seeds. There are two receptacles growing longitudinally to the valve.

Obf. The fruit is of a constant figure but the number

42 PENTANDRIA DIGYNIA.

ber and figure of the flower differs very much in different species. There are some species which lose half in the flower. There is one species that adds a third in the flower. There is one species whose flower has a patent neck, another is shut with villæ, another the segments of the corolla are ciliated, another with a campanulated erect plicated limb; another with a stellate limb and small segments within the other segments. One has a campanulated flower, another has an infundibuliform.

Pneumonanthe. Calathian Violet with quinquifid, campanulated flowers on the opposite peduncles, and linear leaves. Per. Aug. Near Tunbridge Dr. WILMER. I found it on the Marshes near Millthorp in the County

of Westmorland plentifully.

Such as have quinquifid infundibuliform corollæ.

Amarella. Autumnal Gentian or Fellwort with quinquifid, faucer-like flowers, and a bearded faux. An. July and Aug. Found in Crowashes plentifully belonging to G. Townley, Efq. of Leighton-hall near Lancaster.

Centaurium. Lesser Centory with quinquisid, infundibuliform flowers and dichotomous stems. An. June-

Aug.

Such as have quadrifid corollæ.

Campestris. Vernal Dwarf Gentian with quadrisid flowers and a bearded faux. An. July and Aug. On Yealand and Warton Commons plentifully.

Filiformis. Marsh Centory with quadrifid flowers without a beard, and a dichotomous thread-like stalk. An.

July.

ERYNGIUM. SEA HOLLY OF ERYNGO.

The common receptacle is conical, and awns diffinguish the sessile flowers. The involucrum of the receptacle is polyphyllous, plain and above the floscules. The

The proper cup is pentaphyllous, erect, acute and above the flower, resting on the germen. The universal flower is uniform and roundish, and all the floscules are fertile. The proper flower hath five oblong petals inflected with the apex to the base. There are five capillary, straight filaments arising above the floscules, having oblong antheræ. The germen is hispid and beneath the receptacle, having two thread-like straight styles the length of the stamina with simple stigmata. The fruit is oval, and divisible two ways, having oblong seeds.

Maritimum. Sea-holly with roundish, plicated, spinose radical leaves, and pedunculated heads. On the sea-shore by Poulton near Lancaster. J. J. Per. July, Aug.

Campestre. Common Eryngo with pinnate tripartite radical leaves. On a rock which you descend to the ferry from Plymouth over into Cornwal. Hudson. On the Friar-goose near Newcastle upon Tyne. R. Sy. Below Melling in Yorkshire plentifully. Blacks. Spec. Bot. July, Aug.

HYDROCOTYLE. MARSH PENNYWORT.

The umbel is simple, the involucrum is often tetraphyllous and small, and there is scarce any empalement. The universal slower is uniform in sigure tho' not in stuation, and all the slowers are fertile. The proper slower is pentapetalous; and the petals are oval, acute, patent and entire. The five silaments are subulated and shorter than the corolla, having very small antheræ. The germen is erect, compressed and orbicular, having two very short subulated styles and simple stigmata. The fruit is orbicular, compressed and transversely divisible into two parts, with two compressed semiorbicular seeds.

Vulgaris. Marsh Pennywort with peltated leaves, and umbels with five flowers. Per. May. Found in marshy

places.

SANICULA. SANICLE.

The general umbel hath but very few rays, the partial one hath many and thick fet. The universal involucrum is but half round on the outside, the partial one surrounds it on every side. The cup is scarce observable. The universal slower is uniform, and each partial one is composed of sive petals that are bissed, compressed and instead. There are sive simple stamina, twice as long as the slowers and erect, with roundish antheræ. The germen is hispid, situated under the slower, having two subulated, resected styles and acute stigmata. The fruit is ovato-acute, scabrous and divisible into two parts each containing one seed, convex and prickly on one side, and plain on the other.

Europæa. Sanicle with the root leaves simple and all the floscules sessile. In woods and hedges. In all the woods about Yealand in Lancashire. Per. May, June.

BUPLEURUM. THOROW-WAX.

The universal umbel hath less than ten rays, and the partial one hath but seldom ten. The general involucrum hath many leaves, the partial one hath five patent, oval, and acute leaves. The proper cup is not visible. The general flower is uniform and all the floscules are fertile. The proper flower hath five involuted, entire and very short petals. There are five simple stamina with roundish antheræ. The germen is beneath the flower, with two reslected small styles and very little stigmata. The fruit is roundish, compressed, striated and divisible into two parts, each containing an oval seed, convex and channelled on one side, and plain on the other.

Rotundifolium. Thorow-wax with no general involu-

crum, but perfoliated leaves. An. July.

Tenuissimum. The least Hare's Ear with simple alternate umbels consisting of five leaves and three flowers. In pastures but not common. Near Ellesley, in the road from Camb. to St. Neots, at Malden in Essex; at Hastings in Sussex. July, Aug.

ECHI.

ECHINOPHORA. SAMPIRE OF SEA PARSNEP.

The general umbel has many rays, the intermediate ones the shorter. The partial one hath many sessile flowers, and the germina within the pedicles. The general involucrum hath a few acute rays. The partial one is turbinated, monophyllous, cut into six acute unequal segments. The proper cup is quinquisid, small, and remains till the fruit be ripe. The general slower is difform and radiated, the proper one is pentapetalous with unequal patulent petals. The five silaments are simple with roundish antheræ. The germen is oblong and beneath the slower and within the involucrum, with two simple styles and stigmata. There is no seed vessel, but in the place thereof we find an indurated, sharp pointed involucrum, containing two seeds.

Spinosa. Sampire with prickly heads and subulated prickly leaves that are entire. On the sea-shore. Observed by Mr. Lawson in Low Furness Lancashire. Mr. West told me he found it last year in Low Furness. Found in the way from Feversham to Sea Salter. BLACKS

Spec. Bot. July.

TORDYLIUM. PARSLEY.

The general umbel is unequal and multiplex, the partial one is unequal, multiplex, very short and plain. The general involucrum is composed of narrow undivided leaves being the length of the rays of the umbel, the partial one is half the length, and the proper cup is quinquedentated. The general flower is difform and radiated, and all the flowers are fertile. The proper flower of the disk hath five petals that are inflexo-cordate and unequal; the proper flowers of the ray are the same, but the outmost petal is largest and bipartite. In every flower there are five capillary stamina with simple antheræ. The germen is roundish and beneath the flower, having two small styles and obtuse stigmata. The fruit

is partly orbicular, compressed, crenulated, and divisible into two parts, each containing a single, roundish plain seed, with an indented border.

Obf. This differs from the following by having all

the floscules fertile or hermaphrodite.

Latifolium. Purple flowered great Bastard Parsley with the rays of the umbel close together, the leaves pinnate, and the lobes of the leaves lanceolated and serrated. Found among corn. In Cambridgeshire. R. Sy. An. June, July.

Nodosum. Knotted Parsley with single umbels sitting close to the stalks, and the outer-side of the seeds prick-

ly. An. May.

CAUCALIS. CORN-PARSLEY.

The general umbel is unequal and has very few rays, the partial one is unequal and has more rays, the external five of which are larger. The general involucrum has undivided leaves to the number of the rays, lanceolated and membranaceous borders, oval and short. The partial has fimilar leaves and longer rays. The proper cup is quinquedentated. The general flower is difform and radiated. The flosculi of the disk are abortive. The proper flower of the disk is masculine and fmall, with five inflexo-cordate equal petals. The proper flower of the ray is hermaphrodite with five inflexocordate, unequal petals, the outmost the largest and bifid, There are five capillary filaments in each, with fmall antheræ. The germen of the ray is oblong, scabrous and beneath the flower with two fubulated styles and two patent, obtuse stigmata. The fruit is ovatooblong, feriated longitudinally with rigid feabrous briftles, and two oblong feeds, convex on one fide and armed with prickles in order of the strige and plain on the other.

Arvensis. Small Corn Parsley with the umbels close together, the general involucrum monophyllous, the seeds oblong, the lobes ovato-lanceolated and pinnatisid.

An. Aug.

Anthriscus.

PENTANDRIA DIGYNIA 47

Anthrifeus. Hedge Parsley with the umbels close together, and seeds globose, and the leaves oval and pinnatifid. Bien. Aug.

Leptophylla. Fine leaved Bastard Parsley with the awns of the seeds hooked like a spear, verticillate and hispid

with spines. An. July.

DAUCUS. WILD CARROT.

The universal umbel is multiplex, fructiferous, concavo-connivent. The partial one is like it. The general involucrum is polyphyllous and the length of the umbel, the lobes are linear and pinnatifid, the partial one is more simple and the length of the umbellula. The proper cup is scarce observable. The general flower is difform and radiated, the proper one has five inflexo-cordate petals, the exterior ones being larger. There are five capillary filaments with simple antheræ. The germen is below the flower and small, with two styles that are respected and have obtuse stigmata. The fruit is oval, and often hispid, with stinging bristly hairs and divisible into two parts, containing each one oval seed, convex and hispid on one side and plain on the other.

Carota. Wild Carrot or Bird's Nest with hispid seeds and the fruit-stalks nerved underneath. Bien. June—Aug. In meadows and pastures.

BUNIUM. EARTHNUT.

The general umbel is multiplex with rays less than twenty, the partial one is very short and thick set. The general involucrum is polyphyllous, linear and short, the partial one is bristly and the length of the umbellula, the proper cup is scarce observable. The universal corolla is uniform and all the sloscules fertile, the proper one hath five inflexo-cordate, equal petals. There are five simple filaments shorter than the corolla with simple antheræ. The germen is oblong, and beneath

neath the receptacle, having two reflected styles and obtuse stigmata. The fruit is oval and divisible into two parts each containing an oval seed, convex on one side and plain on the other.

Bulbocastanum. Earthnut. We have but one species of this plant. Common in meadows and pastures. Per.

May, June.

CONIUM. HEMLOCK.

The general umbel hath many patent rays as well as the partial one. The general involucrum is polyphyllous, very short and unequal as well as the partial one, the proper cup is scarce observable. The general slower is uniform and the proper one hath five inflexo-cordate, unequal petals. The five stamina are simple with roundish antheræ. The germen is situated under the slower with two resected styles, and obtuse stigmata. The fruit is globose with five channels, each crenated and divisible into two parts, containing each one seed, convex, hemispherical and striated on one side and plain on the other.

Maculatum. Hemlock with striated seeds. An. June, July.

ATHAMANTA. SPIGNEL:

The general umbel is multiplex and patent, the partial one not so multiplex. The general involucrum is polyphyllous, linear, and shorter than the rays; the partial one is linear and the rays equal. The general corolla is uniform and all the floscules fertile; the proper one hath five inflexo-cordate and not quite equal petals. The five filaments are capillary and the length of the corolla with roundish antheræ. The germen is beneath the receptacle with two styles and obtuse stigmata. The fruit is ovato-oblong, striated and divisible into two parts, containing each an oval seed, convex and striated on one side and plain on the other.

Liba

Libanotis. Mountain Stone Parsley with plain, bipinnate leaves, an hemispherical umbel, and rough seeds. On Gogmagog-hills, Camb. Between St. Albans and Sto-

ney Stratford. Per. Aug. Sep.

Meum. Common Spignel, Meu, or Bawd-money with capillary leaves and striated seeds. In mountainous pastures in West. Yorksh. and Lan. I found it in company with several others in Mr Parkinson's estate called Cocklehead, near the house. West. July.

PEUCEDANUM. Hog's-FENNEL or Sulphur-wort.

The general umbel is multiplex, very long and slender, the partial one is patent. The general involucrum is polyphyllous, linear, small and reflected, the partial one is less. The proper cup is quinquedentated and very small. The general corolla is uniform, the proper one hath five equal, oblong, incurved, entire petals. The five filaments are capillary, with simple antheræ. The germen is oblong and beneath the receptacle, with two small styles and obtuse stigmata, The fruit is oval, striated on both sides, surrounded with a wing, and divisible into two parts, containing each, one ovato-oblong compressed seed, more convex on one side, and marked with three raised surrows and a broad membranaceous border, and indented at the top.

Officinale. Hog's Fennel with five leaves each divided into three, thread-like and linear. In the meadows near the fea-shore. Near Shoreham in Sussex, at Walton not far from Harwich in Essex, about a quarter of a mile below

Feversham by the river side. R. Sy. Per. June.

Minus. Rock Parsley with pinnate leaves and the lobes pinnatissid, the segments are linear and opposite, the stalk is very branchy and patulent. Hudson 101. On St. Vincent's Rock near Bristol. R. Sy. Bien. May.

CRITHMUM. SAMPHIRE.

as well as the partial one. The general involucrum is

H polyphyllous

polyphyllous, lanceolated, obtuse and restex; the partial one is lanceolato-linear and the length of the umbellula. The general slower is uniform and fertile, the proper one has sive oval instead petals almost equal. The five silaments are simple and longer than the corolla, with roundish antheræ. The germen is situated under the slower, having two restected styles and obtuse stigmata. The fruit is oval, compressed and divisible into two, each containing a compressed, elliptical, surrowed seed.

Maritimum. Samphire with lanceolated fleshy leaves.

Found on the sea shore. Per. Aug.

HERACLEUM. COW PARSNEP.

The general umbel is multiplex and very large, the partial one is plain. The general involucrum is polyphyllous and decays away. The partial one has from three to feven linear leaves and the exterior ones longest. The general flower is difform and radiated, the floscules are generally all fertile, the proper flower of the disk is equal and has five inflexo-uncinated and emarginated petals, the proper one of the ray is unequal and has five petals, the exterior ones larger, more bisid, oblong, and uncinated.

The five filaments are longer than the corollula, with fmall antheræ. The germen is oval, and fituated under the flower, having two fhort styles, and simple stigmata. The fruit is elliptical, compressed, emarginated, furrowed on each side, containing two oval, compressed, foliace-

ous feeds.

Sphondylium. Cow Parsnep with pinnatistid leaves. Bien. July. In hedges, meadows, and pastures.

LIGUSTICUM. SEA-PARSLEY.

The general umbel is multiplex as well as the partial. The general involucium is membranaceous, heptaphyllous and unequal; the partial one is scarce ever tetraphyllous. The general flower is uniform and all the floscules fertile, and the proper one hath five equal petals, inflexed

inflexed at their points, plain and entire, but internally carinated. There are five capillary filaments shorter than the corolla, with simple antheræ. The germen is beneath the flower with two styles, that approximate, and simple stigmata. The fruit is oblong, angulated with five channels and divisible into two parts, each containing an oblong fmooth feed on one fide, having five channels, and the other plain.

Schoticum. Scottish Sea Parsley with double winged

leaves. Bien. July.

Cornubiense. Cornwal Saxifrage with decomposite incifed leaves, the radical ones being by threes, lanceolated and entire. July.

ANGELICA.

The general umbel is multiplex and roundish, the partial one is globose. The general involucrum consists of three or five small leaves, the partial one is small and confifts of eight leaves. The cup of each flower is indented in five parts. The general flower is uniform and all the floscules fertile; the partial one consists of five lanceolated, plainish, incurved petals that are caducous. The five stamina are simple and longer than the corolla, with simple antheræ. The germen is situated below the flower having two reflexed styles and obtuse stigmata. The fruit is roundish, angulated and divisible into two parts, each containing an oval feed, plain on one fide and convex on the other, bordered and marked with three lines.

Sylvestris. Wild Angelica with equal ovato-lanceolated, ferrated leaves. In woods and hedges in a moift fituation. In the Woods belonging to Dalton-hall, Lan. Clawthrop-hall near Burton, West. Per. June, July.

S I U M. WATER PARSNEP.

The general umbel is various in different plants, and the partial one is patent and plain. The general involucrum is polyphyllous, reflex, and shorter than the um-

bel, H 2

bel, with lanceolated lobes; the partial one is polyphyllous, linear and small, and the proper cup is scarce observable. The general flower is uniform, and all the floscules fertile, the proper flower hath five indexo-cordate equal petals. The five stamina, with their antheræ, are simple. The germen is very small beneath the flower, having two restex styles and obtuse stigmata. The fruit is ovato-roundish, striated, small and divisible into two parts, each containing an ovalish feed, convex and striated on one side, and plain on the other.

Latifolium. Great Water Parsnep with pinnate leaves and stalks terminated by an umbel. In rivers and ditches.

Per. July, Aug.

Nodiflorum. Creeping Water Parsnep with pinnate leaves and umbels of flowers sitting close to the wings of the stalks. Grows as the former. Per. July, Aug.

Erectum. Upright Water Parsnep with pinnate leaves and umbels of flowers rising from the wings of the stalks on peduncles; and the general involucrum pinnatisid. Hudson. 103. Ray calls this the upright water parsnep with serrated leaves. In ditches and rivulets. Per. July.

S I S O N. BASTARD STONE PARSLEY.

The general umbel is composed of fix thin unequal rays, and the partial one of ten thin unequal rays. Both the general and partial involucrum are tetraphyllous and unequal. The general corolla is uniform, and all the floscules are fertile. The proper flower is equal and confists of five lanceolated, inflex, and plainish petals. The five stamina are capillary and the length of the corolla with simple antheræ. The germen is oval and situated under the flower, having two restex styles and obtuse stigmata. The fruit is oval, striated and divisible into two parts containing each one oval seed, convex and striated on one side and plain on the other.

Amomum. Bastard Stone Parsley with pinnate leaves and upright umbels. In woods and hedges. Per. July-Sep.

Segetum.

Segetum. Corn Parsley or Honewort with pinnate leaves

and nodding umbels. Bien. July.

Inundatum. The least creeping Water-parsnep with bi-fid umbels. May, June.

OENANTHE. WATER DROPWORT.

The general umbel hath few rays, but the partial one hath many fhort ones. The general involucrum is polyphyllous, fimple, and shorter than the umbel; the partial one is polyphyllous and fmall. The proper cup is quinquedentated, subulated and remains till the fruit be ripe. The general flower is difform and radiated, the flower of the disk is hermaphrodite, and has five inflexo-cordate nearly equal leaves. The proper flower of the ray is masculine and hath five very large, unequal inflexo bifid petals. The five stamina are simple and have roundish antheræ. The germen is beneath the flower, having two fubulated styles that endure till the fruit be ripe with obtuse stigmata. The fruit is partly oval, crowned with a cup and divisible into two parts containing each one oval feed, convex and striated on one fide and plain on the other with a dentated apex.

Obf. The cup is more visible in this genus than in

any of the umbelliferous tribe.

Fiftulosa. Water Dropwort producing shoots, and having pinnate, slender, sistulose leaves growing on the stalks. In ditches frequently. Common in the North and South of Eng. In the Ditches between Warton and Carnforth, Lan. July.

- Erocat. Dropwort with all the leaves multifid, obtuse, and nearly equal. On the banks of rivers. On the banks of the river Thames. In the ditches about Ken-

dal. Per. June.

Pimpinelloides. Pimpernel Dropwort with the lower leaves like wedges; those on the stalk being linear, very long, entire, and canaliculated.

Per. June.

CICUTA. HEMLOCK.

The general flower is roundish with many equal rays, and the partial one is roundish with many equal setaceous rays. There is no general involucrum, the partial one hath many fetofe and fhort leaves. The proper cup is scarce observable. The general flower is uniform and all the slofcules fertile; the proper one hath five oval, inflex, nearly equal petals. The five filaments are capillary, longer than the corolla, with simple antheræ. The germen is beneath the flower, having two slender styles longer than the corolla, that endure till the fruit be ripe, with headed stigmata. The fruit is oval, fulcated, and divisible into two parts, having each one feed convex and striated on one side, and plain on the other.

Virofa. Long leaved Water Hemlock with umbels opposite to the leaves, and obtuse marginated footstalks.

Per. July.

PHELLANDRIUM. WATER HEMLOCK.

The general and partial umbel are both multiplex. There is no general involucrum, but the partial one hath feven acute leaves the length of the umbellula. The proper cup is quinquedentated, placed upon the germen. and remains till the fruit be ripe. The general flower is almost uniform, the proper one is unequal, having five acuminated, cordato-inflex petals. The five filaments are capillary and the length of the corolla, with roundish antheræ, The germen is beneath the receptacle having two subulated erect styles, that endure till the fruit be ripe, and the stigmata are obtuse. The fruit is oval, fmooth, coronated with a cup and piftils, and divifible into two parts, each containing an oval, smooth feed.

Aquaticum. Water Hemlock with the ramifications of the leaves divaricated. Bien. In rivers and ditches.

ÆTHUSA, FOOL'S PARSLEY.

The general umbel is patent and the interior rays are gradually shorter, the inmost ones being shortest, the partial partial umbel is small and patent. There is no general involucrum, the partial one is half the length of the umbel with three to five, very long, linear, pendulous leaves. The cup is scarce observable. The general flower is nearly uniform with all the floscules fertile. The partial one hath five inflexo-cordate unequal petals. There are five simple stamina with roundish antheræ. The germen is beneath the flower having two reflex styles and obtuse stigmata. The fruit is ovato roundish, striated, and divisible into two parts, each containing a single roundish striated seed with a third part plain.

Cynapium. Fools Parsley of which we have but one

fpecies. An. Aug. Sep.

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CORIANDRUM. CORIANDER.

The general umbel confifts of few rays, the partial one hath more. The general involucrum is scarce monophyllous; the partial one is triphyllous linear and half the length. The proper empalement is quinquedentated. The general flower is difform and radiated and the floscules of the disk are barren. The proper flower of the disk is hermaphrodite, having five inflexo-cordate equal petals. The proper hermaph, of the ray hath five inflexo-cordate, unequal petals of which the outmost is largest and bipartite and some of the others have very large segments.

There are five simple filaments with roundish antheræ. The germen is beneath the flower having two styles standing off one another, and the stigmata of the ray headed. The fruit is spherical and divisible into two parts, each containing an hemispherical concave seed.

Obf. LINN. C. testiculatum perhaps may be a plant of a different genus seeing the general involucrum is monophyllous without any partial one. The general corolla is uniform and the fruit didymous.

Sativum. Coriander with globose fruit. An. June.

SCANDIX. SHEPHERD'S NEEDLE OF VENUS-COMB.

The general umbel is long and hath few rays, the partial one hath more. There is no general involucrum but the partial one is pentaphyllous and the length of the umbellula. The general flower is difform and radiated with the floscules of the disk barren. I he proper flower hath five cordato-inflex petals, the innermost less and the outmost larger. There are five capillary filaments with roundish antheræ The germen is oblong and beneath the flower, having two subulated styles, the length of the least petal, which remain till the fruit be ripe, with obtuse stigmata. The fruit is very long, subulated and divisible into two parts each containing one seed, convex and furrowed on one side, and plain on the other.

Obf. The floscules of the disk are barren in some. The seeds of Venus's Comb are thread-like, covering a nut in the base.

Cercfolio Riv. the feeds are ovato-fubulated and ftriated. The involucrum is green and remains till the fruit be ripe, and all the floscules are hermaphrodite.

Odorata the feeds are angulated and the involucrum is

caducous.

Petten Veneris. Venus Comb with smooth seeds and the

longest beak of any. An. June, July.

Anthriseus. Small Hemlock Chervil with oval rough seeds, uniform flowers and a smooth stem. An. May, June.

CHÆROPHYLLUM. WILD CICELY OF COW-WEED.

The general umbel is patent and the partial one is nearly equal with it in the number of rays. The partial involucrum hath commonly five, lanceolated, concave, reflex leaves almost the length of the umbellulæ. The general flower is nearly uniform and the flowers of the disk are barren. The proper flower hath five inflexo-cordate petals, the exterior ones being somewhat larger. There

There are five simple filaments the length of the umbellula with roundish antheræ. The germen is beneath the flower, having two reflex styles and obtuse stigmata. The fruit is ovato-oblong, acuminated, smooth and divisible into two parts, each containing an oblong attenuated seed, convex on one side, and plain on the other.

Sylvestre. Wild Cicely with all the flowers fertile and

an equal stalk. An. May, June.

Temulum. Wild Chervil with a scabrous stalk, tumid joints and cernuous umbels. An. July, Aug.

SESELI. MEADOW SAXIFRAGE.

The general umbel is rigid, the partial one is very short, multiplex and partly globose. There is no general involucrum; the partial one is linear, acuminated and the length of the umbellula. The empalement is scarce observable. The general flower is uniform and all the floscules fertile. The proper one consists of five inflexo-cordate, plainish petals. The five stamina are subulated and crowned with simple antheræ. The germen is beneath the flower, having two styles and obtuse stigmata. The fruit is ovate, small, striated, and divisible into two parts, each containing an ovate seed, convex and striated on one side and plain on the other.

Caruifolia. Meadow Saxifrage with double pinnate leaves almost linear, a membranaceous base to the foot stalks, and oval seeds. In moist meadows and pastures.

Per. Aug.

PASTINACA. WILD PARSNEP.

The general umbel is multiplex and plain, and the partial one is multiplex. There is neither general nor partial involucrum. The empalement is scarce observable. The general flower is uniform, the proper one hath five lanceolated, incurved petals. There are five capillary filaments with roundish antheræ. The germen is beneath the proper flower having two reflexed styles and obtuse

obtuse stigmata. The fruit is compresso-plain, elliptical and divisible into two parts each containing an elliptical, bordered feed. walked walked was part

Sativa. Wild or Garden Parsnep with single pinnate leaves. Bien. July. Thanks how and the state of the state

n on the other. SMYRNIUM. ALEXANDERS.

The general umbel is unequal and the partial one is e ect. There is neither general nor partial involucrum. The general cup is fearce observable. The general flower is uniform and all the floscules of the disk are barren. The proper flower hath five lanceolated, flightly inflexed, keel-shaped petals. There are five simple filaments, the length of the corolla, with simple antheræ. The germen is beneath the flower having two fimple styles and two simple stigmata. The fruit is partly globose, striated, and divisible into two parts, each containing one lunulated feed, convex on one fide, and marked with three streaks, and plain on the other.

Olusatrum. Alexanders with trifoliate leaves on the stalks, serrated and placed on foot stalks. May, June.

ANETHUM. FINCKLE. DILL.

Both the general and partial umbel are multiplex, and there is neither general nor partial involucrum. The general flower is uniform and all the floscules fertile. The proper flower hath five involuted, entire, and very short petals. There are five capillary filaments with roundish antheræ. The germen is beneath the flower, having two approximating styles and obtule stigmata. The fruit is subovate, compressed, striated and divisible into two parts, containing each one subovate, bordered feed, convex and striated on one fide and plain on the o-

Obf. LINN. Finckle or Fennel differs only from Dill, in that the feeds are not bordered at the edge like those of Dill.

Faniculum. Fennel with ovate leaves. Aug.

CARUM.

CARUM. CARAWAYS.

s than the partial The general umbel is long and hath ten rays, most commonly unequal, and the partial one is thick fet. The general involucrum is often monophyllous. The general flower is uniform and all the floicules of the disk barren. The proper one is unequal, having five unequal, obtuse, inflex at the apex, and cordate leaves. The five stamina are capillary, the length of the corolla and caducous, with roundish small antheræ. The germen is beneath the flower having two small styles, and simple stigmata. The fruit is ovato-oblong, striated and divisible into two parts, each containing a single feed, convex, ovato-oblong on one fide, and plain on the other.

Obf. Some of the floscules in the disk are neutral. Carvi. Caraways of which we have but one species. Per. May, June.

PIMPINELLA. BURNET SAXIFRAGE.

The general umbel hath many rays, but the partial umbel hath more. There is neither general nor partial involucrum. The proper cup is fcarce observable. The general corolla is nearly uniform with all the flofcules fertile. The proper flower hath five inflexo-cordate, nearly equal petals. There are five fimple stamina longer than the corollula, with roundish antheræ. The germen is beneath the flower, having two very short Ityles and partly globose stigmata. The fruit is ovatooblong and divisible into two parts, each containing an oblong feed, narrower towards the apex, convex and ftriated on one fide, and plain on the other.

Major. Great Burnet Saxifrage with pinnate leaves, the lobes cordate, and an odd lobe at the end. In woods

and hedges. Per. Aug.

Saxifraga. Small Burnet Saxifrage with pinnate leaves and the lobes at the bottom roundish and those at the tops linear. In dry pastures. Per. Aug.

APIUM.

APIUM. SMALLAGE.

The general umbel hath fewer rays than the partial one. The general involucrum is small, consisting of one or more lobes, and the partial one is like it. The general flower is uniform and almost all the floscules are fertile. The proper flower hath roundish, inflexed, equal petals. The five filaments are simple and the antheræ roundish. The germen is beneath the proper flower having two reflexed styles and obtuse stigmata. The fruit is ovato-striated and divisible into two parts, each containing one ovate seed, striated on one side and plain on the other.

Graveolens. Smallage with the leaves upon the stalks

in the form of a wedge. Bien. Aug.

ÆGOPODIUM. HERB-GERARD, GOUT-WEED, or ASHWEED.

The general umbel is multiplex and convex, the partial one is the fame. There is neither general nor partial involucrum. The general flower is uniform and all the floscules fertile. The proper one hath five obovate, concave, inflexed at the apex, and equal petals. There are five simple stamina, twice as long as the corolla, with roundish antheræ. The germen is beneath the flower having two simple, erect styles the length of the corollula with headed stigmata. The fruit is ovato-oblong, striated and divisible into two parts, each containing an ovato-oblong seed, convex and striated on one side, and plain on the other.

Podagraria. Goutweed with the leaves on the top of

the stalk by threes. Per. May.

TRIGYNIA comprehends such as have three pistils.

ALSINE. COMMON CHICKWEED.

The cup is pentaphyllous and the leaves are concave, oblong and acuminated. The flower consists of five equal petals, longer than the cup. The five filaments

are capillary with roundish antheræ. The germen is subovate having three thread-like styles and obtuse stigmata. The capsule is ovate, unilocular and covered, containing many roundish seeds.

Media. Common Chickweed with bipartite petals, and

ovato-cordate leaves. An. April-Sep.

TETRAGYNIA comprehends such as have four pistils. PARNASSIA. GRASS of PARNASSUS

The cup is quinquepartite, the fegments are oblong, acute, patent, and remain till the fruit be ripe. There are five roundish, emarginated, striated, concave, patent petals, each having a cordate, concave nectarium, and the nectaria have thirteen styles along the margin, gradually higher one than the other, on each of which there is a globe. There are five subulated silaments the length of the corolla, with depressed, incumbent antheræ. The germen is ovate and large, having a foramen in the place of a style, and four obtuse stigmata that remain till the fruit be ripe. The fruit is a tetragono-ovate, unilocular capsule with four valves. The receptacle is quadruplex, adjoining to the valves, containing many oblong seeds.

Palustris. Grass of Parnassus of which we have but one species in the known world. In several of the meadows belonging to G. Townley, Esq. of Leighton-Hall, Lan.

Aug.

PENTAGYNIA comprehends such plants as have five pistils.

STATICE, THRIFT OF SEA-PINK.

The common empalement is of a different structure, in different plants. The proper cup is monophyllous and infundibuliform, the tube is narrow, the limb entire, plicated and of a fine thin appearance like filk*. The flower

^{*} LINNÆUS' word is seriosa, the meaning of which I confess L am ignorant.

62 PENTANDRIA PENTAGYNIA.

flower is infundibuliform and has five petals narrow at the base, broad at the points and spread open. The five silaments are subulated, shorter than the corolla and placed upon the ungues thereof, having antheræ fixed on by the sides. The germen is very small, having sive thread-like styles that stand off one another and acute stigmata. The proper cup being straitened in the neck, and expanded in the limb, contains one small, roundish seed, crowned with its proper cup.

Obf. Statice of Authors hath a common threefold cup

and a roundish flower.

Limonium hath a common imbricated cup, and flof-

cules in an oblong order.

Armeria. Thrift or Sea Gilly-Flower with a simple headed stem, and linear leaves. On the sea shore commonly called the marshes. Per. July, Aug.

Limonium. Sea Lavender with a round paniculated frem and shining leaves. As the former. Per. July, Aug.

Reticulata. Matted Sea Lavender with a prostrate, paniculated stem, and barren naked branches bended back, and leaves in the shape of a wedge. As the former.

LINUM. FLAX.

The cup hath five lanceolated, erect, small leaves that remain till the fruit be ripe. The flower is infundibuliform and confists of five oblong petals, visibly becoming larger towards the points which are obtuse, patent and large. The five filaments are subulated, erect, and the length of the cup with simple sagitated antheræ. There are likewise the rudiments of five other stamina. The germen is ovate with five thread-like erect styles the length of the stamina with simple, reslexed stigmata. The fruit is a globose capsule with ten cells and five valves, and in each cell is lodged a single, ovate, pointed, smooth seed.

Obs. RADIOLÆ one fifth part is wanting.

PENTANDRIA PENTAGYNIA. 63

L. Lusitanico there are ten stamina, hence its affinity to Oxalidis. I was sound sould should saves smole bine

F L A X with alternate leaves.

Ustatissimum. Flax with both cups and capsules shaped like a spear, the petals crenated, the leaves placed alternately and lanceolated and nearly a folitary stem. An. June. Wantionla anomigol money launo legitor

Perenne. Perennial blue Flax with obtuse empalements and capfules, the leaves placed alternately, lanceolated and entire. In barren pastures. On Gogmagog hills, Camb. Between Shap and Threapland in West. Mr LAWSON. June.

- Tenuifolium. Narrow-leaved wild Flax with pointed cups, the leaves lineari-fetaceous, placed without order. In many pastures by the sea side. Per. June, July.

F L A X with opposite leaves.

Catharticum. Purging Flax with ovato-lanceolated leaves placed opposite to each other, a dichotomous stem, and acute flowers. An. May, June.

Radiola. The least Rupture-wort, or All-seed with leaves growing by pairs, a dichotomous stem, and slowers with

four stamina and four pistils. An. Aug.

DROSERA. SUN-DEW.

The cup is monophyllous, quinquifid, acute, erect and remains till the fruit be ripe. The flower is infundibuliform and hath five ovate, obtufe petals fomewhat larger than the cup. The five filaments are fubulated and the length of the cup, having small antheræ. The germen is roundish and hath five simple styles the length of the stamina with simple stigmata. The fruit is a subovate capfule, unilocular with five valves, containing many finall, fubovate feeds.

Rotundifolia. Round-leaved Sun-dew with radicated

stems and orbiculated leaves. Per. July, Ang.

Longifolia.

64 PENTANDRIA POLYGYNIA

Longifolia. Long-leaved Sun-dew with radicated stems and oblong leaves. Both these species are found plentifully on the Whitemoss, Yealand, Lanc. Upon Hinton-moor, Camb. R. Sy. July, Aug.

SIBBALDIA. BASTARD CINQUEFOIL.

The cup is monophyllous, half way cut into ten lanceolated, equal, patent fegments, alternately narrower, which remain till the fruit be ripe. The flower confifts of five ovate petals placed upon the cup. The five filaments are capillary, shorter than the corolla, and placed upon the cup with small, obtuse antheræ. There are five ovate and very short germina out of the middle of which arise the styles to the height of the stamina, having headed stigmata. The cup is connivent and contains five oblongish seeds.

Procumbens. Procumbent Cinquefoil with tridentated

leaves. July, Aug.

POLYGYNIA comprehends such plants as have six or more pistils.

MYOSURUS. MOUSETAIL.

The cup consists of five lanceolated, obtuse, restexed leaves, joined together above the base, coloured and deciduous. There are five very small petals shorter than the cup, tubulated at the base. There are five filaments, or more, the length of the cup, with oblong erect antheræ. The germina are numerous placed upon the receptacle in a conico-oblong form without any styles, but simple stigmata. The receptacle is very long in the form of a style, covered with seeds placed one over another, like tyles upon a house, that are numerous, oblong and acuminated.

Obs. Linn. The number of stamina varies greatly in this genus. There is a great affinity between this plant and the Ranunculus

Minimus. Mousetail with entire leaves. An. April, May. CLASS VI.

C L A S S VI.

I. ROCODIUM. MOUNTAIN SAFFRONS

HEXANDRIA.

The plants of this class have six stamina and from one to

MONOGYNIA comprehends such plants as have but one pistil.

NARCISSUS. DAFFODIL.

on the fide and withers. The flower hath fix ovate, acuminated, plain petals placed on the outfide of the nectarium, which is monophyllous, cylindraceo-infundibuliform, and coloured. The fix filaments are fubulated and fixed upon the tube of the nectarium, but shorter than the nectarium, with antheræ somewhat oblong. The germen is roundish, obtusely three cornered, situated below the flower, having a thread-like style, longer than the stamina, with a trifid stigma, concave and obtuse. The fruit is a roundish, obtusely trigonal, trilocular capsule, with three valves containing globular, appendiculated seeds.

Poeticus. Daffodil with one flower in each sheath, the limb of the nectarium being round and very short. In meadows and pastures but not very common. Per.

April.

Pseudo-Narcissus. Wild English Daffodil with one flower in the sheath, the limb of the nectarium bell-shaped, erect and equal with the petals. In woods and hedges. Per. March, April.

66 HEXANDRIA MONOGYNIA.

BULBOCODIUM. MOUNTAIN SAFFRON.

The flower is hexapetalous, infundibuliform, and without any empalement. The ungues are very long and linear. The faux connects the petals which are lanceolated and concave. The fix fubulated filaments are inferted upon the neck of the petals with the antheræ fixed on by the fides. The germen is ovato-fubulate, obtufely three cornered, the ftyle is like thread and the length of the stamina, having three oblong, erect, canaliculated stigmata. The fruit is a triangular, acuminated pointed capsule, having three cells filled with seeds.

Serotinum. Mountain Saffron with subulato-linear leaves. Found on the Welsh mountains. R. Sy. Per.

Aug.

A L L I U M. GARLICK.

The common sheath is roundish and withers away. There are six oblong petals, and six subulated stamina, often of the length of the corolla, with oblong, erect antheræ. The germen is above the receptacle, three cornered, and the angles marked with a line, having a simple style and an acute stigma. The fruit is a broad, short capsule, with three lobes, three cells, and three valves, containing many roundish-seeds.

Ampeloprasum. Great Round-headed Garlick with a plain leaf bearing an umbel which is globose, with tricuspidated stamina and scabrous petals. Per. June,

July.

Arenarium. Broad-leaved Mountain Garlick with a leafy bulbiferous stem, round sheaths, a spatha without a beard, and tricuspidated stamina. In the mountains of Westmoreland, Mr Lawson. In Troutbeck-holm by Great-Strickland. R. Sy. Per. July.

Vineale. Crow Garlick with a round leafy bulbiferous frem and tricuspidated stamina. In meadows and pas-

tures. Per. June.

Oleraceum. Wild Garlick with an herbaceous, striated flower, a round leafy bulbiferous stem, roundish, scabrous leaves, sulcated underneath. In the fields about Bristel, and in West. Per. July.

Ursinum. Ramson with a naked semicylindrical stem, lanceolated leaves on foot-stalks, and a fastigiated umbel.

Common in woods and hedges. Per. May.

FRITILLARIA. COMMON CHEQUERED DAFFODIL OF FRITILLARY.

The flower confifts of fix oblongo-lanceolated, acuminated petals without any cup, broader towards the base and reflex from the middle. The nectaria are two obtuse, callous tubercles adjoining to the base of the petals. The fix stamina are very short and subulated, having oblong antheræ. The germen is turbinated, having a simple straight style shorter than the corolla, the stigma is triplex, patent and obtuse. The fruit is a subglobose captule, narrower at the base with three cells and three valves, containing many ovate, acuminated seeds.

Meleagris. Common chequered Daffodil or Fritillary with the leaves placed alternately. In meadows and pastures. In Mawde-fields near Rislip Common, Middle-fex. Blacks Spec. In the fields between Mortlake and

Kew. Per. April, May.

ORNITHOGALUM. STAR of BETHLEHEM.

The flower hath fix lanceolated petals, without any cup, which are erect to the middle and then plano-patent, remain till the fruit be ripe and lose their colour. The fix filaments are erect, dilated at the base, shorter than the corolla and have simple antheræ. The germen is angular, the style subulated and remains till the fruit be ripe, and the stigma is obtuse. The fruit is a round-ish, angular, trilocular capsule with three valves containing roundish seeds.

K 2 Obf.

Obs. The filaments in some are plain, erect, alternately trifid, the middle segment sustaining the antheræ; in others alternately simple.

Luteum, Yellow Star of Bethlehem with an angular stalk having two leaves and single umbellated foot-stalks.

Near Greta-Bridge, Yorkshire. April.

Pyrenaicum. Spiked Star of Bethlehem with a greenish slower, with a very long spike of slowers, lanceolated silaments, foot-stalks of the slowers, equal and spreading, and those of the fruit approaching to the stalk. In the way between Bath and Bradford not far from Little Ashley. Per. May.

Umbellatum. Common Star of Bethlehem, Star Flower with flowers growing in a corymbus, whose foot-stalks are taller than the stalk, and indented filaments. I found

this near Leighton Hall, Lan. Per. May.

SCILLA. SQUILLS.

The flower hath fix ovate, very patent, deciduous petals without any cup. There are fix subulated filaments shorter by half than the corolla with oblong, prostrate antheræ. The germen is roundish, the style simple, the length of the stamina and deciduous, having a simple stigma. The fruit is a subovate, smooth, three surrowed, trilocular capsule, with three valves containing many roundish seeds.

Bifolia. Vernal Star Hyacinth with a folid root and

erect flowers growing thinly. Per. April, May.

Autumnalis. The Autumnal Star Hyacinth with a folid root, the leaves linear and thread-like, the flowers in a corymbus and naked foot-stalks, rising over each other to the length of the flowers. Found on St. Vincent's rock, Bristol, about the Lizard Point. Dr. PLUKENET.

ASPHODELUS. ASPHODEL OF KING'S SPEAR.

The flower is monopetalous and fexpartite, each fegment being lanceolated, plain and patent. The nectarium hath fix small valves forming a globe inserted into

the base of the corolla. The fix filaments are subulated, inserted into the valves of the nectarium, shaped like a bow and alternately shorter. The antheræ are oblong, attached by the fides and erect. Between the nectarium is a roundish germen having a subulated style and a truncated stigma. The fruit is a globose, sleshy, trilobed, trilocular capfule, containing many triangular feeds gibbous on one fide.

Obl. Linn. The filaments in some are declinated, in

others bent in the form of a bow.

Offifragum. Lancashire Asphodel with leaves shaped like a fword and woolly filaments. On the White-moss, plentifully, near Yealand, Lan. Per. Aug.

ANTHERICUM. SPIDERWORT OF SCOTTISH ASPHODEL.

The flower confifts of fix oblong, obtufe and very patent petals without any cup. The fix filaments are fubulated and erect, having small prostrate, quadrifulcated antheræ. The germen is obioletely three cornered, the style is simple and the length of the stamina, with an obtuse three cornered stigma. The fruit is an ovate, fmooth, trifulcated, trilocular capfule, with three valves containing numerous angulated feeds.

Calyculatum. Scottish Asphodel with leaves like swords, cups with three lobes and smooth filaments. Per. Sep.

ASPARAGUS.

The flower hath fix oblong petals co-hering at their tips, formed into a tube, the three inner ones alternately placed, reflexed at their extremities and remain till the fruit be ripe. The fix filaments are thread-like, inferted on the petals, erect and shorter than the corolla, having roundish antheræ. The germen is turbinated, three cornered, with a very short style, and the stigma a prominent point. The fruit is a globose berry, umbilicated and trilocular, containing two roundish feeds internally angulated and fmooth,

Obs. Linn. The figure of the flower varies, it is sometimes revolute; and may with propriety enough be

called a monopetalous flower.

Officinalis. Sparagus with an upright herbaceous stem, bristly leaves, and equal stipulæ. About Harwich in Essex, the Lizard Point, and by the Thames side near Gravesend. R. Sy. Per. July, Aug.

CONVALLARIA. LILY OF THE VALLEY.

The flower is monopetalous, campanulated, smooth and without any cup, the limb is divided into six obtuse patenti-reflex segments. The six silaments are subulated, inserted on the petal, and shorter than the corolla, having oblong, erect antheræ. The germen is globose, the style is like thread, longer than the stamina and the stigma is obtuse and three cornered. The fruit is a globose, trilocular berry, spotted before it be ripe, containing solitary roundish seeds.

Maialis. Lily of the Valley or May Lily with a naked stem. Among the Rocks near Leighton Furnace, in the Flatwood, and in Mr TownLey's woods plentifully, Lan.

Per. May.

Multiflora. Solomon's Seal with leaves placed alternately that embrace the stalks, and foot-stalks proceeding from the sides sustaining many flowers. In the throngwood belonging to George Townley, Esq. In the Hining wood within the township of Warton, Lan. Per. May, June.

Polygonatum. Sweet smelling Solomon's Seal with leaves placed alternately that embrace a two edged stalk; and foot-stalks from the sides, that bear one slower. In the clefts of the rocks near Settle, Skipton, &c. Yorkshire.

Hudson. Per. May, June.

HYACINTHUS. HYACINTH OF HAREBELLS.

The flower is monopetalous, campanulated, and without any cup. The limb is cut into fix reflex fegments. The nectarium confifts of three melliferous pores, at the fummit fummit of the germen. The fix filaments are short, and subulated with connivent antheræ. The germen is roundly three cornered and three surrowed, having a simple style shorter than the corolla, with an obtuse stigma. The fruit is a three cornered capsule formed of three valves, containing three cells, in which are usually two seeds in each cell.

Non Scriptus. Hyacinth or Harebells with campanulated, fexpartite corollæ turned back at the tips. Per May.

ACORUS. SWEET SMELLING FLAG.

The cup is a cylindrical, very simple spadix covered with sloscules without any spatha or sheath. The slower hath six obtuse, concave, lax petals, broadest at the top and as it were truncated. The six silaments are thickish, a little longer than the corolla, with thickish, didynous antheræ, growing together at the ends. The germen is gibbous, oblongish, and the length of the stamina without any style and but a prominent point for a stigma. The fruit is a triangular capsule attenuated at each end, obtuse and trilocular, containing many ovato-oblong seeds.

Calamus. Acorus or Sweet Smelling Flag called calamus aromaticus. Found in the river Yare near Norwich, about Hedley in Surry, and in Cheshire. Per. May.

JUNCUS. Rush.

The gluma consists of two valves, the cup has six oblong acuminated permanent petals. There is no slower. The six filaments are capillary and very short, with oblong erect antheræ, the length of the cup. The germen is three cornered and acuminated, the style is very short and thread-like. There are three long thread-like villose and instex stigmata. The fruit is a covered, three cornered, unilocular capsule, with three valves, having roundish seeds.

RUSHES with naked stalks.

Acutus. Sea hard Rush with a naked cylindrical stem in the shape of a fword, ending in a panicle, the involucrum being two spinose leaves. Per. July, Aug.

Conglomeratus. Round headed Rush with a very strait naked stem and the head on the side. Per. June-Aug.

Effusus. Common Soft Rush with a very strait naked

stem and lateral panicle. Per. May-Aug.

Inflexus. The hard Rush with a naked stem a membranaceous crooked apex and a lateral panicle.

fune.

Filiformis. The least foft Rush with a naked threadlike, nodding stem, and a lateral panicle. Found by Mr Newton not far from Ambleside in West. Hudson. Per. Aug.

Squarrofus. Moss Rush or Goose Corn with a naked ftem, fetaceous leaves, conglomerated, aphyllous heads.

Per. June. ansatatory a and box alvat you mon

Such as have leafy stalks.

The finite is a changular captule attenuated at

Articulatus. Fointed leaved Rush with leaves and joints. In woods, meadows, and moist pastures. Per. July, Aug.

Bulbose Rush with linear canaliculated leaves Bulbo lus.

and obtuse capsules. Per. Aug.

Bufonius. Toad Rush with a dichotomus stem, angu-

lated leaves, folitary feffile flowers. An. July, Aug.

Pilosus. Common hairy Wood-rush or Grass with plain hairy leaves and a branchy corymbus. Per. April, May. Sylvaticus. Great hairy Woodrush with plain hairy Jeaves a decomposite umbel and sessile flowers. May.

Campestris. Small hairy Wood-rush with plain hairy

leaves, fessile spikes and peduncles. Per. April.

FRANKENIA. SEA HEATH.

The cup is monophyllous, cylindrical, decagonal and permanent, with a quinquedentated, acute and patulent mouth. The flower hath five petals, and ungues the length of the cup, the limb is plain and the points roundish and patent. The nectarium is a canaliculated pointed unguis, inferted upon every unguis of the petals. The fix filaments are the length of the cup, with roundish, didymous antheræ. The germen is oblong, the style is simple and the length of the stamina, having three oblong, erect, obtuse stigmata. The fruit is an oval, unilocular capfule, with three valves containing many ovate finall feeds. In anomybio final day more

Lievis. Smooth Sea Heath with linear leaves, ciliated

at the base. Found on the sea-shore. Per. Aug.

Pulverulenta. Broad leaved Sea-heath with obovate retuse leaves powdered underneath. Found on the coast of Suffex. R. Sy. An. July.

PEPLIS. WATER PURSLANE.

ont is valved bearing one grain, and the leaves cordato-

The cup is monophyllous, campanulated, very large and permanent, with the mouth cut into twelve legments that are alternately reflex. The flower hath fix ovate, very minute petals, inferted in the faux of the cup. The fix filaments are subulated and short, with roundish antheræ. The germen is ovate, style very short, and stigma orbiculated. The fruit is a cordate bilocular. capfule, containing many finall three cornered feeds.

Obf. In many floscules of the same plant the corol-

la is wanting.

Howers

We have but one species of this plant, which is in perfection about Aug. or Sep.

\$4 HEXANDRIA DIGYNIA & TRIGYNIA.

DIGYNIA comprehends such as have two pistils, of which we have none in England.

TRIGYNIA comprehends such as have three pistils.

RUMEX a genus comprehending both the docks and forrels of other Authors.

The cup is triphyllous, and the leaves are obtuse, reflex and permanent. The flower has three ovate petals, larger than the cup and like it, which are connivent and permanent. The six silaments are capillary and very short with erect didymous antheræ. The germen is turbinato-triquetrous having three capillary reslex styles, placed among the chinks of the connivent petals with large laciniated stigmata. There is no seed vessel, the connivent corolla including one triquetrous feed.

Sanguineus. Bloodwort with hermaphrodite flowers, entire valves, bearing one grain, and the leaves cordato-

lanceolated. Bien. July.

Acutus. Sharp-pointed Dock with hermaphrodite flowers, dented valves, bearing grains, and the leaves cordato-oblong. Per. June.

Crispus. Curled Dock with hermaphrodite flowers, entire valves bearing grains, lanceolated, undulated and

acute leaves. Per. June, July.

Obtustifolium. Broad leaved Dock with hermaphrodite flowers, dented valves, cordato-oblong, obtuse crenulated leaves. Per. July, Aug.

Pulcher. Fiddle-dock with hermaphrodite flowers, dented valves bearing grains, and the radical leaves

shaped like a fiddle. Per. June.

Maritimus. Golden Dock with hermaphrodite flowers, dented graniferous valves, and linear leaves. Per. July, Aug.

Britannica. Great Water Dork with hermaphrodite flowers,

HEXANDRIA POLYGYNIA. 75

flowers, entire graniferous valves, and lanceolated leaves. Per. July, Aug.

HERMAPHRODITE SORRELS whose valves are without a granulus.

Digynus. Round leaved Mountain Sorrel with hermaphrodite flowers that have two pistils. Per. June.

Acetofa. Common Sorrel with dioicous flowers and ob-

long fagitated leaves. May-July.

Acetosella. Sheep's Sorrel with dioicous flowers and lanceolato-hastated leaves. Per. April—June.

COLCHICUM. MEADOW SAFFRON.

There is no cup, unless a few vague spathæ are to be had as such. The corolla is sexpartite, the tube is angular and radicated; the segments of the limb are of a spear shaped, ovate, concave, erect sigure. The six silaments are subulated and shorter than the corolla, having oblong incumbent antheræ with four valves. The germen is buried within the root, having three thread-like styles the length of the stamina, and reslex, canaliculated stigmata. The fruit is a capsule with three lobes, connected inwardly by a suture, obtuse and trilocular. The sutures open inwardly, and contain many globose, rugose seeds.

Autumnale. Meadow Saffron with plain, lanceolated,

erect leaves. Per. Sep.

CHE

POLYGYNIA comprehends such as have more than four pistils.

A L I S M A. WATER PLANTAIN.

The cup consists of three ovate, concave, permanent leaves. The flower hath three roundish, large, plain, very patent petals. The fix filaments are subulated, shorter than the corolla, having roundish antheræ. The germina are more than five with simple styles and obtuse stigmata. The capsules are compressed and the seeds solitary and small.

Obf.

76 HEPTANDRIA MONOGYNIA.

Obs. Damasonium of T. hath six large acuminated capsules.

Alisma. Dill hath many obtuse small capsules.

Plantago. Great Water Plantain with ovate, acute

leaves, and obtuie, trigonal fruit. Per. June, July.

Ranunculoides. Leffer Water Plantain with linear, lanceolated leaves, and scurfy, globose fruit. Per. June, July.

Natans. Creeping Water Plantain with ovate, obtuse

leaves, and folitary peduncles. Per. Aug.

Damasonium. Star headed Water Plantain with cordato-oblong leaves, and flowers having fix pistils. About London and many other places. In ditches and standing waters. Per. june—rug.

C L A S S VII.

HEPTANDRIA.

The plants of this class have seven stamina and one pistil, hence the name of HEPTANDRIA MONOGINIA.

TRIENTALIS. CHICKWEED, WINTER-GREEN.

tent, permanent leaves. The flower is stellate, plain, monopetalous and divided into seven parts, slightly joining at the base; the segments are ovato-lanceolated. The seven filaments are capillary, inserted in the ungues of the corolla, patulent and the length of the cup with simple antheræ. The germen is globose, the style is like thread, the length of the stamina with a headed stigma. The fruit is a dry, globose, unilocular, capsular berry, the crust is slender and opens in several sutures containing a few angular seeds. The receptacle is large and hollowed out for the seeds.

Obf.

Obf. The common number of feeds is feven, tho' it varies fometimes. The fruit is a dry berry, not opening

by valves, as a capfule.

Europæa. Chickweed, or Winter Green with lanceolated entire leaves. Found in woods. Yorksh. Northum. and West. Near Bingley in Yorksh. Hudson. Per. June.

C L A S S VIII.

OCTANDRIA

The plants of this class have eight stamina, and from one to four piftils, it is therefore divided into MONOGYNIA DIGYNIA &c.

MONOGYNIA comprehends such as have only one stamen.

EPILOBIUM. WILLOWHERB.

THE cup hath four oblong, acuminated, coloured, deciduous leaves, and the flower hath four roundish petals somewhat emarginated. The eight filaments are subulated, and alternately shorter, with oval, compressed, obtuse antheræ. The germen is cylindrical, very long and beneath the flower; the style is threadlike, the stigma is quadrifid, thick, obtuse and turned back. The fruit is a very long, cylindrical, striated, quadrilocular capfule, with four valves containing many oblong feeds, crowned with down. The receptacle is very long, tetragonal, free, flexile, coloured.

Obf. In some the stamina and pistils are erect, in o-

thers declined to the lower fide.

Angustifolium. Rosebay Willow-herb with lineari-lanceolated leaves, thin fet on the branches. In woods and hedges. On Maize-hill beyond Greenwich. In many places in the North. Per. July, Aug.

Hirsutum

78 OCTANDRIA MONOGYNIA.

Hirsutum. Small flowered hairy Willow-herb with lanceolated, undulato-ferrated, decurrent leaves, the lower leaves opposite, the stalk simple, and ending in a bunch.

Per. July.

Ramosum. Great flowered Willow-herb, or Codlings and Cream, with lanceolated, ferrated, partly decurrent leaves, the lower ones opposite, and a branchy stalk. By the fides of small rivers frequently. Per. July.

Montanum. Smooth leaved Willow-herb with opposite,

ovate, dentated leaves. Bien. June.

Tetragonum. Narrow-leaved Willow-herb with lanceolato-linear leaves, denticles opposite, and a tetragonal stem. In ditches and rivulets. Per. July.

Palustre. Marsh Willow herb with opposite, lanceolated, entire leaves, the petals emarginated, and the stalk

erect. Per. July.

marriants

Alpinum. Mountain Willow-herb with opposite, ovatolanceolated, entire leaves, sessile siliquæ, and a creeping stem. In the rivulets on the sides of Cheviot-hills in Northum. R. Sy. Per. July.

VACCINIUM. WHORTLE BERRIES.

The cup is very finall, above the receptacle, and remains till the fruit be ripe. The flower is monopetalous, campanulated and quadrifid, and the fegments turned backwards. The eight filaments are fimple, having two horned antheræ that have two patent spikes. The germen is beneath the flower, the style is simple, longer than the stamina with an obtuse stigma. The berry is globofe, umbilicated, and quadrilocular, with a few imall feeds,

Obf. LINN. One fifth in every part of the fructification is often added 1, 2. 6. 7. 8. and 9. Here it is the 1st.

The cup in many is quadrifid, in the myrtle it is entire. The corolla when fresh is almost entire, it is turned back to the base in the Oxycocco or Cran-berries.

Myrtillus.

Myrtillus. Whortle Berries or Bill Berries with peduncles bearing fingle flowers, the leaves ferrated, ovate, and

deciduous and an angular stem. April, May.

Uliginofum. The great Bilberry Bush with peduncles bearing fingle flowers, and the leaves entire, oval and ciliated at the base. In the mountains of Cumb. April. May.

Cantabricum. Irish Whorts with naked branches, entire, revoluted, lanceolato-ovate leaves, and underneath cup, and hairy, parent leaven

downy. Hudson.

Such as have ever-green leaves.

buch as himselfurple, only if marrinared anthe

Vitis Idea. Whortle Berries with nodding terminatory branches, obovate leaves, entire, turned back and pointed underneath. Found in the mountains of Yorkst. Derbysh. and Staff. R. Sy. April, May.

Oxycoccus. Cran Berries with entire, ovate leaves, turned backwards, and repent, thread-like, naked stalks. In turfy places both in West. Cumb. Lan. and Vorkst.

May, June. It say a my my man hobivit a mo all lanceolated and permanent. The Hower is monopeta-

edT ERICA. HEATH OF LING.

The cup hath four ovate, erect, coloured, permanent leaves, and the flower is monopetalous, campanulated, quadrifid, and often ventricofe. The eight filaments are capillary and placed upon the receptacle with bifid antheræ. The germen is roundish, the style is thread-like, strait, longer than the stamina. The stigma is tetragonal and quadrifid. The fruit is a roundish capsule, less than the cup, covered, quadrilocular and has four valves, containing many fmall feeds.

Obf. LINN. There are some species with a double cup. The figure of the corolla is different in different plants. The antheræ in some are double, horned, and

emarginated in many. The same as well on at one

SO OCTANDRIA TRIGYNIA.

Such as have double horned anther e.

Vulgaris. Common Heath or Ling with double horned antheræ, unequal, campanulated flowers, and fagitated leaves fet opposite. June, July, Aug.

Cinerea. Fine leaved Heath with double horned and theræ, ovate, racemofe flowers and smooth, linear leaves

by threes. June-Aug.

Tetralix. Cross leaved Heath with double horned antheræ, and globose, aggregate flowers, longer than the cup, and hairy, patent leaves by fours. July, Aug.

Such as have simple, obtuse, emarginated antheræ.

Ciliaris. Rough leaved Heath with simple antheræ, irregular, ovate flowers, three in a bunch, and hairy

leaves by threes June.

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Multiflora. Fir leaved Heath with simple, bisid antheræ, cylindrical flowers, and linear, patent leaves by fives. June, July,

DIGYNIA comprehends such as have two pistils.

BLACKSTONIA. This genus is taken from Hudson.

The cup is divided into eight parts, the fegments are lanceolated and permanent. The flower is monopetalous, without a tube, and divided into eight fegments that are lanceolated and the length of the cup. The eight filaments are fubulated and have fimple antheræ. The germen is ovato-oblong without any style, but two stigmata. The fruit is an oblong, acuminated, unilocular capsule with two valves and many small seeds.

Perfeliata, Yellow Centory with flowers divided into

eight parts, and perfoliate leaves. An. July.

TRIGYNIA comprehends such as have three pistils.

POLYGONUM. BISTORT OF SNAKEWEED.

The cup is turbinated, internally coloured, quinquepartite, and the fegments are oval, obtuse, and permanent. There is no flower unless the cup be reckoned as such.

The filaments are most commonly eight, subulated and very fhort with roundish, prostrate antheræ. The germen is triquetrous and has most commonly three threadlike, very short styles with simple stigmata. There is no feed veffel but the cup contains one triquetrous acute -feed. bros Anw warth to

Obf. The stamina in some are fix, in others seven, in others five. The piftil in some is bifid.

Such species as have single spikes.

Bistorta. Snakeweed with a simple monostachyous stem, ovate leaves, decurrent into a petiolum. Found in moist meadows. Per. May, June.

Viviparum. Snakeweed with a simple monostachyous

stem and lanceolated leaves. Per. June.

Such as have a bifid pistil and stamina less than eight.

Amphibium. Perennial Arsmart which hath a flower with five stamina and a bifid pistil, and the stamina longer than the corolla. Per. June, July.

Persicaria. Spotted Arsmart which hath flowers that have fix stamina and two pistils, ovato-oblong spikes, lanceolated leaves and ciliated stipulæ. Found frequent

in rough uncultivated places. An. Aug. Sep.

Pensylvanicum. Pale Arsmart which hath flowers that have eight stamina, two pistils, hispid peduncles, lanceolated leaves and stipulæ without beards. An. Aug.

Hydropiper. Water Pepper or Arfmart with flowers that have fix stamina, bisid pistils, lanceolated leaves, and stipulæ without beards. An. July, Aug.

Minus. Small creeping Arsmart with flowers that have fix stamina, two pistils, lanceolated leaves, ciliated stipulæ, and a divaricated, patulent stem. An. July.

Such as have undivided leaves and eight stamina.

Aviculare. Knot-grass whose flowers have eight stamina and three piftils, arifing from the joints, lanceolated leaves and a procumbent, herbaceous stem. An. June-Sep. Mar-

82 O'CTANDRIA TETRAGYNIA.

Maritimum. Sea Knot-grass with axillary flowers that have eight stamina, and three pistils, ovali-lanceolated leaves always green, and a shrubby stalk. Per. July.

Convolvulus. Black Bindweed with cordate leaves, a

twining stem, and plainish flowers. An. June-Sep.

Fagopyrum. Buck Wheat or Brank with cordato fagitated leaves, a branchless, erect stem, and the angles of the seeds equal. An. July. Aug.

TETRAGYNIA comprehends such as have four pistils.

PARIS. TRUE-LOVE OF ONE-BERRY.

The cup is tetraphyllous and remains till the fruit be ripe, the leaves are lanceolated, acute, as large as the corolla and patent. There are four patent, lubulated petals like the cup, and remain till the fruit be ripe. The eight filaments are subulated and short, beneath the antheræ which are long and grow on both sides to the middle of the filaments. The germen is rotundo-tetragonal, having four patent styles, shorter than the stamina and simple stigmata. The fruit is a globose-tetragonal, quadrilocular berry, having many seeds in a double series.

Quadrifolia. Herb Paris, &c. with four leaves of which there is but one species found in the whole world. I have seen this plant in all the woods about the Yealands in Lan. Some plants I have observed with five and some with fix leaves. May—July.

A D O X A. TUBEROUS MOSCHATEL.

The cup is bifid, plain and permanent within the germen. The flower is monopetalous, plain and quadrifid, the fegments ovate, acute and longer than the cup. The eight filaments are fubulated and the length of the cup, with roundish antheræ. The germen is beneath the receptacle of the flower, having four simple, erect styles the length of the stamina that are permanent, with

with fimple stigmata. The fruit is a globose berry between the cup and corolla, the cup being joined with the berry which is umbilical and quadrilocular having solitary, compressed seeds.

Obf. LINN. Such is the terminatory fructification, but all the laterals add one fifth part of the number.

N. B. With great propriety this might be added among the plants of the Decandria Class as every flower but the terminatory one hath ten stamina.

Moschatellina. Tuberous Moschatel. Per. March-

June.

E L A T I N E. WATERWORT.

The cup hath four roundish, plain leaves, as large as the flower, which remain till the fruit be ripe. The flower hath four ovate, obtuse, sessile, patent petals. The eight filaments are the length of the corolla, having simple antheræ. The germen is orbicular, globosodepressed and large, having four styles, erect, parallel and the length of the stamina with simple stigmata. The fruit is an orbicular, globoso-depressed, large, quadrilocular capsule with four valves containing many lunulated, erect seeds surrounding the receptacle in the shape of a wheel.

Alfinastrum. Waterwort with verticillate leaves. Per.

Aug.

CLASS IX.

ENNEANDRIA.

The plants of this class have nine stamina, and from one to fix pistils, but in England we have none with a fewer number of pistils than six, and only one plant of that class, viz.

BUTOMUS. FLOWERING RUSH.

THE involucrum is simple, having three short leaves. The slower hath six roundish, concave, withering leaves, alternately less and more acute. The M 2

84 DECANDRIA MONOGYNIA.

nine filaments are fubulated, of which fix are placed externally, with bilamellated antheræ. There are fix oblong, acuminated germina ending in styles and simple stigmata. There are fix oblong, attenuated, erect capsules having one valve, and open inwardly, containing many oblongo-cylindraceous seeds, obtuse on both sides.

Umbellatus. Flowering Rush or Water Gladiole. In most of the ditches about London, in the County of Surry. June, July.

CLASS X.

DECANDRIA.

The plants of this class have ten stamina, and from one to five pistils or more.

MONOGYNIA comprehends such as have one pistil.

MONOTROPA. BIRD'S NEST.

HERE is no cup (unless you account the five external petals as such.) The flower hath ten oblong, parallelo-erect petals, serrated at the summits and deciduous, of which the exterior ones are alternatedly gibbous at the base, and internally concave and melliferous. There are ten filaments that are subulated, erect and simple, with simple antheræ. The germen is roundish and acuminated, the style is cylindraceous, and the length of the stamina, with an obtuso-headed stigma, The fruit is an ovate, pentagonal, obtuse capsule, with five valves, containing many paleaceous seeds.

Obf. Such is the terminatory flower, but if there are lateral ones they exclude one fifth of the number in e-

very part of the fructification.

Hypopithys. Bird's Nest, smelling like Primrose roots, with lateral flowers having eight stamina and the terminatory one ten. In woods but not common. Per. July.

ANDRO-

ANDROMEDA. WILD ROSE-MARY.

The cup is quinquepartite, acute, small, coloured and permanent. The flower is monopetalous, campanulated, quinquisid, with reflex segments. The ten filaments are subulated and shorter than the corolla and scarce fixed thereto. The antheræ have two nodding horns. The germen is roundish, the style cylindraceous, longer than the stamina and remains till the fruit be ripe having an obtuse stigma. The fruit is a roundish, pentagonal, quinquelocular capsule, having five valves opening at the corners with many roundish smooth seeds.

Obs. This plant differs from Heath in the number of stamina. The flower in some is ovate, in others

perfectly campanulated.

Polifolia. Marsh Cistus or Wild Rose-mary with aggregate peduncles, ovate flowers, the leaves alternately lanceolated and turned back. On mossy grounds. I found it on the White-moss, Yealand, Lan. Per. April, May.

PYROLA. WINTER-GREEN.

The cup is quinquepartite, very small and remains till the fruit be ripe. The flower hath five roundish, concave, patent petals. The ten filaments are subulated and shorter than the corolla, having nodding, large, two horned antheræ. The germen is roundish, angular and has a thread-like style, longer than the stamina and permanent, with a thickish stigma. The capsule is roundish, depressed, pentagonal, quinquelocular, and opens at the angles, containing many paleaceous seeds.

The shape of the stigma is different in different

species.

Rotundifolia. Common Winter-green with the stamina under the upper side, and declining pistils. In woods

and thickets. Near Halifax in the way leading to Keighley, Yorksh. and other places of the North. Hudson.

Seidom found in the South. Per. June, July.

Minor. Lesser Winter-green with flowers dispersed in branches, upright stamina and pistils. In a little wood between Clapham and Ingleton, Yorksh. In Tacket wood, near Simonburn five miles from Hexham, Northumberland. Per. July.

Denied leaved Winter-green with the branches Secunda. on one fide. In Hastewood near Sir WALTER VAVASOR'S

park in Yorksh. R. Sy. Per. June.

DIGYNIA comprehends such as have two pistils.

CHRYSOSPLENIUM. GOLDEN SAXIFRAGE.

The cup is quadripartite, often quinquifid, patent, coloured and remains till the fruit be ripe, with ovate fegments. There is no flower, unless the coloured cup be taken as such. There are eight and often ten stamina that are subulated, erect and very short, placed in the angular receptacle, with fimple antheræ. The germen is funk in the receptacle, and ends in two fubulated ftyles the length of the stamina, having obtuse stigmata. The fruit is a two beaked, bipartite, unilocular capfule, having two valves, furrounded with a green cup, containing many finall feeds.

Obf. The terminatory flower is fometimes quinquifid, the other series are quadrifid. About Leighton Hall, Lan.

Oppositifolium. Common Golden Saxifrage with oppsite leaves. Found about springs, and in shady woods.

Per. April, May.

Alternifolium. Golden Saxifrage with alternate leaves. Found as the former but not fo common. Near Bingley in Yorksh, Per. April.

SAXIFRAGE.

The cup is monophyllous, quinquepartite, short, acute, and remains till the fruit be ripe. The flower hath five patent petals narrow at the base. The ten filaments are subulated, having roundish antheræ. The germen is subrotundo acuminated, ending in two short styles, with obtuse stigmata. The fruit is a subovate capsule, two-beaked, unilocular, opening among the apices and contains many minute seeds.

Such as have undivided leaves and naked stems.

Stellaris. Hairy Kidneywort with ferrated leaves, a naked, branching stalk, and acuminated petals. On the Welsh mountains. On Hardknot and Wrenose, by Buckbarrow-well in Long steddale, West. R. Sy. Per. June—Aug.

Nivalis. Mountain Sengreen with obovate, crenate, fessile leaves, a naked stalk, and slowers in clusters. Found on the Welsh mountains. R. Sy. Per. June.

Such as have undivided leaves, and a leafy stalk.

oppositifolia. Mountain Heath-like Sengreen with ovate, opposite, imbricated leaves, and the tops ciliated. Found on the fides of Ingleborough. On Snowdon plentifully. Per. March, April.

Aizoides. Yellow Mountain Sengreen with the leaves on the stalks, lineari-subulated, thin set and naked, and the stalks decumbent. On the sides of Ingleborough-hill. Per. Aug.

Autumnalis. Autumnal Sengreen with linear, stalk leaves, alternately ciliated, and those towards the roots aggregate. Found by Dr. Kingstone on Knotsford Moor, Cheshire. Per. July, Aug.

Such as have lobate leaves, and erest stalks.

Caspitosa. Small Mountain Sengreen with the radical leaves aggregate, linear, entire and trisid, and an erect, naked stalk that bears two flowers. Found on the mountains about Ambleside in West. Per. Aug.

Trydac-

Irydactylites. Rue leaved Sengreen or Whitlow-grafs with leaves like wedges, alternately trifid, and an erect, branchy stem. On old walls and houses. An. April,

May.

Granulata. White Sengreen or Saxifrage with lobate, kidney shaped leaves, a branchy stem, and a granulated root. In the fields on the side of Wallworth common near London plentiful. In Mr Townley's wood called Grisedale night he side of the Coppice-wood but not plentiful, Lan. Per. May, June.

Such as have lobate leaves and procumbent stalks.

Hypnoides. Trifid Sengreen with linear, entire or trifid leaves on the stalks, procumbent side shoots, and erect stalks which are almost naked. In the mountains of West. Yorksh. and Derbysh. Per. April, May.

SCLERANTHUS. KNAWEL.

The cup is monophyllous, tubulated, semiquinquifid, acute, and remains till the fruit be ripe, and is straitened in the neck. There is no slower. The ten silaments are subulated, erect, very small and placed upon the cup, having roundish anthera. The germen is roundish and has two erect, capillary styles the length of the stamina, and simple stigmata. The fruit is an ovate, very stender capsule in the bottom of the cup, containing two seeds, convex on one side and plain on the other.

Annuus. German Knot-grass, or Annual Knawel with the cups of the fruit patulent. In sandy fields. An: Aug.

Pennis. Perennial Knawel with the cups of the fruit

shut. Grows as the former. Per. Aug.

SAPONARIA. SOAPWORT.

The cup is monophyllous, tubulofe, quinquedentated, and remains till the fruit be ripe. The petals are five, the ungues are narrow, angulated, and the length of the

cup. The limb is plain, but the fegments are externally broader and obtuse. The ten filaments are subulated and the length of the tube of the corolla, alternately placed upon the ungues of the petals, having long, obtule, prostrate antheræ. The germen is taper, having two erect, parallel ftyles, the length of the stamina with acute stigmata. The fruit is a capfule the length of the cup, covered, unilocular and cylindraceous, containing many fmall feeds.

Officinalis. Soapwort with cylindrical cups and ovato-lanceolated leaves. In Warton Town. Opposite Mr CLARKSON's house in Yealand Redman, Lan. plentifully.

Near Mordon College, Camb. Per. July, Aug.

DIANTHUS. CLOVE GILLY-FLOWER, CARNATION and Pink.

of the cup double and lanceolated, and the flowers encus-

The cup is cylindrical, long, striated and remains till the fruit be ripe, the mouth is erect and quinquedentated, furrounded at the base with four squamulæ, of which two are lower than the others. The flower hath five petals and the ungues are the length of the cup, narrow and placed upon the receptacle; the upper part is broad, obtuse and crenated. The ten filaments are subulated and the length of the cup with patulent apices. The antheræ are ovali-oblong, compressed and prostrate. The germen is oval having two fubulated styles longer than the stamina and the stigmata are crooked and acuminated. The capfule is cylindraceous, close, unilocular, opening at the top four ways, containing many compressed, roundish seeds. The receptacle is open, tetragonal, shorter by half than the seed vessel.

Obf. LINN. In some, the styles scarcely exceed the length of the stamina, in others they are very long, but fo much turned back, that the inflexion of the flower ap-

pears unnecessary.

dianel

90 DECANDRIA TRIGYNIA:

out can tou tours and more

Such as have aggregate flowers.

Armeria. Deptford Pink with aggregate flowers, the scales of the cup lanceolated, villose, and equal with the tube. In Carlton Wood, Camb. Near Craydon. Hudson. Per. July.

Prolifer. Limewort with aggregate, headed flowers, the scales of the cup ovate, obtuse, and the beards equaling the tube. In gravelly places but not common. An.

Aug.

Such as have solitary flowers and many on the same stalk.

Deltoides. Maiden Pinks with fingle flowers, the scales of the cup double and lanceolated, and the flowers crenated. In heathy meadows and pattures. On Hamstead

Heath. Per. June, July.

Glaucus. Mountain Pink with single flowers, the scales of the cup lanceolated, and the petals crenated. On Chedder rocks in Somersetshire. Mr Brewer. Per. July.

Such as have one flower on an herbaceous stalk.

Arenarius. Stone Pink with stalks that have one slower, the scales of the cup ovate and obtuse, the petals bisid and the leaves linear. In dry pastures and on walls. On Chedder rocks. Mr Brewer. In the north of England. R. Sy. Per. June, July.

TRIGYNIA comprehends such as have three pistils.

CUCUBALUS. BERRY BEARING CHICKWEED.

The cup is monophyllous, tubulose, quinquedentated and remains till the fruit be ripe. The flower hath five petals, the ungues the length of the cup, the limb is plain but the segments are bisid. The ten filaments are subulated and alternately placed upon the tails of the petals, with oblong antheræ. The germen is somewhat longish

longish having three subulated styles longer than the stamina. The stigmata are hairy, oblong and bent against the sun, The fruit is a close capsule, acuminated, trilocular at the apex, opening five ways, containing many roundish seeds.

Obs. It is distinguished from the Silene by the

corolla having no nectarial crown.

Bacciferus. Berry bearing Chickweed with campanulated cups, the petals ftanding off one another, the feed vessels coloured, and the branches divaricated. In woods in the Isle of Mona. R. Sy. Per. July.

Behen. Bladder Campion, or White Corn Campion with subglobose cups, smooth and reticulo-venose, trilocular capfules, and naked corollæ. In dry pastures very

common. Per. July.

Viscosus. Dover Campion with decumbent, lateral flowers, an undivided stalk, and leaves reflex at the base. Found on Dover Cliffs by Mr Newton. R. Sy. Per.

July.

Otites. Spanish Campion, or Catchfly, with dioicous flowers, setaceous, undivided petals. In gravelly soil. About the gravel pits on the north of Newmarket. Between Barton Mills and Thetford. R. Sy. Per. July.

Acaulis. Moss Campion without a stalk. Found on mountains. Per. July. of several required of several contractions

SILENE. VISCOUS CAMPION, OF CATCHELY.

The cup is monophyllous, tubulofe, quinquedentated and remains till the fruit be ripe. The flower hath five petals, with narrow ungues, the length of the cup and emarginated: The limb is plain, obtuse and often bifid. The nectarium is compounded of two small indentures in the neck of each petal constituting a crown of the faux. There are ten subulated filaments, alternately placed upon the tails of the petals, above each other, with oblong antheræ. The germen is cylindraceous, having three simple styles longer than the stamina and itigmata

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stigniata that are reflexed against the fun. The fruit is a cylindrical, close, trilocular capfule opening in the appearance ways, containing many kidney shaped seeds.

Anglica. Small Corn Catchfly, or Campion, rough with emarginated petals, erect flowers, the fruit reflex, and peduncles alternate. In the corn fields near Colchefter. Among the corn near the Devil's Ditch in Camb. R. Sy. An. June, July.

Amana. Sea Campion with bifid petals, the leaves hanging on the outfide, peduncles that have three flowers and are opposite, and alternate branches. On the sea-

fhore. Per. Aug.

Distriction of

Nutans. Nottingham Catchfly with bifid petals, nodding flowers growing from the fide of the stalks, all turned to one fide, and a stalk bended back. On the Walls of Nottingham Castle and thereabouts. And on many mountains and pastures. Per. June, July.

Conoidea. Great Corn Catchfly, or Campion with the cups of the fruit conical, marked with thirty stripes, and

for leaves. Found in gravelly fields.

Noctiflora: Night flowering Catchfly with ten angulated cups, the dents equal with the tube, and a dichotomous

ftein. Found in corn fields. July!

Armeria. Broad leaved Cattliffy with flowers gathered into bunches, the upper leaves smooth and heart shaped, commonly called Lobel's Catchfly. On the banks of the river half a mile below Chefter. R. Sy. An. Aug.

The cup is monophyllous, tubulole, quinquedentated and rentracewhaters. A IPA ALL LET'S have and rentracewhaters, the length of the cup and

The cup hath five leaves, that are ovato-lanceolated, concave, acute, patent, and remain till the fruit be ripe. The flower hath five bipartite, plain, oblong, withering petals. The ten filaments are thread-like, thorter than the corolla, alternately thorter one than the other with roundish antheræ. The germen is roundish and hath three

three capillary, patent styles with obtuse stigmata. The fruit is an ovate, close, unilocular capfule with fix valves

containing many, roundish, flat feeds. of land bas alust

Nemorum. Broad leaved Stitchwort with petiolated, cordate leaves, and the peduncles of the panicle ramofe. In woods and hedges and on the banks of rivers in Yorksh. Lan. West. and Cumb. Per. July, Aug.

Holoftea. Greater Stitchwort with lanceolated, ferrated leaves and bifid petals. Common in woods and hedges.

Per. April, May.
Graminea. Lesser Stitchwort with linear entire leaves and paniculated flowers. A common plant. Per. July.

ARENARIA. CHICKWEED. The cum is monophyllouts, Jerniquinquille, acute, and

COTYLEDON. NAVEL-WOAT OF KIDNEY-WORKS

The cup hath five oblong, acuminated, patent petals that remain till the fruit be ripe. The flower hath five ovate petals. The ten filaments are fubulated with roundish antheræ. The germen is ovate, having three erecto-reflex styles and thickish stigmata. The fruit is an ovate, close, unilocular capfule, and the apex opening five ways contains many kidney shaped seeds.

Peploides. Sea Chickweed with ovate, acute, fleshy

leaves. Per. June, July. Manipulation and anti-

Trinervia. Plantain-leaved Chickweed with ovate, a-

cute, petiolated nervous leaves. An. May, June.

Serpyllifolia. The least Chickweed with subovate. acute, feffile leaves, and flowers shorter than the cups. An. May, June, 1 1000 A Januar 1500 normon ton

Saxatilis. Mountain Chickweed with fubulated leaves. paniculated stems, and the leaves of the cups ovate. Found on the mountains of Yorksh. Derbysh. and West.

Per. Aug.

Laricifolia. Larch leaved Chickweed with fetaceous leaves, the stalk naked towards the top, and the cups roughish, On the mountains of West. Per. Aug.

to Lexifly aloneupl boundy and then saying a Ten-

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Tenuifolia. Fine leaved Chickweed with fubulated leaves, a paniculated stem, simple peduncles, erect capfules, and petals shorter than the cup. Per. June, July.

Rubia. Purple flowered Chickweed, or Spurry with thread-like leaves, and membranaceous stipulæ forming artheath. to saland person bas aspend and shoow of

Marina. Sea Sparry with linear leaves the length of that space between the notches. An. June, July.

caves and bind secals - Common in woods and hadges.

PENTAGYNIA comprehends such plants as have five piftils. growed bosslusing bas ion plant. Per July:

COTYLEDON. NAVEL-WORT, OF KIDNEY-WORT.

The cup is monophyllous, semiquinquisid, acute and very fmall. The flower hath a campanulated, femiquinquifid petal. The nectarium is a concave scale at the exterior base of the germen. The ten filaments are subulated, straight, and the length of the corolla, having erect, four furrowed anthera. There are five oblong, thickish germina, ending in subulated styles, longer than the stamina, with simple stigmata. There are five oblong, ventricose, acuminated capsules, with one valve, opening longitudinally, containing many finall iceds.

Umbilicus. Navel-wort, Kidney-wort, or Wall Pennywort, with cucullated, ferrato-dentated, alternate leaves, a branchy stem, and erect flowers. On old walls, but not common; near Bristol. About Troutbeck, West. Hudson. May July, worked nintended without

SEDUM. HOUSELEEK.

carrievlated from and the leaves of the cups evate.

The cup is quinquepartite, acute, erect and remains till the fruit be ripe. The flower hath five lanceolated, acuminated, plain, patent petals. The nectaria are five; each is a very imall, emarginated fquamula, affixed to the

the outer part of the germen near the the base. The ten filaments are subulated and the length of the corolla, having roundish antheræ. The five germina are oblong, ending in slender styles and have obtuse stigmata. There are five patent, acuminated, compressed capsules, emarginated towards the base, and open longitudinally and contain many very small seeds.

Telephium. Orpine, or Live-long, with plainish serrated leaves, a leafy corymbus and erect stalk. In rocky

woods most commonly. Per. Aug.

Reflexum. Yellow Stonecrop, or Prick-madam, with fubulated leaves fet thinly without order, a loofe membranaceous base, the lower leaves bended, and the flowers from the top of the branches.

Rupestre. St. Vincent's Rock Stonecrop with subulated leaves growing in clusters five ways; the base has a loose membrane and the flowers grow from the top of the branches. On St. Vincent's Rock near Bristol. Per. Aug.

Album. White flowered Stonecrop with oblong, obtuic, taper leaves, fitting close to the stalks, patent, and a branching stalk. On walls and houses. On a wall just beyond the Chapel at Kentish-Town. Per June, July.

Acre. Wall Stonecrop, or Pepper, with oval, gibbous, erect, alternate leaves, fitting close to each other and a

trifid top. Per. June.

Sexangulare. Infipid Stonecrop with almost oval, gibbous, erect leaves, growing close to each other and imbri-

cated fix ways. Bien. July.

Annum. Mountain Stonecrop with an erect, annual, fingle stalk, oval, gibbous leaves, which are placed alternately and a recurved top. Betwixt Tarmouth and Donewich. On the rocks in Lan. and West. Near Winandermere-water. About Rydale in West. Per. Aug.

Dafyphyllum. Round leaved Stonecrop with oval, fleshy, obtute leaves placed opposite, a weak stalk, and flowers

growing thinly without order. An. July.

Villesum. March Stongerop with an erect stalk, plain leaves,

96 DECANDRIA PENTAGYNIA

leaves, and peduncles somewhat hairy. On the moist rocks about Ingleborough. On Hincklehow near Settle. Dr. RICHARDSON. June.

OXALIS. WOOD SORREL.

The cup is quinquepartite, acute, very short and remains till the fruit be ripe. The flower is quinquepartite, cohering by means of ungues, erect, obtuse and emarginated, There are ten, capillary, erect silaments, and the external ones are shorter, having roundish, sulcated antheræ. The germen is quinquangular, with sive thread-like styles the length of the stamina, and the stigmata are obtuse. The fruit is a pentagonal, quinquelocular capsule, opening longitudinally at the angles, containing roundish seeds that are thrown out with an elasticity, when ripe, if touched.

Acetofella. Wood Sorrel with one flower on a footflalk, leaves by threes, and a scaly, jointed root. Per.

April.

AGROSTEMA. COCKLE.

The cup is monophyllous, coriaceous, tubulose, quinquedentated, and remains till the fruit be ripe. The flower hath five petals and the ungues are the length of the tube of the cup. The limb hath patent, obtuse laminæ or segments. The ten silaments are subulated and alternately ranged, placed upon each unguis of the petals, having simple antheræ. The germen is ovate having sive thread-like, erect styles the length of the stamina and simple stigmata. The fruit is an oblongo-ovate, covered, unilocular capsule with sive valves containing many, kidney-shaped, pointed seeds. The receptacles are free, and as many in number as the feeds, the interior ones gradually longer.

Obf. A. Githaco. The corolla is not crowned, as

in the rest.

DECANDRIA PENTAGYNIA 97

Githaco. Hairy Cockle with cups equaling the corolla and naked entire petals. In Peckham Fields near London and sometimes tho' rare it is found in the North. In the corn fields below Yealand Redman I found it once or twice. June, July.

LYCHNIS. CAMPION.

The cup is monophyllous, tubulofe, membranaceous, quinquedentated, and remains till the fruit be ripe. The flower hath five petals, and ungues the length of the cup, plain and emarginated. The limb hath often divided fegments and plain. The ten filaments are alternately ranged and longer than the cup, each fixed to the tail of a petal with proftrate antheræ. The germen is subovate, having five subulated styles longer than the stamina. The stigmata are reflex against the sun and hairy. The fruit is a capfule approaching to an ovate figure, covered, and hath five valves containing many roundish seeds.

Flos cuculi. Meadow Pinks, Wild Williams, Cuckow Flower with quadrifid petals, and roundish fruit. Per.

Tune.

Viscaria. Red German Catchfly with entire petals. On mountainous pastures. May, June.

Dioica. White and Red Campion, Lychnis, with dioicous flowers. Per. May-July.

Foemina with a compound stalk and cups oblongo-

ovate. Per. May-July.

Mas. Wild Lychnis with a red flower. Per. May-July.

CERASTIUM. MOUSE-FAR CHICKWEED.

The cup hath five ovato-lanceolated, acute, patent leaves that remain till the fruit be ripe. The flower hath five bifid, obtuse, erecto-patent petals the length of the cup. The ten filaments are thread-like, shorter than

98 DECANDRIA PENTAGYNIA:

the corolla, alternately shorter one than the other, having round antheræ. The germen is ovate, having five capillary, erect styles, the length of the stamina and obtuse stigmata. The fruit is an ovato-cylindraceous, often globose, obtuse, unilocular capsule, opening with a quinquedentated apex, containing many roundish seeds.

Vulgatum.. Narrow leaved Mouse-ear Chickweed with ovate leaves, petals equal to the cup and diffuse stalks.

In meadows and pastures. An. June.

Viscosum. Broad leaved Mouse-ear Chickweed that is

villose, erect, and clammy. An. April, May.

Semidecandrium. The least Mouse-ear Chickweed with flowers that have five stamina and emarginated petals.

In meadows and pastures. An. April.

Arvense. Corn Mouse-ear Chickweed with linear, lanceolated, obtuse, smooth leaves, and slowers larger than the cup. In meadows and pastures. On Dupper's Hill near Croydon. Hudson. On Newmarket Heath, and several places in Camb. At Grantham in Lincolnshire. Between the Glass-houses and Dent's Hole, Newcastle upon Tyne. Per. May.

Alpinum. Mountain Mouse-ear Chickweed with ovatolanceolated leaves, a divided stalk and obtuse capsules.

Per. June.

Such as have roundish capsules.

Tomentosum, Wooly Mouse-ear Chickweed with oblong, woolly leaves, ramose peduncles, and globose capsules. Per. May.

Aquaticum. Marsh Mouse-ear Chickweed with cordate, sessile leaves, solitary slowers and pendulous fruit. Per.

July.

SPERGULA. SPURRY.

The cup hath five ovate, obtuse, concave, patent leaves that remain till the fruit be ripe. The flower hath five, ovate, concave, patent petals, larger than the

cup,

DODECANDRIA MONOGYNIA. 99

cup, and undivided. The ten filaments are subulated, and shorter than the corolla, having roundish antheræ. The germen is ovate, the five styles are erecto-reslex, and thread-like, with thickish stigmata. The fruit is an ovate, covered, unilocular capsule with five valves, containing many depresso-globose seeds.

Obs. It is distinguished from the former genus by

its having entire leaves.

Arvensis. Corn Spurry with verticillate leaves and flowers that have ten stamina. An. Aug.

Pentandria. Small Spurry with verticillate leaves and

flowers that have five stamina. An. July.

Nodosa. Knotted Spurry, or English Marsh Saxifrage, with opposite, subulated, smooth leaves and simple stalks. In moist meadows. On the banks of the Thames near Nine-Elms, and on Hampstead Heath. Per. July, Aug.

And the length of the Color of the XI. The street of the color of the

DODECANDRIA.

to general is appoint, the light is tabulance

This class comprehends such plants as have any number of stamina from twelve to nineteen both inclusive, and from one to five pistils.

MONOGYNIA comprehends such as have one pistil.

A S A R U M. ASARABACCA.

THE cup is monophyllous, campanulated, semitrified, coriaceous, coloured and remains till the fruit be ripe; the segments are erect and instex at the apex. There is no flower. The twelve silaments are subulated and shorter by half than the cup; the antheræ are oblong, growing to the middle partition of the silaments.

100 DODECANDRIA MONOGYNIA.

The germen is placed beneath, often within, the substance of the cup. The style is cylindraceous and the length of the stamina. The stigma stellate and divided into six resex segments. The fruit is a coriaceous capsule within the substance of the cup, and has six cells; containing many ovate seeds.

Europaum. Afarabacca with kidney-shaped, obtuse leaves, growing by pairs. In woods and shady places.

In several woods in Lancashire, Per. May,

LYTHRUM. WILLOW-HERE, OF LOOSESTRIFE.

Pentendria, Small Somry with verricillate leaves and

The cup is monophyllous, cylindraceous, striated with twelve dents alternately less. The flower hath six oblong, obtuse, patent petals, placed with the ungues in the indentures of the cup. There are twelve stender stamina the length of the cup, the upper ones being shorter than the lower ones, having simple, affurgent antheræ. The germen is oblong, the style is subulated the length of the stamina, and declined with an orbiculated affurgent stigma. The fruit is an oblong, pointed, covered, bilocular capsule, containing many small seeds.

Obf. LINN. In some species one fixth part of the flower is wanting.

Hyffopifolia hath only fix stamina,

Salicaria. Purple spiked Loosestrife, or Willow-herb, with opposite, cordato-lanceolated leaves, and the flowers in a spike with twelve stamina. In rivers and ditches, a very common plant in the North. Per. July.

Hyssopifolia. Grass-poly, Small Hedge Hyssop with alternate linear leaves, and flowers that have only fix stamina. In watery places, and where water has been in winter, but not very common. Hudson, An. Aug. Sep.

og to the middle partition of the filiaments.

and concivent with the bafe of the petal, and dilated DIGYNIA comprehends fuch as have two pistils.

fifteen and floors, with obtate, credt antherse the length AGRIMONIA. AGRIMONY.

The cup is monophyllous, quinquifid, acute, small, placed upon the germen, remains till the fruit be ripe, and guarded with another cup. The flower hath five plain, emarginated petals, with narrow ungues placed upon the cup. The filaments are capillary, shorter than the corolla and inferted into the cup, having small didymous, compressed antheræ. The germen is beneath the receptacle, having two simple styles the length of the stamina, and obtuse stigmata. There is no feed vessel, but the cup which is straitned in the neck and indurated, contains two roundish seeds. Obs. Linn. The number of the stamina is very un-

certain, in some twelve, seldom ten, in others seven.

Agrimonie T. The exterior cup joins to the interior. The feeds are two and the stamina from twelve to twenty, and the fruit is furrounded with hairs.

Agrimonoidis T. The exterior cup is free from the

interior, has one feed and about feven stamina.

Eupatoria. Agrimony with the stalk-leaves pinnate and hairy fruit. In hedges frequently. Per. June.

TRIGYNIA comprehends such as have three pistils. UPHORBIA. Spunger.

RESEDA. BASTARD ROCKET.

The cup is monophyllous, ventricole coloured, di-The cup is monophyllous, with narrow, acute, creft, permanent fegments, of which two are more opening, and serve for one melliferous petal. The flower hach, some unequal petals, and some of them are always sematrifid, the upper one is gibbous at the base, melli ferous. and the length of the cup. The nectarium is a plan, creek, glandule, produced from the receptacle, placed on its upper fide between the stamina and the upper petal.

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and connivent with the base of the petal, and dilated from the same side. The silaments are eleven, often sifteen and short, with obtuse, erect antheræ the length of the corolla. The germen is gibbous, ending in a few very short styles that have simple stigmata. The fruit is a gibbous, angulated capsule, acuminated, opening among the styles and is unilocular, containing many kidney shaped seeds that grow to the angles of the capsule.

Obs. Linn. Scarce any genus is more difficult to be accurately determined than this, it sports in number and figure in different species. The essential character consists in trifid petals, and one melliferous to the base,

and the capfule never thut, but always open.

Luteola. The cup is quadripartite, the petals are three, the upper one is melliferous and half cut into fix parts, the opposite, lateral ones are trifid, there are added, either by nature, or the sporting of nature, two very small, entire, low ones, three styles and many stamina.

The other variations regard not the english plants.

Lutea. Base Rocket with all the leaves trisid, the lower ones pinnate. In fields, meadows, and pastures, especially chalky. An. July.

Luteola. Wild Woad, Yellow-weed, or Dyer's Weed, with lanceolated, entire leaves and quadrifid cups. On walls and in barren uncultivated places. An. June.

EUPHORBIA. Spurge.

The cup is monophyllous, ventricose, coloured, divided into four, sometimes into five, segments at the edge and remains till the fruit be ripe. The flower consists of four, sometimes of five, petals which are turbinated, gibbous, thick, truncated, and situated irregularly, alternately with the segments of the cup, and are affixed by ungues to the margin of the cup, and remain till the fruit be ripe. There are twelve, or more, slender, articulated stamina, placed upon the receptacle, and longer

longer than the corolla, appearing at different times with didymous, roundish antheræ. The germen is three cornered and roundish, having three bisid styles and obtuse stigmata. The fruit is a roundish, tricoccous, trilocular capsule opening elastically and contains many solitary, roundish seeds.

Obs. Euphorbium Is. &c. Hath an angulated or fleshy

stalk and the petals in some trifid.

Tithymalus. T. hath a leafy stalk.

and like a keel. In some species the masculine slowers are first. There are commonly four petals, in some five, often on the same plant there are flowers of a disferent sex, these are in many glandulous, in some lunated or dentated, in a few slender like a membrane, and commonly appear as the they were placed at the outside of the cup. The capsule is smooth, or rough, or verrucose. The stamina do not all break out at the same time.

Peplis. Small purple Sea Spurge that is dichotomous with entire, semicordate leaves and solitary flowers from the joints, and procumbent stalks. On the sea shore. An. June.

Such as have a trifid umbel.

Peplus. Petty Spurge which is dichotomous with a trifid umbel, ovate involucelli, entire, obovate, petiolated leaves. An. July.

Exigua. Dwarf Spurge which is dichotomous with a trifid umbel, and lanceolated, linear leaves. About

Shooters-hill in Kent. Hudson. July.

30

Such as have a quinquifid umbel.

Helioscopia. Sun Spurge, or Wart-wort, with a quinquisid, dichotomous umbel, oval involucelli, and serrated wedge-like leaves. An. July.

Seg-

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Segetalis. Corn Spurge with a quinquifid, dichotomous umbel, involucelli cordate and acute, and the

leaves linear. An. July, Aug.

Portlandica. Portland Spurge with a quinquifid, dichotomous umbel, the involucelli cordate, the leaves lineari-lanceolated partly obtuse, acuminated and festex. Per. Aug.

Paralias. Sea Spurge with an umbel somewhat quinquisid and bisid, the involucelli cordato-kidney shaped

and the leaves imbricated. Per. July, Aug.

Verrucosa. Rough fruited Spurge with a quinquisid, dichotomous umbel, the involucelli cordate, the leaves lanceolate, serrulated, hairy, and the capsules verrucose. Per. Aug.

Platyphyllos. Broad-leaved Spurge with a quinquifid, dichotomous umbel, the involucelli pilose in the keel, the leaves serrated, lanceolated, and sessile. Per. July.

Such as have a multifid umbel.

Amygdaloides. Wood Spurge with a multifid and dichotomous umbel, the involucelli perfoliated, and or-

bicular, and the leaves obtuse. Per. April.

Characias. Red Spurge with a multifid umbel, the involucelli perfoliate, emarginated, and leaves entire and a shrubby stalk. On the Paper-mill Pool-dam in Heywood Park, Staffordshire. Dr. Plot. I found it in a wood by the Oak of Honour not far from London. June.

Hyberna. Knotty-rooted Spuge with a dichotomous umbel divided into fix parts, oval involucelli, entire leaves

wadge ince learns. The yage and the

no branches, verrucose capsules. Per. July.

Sur Synge, of Ware next, with a quin-

DODECANDRIA PENTAGYNIA. 105

POLYGYNIA comprehends such as have many pistils.

SEMPERVIVUM. HOUSELEEK.

The cup is divided from fix to twelve fegments that are concave, acute and permanent. The flower confifts of twelve oblong, lanceolated, acute, concave petals, a little larger than the cup. There are twelve flender filaments with roundish antheræ. There are twelve germina placed orbicularly that are erect and ending in as many patent styles, that have acute stigmata. There are twelve oblong, compressed, short capsules placed orbicularly, externally acuminated and opening internally, containing many roundish small seeds.

Obf. Linn. The number is often greater especially

in the feminine parts.

Testorum. Houseleek with ciliated leaves and patent shoots. Per. July.

BIRLE A. Decrees

It at the bule, and remains uil the truit be ripe, having acute segment. The perils are five, placed upon
the cup, oblong remains. The manners are more
than twenty, three distes, the thin the corolla and
inferred into the cup, having roundish anthere. The
genuma are five, often more, with as many flyles the
length of the tamina, and fleuded tigosaria. The
length of the tamina, and fleuded tigosaria. This capfules are oblong acutalmated, compactles with two valves,

Out Live The Linewall of the hath many cap-

CLASSXII.

ICOSANDRIA.

This class differs from the following. First, In having a monophyllous concave cup. Second, The corolla is fastened by unguis to the inner side of the cup. Third, The stamina are more than nineteen and inserted into the inner side of the cup or corolla.

It is called Icosandria, because the number of stamina in this class is about twenty in the greatest part of the genera, nevertheless the number is not to be accounted a sufficient characteristic, but rather the manner of insertion. The plants have from one to sive and more pistils, denominated as follow.

MONOGYNIA comprehends such as have but one pistil, of which we have none in England, nor any that have fewer than sive, hence,

PENTAGYNIA which comprehends such as have five pistils.

SPIRÆ A. DROPWORT.

HE cup is monophyllous, semiquinquisid and plain at the base, and remains till the fruit be ripe, having acute segments. The petals are sive, placed upon the cup, oblong-roundish. The silaments are more than twenty, thread-like, shorter than the corolla and inserted into the cup, having roundish antheræ. The germina are sive, often more, with as many styles the length of the stamina, and headed stigmata. The capsules are oblong, acuminated, compressed with two valves, containing a few pointed small seeds.

Obs. Linn. The Filipendula of T. hath many cap-

fules placed in an orb.

Ulmaria of T. hath many contorted capfules.

Filipen-

ICOSANDRIA POLYGYNIA. 107

Filipendula. Dropwort with pinnate leaves, uniform, ferrated lobes, an herbaceous stalk, and slowers growing on slender foot stalks at the top. In Beetham Park belonging to the Earl of Derby, West. In Arnside Park plentifully. In mountainous meadows and pattures. Per. July.

Ulmaria. Meadow-fweet with pinnate leaves, the outer lobe larger, an herbaceous stalk, and slowers growing in bunches on weak foot stalks. Per. June—Aug.

POLYGYNIA comprehends such as have more than five pistils.

FRAGARIA. STRAWBERRY.

The cup is monophyllous, plain, lightly divided into ten fegments, the external ones alternately narrower. The flower hath five roundish, patent petals inserted into the cup. There are twenty subulated filaments, shorter than the corolla and inserted into the cup, having moon shaped antheræ. The germina are numerous, very small and collected into a head. The styles are simple and inserted into the side of the germen, and the stigmata are simple. There is no feed vessel. The berry is a common receptacle of the seed and is rotundo-ovate, pulpose, soft, large, coloured, truncated at the base, and deciduous, containing many small, acuminated feeds, scattered upon the superficies of the receptacle.

Vesca. Strawberry with creeping tendrils. Per. April,

May.

Sterilis. Barren Strawberry with a decumbent, creeping stalk. Per. April.

POTENTILLA. CINQUEFOIL.

The cup is monophyllous, plainish, divided lightly into ten segments that are reflex and alternately less. The five petals are roundish, patent and inserted into the P 2

108 ICOSANDRIA POLYGYNIA.

cup by ungues. The twenty filaments are subulated, shorter than the corolla, and inserted into the cup having elongato-lunulated antheræ. The germina are numerous, very small and collected into a head. The styles are small, the length of the stamina and inserted into the side of the germen, with obtuse stigmata. There is no seed vessel, the common receptacle of the seed is roundish, hardish, very small, remains till the fruit be ripe, covered with seeds and included in the cup, containing many acuminated seeds.

Obf. Take one tenth part away in every part of

fructification and you will have Tormentil.

Fruticosa. Shrub Cinquesoil with pinnate leaves and a shrubby stalk. Mr Lawson observed thousands of these plants by Mickle-force, in Teesdale. June.

Argentina. Silver Weed, Wild Tansey, with pinnated, serrated leaves and a creeping stalk. Per. June, July.

Rupestris. Upright Bastard Cinquesoil with alternate, winged leaves, having five oval, crenated lobes and an erect stalk. Per. July.

Such as have five leaves.

Argentea. Tormentil Cinquefoil with five wedge-shaped lobes to the leaves that are woolly on the under side, and an erect stalk. Per. June.

Opaca. Small Rough Cinquefoil with leaves by fives shaped like wedges and serrated, placed nearly opposite and the branches slender and decumbent. Per. June.

Verna, Spring Cinquefoil with radical leaves having five lobes acutely ferrated and blunt at the end. Per. May, June.

Reptans. Common Cinquefoil, or Five leaved Grass, with digitated leaves, a creeping stalk, and peduncles with

fingle flowers. Per. June.

Alba. White Cinquefoil with leaves that have five lobes ferrated at the points, flender, procumbent stalks, and rough receptacles. Per. Aug.

TORMEN-

TORMENTILLA. TORMENTIL.

The cup is monophyllous, plain, lightly cut into eight fegments, alternately less and acute. The four petals are obcordate, plain, patent, inserted into the cup by means of ungues. There are fixteen subulated filaments shorter by half than the corolla, inserted into the cup, with simple antheræ. There are eight small germina, connivent into a small head with slender styles the length of the stamina, inserted into the sides of the germina, having obtule stigmata. The receptacle of the seed is very small and loaded therewith, being included in a cup, eight in number, oblong and obtulely acuminated.

Obs. Tormentilla only differs from the Potentilla in the number, both may therefore justly be esteemed one

genus.

Erecta. Tormentil, or Septfoil, with an erect stalk and

sessile leaves. Per. June.

Reptans. Creeping Tormentil with a creeping stalk, and leaves on foot stalks. Per. July.

GEUM, Avens, or Herb Benner.

The cup is monophyllous, lightly cut into ten fegments that are alternately very small and acute. The flower consists of five roundish petals, being inserted by ungues (that are narrow and the length of the cup) into the cup. The filaments are numerous, subulated and the length of the cup into which they are inserted, having short, broadish, obtuse antheræ. The germina are numerous and collected into a little head, and the styles which are hairy and long are inserted into the side of the germen. The common receptacle of the feed is oblong, rough and placed upon a restex cup, containing numerous, compressed, hispid seeds with the style which is bent like a knee adhering to them.

Urbanum. Common Avens, or Herb-bennet, with erect flowers, globofe fruit, with naked, hooked ears, and

leaves with three lobes. Per. June-Aug.

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Rivale. Water Avens with nodding flowers, oblong fruit, and plumose ears. In the northern mountains, about Settle, Ingleton, &c. R. Sy. Per. July.

DRYAS.

The cup is monophyllous, cut into eight, often five patent, linear, obtuse, equal segments, a little shorter than the corolla. The slower hath eight, often five, oblong, emarginated, patent petals, inserted into the cup. The filaments are numerous, capillary, short and inserted into the cup, having small antheræ. The germina are many and small, the styles slender, inserted into the side of the germen, having simple stigmata. There is no seed vessel, but there are many roundish, compressed teeds with long, woolly styles.

Pentapetala. Cinquefoil Avens with five petals and

pinnate leaves.

Ostopetala. Mountain Avens with eight petals, and simple leaves. In most of the woods in the north. June—Aug.

COMARUM. Purple Marsh Cinquefoil.

The cup is monophyllous, very large, patent, coloured, lightly cut into ten fegments alternately lefs, and remains till the fruit be ripe. The flower hath five oblong, acuminated petals, three times lefs than the cup into which they are inferted. There are twenty fubulated filaments inferted into the cup the length of the corolla, and remain till the fruit be ripe, having moonfhaped, deciduous antheræ. The germina are numerous, roundifh, very finall and collected into a head, the styles are simple and proceed out of the side of the germen, having simple stigmata. There is no feed vessel, the common receptacle of the seed is scrotiform, sleshy, very large and remains till the fruit be ripe, containing many acuminated seeds covering the receptacle.

Palustre: Comarum, or Purple Marsh Cinquefoil. June. C L A S S XIII.

POLYANDRIA MONOGYNIA: ALE

baid bas C L A S S XIII.

POLYANDRIA.

The plants of this class have hermaphrodite flowers, and a large number of stamina, or male parts in each, that always exceed the number of twelve, and grow on the receptacle of the future seeds. The genera are further distinguished into MONOGYNIA, DIGYNIA, &c.

MONOGYNIA comprehends such as have but one pistil.

ACT ÆA. HERB CHRISTOPHER, OF BANE-BERRIES.

THE cup hath four roundish, obtuse, concave, caducous leaves, and the slower hath four petals, acuminated at each end, larger than the cup and caducous. There are many filaments (commonly thirty) that are slender, and broadest at the summits. The antheræ are roundish, didymous and erect. The germen is ovate, without any style. The stigma is thickish and obliquely depressed. The fruit is a smooth berry of an ovali-globose sigure, containing one cell and marked with a furrow, having many semicircular seeds, internally truncated and arranged in a double series.

Spicata. Herb Christopher with ovate clusters, and the fruit in berries. About Malham-cove and in a little

wood near Clapham in Yorksh. Per. April-June.

CHELIDONIUM. CELANDINE.

The cup confifts of two roundish, subovate, concave, obtuse, caducous leaves. The slower hath four roundish, plain, patent, large petals, narrower at the base. The silaments are thirty in number, plain, broader at the tops and shorter than the corolla, having oblong, compressed, obtuse, erect, didymous antheræ. The germen is cylindraceous, the length of the stamina without

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without any style. The stigma is headed and bisid. The fruit is a cylindraceous pod with two valves, containing many ovate and fmooth feeds. The receptacle is linear, between the two valves, in form of a future, and not opening.

Mojus. Celandine with umbellated foot-stalks. Per.

May, June.

Glaucium. Yellow horned Poppy with foot-stalks that have fingle flowers, and finuated leaves that embrace a smooth stalk. On the sea shore. I found it near Warton lane end, Lanc. And at Longguard fort near Harwich in Esex. An. July, Aug.

Hybridum. Violet coloured horned Poppy with footstalks that have but one flower, pinnatifid, linear leaves, and a smooth stalk. Betwixt Swaffham and Burwel in

Camb. DAn. Augori and the land the rises is bereningers Phere are many filaments (commonly thirty) that

PAPAVER. POPPY.

The cup confists of two oval, emarginated, concave, obtuse, caducous leaves. The flower hath four roundish, plain, patent and large petals, narrow at the base and alternately less. The filaments are numerous, flender and much shorter than the corolla, having oblong, compressed, erect, obruse antheræ. The germen is roundish and large, without any style. The stigma is peltated, plain and radiated. The fruit is a capfule crowned with a plain large stigma, opening with several foramina under it; the feeds are numerous and very fmall, the receptacles are longitudinal plaits of the fame number with the rays of the stigmata, growing to the fides of the fruit or capfule.

Hybridum. Round rough headed Poppy with globular, furrowed prickly capfules, and a leafy stalk, bearing

many flowers. An. June, July.

Argemone. Long rough headed Poppy with club-shaped, prickly capfules, and a leafy stalk bearing many flowers. An. June. Such

Such as have smooth capsules.

Rheas. Corn Poppy with smooth, globular capsules, a hairy stalk having many flowers, and pinnatifid cut

leaves. An. June, July.

Dubium. Long smooth headed Poppy with oblong, fmooth capfules, a stalk with many flowers, pinnatifid cut leaves. In the fields about Stockwell near London. An. June.

Cambricum. Yellow Poppy with oblong smooth heads, a smooth stalk bearing many flowers, and cut winged

leaves. Per. June-Aug.

Sommiferum. Wild Poppy with smooth cups and cap-fules, and cut leaves that embrace the stalks. An. July.

NYMPHÆA. WATER LILY.

The cup is large, tetraphyllous, coloured, and remains till the fruit be ripe. The petals are numerous, often fifteen, placed upon the fide of the germen in more than a fingle feries. The filaments are numerous, often feventy, plain, bended, obtufe, and short, having long antheræ growing to the sides of the filaments. The germen is ovate and large, without any style, the stigma is orbicular, plain and target shaped, marked with rays, crenated in the edge, and remains till the fruit be ripe. The fruit is a hard, ovate, sleshy berry, with a narrow neck crowned at the top, and divided into ten or fifteen cells full of pulp, having many roundish feeds.

Nymphea. Lutea, or Yellow Water Lily, hath a pentaphyllous cup, roundish leaves, small petals, and by

these it differs from the rest,

Lutea. Yellow Water Lily with a large pentaphyllous cup. In standing waters between Rotherhithe and Deptford. About Hairs Water within the liberties of Yealand Redman, Lan. Aug.

Alba. White Water Lily with entire, cordate leaves,

and a quadrifid cup. About Hairs Water. July.

CIS-

HI POLYANDRIA MONOYGYNIA.

CI STUUS

The cup is pentaphyllous and remains till the fruit be ripe, the leaves thereof are roundish and concave two of which are alternately smaller and placed lower than the rest. The flower consists of five roundish, plain, parent, large petals. The filaments are numerous, capillary and shorter than the corolla, having roundish, small antheræ. The germen is roundish, the style is simple and the length of the stamina, and the stigma is plain and orbicular. The fruit is a roundish capsule, covered with a cup, containing many roundish, small seeds.

- Obf. The effential character confifts in the two leaves

of the cup being alternately lefs.

Helianthemum T. hath an unilocular capfule, and three valves.

. Ciftus Turn. hath five or ten capfules.

Guttatus. Annual Ciftus which is herbaceous and without stipulæ, the leaves are opposite with three nerves, and the branches without a floral leaf. June.

Under-Shrubby Cistus with Stipulæ.

Helianthemum. Dwarf Ciftus, or Little Sun Flower, which is procumbent and shrubby, the stipulæ are lanceolated, the leaves are oblong, turned back and hairy. The first variety has larger leaves and a white flower, the second variety has a broader leaf and a rosy flower. On Yealand Common plentifully, Lan. June—Aug.

Surreianus. Narrow-leaved Ciftus which is shrubby, procumbent and has stipulæ, the leaves are ovato-oblong and hairy, and the petals are lanceolated. About Croy-

don. Dr. Du Bois. Per. June.

Polifolius. Mountain Dwarf Ciftus which is shrubby, procumbent and hath stipulæ, with oblongo-ovate, hoary leaves, smooth cups and serrated petals. Upon Brent-downs, Somersetsh. near the Severn Sea. Dr. Pluke-Net. Per. June.

Under-

POLYANDRIA-TRIGYNIA PENTAGYNIA. 415

Lording Under-Shrubby Ciftus without Stipule and all all

Hirfutus. Hoary Dwarf Ciftus which is shrubby, procumbent and without stipulæ, the leaves are opposite, oblong, turned back, hairy and the flowers in branches. About Kendal, at Buckbarrow Bank Scar betwixt Brigster and Cunswick; also on the rocks about Cartmel-wells in Lan. observed by Mr. Firz Roberts. Per. June.

FRIGYNIA comprehends fuch as have three piftils.

DELPHINIUM. LARKSPUR.

The flower is composed of five unequal petals placed orbicularly, of these the upper one is anteriorly more obtufe than the others and extended behind into a tubulated horn which is straight, long, and obtuse, the others are of an oval, spear-shaped figure, patent and nearly equal. The nectarium is bifid, and is placed in the center of the petals on the upper part, behind it is protended outwards and is inclosed in the tube of the corollà. The filaments are numerous (fifteen-or thirty)-fubulated, broader at the base, small, and inclined towards the upper petal, having erect, finall anthera. There are three or one stamen which is oval, ending in a style the length of the stamina having simple reflexed stigmata. The capfules are ovato-fubulated, strait, with one valve opening internally, and are of the fame number as the germina and contain many angulated feeds.

Confolida. Larkspur with monophyllous nectaria, a

fubdivided stalk, and three pistils. An. June,

PENTAGYNIA comprehends such as have five pistils.

A Q U I'L E G I'A. COLUMBINES.

The flower hath five lanceolato-ovate, plain, patent, equal petals. There are five equal nectaria that stand alternately with the petals; they are horned and grow gradually wider at their upper part, the mouth is oblique, ascending, and internally affixed to the receptacle

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in the lower part, beneath forming a long attenuated tube with an obtuse apex. The silaments are numerous from thirty to forty and subulated, the exterior ones shorter. The antheræ are oblong, erect and the height of the nectaria. There are five o ato-oblong germina ending in subulated styles longer than the stamina having erect, simple stigmata. There are ten rugose, short awas distinguishing the germina and surrounding them. There are five cylindraceous, parallel, strait, acuminated capsules, consisting of one valve o ening from the top inwards, containing many ovate, keel-shaped seeds adhering to the surure.

Vulgaris. Common Columbines, with crooked nectaria.

Per. fune.

Alpina. Mountain Columbines with straight nectaria, shorter than the petals, which are spear-shaped. Per. June.

HEXAGYNIA comprehends such as have six pistils.

STRATIOTES. WATER ALOE.

It has one flower inclosed in a compressed, obtuse, connivent sheath, carinated on both sides, and remains till the fruit be ripe. The cup is monophyllous, tripartite, erect, and deciduous. There are three heart-shaped, erecto-patent petals, twice as large as the cup. The stamina are twenty in number the length of the cup, inserted into the receptacle, having simple antheræ. The germen is beneath the receptacle having six bipart te styles the length of the stamina and simple stigmata. The fruit is an oval capsule, narrowed on every side, having six angles and six cells, filled with oblong, incurved, and commonly winged seeds.

Aloides. Water Aloe with sword-like, triangular, cili-

ato-aculeated leaves. Per. June.

POLYGYNIA comprehends fuch as have more than fix pistils.

penigration of the company of the state of t

ANEMONE.

The flower hath no cup, but it confifts of two or three orders of leaves or petals which are oblong and disposed in three series over each other. The filaments are numerous, capillary, shorter by half than the corolla, and have didymous, erect antheræ. The germina are numerous and collected into a head, with acuminated styles and obtuse stigmata. The receptacle is globose or oblong, excavato-punctated, containing many acuminated seeds adhering to the style.

Obs. Hepatica D. hath a triphyllous cup.

Pulsatilla T. hath a faliaceous involucrum and seeds that are taily and pilose.

Anemoncides D. and Hepatica D. have naked feeds and

a plumofe tailed a suchtim bus , savo , basedur lener

Nemorofa. Common Wood Anemone with acute feeds, cut leaves, and a fingle flower on each stem. Per. April.

Apennina: Mountain Wood Anemone with acute teeds, cut leaves, and lanceolated, numerous petals. Found in woods. In Wimbleton woods, Mr. Rand; near Harrow on the Hill, Mr. Dubois; in a wood near Lutton hoo, Bedfordsh. Mr. T. Kowlton. R. Sy. Per April, May.

Pulsatilla. Pasque siower with straight petals and bipinnate leaves. On Gogmagog hills. Bernock heath near Stamford. Near Pontefrati. Dr. RICHARDSON. Per. April.

CLEMATIS. TRAVELLER'S-JOY.

moft naked flyly, terminated by a lingle banely of flow-

The flower consists of four lax, oblong petals. There are many subulated filaments, shorter than the corolla with antheræ growing to the side of the filaments. The germina are numerous, round sh, compressed, and each

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ing in subulated styles that are longer than the stamina, having simple stigmata. The receptacle is headed and small, the seeds are numerous, roundish, compressed with the style adhering to them.

Obs. Clematis of T. hath lanceolated potals and seeds

very long with hair.

Witalba. Great Wild Climber, or Traveller's-Joy, with pinnate leaves, and the small leaves cordate and climbing. This I found near Uxbridge, in the County of Middlesex, plentifully. July, Aug.

THALICTRUM. MEADOW RUE.

ols Lating 111 Special Con Loury of State

The corolla confifts of four roundish, obtuse, concave, caducous petals. The filaments are numerous and broadest towards the summits, flat and longer than the corolla, having oblong, erect antheræ. The styles are many and very short. The germina are numerous land roundish, having thickish stigmata. The seeds numerous, sulcated, ovate, and without a beard.

The number of stamina and pistils is different in dif-

ferent plants. The first no revent sloud a bus are sel and

Flavum. Meadow Rue with a leafy, fulcated stalk, and an crect, multiplex panicle. About Batterfea. Per.

Finishten wendageliste Rassess ging

June.

Minus. The Lesser Meadow Rue with sexpartite leaves and cernuous flowers. In moist mountainous pastures. On the chalky grounds about Newmarket, Linton, and elsewhere in Camb. Hudson. Found also in Yorksh. West. and Cumb. Pen. July, Aug.

Alpinum. Mountain Meadow Rue with a simple, almost naked stalk, terminated by a single bunch of slow-

ers. Per. June. WAT . TAMAIO

ADONIS. ADONIS FLOWER, PHEASANT'S EYE.

The cup consists of five leaves that are obtuse, concave, somewhat coloured, and deciduous. The corollahath

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hath from five to fifteen oblong, obtuse and smooth petals. The filaments are many, very short and subulated having oblong, instex antheræ. The germina are numerous and collected into a head, and the stigmata are acute and reslex. The receptacle is oblong. The seeds are numerous, irregular, angulated, gibbous at the bate, reslex at the apices, a little prominent, and without a beard.

Annua. Adonis Flower whose flower hath eight petals, and fruit of a cylindrical form. In the closes betwixt Stonechurch and Queenhithe. At Chatham: Also near Downham-bridge in Norfolk. An. June, July.

RANUNCULUS. CROWFOOT.

The cup confifts of five obtuse, concave, coloured, deciduous leaves. The corolla hath five obtuse, smooth petals with small ungues. The nectarium is a cavity in each petal, above the ungues. The filaments are many, shorter by half than the corolla, the antheræ are erect, oblong, obtuse and didymous. The germina are numerous and collected into a head, having restex and small stigmata without any styles; the receptacle connects the feed by means of very small peduncles and the seeds are very many, irregular, uncertain in their shape, and restex at the apices.

Obs. Linn. The essential character consists in the nectarium, the other parts of fructissication being always uncertain, hence confusion without a knowledge of the

nectarium.

Ficaria hath a triphyllous cup and many petals, Ang. Celendine.

Such as have simple leaves.

Lingua. Great Spearwort with lanceolated leaves and an erect italk. Between Rotherhithe and Deptford plenifully. Per. May.

Flammula.

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Flammula. Lesser Spearwort with ovato-lanceolated, petiolated leaves and a bended stalk. In the Marl-pits near Burton, West. Per. June—Sep.

Such as have jagged and divided leaves.

Repens. Creeping Crowfoot, or Butter Cups with patulent cups, fulcated peduncles, creeping and compound leaves. Per. May.

Bulbosus. Bulbose Crowfoot, or Butter Cups with cups bended back, sulcated peduncles, an erect stalk and

compound leaves. Per. May.

Acris. Upright Meadow Crowfoot with patulent cups, round peduncles, and leaves tripartito-multifid, and

those on the top linear. Per. June, July.

Auricomus. Sweet Wood-Crowfoot, or Goldilocks with the radical leaves kidney-shaped, crenated and cut, those on the stalk digitated and linear and many flowers on the stalk. Per. April, May.

Sceleratus. Round leaved Water Crowfoot with the lower leaves palmated, the top digitated, and oblong

fruit. An. May, June.

Parviflorus. Small flowered Crowfoot with muricated feeds, simple, laciniated, acute, rough leaves, and a diffuse stalk. An. May.

Arvensis. Corn Crowfoot with aculeated feed, the up-

per leaves decompounded and linear. An. June.

Hederaceus. Ivy-leaved Water Crowfoot with roundish, three lobed, entire leaves, and a creeping stalk. Per. May.

Aquatilis. Various leaved Water Crowfoot with those leaves that are under the water capillary, and those that

swim peltated. Per. april, May, June.

The three other Crowfoots with capillaceous leaves mentioned by Authors Linnæus calls only varieties.

TROLLIUS. GLOBE-FLOWER, OF LOCKER GOWLANDS.

The flower confifts of about fourteen almost oval; deciduous petals, three in the three exterior orders, and five

five in the innermost; there are nine nectaria that are narrow, plain, incurved and perforated at the base. The filaments are numerous, setaceous and shorter than the corolla, having erect antheræ. The germina are numerous, sitting close like a column having no styles, but mucronated stigmata, shorter than the stamina. The capsules are numerous, oval, collected into a head with a recurved point, containing one feed.

Europæus. Globe flower or Locker Gowlons with connivent flowers and nectaria the length of the stamina.

The cup confident three leaves which a

May, June.

HELLEBORUS. BLACK HELLEBORE.

The flower confifts of five large, roundish, obtuse petals. The nectaria are numerous, very short, placed orbicularly, monophyllous, tubulated and narrow at the bottom; the mouth is bilabiated, erect, and emarginated. The filaments are numerous and subulated; the antheræ are compressed, narrower below and erect. The germina about six in number, are compressed, the styles subulated and the stigmata thickish. The capsules are compressed having two keels, the lower one shorter and the upper convex and opening, having many roundish seeds fixed to the suture.

Fætidus. Great Bastard black Helebore, Bearsfoot, or Setterwort with many flowers on a leafy stalk, and leaves on a footstalk. Per. March.

Viridis. Wild black Hellebore with many flowers on a leafy stalk and digitated leaves. This by the common people in the north is called Felon-Grass; it is found in many woods in the north. About Leighton-hall, Yealand, Lan. plentifully, Clathrop-hall, West. April, May.

CALTHA. MARSH MARIGOLD.

The flower confifts of five ovate, plain, patent, deciduous, large petals; the stamina are numerous, slender and shorter than the corolla, with compressed, obtuse, erect R antherze.

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antheræ. The germina are in number from five to ten, oblong, compressed, and erect having no styles but simple stigmata. The capsules are the same in number as the germina and are short, acuminated, patent, doubly keeled, and opening in the upper seam, containing many roundish seeds sixed to the upper seam.

Palustris. Marsh Marigold. In marshy wet meadows

plentifully. Per. April, May.

FICARIA. PILEWORT OF CELENDINE.

The cup consists of three leaves which are ovate, concave, and deciduous. The flower has about eight smooth, lanceolated petals. The nectarium is a cell in every petal above the unguis and covered with an emarginated scale. The filaments are numerous and very short having straight, oblong, didymous antheræ. The germina are numerous and collected into a head without any style. The stigmata are reslex and very small. The receptacle joins the seed together with very small peduncles and the seeds are numerous and oblong with a reslex apex.

Pilewort or Celendine of which we have but one species.

with meny slowers on a leasy halk, and leaves

Mully Chathree had, 18 co. . April, Mary.

ive grate, plane, parent, sice !-

or other

Sons Alexon Languages of the confi

ALTHA MARSH MAR CORD.

Per. March, April, May.

C L A S S XIV.

DIDYNAMIA.

The essential characteristic of this class is, that there are four subulated stamina inserted into the tube of the corolla, two whereof are shorter than the others, and placed together; the anther being commonly hid under the upper lip of the slower and connivent in pairs. It has its name from the two longer stamina being supposed more essectious in secundating the seeds than the rest; and as the general belonging to it are very numerous, they have been divided into two series or orders under the name of Gymnospermia and Angiospermia, the latter having, and the former wanting, a pericarpium, or seed vessel, and first of the

GYMNOSPERMIA.

A J U G A. Bucke.

HE cup is monophyllous, short, semiquinquisid nearly equal, and remains till the fruit be ripe. The slower is monopetalous and ringent, the tube is cylindraceous and incurved, the upper lip is very small, erect, bissid, and obtuse, the middle segment is largest and obcordate, the lateral segments are small. There are four subulated erect silaments longer than the upper lip, of which, two are shorter than the other two, and the antheræ are didymous. The germen is quadripartite, the style is thread-like the length of the stamina, the two stigmata are slender and one shorter than the other. The cup is connivent and contains four longish seeds.

Reptans. Bugle with creeping shoots that put out si-

bres or roots. Per. May.

Pyramidalis. Mountain Bugle, or Sieklewort, with a fquare pyramidal spike. Per. June.

2

TEU-

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TEUCRIUM. TREE-GERMANDER.

The cup is monophyllous, semiquinquisid, acute, nearly equal and gibbous at the base, and remains till the fruit be ripe. The flower is monopetalous and ringent, the tube is cylindraceous, short, and ending in a crooked faux, the upper lip is erect, acute, and divided into two segments to the base which stand off at the sides. The lower lip is patent and trisid, the side segments are of the same sigure as the upper lip and somewhat erect; the middle being largest and roundish. The silaments are four, subulated, longer than the upper lip of the corolla, prominent between the segments, and terminated by small antheræ. The germen is quadripartite, the style is small or slender, the height of the stamina, crowned by two slender stigmata. The cup is the seed vessel and contains four roundish seeds in the bottom.

Obf. LINN. The upper lip divided beyond the base,

leaves the corolla without any upper lip.

Teucrium T. The cup is campanulated and the feg-

ment of the corolla of the lower lip is concave.

Polium T. The flowers are collected into a head that terminate the branches.

Chamadrys T. The flowers arise from the wings of

the leaves and the cup is tubulated.

Marum, Boerh. The leaves are like Mother of Thyme, and the smell sharp.

Scordii T. Rai has a garlick smell.

Iva Dill. The cup beneath is very gibbous.

Scorodonia hath a fingle bifid ftigma.

Scordium. Water Germander with oblong, dentatoferrated leaves fitting close to the branches, and flowers growing by pairs at the wings of the stalk which is diffuse. Per. Aug.

Chamædrys. Germander with oval leaves on footftalks, crenated and cut; and flowers growing almost in whorls by threes, and procumbent stalks. On the ruins

of Winchelsea Castle. R. Sy. Per. May, June.

Cha-

Chamæpitys. Ground-pine with linear, trifid, entire leaves, and flowers fitting close, fingly on the fides and

a diffuse stalk. Per. June, July.

Scorodonia. Wood Sage with heart-shaped, serrated leaves having foot-stalks, many bunches of flowers hanging on one side and an upright stalk. This species hath a single bisid stigma, and found commonly among limestone rocks, in woods and thickets. Per. June, July.

NEPETA. NAP OF CAT-MINT.

The cup is monophyllous, tubulated, cylindraceous, and the mouth is quinquifid, acute, and erect; the upper dents are longer than the lower ones and more patulent. The flower is monopetalous and ringent, the tube is cylindraceous and incurved; the limb is opening, the faux is patent, cordate, and ending in two reflex, obtufe, and very flort fegments. The upper lip is erect, roundish, and emarginated: The lower lip is roundish, concave, large, entire, and crenulated. The four filaments are fubulated, placed under the upper lip, and approximate, of which two are florter than the rest, all having incumbent antheræ. The germen is quadrisid, the style flender, the length of the stamina, the stigma is bisid and acute. The cup is straight and contains four subovate seeds in the bottom.

Obf. LINN. If you reckon the fegments of the

faux in the lower lip it will be tripartite.

Cataria. Nap, or Cat-mint, with spiked flowers whose whorls have very short foot-stalks, and heart-shaped leaves growing on foot-stalks, which are indented like the teeth of a saw. Per. July.

MENTHA. MINT.

The cup is monnophyllous, tubulated, erect, quinquedentated equal, and remains till the fruit be ripe. The flower is monopetalous, the petal is erect and tubulated and fomewhat longer than the cup. The limb is

qua-

SEE END

quadripartite, nearly equal, the upper segment is broader and emarginated. The four filaments are subulated, erect, and stand off each other, of which the two nearest are longest, all crowned with roundish antheræ. The germen is quadrisid, the style is slender, erect, and longer than the corolla, having a bisid, patent stigma. The cup is erect and contains four small seeds in the bottom.

Spicata. Spear-mint with folitary spikes, lanceolated, serrated, sessile leaves. On the banks of rivers. Per. Aug.

Longifolia. Long leaved Horse-mint with flowers thick set on a spike, oblong, serrated, tomentose, sessile leaves.

Per. Aug.

Rotundifolia. Round leaved Horse-mint with flowers growing in a spike, and round, crenated, rugose, sessile leaves. Per. Aug.

Piperita. Pepper-mint with flowers growing in heads

and lanceolated, ferrated leaves. Per. Aug.

Gentilis. Red-mint with flowers growing in whorls, ovate, acute, ferrated leaves, and stamina shorter than the corolla. Per. Aug.

Verticillata. Curled-mint with verticillate flowers, pilose peduncles, ovate, serrated leaves, and stamina longer

than the corolla. In Peckham Fields. Per. Aug.

Arvensis. Corn-mint with verticillate flowers, ovate, acute, serrated leaves, and stamina even with the corolla.

Per. Aug. Sep.

Exigua. Smooth-mint with verticillate flowers, lanceolato-ovate, smooth, acute, entire leaves. In the hopground at Bocking, Mr. Dale, by the side of the Newriver near the upper end of Stoke Newington, Mr. Bud-Dle. Per. Aug.

Aquatica. Water-mint with flowers growing in heads, ovate, serrated leaves on foot-stalks, and stamina longer

than the corolla. Per. July.

Hirsuta. Round-headed-mint with ovate, serrated leaves, and stamina shorter than the corolla. Per. Aug.

Pul-

Pulegium. Pennyroyal with verticillate flowers, ovate, obtuse leaves, somewhat crenated, and repent, roundish stalks. Per. Aug. Sep.

G L E C O M A. GROUND IVY

The cup is monophyllous, tubulated, cylindraceous, ftriated, very small, and permanent, the mouth is quinquedentated, acuminated, and unequal. The flower is monopetalous and ringent, the tube is slender and compressed, the upper lip is erect, obtuse, and semibifid; the lower lip is patent, large, obtuse, and trisid, the middle segment is largest and emarginated. There are four silaments under the upper lip, two of which are shorter than the rest; the antheræ are connivent in the form of a cross. The germen is quadrisid, the style slender and bended under the upper lip. The stigmais bisid and acute. The cup contains four ovate seeds in the bottom.

Hederacea. Ground Ivy with kidney-shaped, crenated

leaves. Per. May.

Arvensis. Upright Ground Ivy with cordate, oblong, crenated leaves, and a prickly, upright stalk. An. Aug.

L A M I U M. ARCHANGEL.

The cup is monophyllous, tubulated, more patent towards the top, dentated, aristated, nearly equal, and remains till the fruit be ripe. The flower is monopetalous and ringent, the tube is cylindraceous and very short. The limb opens, the faux is swelled, compressed, gibbous, the margin is marked with a restex denticle. The upper lip is arched, roundish, obtuse, and entire: The lower lip is shorter, obcordate, emarginated, and restex. There are four subulated silaments concealed under the upper lip, of which two are longer than the rest. The antheræ are oblong and rough. The germen is quadrisid, the style is slender and the length of the stamina. The stigma is bisid and acute. The cup is open and contains tour short triquetrous seeds, convex on one side, and truncated on both.

Album.

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Album. White dead Nettle, or Archangel, with cotdate, acuminated, ferrated leaves on foot-stalks. Per. May.

Rubrum. Red Archangel with cordate, obtuse leaves

on foot-stalks. An. May.

Amplexicaule. Great Henbit with the flower leaves sefsile, obtuse, and surrounding the stalk. An. June.

GALEOPSIS. STINKING DEAD NETTLE.

The cup is monophyllous, tubulated, quinquedentated, acuto-ariftated, and the ariftæ the length of the tube, and permanent. The flower is monopetalous and ringent, the tube is very fhort, the limb opens. The faux is rather broader than the tube, the length of the cup, and from the base of the upper lip is on both sides sharply indented. The upper lip is roundish, concave, ferrated at the apex. The lower lip is trifid: The lateral fegments are roundish, the middle one is larger, emarginated and crenated. It hath four stamina that are subulated and placed under the upper lip, of which two are shorter than the rest. The antheræ are roundish and bifid. The germen is quadrifid, the style is slender, the length of the stamina; the stigma is bisid and acute. The cup is rigid, straight, containing four triquetrous, truncated feeds.

Ladanum. Narrow leaved Allheal with the space between the joints on the stalk equal; and all the whorls

remote from each other. An. July, Aug.

Tetrahit. Nettle Hemp, or Hemp leaved Dead Nettle, with the space between the joints towards the top incraffated, and the upper whorls nearly contiguous. An. Aug.

every whorl, and the involucrum tetraphyllous. Per.

May.

Alberry

BETONICA. BETONY.

The cup is monophyllous, tubulated, cylindric, quinquedentated, ariftated, and remains till the fruit be ripe. The flower is monopetalous and ringent, the tube is incurved and cylindric. The upper lip is roundish, entire, plain, erect; the lower lip is trifid, the middle fegment is broadest, roundish and emarginated. There are four subulated filaments the length of the faux, of which two are shorter than the others and inclined towards the upper lip, having roundish antheræ. The germen is quadripartite. The style is of the sigure and size of the stamina and the stigma is bissid. The cup contains four ovate seeds.

Officinalis. Wood Betony with an interrupted spike, and the middle segment of the lower lip of the flower

emarginated. Per. July, Aug.

Hirta. Yellow Betony with flowers growing in whorls round the stalks, and prickly flower cups. In the west-riding of Yorksh. about Wakefield, Darfield and Sheffield. R. Sy. An. Aug.

STACHYS. BASE-HOREHOUND.

The cup is monophyllous, tubulated, angulated, femiquinquifid, acuminated, and remains till the fruit be ripe. The denticles are acuminated, fubulated, and nearly equal. The flower is monopetalous and ringent, the tube is very flort. The faux is oblong and gibbous to the base. The upper lip is erect, subovate, arched, and often emarginated. The lower lip is larger, reflex at the sides and trisid; the middle segment is largest, emarginated, and replicated. There are four stamina, of which, two are shorter than the rest, and subulated, bending back to the sides of the saux, having simple antheræ. The germen is quadripartite, the style is slender and the length of the stamina. The stigma is bisid and acute. The cup which is scarce changed contains ovate, angulated seeds.

S

DIDYNAMIA GYMNOSPERMIA.

Obs. Galeopsis T. The upper lip is arched. Stachys T. The upper lip is erect.

S. Hirta. The upper lip of the corolla is divaricated.

S. Arvensis. The upper lip of the corolla is entire.

Germanica. Base Horehound with many flowers at the whorls, the fowings of the leaves imbricated, and a woolly stalk. Per. July.

Sylvatica. Hedge Nettle with fix flowers at each whorl, and cordate leaves on foot-stalks. Per. July.

Aug.

Palustris. Clown's Allheal with fix flowers at every whorl, lineari-lanceolated leaves that half embrace the Stalk. Per. Aug.

BALLOTA. STINKING HOREHOUND.

The cup is monophyllous, tubulated, hypocrateriform, pentagonal, oblong, decem-striated, erect, remains till the fruit be ripe, and is equal: The mouth is acute, patulent, plicated, and quinquedentated. The flower is monopetalous and ringent, the tube is cylindraceous, and the length of the cup. The upper lip is erect, ovate, entire, crenated, concave; the lower lip is trifid and obtuse: The middle segment being larger and emarginated. There are four filaments of which two are shorter, inclined towards the upper lip, and shorter than it, with oblong, lateral antheræ. The germen is quadrifid, the style is slender and of the figure of the stamina, and the stigma is slender and bifid. The cup is unchanged and contains four ovate feeds.

Nigra. Stinking Horehound with cordate, ferrated, undivided leaves, and acuminated cups. An. July.

MARRUBIUM. HOREHOUND.

The cup is monophyllous, infundibuliform, tubulated, and hath ten striæ: The mouth is equal, patulent, and often has ten dents that are alternately less. The flower is monopetalous and ringent, the tube cylindraceous, out of the out of the out of

ous, the limb opens with a long tubulated faux. The upper lip is erect, linear, semibifid, and acute; the lower lip is reflex, broader and semitrifid, the middle segment is broad and emarginated, and the lateral segments are acute. The four silaments are shorter than the corolla, and placed under the upper lip, and two of them are longer than the other two, having simple antheræ. The germen is quadrisid, the style is slender and the length of the stamina, with a bisid stigma. The cup is narrowed in the neck, expanded at the mouth, and contains four oblongish seeds.

Obs. Marrubium of T. has the upper lip of the co-

rolla erect.

PfeudodiEtamni T. has the upper lip arched.

Vulgare. White Horehound with hooked, briftly indentures to the cups. About Warton, Lanc. plentifully. June, July.

LEONURUS. MOTHERWORT, OF LION'S TAIL.

The cup is monophyllous, tubulated, cylindraceoangulated, pentagonal, quinquedentated, and remains till the fruit be ripe. The flower is monopetalous and ringent, the tube is narrow, the limb opens, the faux is long. The upper lip is longer, femi-cylindraceous, concave, gibbous, rotundo-obtuse at the apex, entire and villofe. The lower lip is reflex and tripartite, the fegments are lanceolated and nearly equal. There are four filaments concealed under the upper lip, two of which are shorter. The antheræ are oblong, compressed, bifid in the midst, incumbent, marked with elevated points that are globose, smooth, solid and very small. There, are four germina, a flender ftyle the length of the stamina, and a bifid acute stigma. There are four oblong feeds in the bottom of the cup, convex on one fide and angulated on the other.

Cardiaca. Motherwort, or Lion's Tail, with spear-shaped, three lobed leaves on the stalks. About Poul-

ton by the fands, Lan. Bien. July.

CLIN-

CLINOPODIUM. FIELD BASIL.

The involucrum is the length of the cup, with a multitude of hairs making a kind of a whorl. The cup is monophyllous, cylindraceous, flightly incurved, and bilabiated. The upper lip is broader, trifid, acute, reflex; the lower lip is bipartite, flender, and inflex. The flower is monopetalous and ringent, the tube is fhort and visibly enlarges towards the faux. The upper lip is erect, concave, obtuse, and emarginated: The lower lip is trifid and obtuse, the middle segment is broader and emarginated. The four filaments are under the upper lip, two of which are shorter with roundish antheræ. The germen is quadripartite, the style is slender, and the length of the stamina. The stigma is simple, acute, and compressed. The cup is straitned in the neck, gibbous in the belly, and contains sour ovate seeds.

Vulgare. Great Wild Basil with roundish, prickly

heads, and briftly bracteæ. Per. July.

ORIGANUM. MARJORAM.

c cap is monophullous, tubulated, eviladracac-

The involucrum is spicated and compounded of imbricated, ovate, coloured bracteæ, and the cup is unequal. The flower is monopetalous and ringent, the tube cylindraceous and compressed. The upper lip is erect, plain, obtuse, emarginated. The lower lip is trisid and the segments unequal. The four filaments are thread-like the length of the corolla, two of which are longer and the antheræ are simple. The germen is quadrisid, the style slender and inclining towards the upper lip of the corolla; the stigma is slightly bisid. The cup is connivent and contains four ovate seeds.

Obf. The involucrum of the cup conftitutes the ef-

fential characterist c of this genus.

CLIN

Vulgare. Wild Marjoram with roundish, paniculated spikes gathered in clusters, and oval bracteæ, which are longer than the empalement. About Borwick and in

the

the fields near Warton Church, Lan. belonging to Mr

DAWSON. Per. July, Aug.

Onites. Pot Marjoram with oblong rough spikes, gathered into a head, and cordate, tomentose leaves. In dry meadows. On the left hand-side of the road from Braintree to Raine, beyond the bridge, Mr DALE. R. Sy. Per. Aug.

THYMUS. THYME,

The cup is monophyllous, tubulated, semibifid into two lips and remains till the fruit be ripe, and the faux is closed with hair. The upper lip is broader, plain, erect, tridentated. The lower lip is two bristles of an equal length. The flower is monopetalous and ringent; the tube is the length of the cup, the faux is small. The upper lip is shorter, plain, erect, emarginated and obtuse. The lower lip is longer, patent, broader, trisid, obtuse, and the middle segment is broadest. There are four incurved silaments, two of which are longer and have small antheræ. The germen is quadripartite, the style is stender, the stigma is bisid and acute. The cup is contracted in the neck and contains four small roundish seeds.

Obf. LINN. Thyme of T. hath very fhort stamina.

Serpyllum T. differs from Thyme, having ligneous stalks, not so hard and more creeping.

Acinos Riv. Dill. has the middle legment of the low-

er lip of the corolla emarginated,

Mastichina Boerh. has the dents of the cup extended into very long and villose bristles.

LINNÆUS makes the eight other species of authors

only varieties.

Serpyllum. Mother of Thyme, Lemon Thyme, or Hoary Thyme with headed flowers, decumbent stalks, plain, ob-

tuse leaves ciliated at the base. Per. July, Aug.

Acinos. Wild Bafil with verticillated flowers, fingle flowers upon the peduncles, stalks erect, and partly branched, and acute, serrated leaves. On the top of Cringlebarrow belonging to G. Townley, Esq. and on Hale-fell, West.

134 DIDYNAMIA GYMNOSPERMIA.

West. Common among small time-stones every where.

An. July, Aug.

MELISSA. CALAMINT.

The cup is monophyllous, campanulated, dry, rough, patent, angulated, Itriated, bilabiated, and remains till the fruit be ripe. The upper lip is tridentated, reflexopatent, and plain. The lower lip is shorter, more acute, and bipartite. The flower is monopetalous and ringent, the tube is cylindraceous, the faux opens, the upper lip is shorter, erect, arched, roundish, emarginated. The lower lip is trifid. The middle segment larger and obcordate. The four silaments are subulated, of which two are the length of the corolla and two half that length. The antheræ are small and connivent by pairs. The germen is quadrisid, the style is slender, and the length of the corolla, and inclines with the stamina under the upper lip. The stigma is slender, bisid and restex. The cup is enlarged and contains four ovate seeds.

from the wings of the stalks, which are dichotomous and

the length of the leaves. Per. Aug.

1900

Nepeta. Field Calamint with footstalks arising from the wings of the stalks, which are dichotomous longer than the leaves, and a declining head. Per. Aug.

MELITTIS. BASTARD BALM.

The cup is monophyllous, campanulated, round, fraight, bilabiated. The upper lip is higher, emarginated, acute; the lower lip is shorter, bissid, acute with extended segments. The slower is monopetalous and ringent, the tube is much narrower than the cup, the saux is scarce any thicker. The upper lip is erect, roundish and plain; the lower lip is patent, trisid, and obtuse; the middle segment is larger and crenated. The sour silaments are subulated under the upper lip, of which the middle ones are shorter than the others. The anthe-

ræ are connivent by pairs in the form of a cross, bisid and ob use. The germen is obtuse, quadrisid, and villose; the style is stender and the length of the stamina, the stigma is bisid and acute. The cup without changing contains four seeds.

Obs. Linn. The lower lip of the cup sometimes is

found crenated.

Melissophyllum. Melittis Bastard Balm. In woods and hedges. In several woods in the West of England, as about Totness in Devonsh. and Haverfordwest, Pembrokesh. R. Sy. Per. June.

SCUTELLARIA. Scull-CAP.

The cup is monophyllous, very short and tubulated: the mouth is almost entire, having an incumbent scaly operculum which feems closed. The flower is monopetalous and ringent, the tube is very short, bended backwards, the faux is long and compressed. The upper lip is concave and trifid, the middle fegment is concave and emarginated, the fide ones are plain and fomewhat acute; the lower lip is broad and emarginated. The four filaments are placed under the upper lip, of which two are longer, having small antheræ. The german is quadripartite, the style slender and the length of the stamina, the stigma is simple, incurved, and acuminated. The cup is shut up with the operculum, and shaped like a helmet, and supplies the place of a capsule, having four roundish feeds, and opens on the lower margin.

Obf. LINN. It is fufficiently diftinguished from all

others by the fruit.

Galericulata. Hooded Willow Herb with cordato-lanceolated, rugose, crenated leaves and flowers from the joints of the stalks or wings of the leaves. On the banks of dirty ditches and rivers. In the ditches about London. About Newdike-Thornbarrow, Yealand Conyers, Lan.

Minor. The leffer hooded Willow-Herb with cordatoovate, nearly entire leaves and flowers from the wings of the leaves. Per, July, Aug. PR U.

136 DIDYNAMIA GYMNOSPERMIA:

Lind above to mot sait in sing yd mevinnos ere er in the form of PRUNELLA. MSELFHEAL. In do both

The cup is monophyllous, bilabiated, shorter than the faux, and remains till the fruit be ripe. The upper lip is plain, broad, truncated, slightly tridentated; the lower lip is erect, narrow, acute, and semibisfid. The flower is monopetalous and ringent, the tube is short and cylindraceous, the faux is oblong. The upper lip is concave, entire, and nodding; the lower lip is reslex, trisid, and obtuse; the middle segment is broader, emarginated and serrated. The four silaments are subulated, bifurcated at the apices, of which two are a little longer; the antheræ are simple, and inserted into the silaments beneath the apex. The germen is quadripartite, the style slender and inclined with the stamina to the upper lip and the stigma is emarginated; the cup is shut and contains four subovate seeds.

Obs. Linn. The effential character consists in the

bifurcated filaments like Crambes.

Vulgaris. Selfheal with ovato-oblong leaves upon footstalks. Per. Aug. I found (in company with J. Benson, Esq. Mr. Parkinson, and several others) a variety of this plant, with a milk-white flower, in a field near Dalton-hall near Burton, West.

thought like a helmest, and supplies the place of a captule,

direy directes, and reverse to the directes about Landon.

not with the franch of themetiers with cordina-

About Account Therefore the Lakend Corners, Lan.

ng foor roundish feeds, and opens on the lower mar-

at Lawe. It is fufficiently diffinguished from all

with Condition of the Wight Condition Condition

The cop is thut up with the corregion, and

ANGIOSPERMIA

the leaves. Per, July, Aug.

ANGIOSPERMIA.

BARTSIA. EVE-BRIGHT COW-WHEAT.

The cup is monophyllous, tubulated, and remains till the fruit be ripe, the mouth is obtuse and bisid; the segments are emarginated, and the apices coloured. The flower is monopetalous and ringent. The upper lip is erect, slender, and longer; the lower lip is reflex; trifid, obtuse, and very small. There are four setaceous filaments the length of the upper lip, two of which are shorter than the rest. The antheræ are oblong and approximate under the apex of the upper lip. The germen is ovate; the style is slender, and longer than the stamina, the stigma is obtuse and nodding. The capsule is ovate, compressed, acuminated, bilocular with two valves, containing many fmall angulated feeds.

Obf. It is as it were a middle between the Yellow Rattle Eyebright and Loufewort, being diftinguished with

a coloured cup.

Viscosa. Marsh Eye-bright Cow-wheat with the upper leaves alternately ferrated, and the flowers on one fide.

In boggy watery places.

Alpina. Mountain Eye-bright Cow-wheat with oppofite, cordate leaves, obtufely ferrated. On the banks of rivers. Near Orton, West. Aug.

RHINANTHUS. YELLOW-RATTLE.

The cup is monophyllous, roundish, inflated, compressed, quadridentated and remains till the fruit be ripe. The flower is monopetalous and ringent, the tube is nearly cylindraceous and the length of the cup. The limb opens and is compressed at the base. The upper lip is compressed, emarginated, and narrow. The lower lip is patulent, plain, femi-trifid, and obtufe; the middle fegment is broader. There are four filaments the length of

the upper lip under which they are concealed, and two are shorter than the rest. The antheræ are incumbent, bisid, and rough. The germen is ovate and compressed, the style is slender, situated with the stamina and longer; the stigma is obtuse and instexed. The capsule is obtuse, erect, compressed, bilocular, with two valves, and the dissepimentum opposite to them, and opens at the margins, containing many compressed seeds.

Crista Galli. Yellow Rattle or Cock's Comb with the upper lip of the corolla, compressed and shorter. An.

June, July.

EUPHRASIA. EYE-BRIGHT.

The cup is monophyllous, cylindrical, quadrifid, unequal and remains till the fruit be ripe. The flower is monopetalous and ringent; the tube is the length of the cup. The upper lip is concave and emarginated, the lower lip is patent and tripartite, the fegments being obtuse and equal. The four filaments are slender and inclined under the upper lip. The antheræ have two lobes, the lower of which is acuminated into a spike. The germen is ovate, the style slender and the shape of the stamina. The stigma is obtuse and entire. The capsule is ovato-oblong, compressed, bilocular, containing many roundish, small seeds.

Officinalis. Eye-bright with ovate leaves, sharply dent-

ed. An. Aug. Sep.

Odontites. Red Eye-bright with linear, serrated leaves. An. Aug. Sep.

MELAMPHYRUM. COW-WHEAT.

The cup is monophyllous, tubulated, semi-quadrisid; the segments are sender and remain till the fruit be ripe. The slower is monopetalous and ringent, the tube is oblong and bended back, the limb is compressed. The upper lip is shaped like a helmet, compressed, emarginated, and the side margins are restex. The lower lip is plain

plain and erect, being the length of the upper lip and femi-trifid, obtuse and marked in the middle with two eminences. The four filaments are fubulated, crooked, and placed under the upper lip, two of which are shorter having oblong antheræ. The germen is acuminated, the style simple and the length of the stamina, the stigma is obtufe. The capfule is oblong, oblique, acuminated, compressed, convex in the upper margin and straight in the lower, is bilocular and has two valves, the diffepimentum is contrary to the valves opening in the upper luture, containing two ovate, gibbous feeds.

Cristatum. Crested Cow-wheat with quadrangular spikes, cordate, compact, denticulated, imbricated bracteæ. In the woods of Cambridgsh. and Bedfordsh. An. July.

Arvense. Purple Cow-wheat with conical loose tpikes,

dentato-setaceous bracteæ. An. July.

Pratense. Meadow Cow-wheat with the flowers on one fide, the conjugations remote, and the flowers shut. An.

July, Aug.

Sylvaticum. Yellow Cow-wheat with gaping flowers. This differs from the preceding, the flowers being fhorter by half, opening at the limb, and wholly yellow. In woods, especially where there are oak-trees. An. July, Sep.

LATHRÆA. TOOTHWORT.

The cup is monophyllous, campanulated, and upright; the mouth is deeply quadrifid. The flower is monopetalous and ringent, the tube is longer than the cup. The limb is ringent and ventricofe. The upper lip is concave, shaped like a helmet, broad, with a narrow hooked apex. The lower lip is lefs, reflex, obtule, and trifid. The nectarium is an emarginated glandule depressed on both fides, very fhort, inferted into the receptacle of the flower at one angle of the germen. There are four fubulated filaments the length of the corolla, concealed under the upper lip. The antheræ are obtuse, depressed, and connivent. The germen is globoso-compressed, the

style stender and the length of the stamina. The stigma is truncated and nodding. The capsule is roundish, obtuse, unilocular with two valves, elastic, and cloathed with a very large patent cup, containing many subglobose seeds.

Obs. It approaches to the nature of the Orobanche

upon account of the glandule.

Squamaria. Toothwort with a very fimple stalk, pendulous slowers and the lower lip trisid. In shady places and at the foot of mountains, but not common. In the woods about Maidstone in Kent, R. Sy. In a shady lane leading from Harefield town to the river; below Cunswick scar near Kendal, West. At the foot and on the shelves of the scar below Waterfal-bridge near Dalston, West. Mr Lawson. In the first field below Scout-style, on the right hand of a foot-path leading to Barrow-field, about two miles from Kendal, Wilson's Sy. In Deepdale wood and in Grisedale within the liberties of Yealand, Lanc. Per. April, May.

PEDICULARIS. LOUSEWORT.

The cup is monophyllous, roundish, ventricose, has a quinquisid, equal mouth, and remains till the fruit be ripe. The flower is monopetalous and ringent, the tube is oblong and gibbous. The up, er lip is shaped like a helmet, erect, compressed, emarginated, and narrow. The lower lip is patent, plain, semi-trissed, obtuse; the middle segment is narrower. The four silaments are the length of the upper lip under which they are concealed, of which two are shorter. The antheræ are incumbent, roundish and compressed. The germen is roundish, the style is slender, longer than the stamina. The stigma is obtuse. The capsule is roundish, acuminated, oblique, bilocular, the dissepimentum is opposite to the valves and opens in the apex, containing many roundish, compressed, truncated seeds. The receptacles are oblong and pitiolated.

Obf. The capfule in the apex is oblique in the greateft part.

Sylvatica.

Sylvatica. Common Loufewort with a ramofe stalk, oblong, angulated, smooth cups, and the lip flower cordate.

May, June.

Palustris. Marsh Lousewort with a ramose stalk, callous, punctated cups, and the slowers oblique in the sip. June.

ANTIRRHINUM. SNAPDRAGON.

The cup is quinquepartite and remains till the fruit be ripe, the fegments are oblong, the two lower are more open. The flower is monopetalous and ringent, the tube is oblong and gibbous, the limb is bilabiated. The upper lip is bifid and reflex at the fides; the lower lip is trifid and obtufe. The palate is convex, often thut with a prominent palate between the lips. The nectarium is bended down to the bale of the corolla and prominent. There are four filaments under the upper lip, almost the length of the upper lip, two are fhorter, and the antheræ are connivent. The germen is roundish, the style simple, the length of the stamina, the stigma is obtuse. The capsule is roundish, obtuse, bilocular, of different opening and figure in different plants, and contains many feeds. The receptacles are kidney shaped, solitary, and fixed to the diffepimentum.

Obs. The nectarium and seed vessel in this genus va-

ry much.

Linaria of T. hath a long and subulated nectarium and

a capfule opening equally.

Cymbalaria. Ivy-leaved Toadflax with cordate, quinquelobate, alternate leaves and procumbent stalks, About Vauxhall near London. Per. June—Octob.

ed alternately, and procumbent stalks. An Aug. Sept. Spurium. Round-leaved Fluellin with ovate leaves place

manners, and contains many finall leads. There is a

ed alternately and procumbent stalks. An. Aug.

Such as have opposite, virticillate leaves.

Arvense. Corn-blue Toadslax with nearly linear leaves, the lower ones placed by fours, the cups piloso-viscid, the flowers in spikes and the stalk erect. An. July, Aug.

Repens. Creeping Toadflax with linear leaves fet thick upon the stalk, those towards the bottom by fours, the

cups being equal with the capfules. Per. Aug.

Monspessulanum. Sweet-smelling Toadflax with linear leaves, set thick on the stalk, a smooth paniculated stalk,

and naked, spiked peduncles. July, Aug.

Linaria. Common Yellow Toadflax with lanceolato-linear leaves, fet thick on the stalk, which is erect, terminatory sessile spikes and imbricated flowers. Per. July.

Minus. Least Toadslax with lanceolated, obtuse leaves placed alternately, and a diffuse branchy stalk. June, Sep.

Such as have gaping corollæ and alternate entire leaves.

Majus. The Greater Snapdragon with flowers with-

out spurs and round cups. Per. June, July.

Orontium. The Least Snapdragon with flowers without spurs, and cups longer than the flowers. An. July, Aug.

SCROPHULARIA. FIGWORT.

The cup is monophyllous, quinquifid, and prominent, the fegments are shorter than the corolla and rounded. The slower is monopetalous and unequal. The tube is globose, large and swelled. The limb is quinquepartite and very small; the two upper segments are large and crect, the two lateral ones are patulent and the third is reslex. The four silaments are linear and declined the length of the corolla, and two are shorter. The antheræ are didymous. The germen is ovate, the style is simple the length of the stamina, with a simple stigma, The capsule is roundish, acuminated, bilocular, opens at the summit, and contains many small seeds. There is a single

fingle roundish receptacle infinuating itself into both the

loculamenta, or cells.

Nodosa. Knobby-rooted Figwort with cordate leaves transverse at the base, and an obtuse, angular stalk. Per. July.

Aquatica. Water Figwort or Betony with cordate, decurrent toot-stalks, a stalk angulated with membranes,

and terminatory branches. Per. July.

Scorodonia. Balm-leaved Figwort with cordate, duplicato-ferrated leaves and a compounded branch. Found near the fea shore about St. Ives in Cornwall. Per. Aug.

Vernalis. Yellow Figwort with cordate leaves and folitary, dichotomous peduncles from the joints. Ap. May.

LIMOSELLA. BASTARD PLANTAIN.

The cup is monophyllous, semiquinquisid, erect, acute, and permanent. The flower is monopetalous, campanulated, erect, equal, semiquinquisid, acute, small, and the segments are patent. There are four erect filaments of which two are joined to the same side, shorter than the corolla and have simple antheræ. The germen is oblong and obtuse, the style is simple and the length of the stamina, and the stigma is globose. The capsule is ovate and half involved in the cup, unilocular with two valves containing many oval seeds; the receptacle is ovate and very large.

Aquatica. Bastard Plantain. Per. Aug. Sep.

SIBTHORPIA. BASTARD MONEYWORT.

The cup is monophyllous, tubulated, quinquepartite, patent; the fegments are ovate and permanent. The flower is monopetalous, quinquepartite, patent, equal, and the length of the cup, with roundish fegments. There are four capillary filaments, two being approximated. The antheræ are cordato-oblong. The germen is roundish and compressed; the style is cylindrical, thicker than the filaments, and the length of the flower, the

stigma

stigma is simple, headed and depressed. The capsule is compressed, orbiculated, biventricose, the sides are acute. There are two valves and two cells. The dissepanentum is transverse, containing subrotundo-oblong seeds, convex on one side and plain on the other.

Europæa. Bastard Moneywort with kidney-shaped, crenated leaves. About Longsleddale in West. Aug.

DIGITALIS. FOX-GLOVE.

The cup is quinquepartite, the fegments roundish, acute, and permanent, the uppermost is narrower than the rest. The flower is monopetalous and campanulated, the tube is large, patent, ventricose, and cylindraceous at the base; the limb is small and quadrisid, the upper segment being more patent and emarginated, the lowest larger. There are four subulated silaments interted into the base of the corolla and bended downwards, of which two are shorter than the rest. The antheræ are bipartite and acuminated. The germen is acuminated, the style is simple, and stigma acute. The capsule is ovate, the length of the cup, acuminated, and bilocular, with two valves which break two ways, containing many small seeds.

Obf. There are some species in which the segments of the corolla are acute, and more conspicuous, and both upper and under lip are acute and more prominent.

Purpurea. Purple Fox-glove with the segments of the cup ovate and acute, the slowers obtuse and upper lip entire. I have seen a variety with a white slower. Bien. July, Aug.

C L A S S XV.

of the largeth of the larger flamine. The filling is about

TETRADYNAMIA.

The plants of this class are supposed to have four of their stamina of more efficacy than the rest, and are always known by having the four efficacious flamina longer than the others. The general characters are as follow: The cup is of an obling figure, composed of four oval, obling hollow, obtuse leaves, converging towards one another, and are gibbous at the base; these all fall off with the slower and stand in pairs, the opposite ones being always equal in length; the cup is properly the nectarium of the plant, and it is on this occasion that it is gibbous at the base. The flower is of a cruciform kind, and consists of four equal petals, which have ungues of the length of the cup, erect, and flat; the petals are broad at the top, obtuse and scarce touch one another at the sides, and the insertion of the petals and stamina is in the same place. The stamina are fix subulated, erect filaments, the two opposite ones are of the length of the cup, the other four are something longer, and are of a less length, however, than the petals. The antheræ are oblong and pointed, thick at the base and erect, with apices bending sideways. The nestariferous gland in the different genera of the class, is differently situated. It usually however is found near the stamina, and most frequently of all is affixed to some short filaments, and stands near their base. Two of the stamina are often curved that they may not press upon the gland; and it is often owing to this that two are shorter than the rest. The germen of the pistil is placed above the receptacle, and is every day in its growth raised higher and higher. The style is sometimes wanting, but in such plants as have it, it is

of the length of the longer stamina. The stigma is always obtuse. The fruit or capsule is always a bivalve pod, which often contains two cells; this when ripe, opens by splitting from the apex to the base, and it has always a little membranous substance serving within as a septum, when the pod is bilocular this stands out beyond the apex, and is the rudiments of what was before the style. The seeds are roundish and the pod usually narrow and oblong.

This class is naturally divided into two series, the one containing the Siliculose and the other the Siliquose plants: the first have a short pod, and the others a long and slender one: The first pods usually have more of the remains of the style than the others.

SILICULOSA.

M Y A G R U M. GOLD OF PLEASURE.

oblong, concave, gaping, coloured, deciduous. The flower is tetrapetalous and cruciform, the petals are plain, roundish and obtuse, the ungues are narrow. There are six silaments the length of the cup; of these the four opposite are a little longer than the rest. The antheræ are simple. The germen is ovate, the style is slender and the length of the cup, the stigma is obtuse. The silicula is obcordate, partly compressed and rigid; the apex ends in a rigid conical style and has two valves; the pods in some are empty.

Obf. LINN. Myagri T. The feed veffel is unilocular with two empty cells in the top and one at the base con-

taining feeds.

Sativum. Gold of Pleasure with ovate, pedunculated, polyspermous siliculæ. Among slax. An. June.

VELLA. CRESSE ROCKET.

The cup is tetraphyllous, erect, cylindraceous, and the leaves are linear, obtuse, and deciduous. The slower is tetrapetalous and cruciform, and the petals obovate and patent, the ungues being the length of the cup. The six silaments are the length of the cup, but the two opposite ones are shorter than the rest. The antheræ are simple. The germen is ovate, the style is conical, the stigma is simple. The silicula is globose, entire, bilocular, the dissepance is twice as large as the silicula, it is ovate and erect, containing some roundish seeds.

Annua. Cresse Rocket with pinnatistid leaves, and pendulous siliculæ. On Salisbury Plain, not far from Stone-

henge, Mr Lawson. R. Sy. An. June.

SUBULARIA. AWL-WORT.

The cup is tetraphyllous, and the leaves are ovate, concave, patent, and deciduous. The flower is tetrapetalous and uniform. The petals are obovate, entire and fomewhat larger than the cup. There are fix filaments shorter than the corolla, the two opposite ones being shorter, and the antheræ are simple. The germen is ovate with scarce any style and the stigma is obtuse. The silicula is obovate, compressed, entire, furnished with a very short style and is bilocular; the valves are ovate and concave, the seeds are very small and roundish.

Aquatica. Awl-wort. Per.

DRABA. WHITLOW-GRASS.

or and Rechiners de containing acuminated deeds

The cup is tetraphyllous, the leaves are ovate, concave erecto-patent, deciduous. The flower is tetrapetalous and cruciform; the petals are oblong, somewhat patent, with very small ungues. There are six silaments the length of the cup, four of which are somewhat longer, and erecto-patent, having simple antheræ. The germen

men is ovate with scarce any style, the stigma is headed and plain. The filicula is eliptico-oblong, compressed, entire without any style, bilocular, and the dissepimentum is parallel with the valves, which are concave and

contain many finall roundish feeds.

Obf. LINN. In some the petals are bipartite to the ungues, in others only emarginated, in some entire. The effential character confifts in the filicula being of an oval, oblong, compressed figure, almost destitute of a style; and hence is eafily diftinguished from the alyssum, Subularia, and Lunaria.

Verna. Common Whitlow-grass with naked stems and

leaves somewhat serrated. An. April.

Muralis. Speedwell-leaved Whitlow-grafs with a ramofe stalk, cordate, dentated leaves that surround the stalk. An. June.

Incana. Wreathen-podded Whitlow-grass with many hoary leaves on the stalk, and oblong tiliculæ. Bien. May. he cup is terraphyllous, and the leaves are overe,

LEPIDIUM. DITTANDER OF PEPPERWORT.

The cup is tetraphyllous, the leaves are ovate, concave, deciduous. The flower is tetrapetalous and cruciform, the petals are obovate, twice as long as the cup, with narrow ungues. There are fix fubulated filaments the length of the cup, of which two are shorter than the rest and all the antheræ are simple. The germen is cordate, the style simple, the length of the stamina, and the stigma is obtuse. The filicula is subcordate, partly emarginated, compressed, with an acute margin and is bilocular; the diffepimentum is lanceolated, the valves navicular and keel-shaped, containing acuminated feeds narrower at the base and nodding.

Latifolium. Dittander with ovato-lanceolated entire, ferrated leaves. In meadows and pastures, but not very common. Near the Hythe at Colchester, and at Haybridge near Maldon, by the water-fide, plentifully, R. Sy. In the marshes near Grays in Essex, Dr Watson. Per. June, fuly. ment, having imple authoric.

mach

Ruderale.

Ruderale. Narrow leaved wild Cress or Dittander with apetalous flowers that have two stamina, whose leaves towards the root are dentato-pinnated, those on the branches linear and entire. At Maldon in Essen, Lynne in Norfolk, and Truro in Cornwal. An. June.

Petræum. Mountain Dittander with entire pinnate leaves, emarginated petals that are less than the cup.

On St Vincent's Rock: R. Sy. An. April, May.

THLASPI. MITHRIDATE OF TREACLE MUSTARD.

ham and Sattle R. Su

The cup is tetraphyllous, the leaves are ovate, concave, erecto-patent, and deciduous. The flower is tetrapetalous and cruciform, the petals obovate, twice as long as the cup with narrow ungues. There are fix finaments, shorter by half than the corolla and two of these are shorter than the rest with acuminated antheræ. The germen is roundish, compressed, emarginated. The style is simple and the length of the stamina, and the st gma is obtuse. The filicula is compressed, obcordate, emarginated; the style is the length of the emargination, billocular, and the disseptmentum is lanceolated, and the valves navicular, containing many nutant seeds affixed to the suture.

Obf. Bursæ pastoris T. Silicula is obcordate and with-

out a margin.

Thlaspi T Silicula is obcordate with an acute margin. Campestre. Mithridate Mustard or Bastard Cress with roundish siliculæ, sagittated, dentated and hoary leaves. In fields and sandy ground. An.

Arvense. Treacle Mustard or Penny Cress with orbiculated filiculæ, oblong, dentated, smooth leaves. In fields

but not common. An. June, July.

Perfoliatum. Perfoliate Treacle Mustard with roundish filiculæ, cordate, partly serrated leaves surrounding the stalks. In mountainous pastures. Among the Stone-pits. between Whitney and Burford, Oxf. On moist limestone pastures in Yorksh. West. and Cumb. An. June.

Hirtum.

Hirtum. Perennial Mithridate Mustard with roundish, hairy pods, and the leaves on the stalks fagittated and

rough. Per. July. buttening-ordered our source of any

Montanum. Mountain Mithridate Mustard with obcordate pods, entire smooth leaves, those at the root cruciform and those on the stalk surrounding it. In the pastures about the Ebbing and Flowing Well, a mile from Settle in Yorksh. Towards Ingleborrough and between Malham and Settle. R. Sy.

Bursa Pastoris. Shepherd's Purse with obcordate pods and the leaves towards the root pinnatifid. An. March,

April.

COCHLEARIA. SCURVY-GRASS.

The cup is tetraphyllous, the leaves ovate, hollow and deciduous. The flower is tetrapetalous and cruciform, the petals are obovate, patent, twice as large as the cup; and the ungues are narrow, fhorter than the cup and patulent. There are fix fubulated filaments the length of the cup, and two of these are shorter than the rest. The antheræ are obtuse and compressed. The germen is cordate, the style is simple, very short, and permanent and the stigma is obtuse. The silicula is cordate, gibbous, slightly compressed, partly emarginated, furnished with a style, bilocular, scabrous and has an obtuse margin and about four seeds in each pouch or pod.

Officinalis, Common or Garden Scurvy-Grass with roundish radical leaves, those on the stalk are oblong and partly sinuated. On the sea shore frequently. Bien. April,

May.

- Granlandia. Greenland Scurvy-Grass with entire, kid-

ney-shaped leaves. Bien. April, May.

Anglica. English or Sea Scurvy-Grass with ovato-lanceolated, sinuated leaves. On the sea shore. Bien. May.

Danica. Danish Scurvy-Grass with angulated spear shaped leaves. In the Isle of Walney, Lan. R. Sy. May.

Coronopus. Swine's Cresses with pinnatifid leaves. An. June-Aug.

Armoracea.

Armoracia. Horse Radish with lanceolated, crenated, radical leaves, and those on the stalk cut. Found plentifully about Alnwick and elsewhere in Northumb. R. Sy. May.

IBERIS. ROCK CRESSE.

The cup is tetraphyllous, the leaves obovate, concave, patent, fmall, equal and deciduous. The flower is tetrapetallous and unequal. The petals are obovate, obtufe, patent, and the ungues are oblong and erect, the two exterior petals are longer than the other two, which are very fmall and reflex. The fix filaments are fubulated and erect, two of which are shorter than the rest, having roundish antheræ. The germen is roundish and compressed, the style is simple and short, and the stigma is obtuse. The silicula is erect, suborbiculated, compressed, emarginated, bilocular, and surrounded with an acute margin; the dissipimentum is lanceolated, the valves are navicular, or resemble a ship, compressed, and keel-shaped, containing a few subovate seeds.

Nudicaulis. Rock Cresse with finuated leaves, and a fimple naked stalk. Near Hampton Court, Richmond and Barnes commons, Mr Doody, R. Sy. Ann. May.

SILIQUOSA.

Comprehends fuch as have long stender pods, and scarce any style.

DENTARIA. COAL-WORT.

The cup is tetraphyllous, the leaves ovato-oblong, convergent, obtuse and deciduous. The flower is tetrapetalous and cruciform, the petals are roundish, and obtuse, scarcely emarginated, plain and ending in ungues, the length of the cup. There are six subulated silaments the length of the cup, two of which are shorter than the others. The antheræ are cordato-oblong and erect. The

Article germen

germen is oblong and the length of the stamina, the style is very short and thick, the stigma is obtuse and emarginated. The sil qua is long, round, bilocular, with two valves, the dissepamentum is a little longer than the valves, and the feeds are numerous and subovate.

Bulbifera. Coral Wort with the lower leaves pinnate and those towards the summit simple. In woody places.

Per. April.

CARDAMINE. LADY'S SMOCK OF CUCKOW FLOWER.

The cup is tetraphyllous, the leaves are ovato-oblong, obtuse, rather patulent, gibbous, small and deciduous. The flower is tetrapetalous and cruciform, the petals are oblongo-ovate, very patent and terminate in erect ungues twice as long as the cup. There are six subulated filaments; the two opposite ones are twice the length of the cup, and the rest somewhat longer. The antheræ are small, cordato-oblong and erect. The germen is slender, cylindraccous, and the length of the stamina, the stigma is headed and entire. The siliqua is long, compressed, b locular with two valves and the valves in opening revolve in the form of a spire. The seeds are numerous and roundish.

Obf. There is one species observed without those two small stamina and another without the petals.

Such as have simple leaves.

Bellidifolia. Daify leaved Lady's Smock with fimple, ovate, entire leaves and very long footstalks. Per. April, May. On St Vincent's Rock near Bristel. In various places about Rippon in Yorksh.

Petraa. Mountain Lady's Smock with simple, oblong, dentated leaves. On the summit of high mountains.

Per. May.

Such as have pinnated leaves.

Pratensis. Common Lady's Smock with pinnated leaves, and the radical leaves roundish and those on the stalk lanceolated. Per. April.

Amorr.

Amara. Bitter Cresses with pinnated leaves, and joints bearing shoots. In meadows and pastures. Per. April, May.

Impatiens. Impatient Lady's Smock with pinnated leaves, the small leaves lanceolated, and petals soon fal-

ling away. An. April.

Parviflora. Small flowered Lady's Smock with pinnated leaves without stipulæ, the small leaves are lanceolated and obtuse. March—May.

Hirsuta. Hairy Lady's Smock with pinnated leaves and

flowers with only five stamina. An. April-Aug.

SISYMBRIUM. WATER-CRESSES.

The cup is tetraphyllous, the leaves are linear, patent, coloured, diciduous. The flower is tetrapetalous, and cruciform. The petals are oblong, patent, often less than the cup, with very small ungues. There are six filaments longer than the cup, the two opposite ones being somewhat shorter and the antheræ are simple. The germen is oblong and slender, there is scarce any style and the stigma is obtuse. The siliqua is long, crooked, gibbous, round, bilocular, and has two valves, the valves are shorter than the dissepimentum, and the seeds are numerous and small.

Obf. Sophia has a flower shorter than the cup, and

a very slender and long filiqua.

CHERANTHUS

Radiculæ D. have very short gibbous siliquæ.

Nasturtium. Water Cresses with declining pods, pin-

nate leaves and fubcordate lobes. Per.

Sylvester. Water Rocket with declining pods, pinnate leaves, and lanceolated, serrated lobes. In wet marshy places. In Tothil-field's, West. BLACK's Spec. Bot. Per, June.

Amphibium. Water Radish with declining, oblongo-

ovate pods, ferrated, pinnatifid leaves. Per. June.

Such as have a naked stalk.

Murale. Wall Rocket with smooth, serrato-dentated leaves, and a naked, scabrous stalk. In sandy places; found by Mr Lawson in Sella-fields, Seabank, Cumb. Per. June.

Irio. Broad leaved Rocket, or Hedge Mustard with pinnato-hastated, dentated, naked leaves, a smooth stalk, and erect pods. On old walls about London very com-

mon. An. May, Aug.

Sephia. Flix-weed with petals less than the cup, and decompound, pinnate leaves. In rough uncultivated places. About Leighton-hall, Lan.

ERYSIMUM. HEDGE MUSTARD.

The cup is tetraphyllous, the leaves are ovato-oblong, connivent, coloured, and deciduous. The flower is tetrapetalous and cruciform, and the petals are oblong, plain, with very obtuse apices, the ungues are the length of the cup and erect. There is a double nectariferous gland situated between the stamina. There are six filaments the length of the cup, and two are shorter than the rest, and all have simple antheræ. The germen is linear and tetragonal and the length of the stamina; the style is very short, the stigma is headed, permanent and small. The siliqua is long, linear, narrow, tetragonal, with two valves and two cells containing many small roundish seeds.

Officinale. Hedge Mustard with the pods of the spike

prefied together, and hooked leaves. An. May.

Cherianthoides. Treacle Wormseed with lanceolated entire leaves. In the Isle of Ely near the city, and near Ashburn in Derbsh. R. Sy. An. July.

Barbarea. Winter Cresses or Rocket with leaves shaped

like a harp, and the outmost roundish. Per. May.

Alliaria. Jack-by-the-Hedge or Sawce-alone with cordate leaves. Per. May.

CHEIRANTHUS.

CHEIRANTHUS. WALL-FLOWER OF WILD CHEIR.

The cup is tetraphyllous and compressed, the leaves are lanceolated, concave, erect, parallelo-connivent, deciduous, and the exterior two are gibbous at the bafe. The flower is tetrapetalous and cruciform; the petals are roundish, longer than the cup and the ungues the length of the cup. There are fix subulated parallel filaments, the length of the cup, and two of them are gibbous and somewhat shorter. The antheræ are erect, bifid at the base, acute at the apices, and reflex. The nectariferous glandule furrounds the base of the lesser stamen. The germen is prismatical, tetragonal, and the length of the stamina, marked on both fides with a tubercle; the style is very short and compressed. The stigma is oblong, bipartite, reflex, thickith and permanent. The filiqua is oblong, compressed, marked with a denticle, bilocular with two valves. The style is very short and has a bisid, erect stigma. The seeds are numerous, pendulous, fubovate, compressed with a membranaceous margin.

Cheiri. Wall-Flower or Wild-Cheir with lanceolated. acute, fmooth leaves, and angulated branches. On old

walls and houses. Per. April, May.

Tricuspidatus. Sea Stock Gilly-Flower with tridentated pods. On the fea shore and on the coast of Cornwal, R. Sy. June.

HESPERIS. DAME'S VIOLET, ROCKET, OF QUEEN'S GILLY-FLOWER.

The cup is tetraphyllous, the leaves are lanceolato-linear and parallelo-connivent, incumbent at the fummits and opening below, deciduous, and two are gibbous at the base. The flower is tetrapetalous and cruciform, the petals are oblong and the length of the cup, and a little obliquely reflexed to the right, ending in attennuated ungues the length of the cup. There are fix subulated filaments the length of the tube, two of which are short-

er by half than the rest. The antheræ are linear, erect, restex at the apices. The glandule is melliserous, acuminated, placed between the shorter stamen and the germen, and then surrounds the same stamen. The germen is the length of the cup, prismatical and tetragonal. There is no style, the stigma is bipartite, oblong, erect, bisurcated at the base, connivent at the apex and withers away. The siliqua is long, plain, striated, bilocular, with two valves and the valves are the length of the dissepimentum, containing many ovate compressed seeds.

Matronalis. Unfavory Dames Violet with a simple erect stalk, ovato-lanceolated, denticulated leaves, and the petals emarginated. On the banks of the rivers about Dalehead and Grassmere in West. Bien. May.

TURRITIS. TOWER MUSTARD.

The cup is tetraphyllous, the leaves are ovato-oblong, parallello-connivent, and deciduous. The flower is tetrapetalous and cruciform, the petals are ovato-oblong, obtuse, erect, entire, with erect ungues. There are six erect subulated filaments, the length of the tube, two of which are shorter than the rest, and all the antheræ are simple. The germen is the length of the flower, round and partly compressed, without any style, the stigma is obtuse. The siliqua is very long, narrow, tetragonal, bilocular, with two valves, the valves scarce equal the dissepimentum. The seeds are numerous, roundish and emarginated.

Glabra. Great Tower Mustard with radical, dentated, hispid leaves, and those on the stalk are smooth, entire,

and furround the stalk. An. May.

Hirsuta. Hairy Tower Mustard with all the leaves hispid and those on the stalk surround it. Bien. June.

BRASSICA. CABBAGE.

The cup is tetraphyllous and erect, the leaves are lanceolated and linear, concavo-canaliculated, gibbous

at the base, erect, parallel and deciduous. The flower is tetrapetalous and cruciform, the petals are subovate, plain, patent, entire, and visibly attenuated into ungues almost the length of the cup. There are four ovate nectariferous glands of which one is placed between the shorter stamen and the pistil, and the other between the longer stamina and the cup. There are fix subulated erect filaments, and two of them are the length of the cup, and four are longer; the antheræ are erect and acuminated. The germen is round and the length of the stamina, the style is short and as thick as the germen, the stigma is headed and entire. The filiqua is long, roundish, depressed on both sides; the dissepimentum is roundish, with a prominent apex, is bilocular and has two valves, the valvules are storter than the diffepimentum. The feeds are numerous and globofe.

Orientalis. Perfoliate Cabbage with smooth cordate leaves surrounding the stalk; those towards the root are scabrous and entire, and the pods tetragonal. An. June.

Oleracea. Sea Cabbage with a round, fleshy, stalky root. By Bolton Sand sides, Lan. and at Arnside-Point. West. Bien.

Rapa, Turneps with a fleshy, depressed, orbicular

stalky root. Bien. April.

Napus. Wild Navew with a fuliform stalky root.

Among corn. Muy.

Erucastrum. Wild Rocket with dentato-pinnatisid leaves, a hispid stalk and smooth pods. On old walls. Per. May.

SINAPIS. MUSTARD.

The cup is tetraphyllous and patent, the leaves are linear, concavo-canaliculated, cruciform-patent and deciduous. The flower is tetrapetalous and cruciform, the petals are roundish, plain, patent, and entire; the ungues are erect, linear, and scarce the length of the cup. There are four nectariferous, ovate glands of which one is between the short stamen and the pistil, and one between the longer

longer stamina and the cup. There are six subulated, erect, silaments and two of them the length of the cup, but four are longer, and the antheræ are erecto-patent and acuminated. The germen is round, the style is the length of the germen and the height of the stamina. The stigma is headed and entire. The siliqua is oblong beneath, torose, scabrous and bilocular with two valves; the dissepimentum is commonly twice as long as the small valves, large and compressed. The seeds are numerous and globose.

Obs. The sinapis differs from the brassica in having

the patent cup and the ungues of the corolla erect.

Nigra. Common Mustard with smooth tetragonal pods.

An. June.

Alba. White Mustard with hispid pods, and an oblong

very long beak. An. Aug.

Arvensis. Wild Mustard or Charlock with many angled pods, toroso-turgid and longer than the beak. An. May.

RAPHANUS. CHARLOCK.

The cup is tetraphyllous and erect, the leaves are oblong, parallel, connivent, deciduous, and gibbous at the base. The slower is tetrapetalous and cruciform. The petals are obcordate and patent, the ungues are a little longer than the cup. There are four nectariserous glandules, one on each side between the short stamen and pistil, and one on each side between the longer stamina and cup. There are six subulated, erect silaments the length of the cup, and four the length of the ungues of the corolla and the antheræ are simple. The germen is oblong, ventricose, attenuated, and the length of the stamina; there is scarce any style, the stigma is headed and entire. The seed vessel is gibbous, smooth, ventricose and a little jointed, containing roundish smooth seeds.

Raphanistrum. White and Yellow flowered Charlock with round, jointed, smooth, unilocular pods. An. June, July.

BUNIAS. ROCKET.

The cup is tetraphyllous, the leaves ovato-oblong, patent and deciduous. The flower is tetrapetalous and cruciform, the petals are obovate, twice as long as the cup, the ungues are attenuated and erect. There are fix filaments the length of the cup, the two opposite ones are somewhat shorter, the antheræ are erect and bisid at the base. The germen is oblong and stigma obtuse. The pod is irregular, ovato-oblong with four angles, one or other of which is prominent and pointed, containing one or two roundish seeds.

Cakile. Sea Rocket with ovate, smooth, two edged pods. On the sea shore. An. June.

ISATIS. bWoad amount all

mi athlinos signi

The cup is tetraphyllous, the leaves ovate, patent, coloured, and deciduous. The flower is tetrapetalous and crusitorm; the petals are oblong, obtuse, patent, and attenuated into ungues. There are six erecto-patent silaments the length of the corolla, two of which are shorter than the rest, and the antheræ are oblong and lateral. The germen is oblong, two edged, compressed, the length of the shorter stamina without any style. The stigma is obtuse and headed. The pod is oblong, lanceolated, obtuse, compressed, edged, unilocular, with two valves, the small valves are shaped like a ship, compressed, keel shaped and deciduous. There is but one ovate seed in the center of the seed vessel.

Tinetoria. Woad with the leaves towards the bottom crenated, those on the stalks fagittated with oblong pods. In corn fields and the sides of fields between Bath and Bristol. On the road-side in Yealand Storrs, and in several other places in and about the Yealands, Lan. July.

BIJ NIAS. Rocker, see all are

onoldo-outro C R A M B E.

The cup is tetraphyllous, the leaves ovate, channelled, patent, deciduous. The flower is tetrapetalous, the petals are large, obtuse, broad, and patent; the ungues are erecto-patulent, and the length of the cup. There are six silaments, two the length of the cup, and four the length of the bissid apex. The antheræ are simple on the out branch of the silaments. The glandule is melliferous within the corolla and the longer stamina. The germen is oblong and the stamina thickish. The berry is dry, roundish, unilocular, and deciduous, containing one roundish feed.

Obs. Linn. The essential characteristic consists in

the filaments being bifid at the apices.

the would are of long, related parties, and

ing the length of the could would be drain and the

and I the florest thousand more living The

we valves abeliant valves are threed like a frie come

The Borne of the borne cow under the both

pods, in con polds and the files of fields be-

the another the the white rate Laryer at the a

Maritima. Sea Colewort with smooth leaves and stalk. On the sea shore and fandy places. Per. May

CLASS XVI.

C L A S S XVI.

MONADELPHIA.

This class is denominated Monadelphia because the stamina of the slowers are so interwoven as to form one body; or rather because the stamina are connected or coalesce at the bottom. The genera of this class, were formerly distinguished from the fruit alone, which not being found sufficient, recourse was had to the leaves, by many; but Linnæus has distinguished the genera by the cup, which is the principle characteristic and sixes the genus beyond a dispute.

The english plants of this class are divided into Decandria and Polyandria, and first of

DECANDRIA which comprehends plants with ten stamina.

GERANIUM. CRANESBILL.

acute, concave, and permanent. There are five obcordate, often ovate, patent, large petals. There are ten fubulated filaments, patent at the apices, alternately longer, but shorter than the corolla, with versatile oblong antheræ. The germen has five angles and is beaked; the style is subulated, longer than the stamina and permanent, and the sive stigmata are reslex. The fruit is beaked, the seeds are solitary, kidney-shaped, and often covered with an out coat, the arista or beard is very long and becomes spiral.

162 MONADELPHIA DECANDRIA

Cicutarium. Hemlock-leaved Cranesbill with many flowers on the peduncles, pentaphyllous cups, five stamina in each flower and obtuse, pinnate leaves. By

road-fides. An. April-June.

Moschatum. Musked Cranesbill or Muscovy with many flowers on the peduncles, pentaphyllous cups, five stanina in each flower; pinnate leaves, and pinnatistic cotyledons. In the road between Ormskirk and Liverpool, plentifully. I found it too in Yealand, but not much of it. About Old-Hall the seat of Mr Johnson, West. May.

Maritimum. Sea Cranesbill with many flowers on the peduncles, cordate, crenato-incife, villose leaves, and

procumbent stalks. Per. June, July.

Such as have ten fertile stamina.

Nodosum. Knotty Cranesbill with two flowers on each peduncle; the leaves on the stalks are three lobed, entire and ferrated, those towards the summits partly sessile. On the mountains of Cumberland. R. Sy. Per. July, Aug.

Phæum. Spotted Cranesbill with two flowers on each peduncle, alternate leaves, bearded cups, an erect stalk, and undulated petals. About Clapham and Ingleton,

Yorksh. April, May.

Sylvaticum. Mountain Cranesbill with two flowers on each peduncle, subulated, multifid, ferrated leaves, an erect stalk, and emarginated petals. In the fields of

Lan. West. Per. July, Aug.

Pratense. Crowfoot Cranesbill with two flowers on each peduncle, subpeltated, multipartite, rugose, pinnato-laciniated, acute leaves, and entire petals. Per. June, July.

Robertianum. Herb Robert with two flowers on each peduncle, and pilose ten-angled cups. On old walls

most frequent. Bien. April, June.

Lucidum. Shining Dovesfoot Cranesbill with two flowers on each peduncle, angulated, rugote cups, and round

five

MONADELPHIA DECANDRIA, 163

five lobed leaves. On houses, walls, and in shady places. An. June, July.

Rotundifolium. Round leaved Cranesbill with two flowers on each peduncle, entire petals the length of the cup, a proftrate stalk, and incife kidney-shaped leaves. On walls and houses and by hedges. About Bath and Briftol, between Battersea and Wansworth. Hudson. July.

Perenne. Perennial Dovesfoot Cranesbill with two flowers on each peduncle, the lower leaves are quinquepartite, multifid, and round, the upper leaves have three lobes, and an erect stalk. Per. May-Aug.

Molle. Common Dovesfoot Cranesbill with two flowers on each peduncle, the floral leaves alternate, a diffule, branchy stalk, and cups without any beards. An. May, June.

Pufillum. Small flowered Dovesfoot Cranesbill with two flowers on each peduncle, bifid petals, a proftrate stalk, kidney-shaded, palmated, linear, and acute leaves. An. fune.

Columbinum. Long stalked Dovesfoot Cranesbill with two flowers on each peduncle, quinquepartite-multifid leaves; acute fegments, fmooth capfules, and bearded cups. An. June.

Dissetum. Jagged leaved Dovesfoot Cranesbill with two flowers on each peduncle, quinquepartito-multifid leaves, emarginated petals the length of the cup, and villofe capfules. An. May-July.

Sanguineum. Bloody Cranesbill with one flower on each peduncle, quinquepartite leaves, trifid and orbiculated. Among rocks, and in dry meadows. In Cringlebarrowwood, Yealand, Lan. In Clawthrop woods near Burton, West. July, Aug.

Polyandria softy, pheated leaves, with it we angles, with peaunes

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164 MONADELPHIA POLYANDRIA.

POLYANDRIA comprehends such as have many stamina, and always more than twelve.

ALTHEA. MARSHMALLOW.

The cup is double, the exterior is monophyllous and divided into nine parts, that are very narrow and permanent. The interior is monophyllous, semiquinquisid: the segments are broader, more acute and permanent. There are five petals united at the base; obcordate and terminate in unequal, and plain divisions. The silaments are numerous and formed at the bottom in the shape of a cylinder; lax at the top, placed on the corolla with antheræ somewhat kidney-shaped. The germen is orbiculated, the style is cylindraceous and short. The stigmata are numerous, bristly and the length of the style. The arilli form a whorl about the receptacle which is in the shape of a pillar, are deciduous and open internally; containing solitary, kidney-shaped seeds.

Officinalis. Marshmallow with simple woolly leaves.

In marshes near the sea. Per. Aug.

LAVATERA. SEA TREE MALLOW.

The cup is double, the exterior is monophyllous, femitrifid, obtufe, fhorter, and permanent; the interior is monophyllous, femiquinquifid, more acute, more erect and permanent. There are five obcordate, plain, patent petals that coalefce at the base. The filaments are numerous, forming a cylinder at the base, lax towards the summit and inserted into the corolla having kidney-shaped antheræ. The germen is orbicular, the style cylindraceous and short, the stigmata are numerous from seven to sourteen, bristly, and the length of the style. The arilli form a depressed whorl about the columnar receptacle, are deciduous and open internally, containing solitary kidney shaped seeds.

Arborea. Sea Tree Mallow with a stalk like a tree, woolly, plicated leaves, with seven angles, with pedun-

cles thick fet and one flower from the joints. On the fea fhore. On Hurst-Castle over against the Isle of Wight, in Portland Island. R. Sy. Bien. Aug.

MALVA. MALLOW.

The cup is double, the exterior confifts of three leaves that are narrow, cordate, acute, and permanent, the interior is monophyllous, femiquinquifid, large, broad, permanent. The petals are five which coalefce at the base. are obcordate, and terminate in unequal divisions, and are plain. The filaments are numerous and coalefce into a cylinder, lax at the top and inferted into the corolla, having kidney-shaped antheræ. The germen is orbicular, the ftyle cylindraceous and fliort. The ftigmata are numerous, briftly, and the length of the flyle. The arilli form a depressed whorl about a columnar receptacle, are deciduous and open internally, containing folitary kidney-shaped seeds.

Obs. Malvæ T. The leaves are almost entire and

not villose.

Alcee T. The leaves are multifid and not villose.

Sylvestris. Common Mallow with an erect herbaceous, stalk, lobate, obtuse leaves, and both peduncles and petioli hairy. Bien. May-Oct.

Rotundifolia. Dwarf Mallow with a proftrate stalk, cordato-orbiculated leaves, and obsoletely five lobed.

An. June-Oct.

Parviflora. Small flowered Mallow with a patulent stalk, angulated leaves, the flowers at the wings of the leaves being in clusters, and cups smooth and patent. Found at Hithe in Kent. Bien. June.

Alcea. Vervain Mallow with an erect stalk, multipartite and rough leaves. In the North of Lancashire,

plentifully. July, Aug.

Jagged leaved Vervain Mallow with the Moschata. radical leaves kiciney-shaped and jagged, and those on the stalk quinquepartite and pinnato-multifid. Bien. Aug.

CLASS XVII.

On High Cellie over against the good Wight,

CLASS XVII.

MAEVA. MALLOW

cles thick for and one flower from the joints. On the

DIADELPHIA

This class comprehends all those plants with papilionaceous and hermaphrodite flowers, and leguminous feedvessels. This class is called diadelphia, because the Stamina form two distinct dissimilar bodies or filaments, which coalesce at the base; the one stands above the pistil, and the other surrounds it.

HEXANDRIA comprehends such as have fix stamina.

FUMARIA. FUMITORY.

o are almost craine and

HE cup is composed of two equal, lateral, erect, acute, small deciduous leaves. The flower is oblong, tubulated, and ringent, the palate is prominent, covering the faux. The upper lip is plain, obtuse, emarginated, and reflex. The nectarium is the basis of the upper lip, obtuse and prominent behind. The lower lip is like the upper in every part, but that the base is keel-shaped. The nectarium at the base of this is less prominent. The faux is tetragonal, obtuse, and perpendicularly bisid. There are two equally broad filaments, each within each lip, and acuminated. There are three antheræ that terminate each filament. The germen is oblong, compreffed and acuminated; the ftyle is short, the stigma is orbiculated, erect, and compressed. The filicula is unilocular and contains roundish feeds. ... busing bar stragsbphip Fumaria.

DIADELPHIA OCTANDRIA. 167

Fumaria Off. has a roundish silicula, and often has but one feed and is deciduous.

Officinalis, Fumitory with branchy feed veffels, that have but each one feed, and a diffuse stalk. An. April,

June.

Capreolata. Ramping Fumitory with branchy feed veffels, each containing one feed, and climbing leaves with fhort tendrils. In woods and hedges. An. Aug.

Claviculata. Climbing Fumitory with narrow pods, and

leaves with claspers or tendrils. An. June.

All the Fumitories are to be found in the north of Lancashire and south of Westmorland.

OCTANDRIA comprehends such as have eight stamina.

POLYGALA. MILKWORT.

The cup confifts of three fmall leaves which are ovate and acute, of which two are beneath the corolla and one above it, all being permanent. The flower is of the papilionaceous kind, and the number of petals is indeterminate. The wings are fubovate, plain, large, and placed on the out-fide of the corolla, and made of the dents of the cup, and are permanent. The vexillum is cylindraceous, tubulous and short, the brim is reflex, fmall and bifid. The keel is concave, compressed and ventricose towards the apex. There are eight stamina in two bodies included in the keel, terminated by eight fingle antheræ. The germen is oblong, the style is fimple and erect, terminated by a thick bifid stigma. The capfule is heart shaped, compressed with an acute margin, which is bilocular and has two valves containing fingle ovate feeds.

Vulgaris. Milkwort with branching crested flowers, fingle, trailing, herbaceous stalks, and linear spear-shap-

ed leaves.

The violet and flesh coloured of Boer. the white of Tourn. the major of BAUH. Pin. and the myrtle leaved of RAY,

168 DIADELPHIA DECANDRIA.

RAY, are only varieties and not distinct species. All very common in dry mountainous pastures. Per. May, June.

DECANDRIA comprehends such as have ten stamina.

SPARTIUM. BROOM.

The cup is monophyllous, cordato-tubulated with a very short margin at the top, and five small indentures, and coloured. The flower is papilionaceous and has five petals. The vexillum is almost heart-shaped, large and wholly reflex. The wings are ovate, oblong, fhorter than the vexillum and annexed to the stamina. The keel has two petals, is lanceolated, oblong, longer than the wings; the borders are hairy and connected together into which the stamina are inserted. There are ten unequal stamina growing together and visibly longer one than the other, the uppermost is very short, the lowest is divided into nine parts, and the antheræ are oblongish. The germen is oblong and hairy, the style is subulated, to the upper fide on which is annexed an oblong, villofe stigma. The legumen is cylindraceous, long, obtufe, and unilocular with two valves containing many kidney-shaped feeds.

Scoparium. Common Broom with fingle, trifoliate and

angular, unarmed branches. May, June.

GENISTA. GREEN-WEED.

The cup is monophyllous, small, tubulated, and bilabiated; the upper lip is bidentated and deeper divided; the lower lip is bidentated and nearly equal. The flower is papilionaceous. The vexillum is acute, and remote from the keel and the whole is reslex. The wings are oblong, lax, and shorter than the rest. The keel is straight, emarginated, and longer than the vexillum. There are ten stamina joined which emerge out of the keel, having simple antheræ. The germen is oblong, with

DIADELPHIA DECANDRIA. 169

with a fimple rifing style, and an acute involuted stigma. The legumen is roundish, turgid, unilocular with two valves, containing single kidney-shaped seeds.

Tinctoria. Green-weed, Dyer's Weed, or Wood-waxen with smooth lanceolated leaves, round, erect, striated

branches. July, Aug.

Anglica. Needle-furze, or Petty-whin with fingle spines, flower branches without spines and spear-shaped leaves. May, June.

ONONIS. REST HARROW.

The cup is quinquepartite and almost the length of the corolla; the segments are linear, acuminated, and a little arched, the slower being under the keel. The slower is papilionaceous, the vexillum is cordate, striated and depressed on the sides. The wings are oval and shorter by half than the vexillum. The keel is acuminated and commonly longer than the wings. There are ten silaments growing together, forming an entire cylinder, having simple antheræ. The germen is oblong and hairy, the style is simple and the stigma obtule. The legumen is like a rhomb, turgid, villose, unilocular, with two valves, containing a few kidney-shaped seeds.

Spinofa. Reftharrow or Cammock with fingle flowers on the branches, trifoliate leaves and prickly branches.

In barren pastures. Per. June-Aug.

Arvensis. Corn Restharrow or Cammock with double slowers on the branches, trifoliate leaves, and branches

without spines. Per. July, Aug.

Repens. Creeping Restharrow with diffuse stalks, erect branches, trifoliate leaves on the stalks, and ovate stipulæ. Near the sea shore. Per. June, July.

ANTHYLLIS. KIDNEY-VETCH, or LADY'S FINGER.

The cup is monophyllous, oblong, a little inflated and villose; the brim is divided into five unequal parts Z.

and is permanent. The flower is papilionaceous, the vexillum is long and reflexed on both fides, and the unguis is the length of the cup. There are two oblong wings fhorter than the vexillum. The keel is compressed and is the length of the wings and like them. There are ten filaments that grow together rising like a bow, and the antheræ are simple. The germen is oblong, the style is simple, and the stigma is obtuse. The legumen is roundish and covered by the cup, made up of two valves and contains one or two seeds.

Vulneraria. Kidney-Vetch or Lady's Finger. The Kidney-Vetch is herbaceous with unequal pinnate leaves, and double heads of flowers. In dry pastures. Per. July.

PISUM. PEA.

The cup is monophyllous, quinquifid, acute and permanent, and the two upper fegments are broader than the rest. The flower is papilionaccous, the vexillum is very broad, obcordate, reflexed, emarginated with a point, the two wings are roundish, connivent, and shorter than the vexillum. The keel is compressed and half moon-shaped and shorter than the wings. There are ten stamina in two bodies, the upper fingle one is plain and awl shaped, the other nine are cylindrical below the middle, awl shaped above, and cut, which are joined together and have roundish antheræ. The germen is oblong and compressed, the style is ascendent, triangular, and membranaceous. The stigma adheres to the upper angle which is oblong and villose. The legumen is large, long, roundish, or rather compressed with a pointed apex, is unilocular, and has two valves containing many globose seeds.

Marinum. Peas with footstalks plain on their upper side, an angular stalk, arrow-like stipulæ, and footstalks bearing many slowers. Found on the Sea shore. Per.

July.

OROBUS. WOOD PEASE, OF HEATH PEASE.

The cup is monophyllous, tubulated, obtuse at the base, oblique at the brim, quinquedentated, and very short; the three inferior denticles are more acute, the two fuperior are shorter, more deep and obtusely divided and wither away. The flower is papilionaceous, the vexillum is obcordate, reflex at the apex and the fides. The two wings are oblong and almost the length of the vexillum and bent like a bow and are connivent. The keel is evidently bifid, acuminated, rifing like a bow, the margins are connivent, parallel, compressed with a ventricose bottom. There are ten stamina, nine are joined and one separate with roundish antheræ, the germen is cylindrical and compressed, the style is slender, bended and erect, the stigma is linear and downy. The legumen is round, long with a pointed apex, which is unilocular with two valves containing many roundish feeds.

Tuberofus. Wood Peafe or Heath Peafe with lanceolated, pinnate leaves, half arrow-pointed, and a fimple stalk. In meadows and pastures, woods and hedges. Per. May.

Sylvaticus. Wood Vetch or Bitter Vetch with branchy, rough, decumbent stalks. In woods and hedges. Per. July.

LATHYRUS. CHICKLING VETCH.

The cup is monophyllous, femiquinquifid, campanulated, the fegments are lanceolated, and acute; the two upper ones are shorter and the lower longer. The flower is papilionaceous. The vexillum is obcordate, very large, reflex in the fides and apex. The wings are oblong, lunulated, short, and obtuse. The keel is in a half orb, the fize of the wings, but broader and opens in the middle. There are ten stamina, nine of them are joined and one is separate, and the antheræ are roundish.

Z 2

The germen is compressed, oblong, and linear. The style is erect, plain, broader towards the top, with an acute apex, and the stigma is villose. The legumen is very long, cylindraceous or compressed, acuminated with two valves, containing many cylindraceous globose, or a little angulated seeds.

Nissolia. Crimson Grass Vetch with single flowers on the peduncles, simple leaves and subulated stipulæ.

By the fides of fields. An. June, July.

Aphaca. Yellow Vetchling with fingle flowers on the peduncles, cirrhi without leaves, and cordate stipulæ.

Among hedges. An. June, July.

Hirfutus. Rough codded Chickling Vetch with peduncles bearing two flowers, and tendrils with two leaves, and lineari-lanceolated leaves, rough pods, and scabrous feeds. In corn fields. In several places in Essex. Dale. Per. July, Aug.

Peduncles that have many flowers.

Latifolius. Broad leaved Peafe-everlasting with many flowers on the peduncles, diphyllous cirrhi, and lanceo-

lated leaves. In woods and hedges. Per. July.

Sylvestris. Narrow leaved Pease-everlasting with many showers on the peduncles, diphyllous tendrils, and the leaves shaped like a sword, and that part between the joints membranaceous. In woods and hedges. About Rochester in Kent, between Bath and Bristol plentifully. Per. July, Aug.

Palustris. Marsh Chickling Vetch with many flowers on the peduncles, and many leaves on the tendrils, and lanceolated stipulæ. In a wood near Abington in Berks. BLACK's Spec. Bot. Upon the bogs in Charley Forest, near Bardon-hill, Leicestershire. Mr. Pultney. Phil.

Trans. Per. July, Aug.

Pratensis. Tare-everlasting or Common Yellow Vetchling with many flowers on the peduncles, very simple diphyllous tendrils, and lanceolated leaves. In woods, hedges, meadows, and pastures. Per. July, Aug.

VICIA. VETCH.

The cup is monophyllous, tubulated, erect, semiquinquifid, acute; the upper divisions are shorter and connivent, and all of an equal breadth. The flower is papilionaceous. The vexillum is oval, the unguis is broad and oblong, emarginated at the apex with a point, reflex at the fides. The two wings are oblong, erect, femicordate with an oblong unguis, shorter than the vexillum. The keel is shorter than the wings, the tail is oblong and bipartite, the ventricle is compressedly orbiculated. There are ten filaments, nine joined and one fingle, having erect, roundish, four-furrowed antheræ. The glandule of the nectarium within the compound stamen and germen is short, acuminated, and rifes out of the receptacle. The germen is linear, compressed and long; the style is slender, short, and rifes to the erect angle, the stigma is obtuse and bearded under the apex. The legumen is long, coriaceous, has two valves, is unilocular and terminated with a point, containing many roundish feeds.

Cracca. Tufted Vetch with many flowers on the peduncles which are imbricated, the leaves are lanceolated and hairy, and the stipulæ are entire. In woods and

hedges. Per. July, Aug.

Sylvatica. Tufted Wood Vetch with many flowers on the peduncles, oval leaves, and denticulated flipulæ. In the woods about Greta-Bridge, Yorksh. Near Kirkby Lonsdale Bridge, West. Per. July, Aug.

Sepium, Bush Vetch with erect pods on partial footstalks, ovate, entire leaves, the exterior ones decreasing. In woods, hedges, meadows, and pastures. Per. May.

ing by pairs, and fitting close to the stalks, blunt lobes to the leaves and spotted stipulæ. An. May, June.

Lathyroides. Strangle Tare, or Wild Vetch, with erect, fmooth, folitary pods, fitting close to the stalks, six lobed and the inferior ones obcordate. In dry pastures, especially in a fandy soil. An. May.

Lutea.

Lutea. Yellow Vetch* with reflex, hairy, folitary pods fitting close to the stalks, containing each five seeds, and the vexillum of the flower smooth. In meadows and pastures. An. June, July.

E R V U M. TARE.

The cup is quinquepartite, almost the length of the corolla, the segments are linear, acuminated, and nearly equal. The slower is papilionaceous. The vexillum is plain and slightly inflexed, roundish and large. The the wings are obtuse and shorter by half than the vexillum. The keel is shorter than the wings and acuminated. The silaments are in two distinct bodies, nine and one, having simple antheræ. The germen is oblong, the style simple, the stigma obtuse, and beardless. The legumen is oblong, obtuse, round, and knotty, with protuberant seeds which are four in number, and almost round.

Obs. This differs from the Vicia only in the stigma. Soloniense. Spring Tare with two flowers on peduncles that have tendrils, acuminated petioli and obtuse lobes to the leaves. In meadows and pastures, and more especially in chalky ground. On the chalky banks near Greenhithe in Kent. R. Sy. An. April, May.

Tetraspermum. Smooth Tare with two flowers on the

peduncles and four globose feeds. An. June.

Hirsutum. Hairy Tare with many flowers on the peduncles, and two globose seeds. An. June.

ORNITHOPUS. BIRD'S FOOT.

The umbel is fimple, the cup is monophyllous and tubulated, the brim quinquedentated, nearly equal and permanent. The flower is papilionaceous. The vexillum

It feems a reasonable conjecture, to imagine, that the early Vetches would make a rich and cheap sodder for cattle in the spring, if properly cultivated,

lum is obcordate and entire. The wings are ovate, straight, and scarce the size of the vexillum. The keel is compressed and small. There are ten silaments, nine and one with simple antheræ. The germen is linear, the style is setaceous and rising, bends like a bow, the stigma is a point. The legumen is subulated, round, shaped like a bow, having many joints connected together, but when ripe separate, each containing one roundish seed.

Perpufillus Bird's Foot with pinnate leaves, and pods shaped somewhat like a bow. Per. May—Aug.

HIPPOCREPIS. TUFTED HORSE-SHOE VETCH.

The umbella is fimple, the cup is monophyllous and quinquedentated; the two upper denticles are joined and less divided, and the cup is permanent. The flower is papilionaceous. The vexillum is cordate, fitting upon an unguis the length of the cup, the wings are ovatooblong and obtuse, the keel is shaped like the moon and compressed. There are ten filaments, nine jointed together, and one separate placed under the upper side having simple antheræ. The germen is slender, oblong, and ends in a fubulated ftyle, and has a fimple stigma. The pod is membranaceous, very long, and crooked, and cut into many parts from the under feam to the upper, each forming a roundish sinus with obtuse, three cornered joints, connected to the upper feam, containing a fingle oblong feed in each joint, shaped like a horse shoe.

Comesa. Tusted Horse-shoe Vetch with pods growing in clusters upon foot-stalks, whose outer border is turned inward. In chalky soil. On the chalky grounds about Gogmagog-hills and elsewhere in Camb. Also on the northern mountains. R. Sy, On the ledge of the scar, all the way between Scout-style and Honeybee-yate, two miles from Kendal, West. Wilson's Sy. July.

HEDYSARUM. ST FOIN OF COCK'S HEAD.

The cup is monophyllous, semiquinquisid, the segments are subulated, erect, and permanent. The slower is papilionaceous and striated. The vexillum is reslexo-compressed, ovato-oblong, emarginated and long. The wings are oblong, narrower than the rest and straight. The keel is straight, compressed, broader at the end, and bissed from the base to the gibbous point. There are ten silaments in two separate bodies, nine and one, bending towards the right angle, having roundish, compressed antheræ. The germen is stender, compressed, and linear, the style is subulated, and bended as the stamina, and the stigma is simple. The fruit is a jointed, compressed, roundish pod, formed of two valves and incloses a single, kidney-shaped seed.

Onobrychis. St Foin or Cock's Head with pinnate leaves, prickly pods having each one feed, and the wings of the flower shorter than the cups and an elongated

stalk. In Peckham-fields. July.

The French Honey Suckles are all of them of this genus according to LINNÆUS.

ASTRAGALUS. WILD LIQUORICE.

The cup is monophyllous, tubulated, quinquedentated, and acute; the lower denticles are gradually lefs. The flower is papilionaceous. The vexillum is longer than the reft, reflexed at the fides and emarginated, obtufe and straight. The wings are oblong and shorter than the vexillum, the keel is the length of the wings and emarginated. The filaments are nine and one, and almost straight, having roundish antheræ. The germen is roundish, the style is subulated and concealed under one side, the stigma is obtute. The pod is bilocular and the cells more inclined to one side and contain kidney-shaped seeds.

Glycyphyllos. Wild Liquorice or Liquorice Vetch with prostrate stalks, triquetrous pods bending like a bow,

and

and oval leaves longer than the peduncle. Near Cart-

mel-Well, Lan. Per. June, July.

Arenarius. Purple Mountain Milkwort with procumbent stalks, branchy, erect flowers, and downy leaves. In meadows and fandy pastures. On Gogmagog-hill, Newmarket-heath, Royston-heath. R. Sy. June, July.

TRIFOLIUM. TREFOIL.

The umbellula is often a small head in a common receptacle. The cup is monophyllous, tubulated, quinquedentated and permanent. The flower is papilionaceous, commonly permanent and withers in the cup. The vexillum is reflexed, the wings are shorter than the vexillum, and the keel is shorter than the wings. The siluments are diadelphous, nine and one, terminated by simple antheræ. The germen is partly ovate, the style is subulated and concealed under the upper side, the stigma is simple. The legumen is short with one valve and deciduous, containing but sew roundish seeds.

of pods, containing two feeds, and an erect stalk. About Foulshaw-house not far from Millthrop, West. Bien. June,

July.

Ornithopoides. Bird's Foot Trefoil with naked pods containing eight feeds, twice as long as the cup, and declining stalks. In fandy pastures. An. June.

Repens. White Trefoil or Dutch Clover with little heads, pods with four feeds, and a creeping stalk.

Per. May-Oct.

Hybridum. This is only a variety, and differs in the stalk which is adscendens, i. e. has the branches turned

back. Per. May-OEt.

Ochroleucon. Tellow flowered Trefoil with globose spikes, monopetalous flowers, the lowest dent of the cup being very long and erect, and the leaves on the stalk rough. In meadows and dry pastures. Bien. May, June.

Pratense. Purple Honey Suckle Trefoil Clover with A a spikes

fpikes somewhat hairy and surrounded with membrananaceous stipulæ, and monapetalous slowers. Per. May -OA.

Medium. Long leaved Purple Trefoil with terminatory, hairv, globose spikes and monopetalous slowers, the lobes of the leaves being lanceolated and entire, and the

stalk erect. Per. July.

Maritimum. Teafel headed Trefoil with hairy globose spikes, equal patulent cups, a stalk with the branches turned back, and the lobes of the leaves shaped like a wedge and hairy. On marshes. Observed by Dr Johnson in Dartford Saltmarsh. Found by Mr Hudson at Lighe and at Little-Holland in Essex. Near Bristol plentifully. Juy.

Arvense. Hare's Foot Trefoil with oval hairy spikes, and the dents of the cup equal and bristly. An. July,

Aug.

Striatum. Knotted Trefoil with ovate, lateral, feffile,

little heads, and round, striated cups. An. June.

Glomeratum. Round headed Trefoil with globose, sessile heads, and hairy, equal, patulent cups. In sandy pastures. I found it on Blackheath. An. June.

Scabrum. Oval headed Trefoil with ovate, fessile, little heads, and unequal hairy cups. In the Isle of Shepey.

An. June.

Subterraneum. Dwarf Trefoil with hairy heads and five flowers; the central involucrum is reflexed, rigid, and furrounds the fruit. About London plentifully. May.

Fragiferum. Strawberry Trefoil with roundish heads, inflated, bidentated, reflexed cups, and creeping stalks

Per. Aug.

Such as have the vexillum of the corolla reflex.

Agrarium. Hop Trefoil with oval, imbricated spikes, permanent vexilla, naked cups, and an erect stalk. An. June.

Procumbens.

Procumbens. Decumbent Trefoil with imbricated, oval fpikes, deflex, permanent vexilla, and procumbent stalks.

Per. June, Aug.

Filiforme. Small Trefoil with spikes somewhat imbricated, permanent vexilla bended backwards, and cups upon footstalks, and trailing or procumbent stalks. An. May, June.

LOTUS. BIRD'S FOOT TREFOIL.

The umbellula is fimple. The cup is monophyllous, round, permanent, and cut into five acute, equal, and erect parts. The flower is papilionaceous. The vexillum is roundiff, bended backwards, and the unguis is bended backward and is concave. The wings are roundiff, fhorter than the vexillum, broad and connivent. The keel is gibbous beneath, thut at the fummit, acuminated and rifes a little. There are ten flamina, nine joined and one feparate that rife up and have broadiff tops and finall antheræ. The germen is round and oblong, the ftyle rifes up, and the ftigma is an inflexed point. The pod is cylindraceous, very ftraight, ftuffed, longer than the cup, has many cells and two valves containing many cylindrical feeds.

Corniculata. Bird's Foot Trefoil with depressed heads, decumbent stalks, and patent, cylindrical pods. Per.

June-Aug.

The four others, mentioned by authors, are only varieties and not distinct species.

MEDICAGO. SNAIL TREFOIL.

The cup is monophyllous, straight, semiquinquisid, acute, and equal. The flower is papilionaceous. The vexillum is ovate, entire, with inflexed margins, and the whole is reflexed. The wings are ovato-oblong, affixed to the keel by an appendix, and the sides are connivent under the keel. The keel is oblong, bisid, patent, obtuse. The filaments are diadelphous and coalesce almost

Aa2

to the fummits, having small antheræ. The germen sits upon a style, is oblong, incurved, compressed, wrapped up in the filaments, and arises out of the keel; the vexillum is reslex, and ends in a short subulated style almost straight, and the stigma is very small. The pod is compressed, long and instead, containing many kidney-shaped or angulated seeds.

Falcata. Yellow Medick with branching foot-stalks, pods shaped like the moon, and a prostrate stalk. July.

Sativa. Lucern with branching foot-stalks, contorted pods, and a smooth, erect stalk. Per. June, July.

Lupulina. Melilot Trefoil with oval spikes, kidney-shaped pods with single seeds, and a procumbent stalk. In fandy meadows and pastures. An. May—Aug.

Arabica. Heart Trefoil or Clover with branching footftalks, spiny, snail-shaped pods, and a diffuse stalk. May.

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decombers trained trained to the seal dock. - Ther.

MEDICAGO. SOME TREEON.

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CLASS XVIII.

CLASS XVIII.

from the wings of the leaves, fleader, two edged

rating he John's Work with three

POLYADELPHIA.

This class comprehends such plants as have hermaphrodite flowers, and many distinct bodies of stamina. We have only one genus of english plants belonging to this class, namely, the Hypericum which is of the Polyadelphia Polyandria.

HYPERICUM. ST JOHN'S WORT.

the flowers and an herocous design of hell Per

permanent segments. The slower consists of five oblong-ovate, obtuse, patent petals, marked with dots according to the motion of the sun. The silaments are numerous, capillary, and unite at the base into five or three distinct bodies, having small antheræ. The germen is roundish. There are three (sometimes one, two, sive) simple styles that stand off each other, and the length of the stamina with simple stigmata. The capsule is roundish, having as many cells as there are styles, containing many oblong seeds.

Perforatum. St John's Wort with three styles to the flowers, a two edged stalk, obtuse leaves with pellucid spots. In thickets and hedges. Per. July.

382 POLYADELPHIA POLYANDRIA.

Humifusum. Trailing St John's Wort with three styles to the flowers, which are folitary and arise from the wings of the leaves, slender, two edged stalks, and smooth leaves. Per. July.

Pulchrum. Upright St. John's Wort with three styles to the flowers, glandulous cups, smooth, cordate leaves, entire bractere, and a round stalk. Per. July.

Androsamum. Tutsan or Park-leaves with three styles to the flowers, fruit like berries, and a two edged,

shrubby stalk. Per. July.

Montanum. Imperforate St John's Wort with three styles to the flowers, serrato-glandulous cups, an erect stalk and ovate smooth leaves. In woods and thickets. Per. July.

Hirsutum Tutsan or Hairy St John's Wort with three styles to the flowers, serrato-glandulous cups, an erect stalk, and ovate hairy leaves. Per. July.

Quadrangulum. St Peter's Wort with three styles to the flowers, and an herbaceous fquare stalk. Per.

Fully.

tiel of built a

Elodes. Marsh St Peter's Wort with three styles to the flowers, downy, round leaves, and a creeping stalk. In Sherley-common between Croydon and Wickham. On Hampstead-heath. Hudson. Per. July.

five obleng-oxate, obtufe, patent petals, marked with Bots according to the motion of the Lan. The flaments are munerous, capillary, and unite at the bater into fine, or there cluting bodies, having arrail antherms. The garmen is roundiffe. There are three

att. The capitale is roundiffy, having as lis as there are it less conjuming many on-

Areana. St Yola's Hart with three fieles to

will level from the thickers and hed on Aler Jak.

The bound Sans salvit signal Cal L A S S XIX.

C L A S S XIX.

SYNGENESIA.

This class is denominated Syngenesia, because the stamina in these plants grow together, or are formed into a single regular congeries. The general characters of this class are: The cup is the crown of the seeds, and stands on the fummit of the germen, and the compound flowers are very various, in regard to the nature of the floscules. 1. Some are composed of tubulose, hermaphrodite flowers in the disk, and of the same sort of tubulose hermaphrodite flowers in the radius. 2. Others are composed of tubulose hermaphrodite flowers in the disk, and of tubulose female flowers in the radius. 3. Some are composed of tubulose hermaphrodite flowers in the disk, and of tubulose neutral flowers in the radius. 4. Some have tubulofe hermaphrodite flowers in the disk, and ligulated hermaphrodite flowers in the radius. 5. Some are composed of hermaphrodite flowers in the disk, and of ligulated female flowers in the radius. 6. Some are composed of tubulose hermaphrodite flowers in the disk, and ligulated neutral flowers in the radius. 7. Some are composed of tubulose hermaphrodite flowers in the disk, and of naked and neutral flowers in the radius: And 8. Some are composed of ligulated female flowers in the disk, and ligulated hermaphrodite flowers in radius.

The stamina are five very short stender filaments, inserted into the tube of the slowers. The antherse are of the same number with the stamina, they are stender, erest and grow together at their sides, so as to form a tubular, cylindrical body of the length of the mouth of the slower, and divided into sive segments at the edge. The germen of the pistil is oblong, and placed under the receptacle of the slower. The style is capillary, erest, and of the length of the stamina,

and goes through the cylinder formed by the antheræ. The stigma is divided into two parts, which stand open and bend backwards.

These plants have properly no pericarpium, tho' in some few species there is a coreaceous crust placed about the seed. The feed is fingle and oblong, often of a quadrangular figure, and sometimes narrower at the base than any other part. However in different genera of this class they are of a very different appearance at the ends; some are crowned with a downy matter, composed of a great number of fingle short filaments placed circularly, or otherwise, on the head of the feed. In some the downy matter is radiated, in others it is ramose or branched, and in some it is supported on a pedicle, while in others it stands immediately on the feed. In some genera, the feeds have no down at all, but have a small corona formed of what was originally the cup of the flower. This is permanent, and divided usually into five fegments. In some the feed is wholly naked, having neither any down, nor this crown of a cup.

This class is divided from the fructification into

POLYGAMIA ÆQUALIS,
SUPERFLUA,
FRUSTRANEA,
NECESSARIA,
SEGREGATA, and
SYNGENESIA MONOGAMIA.

SYNGENESIA POLYGAMIA ÆQUALIS
comprehends such plants as have compound flowers, of which
the florets are all hermaphrodite.

TRAGOPOGON. GOAT'S BEARD.

HE common cup is simple, and formed of eight acute pointed, equal petals, joined at the base. The compound flower is imbricated and uniform; the hermaphrodite florets are numerous, and the exterior

ones somewhat longer. The proper slower consists of a single, ligulated, truncated petal, indented into five parts. There are five very short capillary filaments, with cylindraceous, tubulose antheræ. The germen is oblong, the style thread-like and of the length of the stamina, with two revolving stigmata. The cup is connivent, acuminated, the length of the seed, swells to a belly, and contains many oblong, angular, rough seeds, slender at both ends, and has feathery down. The pappus is feathery, plain, with about thirty two rays. The receptacle is naked, plain, and rough.

Pratense. Yellow Goat's Beard with an empalement equal to the rays of the flower, and entire closed leaves.

Common in meadows and pastures. Bien. June.

Porrifolium. Purple Goat's Beard with cups longer than the ray of the flower, entire naked leaves, and footstalks thicker at the upper part. In meadows and pastures. In many places of Cornwall. Dr Gunthrop. In the fields about Rose-Castle and Carlisle. R. Sy. In some meadows near Edmunton. Mr Hurlock. Black's Spec. Bot. In the marshes near Long-Reach below Woolwich. Mr Jervis. Bien. June.

PICRIS.

The common cup is double; the exterior is very large and confifts of five leaves, which are cordate, plain, lax, and connivent. The interior is imbricated and ovate. The compound flower is imbricated and uniform, and the small hermaphrodite flowers are numerous. The proper flower is monopetalous, ligulated, linear, truncated, and quinquedentated. There are four slender and very short filaments, and the antheræ are cylindraceous and tubulose. The germen is somewhat ovate, the style is the length of the stamina, with two resex stigmata. The seeds are solitary, ventricose, and obtuse, and the pappus is plumose.

Echnoides. Ox's Tongue with cups furrounded with a large involucrum. An. July, Aug.

Hieracioides. Yellow Succory, or Rough Hawkweed with

imbricated cups. An. July.

SONCHUS. SOW-THISTLE.

The common cup is gibbous with many linear, unequal scales. The compound flower is imbricated and uniform, the small hermaphrodite flowers are numerous and equal. The proper flower is monopetalous, ligulated, linear, truncated, and quinquedentated. There are five capillary and very short stamina, with a cylindraceous, tubulose anthera. The germen is sub-ovate, the style like thread, of the length of the stamina, having two restex stigmata. The cup is the seed vessel which is connivent in the form of a depressed, acuminated globe, containing solitary, oblong seeds. The pappus is hairy.

Oleraceus. Common Sow-Thistle with downy peduncles and rough cups. I found it in company with John Benson, Esq. and others among the ruins of Furness Abbey. In rough uncultivated places. An. June—

Aug.

Arvensis. Tree Sow Thistle with prickly peduncles and cups which are somewhat in an umbel, and heart-

shaped leaves towards the base. Per. Aug.

Palustris, Marsh Sow Thistle with prickly peduncles and cups which are somewhat in an umbel, and the leaves shaped like an arrow at the base. Found on the banks of the river Thames, not far from Greenwich and about Blackwall. R. Sy. Per. Aug.

LACTUCA. LETTUCE.

The common cup is imbricated and fomewhat cylindrical, with many acuminated valves. The compound flower is imbricated and uniform, the hermaphrodite florets are many and equal. The proper flower is monopetalous,

petalous, ligulated, and truncated. There are five very short capillary filaments with a cylindraceous, tubulose anthera. The germen is partly oval, the style slender and the length of the stamina, the sigmata are two and restex. The cup is connivent and ovato-cylindraceous, and contains solitary, ovate, acuminated, compressed seeds. The pappus is hairy. The stipes is long and attenuated on the lower part.

and a strong scent. In hedges and the sides of fields.

Bien. July, Aug.

Saligna. The least Wild Lettuce with hastato-linear leaves and the lower ones dented. Or Lettuce with the radical leaves linear and pinnate, and the segments dented. Found on chalky ground. An. Aug.

PRENANTHES. IVY-LEAVED WILD LETTUCE.

The common-cup has a fmall cup added, is cylindraceous and fmooth, and the scales are the number of the florets, but there are often a few very short unequal ones at the base. The compound flower is from the simple orb of the flosculi. The hermaphrodite flowers are from five to eight, placed in a simple orb. The proper flower is monopetalous, ligulated, truncated, quadridentated. There are five very short capillary silaments, with cylindraceous, tubulose antheræ. The germen is somewhat ovate, the style slender and longer than the stamina, the stigma is bisid and reslex. The cup is cylindraceous and slightly connivent, containing solitary, cordate seeds. The pappus is pilose.

Muralis. Toy-leaved Wild Lettuce with five flosculi

and lyrato-hastated leaves. July.

Wild Lettuce with a yellow flower. R. Sy. pa. 162.

LEONTODON, DANDELION.

The common cup is imbricated and oblong; the interior scales are linear, parallel, equal; the exterior are B b 2 fewer

fewer in number and often reflex at the base. The compound slower is imbricated and uniform; the hermaphrodite slorets are numerous and equal. The proper slower is monopetalous, ligulated, linear, truncated, and quinquedentated. The five silaments are very short and siender, with cylindraceous, tubulose antheræ. The germen is partly ovate, the style is slender and the length of the corolla, the two stigmata are bended back. There is no feed vessel, but the cup is oblong and straight. The seeds are solitary, oblong and scabrous. The down is plumose.

Taraxacum. Dandelion with the cup at the bottom reflex. The Dandelion with a narrower leaf of BAUHIN, and the Mountain Dandelion with a narrow leaf of RAY, are only varieties. In meadows and pastures. Per.

April-June.

Hispidum. Rough Dandelion with an erect rough cup, rough dentated, entire leaves, and forked briftles. May,

June.

Autumnale. Yellow Devil's Bit with smooth dented, entire leaves, erect cups, and squamose peduncles. Per. Aug.

HIERACIUM. HAWKWEED.

The common cup is imbricated and cylindrical with many linear and very unequal scales that are longitudinal, and one upon the other. The compound flower is imbricated and uniform; the hermaphrodite flowers are numerous and equal. The proper flower is monopetalous, ligulated, linear, truncated, and quinquedentated. The filaments are five, slender and very short, with cylindraceous, tubulose antheræ. The germen is partly ovate, the style is slender and the length of the stamina, having two stigmata bended backwards. The seeds are solitary, obtuiely tetragonal, and short: The pappus is pilose.

Alpinum. Mountain Hawkweed with oblong, entire, dented

dented leaves, a naked stalk, with one flower, and a hai-

ry cup. Per. July.

Pilosella. Common Creeping Mouse-ear with entire, ovate leaves, downy underneath, and a creeping stalk. An. May.

Such as have a naked stem and many flowers.

Dubium. Mouse-ear Hawkweed with entire, ovato-oblong leaves, creeping shoots and a naked stem with many flowers. Common on dry limestone pastures. An. July, Aug.

Auricula. Narrow-leaved Hawkweed with entire, lanceolated leaves, a naked stem with many flowers. In mountainous pastures near Dalehead not far from Grass-

mere, West.

Such as have leafy stalks.

Murorum. French or Golden Lungwort with a branchy stalk, radical, ovate, dented leaves. In woods and on old walls. On the rocks by the rivulet between Shap and Anna Well, West.

Paludosum. Succory-leaved Hawkweed with a paniculated stalk, smooth dented leaves surrounding the stalk, and rough cups. By Buckbarrow-well in Longsleddale six miles from Kendal, West. Wilson's Sy. Bien. July, Aug.

Sabaudum. Broad leaved bushy Hawkweed with an erect stalk, bearing many flowers, ovato-lanceolated, dented leaves, half surrounding the stalk. About Hampstead and Highgate near London. About Kendal, West. Wilson's Sy.

The Smooth leaved is only a variety, and is found near

Hullswater, West. Per. July, Aug.

Umbellatum. Narrow leaved bushy Hawkweed with linear leaves somewhat dented and slowers in umbels. Per. July, Aug.

CREPIS. BASTARD HAWKWEED.

The common cup is double, the exterior one is very short, open, and deciduous; the interior is ovate, simple, furrowed, and permanent, with narrow, connivent scales. The compound flower is imbricated and uniform, with many equal hermaphrodite florets; the proper flower is monopetalous, ligulated, linear, truncated, and quinquedentated. There are five slender and very short filaments, with a cylindraceous, tubulose anthera. The germen is somewhat oval, the style slender and of the length of the stamina, with two reslex stigmata. There is no feed vessel, but the cup becomes roundish and contains single oblong seeds, crowned with a long feathery down, and stands upon a little foot-stalk within the cup. The receptacle is naked.

Testorum. Smooth Succory Hawkweed with lanceolated fagittated fessile, smooth leaves and the lower ones dented. Common in meadows and pastures, and on old

walls. An. June-Oct.

Biennis. Rough Succory Hawkweed with pinnato-hastated rough leaves, the flower leaves being indented upwards, and the cups prickly. Bien: July-Ott.

Fatida. Stinking Hawkweed with pinnated, angulated leaves, and the foot-stalks dented. Bien. June, July.

HYOSERIS. SWINE'S SUCCORY.

The common cup consists of ten leaves, the scales are lanceolated, erect, equal, calyculated at the base with many short scales. The proper one is quinquepartite, very short, acute, permanent. The compound slower is somewhat imbricated and uniform, the hermaphrodite slorets are disposed in an orb. The proper slower is monopetalous, ligulated, linear, truncated, quinquedentated. There are sive very short, slender silaments, with cylindraceous, tubulose antheræ. The germen is somewhat oblong, the style slender and the length

length of the stamina, with two reslex stigmata. There is no seed-vessel, but the common cup is straight and contains single, oblongish, compressed seeds, the length

of the cup.

Minima. Small Swine's Succory with a naked, divided falk. In gravely foil. About Hampton Court plentifully. D. Doody. R. Sy. In a fand-pit on the right-hand going to the duke of Argyle's at Petersham, Surry. Dr Walmer. In the common fields at Weltham-stow, Esex. Dr Watson. In Tuddington-field near Hampton-Court. Black's Spec. Bot. An. May, June.

HYPOCHÆRIS.

The common cup is roundish, imbricated, and ventricose at the base; the scales are lanceolated and acute. The compound flower is imbricated and uniform, the hermaphrodite florets are numerous and equal. The proper one is monopetalous, ligulated, linear, truncated, and quinquedentated. The five filaments are slender and very short, having cylindraceous, tubulose antheræ. The germen is ovate, the style slender, and the length of the stamina, and the stigmata are restex. There is no feed vessel, but the cup is connivent and globosely acuminated, containing oblong, solitary seeds. The down is feathery and stands upon a little foot-stalk within the cup. The receptacle is paleaceous and the paleæ are linear and the length of the seeds.

Radicata. Long Rooted Hawkweed with dentato-finuated scabrous leaves, a branched, naked stalk, and squamous peduncles. In meadows and pastures. Per. May

—July.

Maculata. Spotted Hawkweed with a stalk almost naked, solitary branch, oblong, entire, dented leaves. On the banks of the Devil's Ditch near Reeke not far from Newmarket, R. Sy. Also on Bernuk-heath, Northamptonsh. Per. July.

Glabra. Smooth Hawkweed with oblong, imbricated cups

cups, a naked stalk, and dentato-sinuated leaves. About Bristol. Near Middleton in Warwicksh. R. Sy. Bien. July.

LAPSANA. NIPPLEWORT.

The common cup has another small cup, and is ovate and angulated; there are eight equal, linear, channelled, keel-shaped, acute scales of the tube, six at the base, imbricated, small and alternately less. The compound slower is imbricated and uniform; the hermaphrodite storets are equal and about sixteen in number. The proper slower is monopetalous, ligulated, truncated, and quinquedentated. There are sive slender and very short silaments with cylindraceous, tubulose antheræ. The germen is somewhat oblong, the style slender, and the length of the stamina; the stigma is bisid and restex. There is no seed vessel. The scales of the tube of the cup surround the adjoining seeds which are single and oblong.

Communis. Nipplewort with the cups of the fruit angulated, the peduncles stender and very branchy. In hedges and among limestone rocks. An. June, July.

CICHORIUM. SUCCORY.

The common cup is calyculated and cylindraceous; the eight scales are lanceolated, equal, forming a cylinder, five are incumbent and shorter. The compound slower is plain and uniform. The hermaphrodite slorets are twenty and placed in an orb. The proper slower is monopetalous, ligulated, truncated, and deeply quinquedentated. There are five capillary and very short filaments, with cylindraceous pentagonal, tubulose antheræ. The germen is oblong, the style thread-like, and the length of the stamina, with two stigmata turned back. There is no seed vessel, but the cup is cylindraceous and connivent in the apex, having solitary, compressed seeds with acute angles.

Intybus.

Intybus. Wild Succory with a fingle stalk, and indented, sinuated leaves, and commonly blue flowers. July, Aug.

ARCTIUM. BURDOCK OF CLOTBURR.

The common cup is globose and imbricated; the scales are lanceolated and end in long subulated awns, in the points shaped like a hook. The compound slower is tubulated and uniform, the hermaphrodite slorets are equal. The proper slower is monopetalous and tubulated, the tube is slender and long, the limb is oval and quinquisid, the segments are linear and equal. There are five capillary and very short silaments. The anthera is cylindraceous, tubulose, the length of the corolla, and quinquedentated. The germen is oblong with a villose apex, the style is slender and longer than the stamina and the stigma is bisid and reslex. There is no seed-vessel but the cup is connivent and contains single, pyramidal, and angular feeds.

Lappa. Burdock or Clotburr with heart-shaped leaves

without prickles on foot-stalks. Bien. July, Aug.

The four or five species, of other authors, are only varieties, and not distinct species according to Linn Eus.

SERRATULA. SAW-WORT.

The common cup is oblong, cylindraceous, and imbricated with lanceolated, acute, beardless scales. The compound flower is tubulose and uniform; the hermaphrodite florets are equal. The proper flower is monopetalous and infundibuliform; the tube is inflex, the limb is ventricose and quinquisid. The filaments are sive, slender and short, and the antheræ cylindraceous and tubulose. The germen is oval, the style slender, and the length of the stamina, having two oblong, resex stigmata. The seeds are single, somewhat ovate, having sometimes plumose, sometimes pilose down.

Cc.

TinEteria.

Tinsteria. Saw-wort with pinnatifid leaves, and the terminatory segment the largest, and all the leaves neatly serrated about the edges. Per. July.

Alpina. Mountain Saw-wort with ovate, rough cups. RAY calls this, The many flowered Gentle Thistle with a

narrow indented willow leaf.

Avensis. Corn Saw-wort or Way-Thistle with prickly, dented leaves. Per. July.

CARDUUS. THISTLE.

The common cup is ventricose and imbricated, the fcales are numerous, lanceolated, acuminated, and prickly. The compound flower is tubulofe and uniform. The hermaphrodite florets are nearly equal and reflex. The proper one is monopetalous and infundibuliform; the tube is very flender, the limb erect, the base oval and quinquifid; the fegments are linear and equal, but one more deeply divided. The filaments are five in number, flender, and very fhort; the anthera is cylindraceous, tubulofe, and the length of the corolla, with a quinquedentated mouth. The germen is oval, the ftyle flender and longer than the stamina. The stigma is fimple, fubulated, naked and emarginated. There is no feed-veffel, but the cup is fomewhat connivent and contains fingle obovate, tetragonal feeds. The down is feffile and very long.

Such as have decurrent leaves.

Lanceolatus. Spear Thiftle with decurrent hastato-pinnate, hispid leaves, divaricated segments, and prickly,

villose cups. Bien. July.

Nutans. Musk-Thiste with prickly, semidecurrent leaves, and cernuous slowers, and the scales of the cup patent towards the summit. About Black-heath. On the ropery by the sides of the road to the Glass-houses, New-castle upon Tyne, and on Sunderland Town-moor. Wilson's Sy. Bien. July.

Acanthoides.

Acanthoides. Welted Thiftle with finuated, decurrent leaves, prickly on the margin; the cups are on foot-stalks, fingle, erect, and villose. An. June, July.

The colour of the whole plant is grey or hoary,

WILSON'S Sy.

Crifpus. Thistle upon Thistle with sinuated, decurrent leaves, a prickly margin, aggregate flowers, and those at the end without a beard. In roads and on the sides

of ditches. An. June.

Palustris. Marsh-Thistle with linear, dented, decurrent leaves, a prickly border and erect, branchy flowers, and peduncles without prickles. The flowers are purple. Per. June, July.

Dissetus. English-Soft or Gentle-Thistle with lanceolated, decurrent leaves, denticles without prickles, but

prickly cups, Per. June, July.

Such whose leaves surround the Stalks.

Helenioides. Melancholy-Thistle with lanceolated, dented leaves, surrounding the stalks, unequal ciliated spines, and a stalk without prickles. On high mountains in Yorksh. West. Cumb. R. Sy. On a moor two miles from Croydon. In Longsleddale in a field called Wetherhowe, by the road-side near Tomshowe, about seven miles from Kendal, West. Per. June, July.

Marianus. Milk-Thistle with histato-pinnatistid leaves furrounding the stalks, cups without leaves, and channelled spines. The Carduus non maculatus of RAY, or the Lady's Thistle without Spots is only a variety according to LINNÆUS. Both are found about London. An. July.

Eriophorus. Woolly-headed-Thistle with sessile leaves, pinnatissid two ways, the segments alternately erect, and the cups globose and erect. About Bristol. In the chalk-pit-close at Cherry-Hinton, and by the road-sides in Huntingdonsh. pientifully. Mr MARTIN. Bien. July.

Acaulos. Dwarf Carline-Thistle without a stem, but C c 2. with

with a smooth cup. On dry pastures. On Blackheath near London. Per. July.

This plant according to RAY hath a purple flower.

ONOPORDUM. COTTON-THISTLE.

The common cup is roundish, ventricose, and imbricated; the scales are numerous prickly and prominent on every side. The compound slower is tubulose and uniform, the hermaphrodite slowers are equal. The proper slower is monopetalous and infundibuliform; the tube is slender, the limb erect, ventricose and quinquisid; the segments are equal, one only being more separated than the rest. There are sive capillary, very short silaments, having cylindraceous, tubulose antheræ, the length of the corolla and quinquedentated. The germen is oval, the style slender, and longer than the stamina, and stigma is crowned. The cup is slightly connivent and contains the seed. The down is capillary.

Acanthium. Cotton-Thistle with rough empalements, subulated scales and oval, oblong, serrated leaves.

Found in uncultivated places. Bien. July.

CARLINA. CARLINE-THISTLE.

The common cup is ventricose, radiated, imbricated; the scales are numerous, lax, acute, and the interior ones are very long, patent, shining, coloured, and placed in an orb. The compound flower is uniform and tubulose, and the hermaphrodite florets are equal. The proper flower is monopetalous, and infundibuliform; the tube is slender; the limb is infundibuliform and quinquisid. There are five capillary very short silaments, with cylindraceous tubulose anthera. The germen is short, the style slender, and length of the stamina. The stigma is oblong, bisid or entire. The cup unchanged contains a single taper seed, crowned with a branching plumose down.

Vulgaris.

Vulgaris. Wild Carline-Thiftle with a corymbose stalk bearing many flowers, which terminate the branches. Bien. June.

BIDENS. HEMP AGRIMONY.

The common cup is erect, the fegments are often equal, oblong, hollow, and channelled. The compound flower is uniform and tubulofe, the hermaphrodite florets are tubulofe. The proper one is infundibuliform, the limb is quinquifid and erect. There are five capillary, very short filaments, with cylindraceous, tubulofe antheræ. The germen is oblong, the style simple and the length of the stamina, having two oblong, reslex stigmata. The cup, unchanged, contains a single, obtuse, angulated seed. The down has two or more bristles which are oblong, straight, acute, and hooked backbards.

Tripartita, Trifid Water-hemp Agrimony with trifid leaves, foliaceous cups and erect feeds. In ditches and where water stands in winter, very common. An. July, Aug.

Cernua. Whole-leaved Water-hemp-Agrimony with lanceolated leaves furrounding the cups, cernuous flowers and erect feed. Found with the former. An. July, Aug.

Minima. The least Water-hemp Agrimony with lanceolated, sessile leaves, and slowers and seeds erect. An. July, Aug.

EUPATORIUM. HEMP OF DUTCH AGRIMONY.

The common cup is oblong and imbricated; the scales are lanceolated, erect, and unequal. The compound flower is uniform and tubulose. The hermaphrodite florets are unequal. The proper one is infundibuliform, the limb is quinquisid and patulent. There are five capillary and very short filaments with cylindraceous tubulose antheræ. The germen is very small, the style slender, long and bisid to the stamina, and the stig-

mata

mata are stender. The cup, unchanged, contains oblong feeds, with long plumose down.

Cannabinum. Hemp Agrimony or Dutch Agrimony with digitated leaves. A common plant. Per. July, Aug.

ecomprehends such plants as have the florets of the disk hermaphrodite, and those of the radius female.

TANACETUM. TANSY.

The common cup is hemispherical and imbricated, the scales are acute and compact. The compound flower is tubulose and convex. The hermaphrodite florets in the disk are numerous and tubulose, with some feminine ones in the ray. The proper hermaphrodite flower is infundibuliform, and the limb is quinquisid and reflex. The feminine is trifid and more deeply divided. There are five capillary, and very short silaments of the hermaphrodite flower, with a cylindraceous, tubulose anthera. The hermaphrodite germen is oblong and small. The style is slender and the length of the stamina. The stigma is bisid and turned back. The feminine germen is oblong, the style simple, with two stigmata turned back. The unchanged cup contains single, oblong, naked seeds.

Vulgare. Common Tansy with bipinnated, serrated leaves. Per. Aug.

ARTEMESIA. SOUTHERNWOOD.

The common cup is roundish and imbricated, and the scales are rounded and connivent. The compound slower has many tubulose, hermaphrodite florets in the disk, and seminine naked in the middle. The proper hermaphrodite flower is infundibuliform, and the limb is quinquisid. There are five capillary, hermaphrodite filaments and very short. The anthera is cylindraceous, tubulose,

and

and quinquedentated. The hermaphrodite germen is small, the style slender, and the length of the stamina, with a stigma bisid and turned back. The seminine germen is very small; the style like thread and longer than the hermaphrodite, but the stigma is like the hermaphrodite stigma. The cup is scarce ever changed and the hermaphrodite seeds are single and naked.

Campestris. Field Southernwood with linear, multified

leaves and procumbent wand-like stalks. Per. Aug.

Maritima. Sea Wormwood with multipartite, tomentofe leaves, cernuous branches, and the feminine flofeules by threes. Common on the fides of ditches near the feafhore. Per. Aug.

Absinthium. Common Wormwood with multifid, com-

ceptacles. Per. Aug.

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Vulgaris. Mugwort with pinnatifid, plain, cut leaves, downy underneath, simple branches, oval flowers, and five flowers in each ray. Per. Aug.

GNAPHALIUM. CUDWEED.

The common cup is rounded and imbricated, the scales are oval, connivent and more lax towards the summits. The compound flower consists of tubulose hermaphrodite storets, sometimes mixed with apetalous seminine. The proper hermaphrodite is infundibuliform: The limb is quinquisid and reflex, and if there are any seminine they are without flowers. The hermaphrodite silaments are sive, very short and hairy with cylindrace-ous, tubulose antheræ. The germen is oval, the style slender, and the length of the stamina, with a bissid stigma. The seminine germen is oval, the style slender and the length of the hermaphrodite, the stigma bissid and restex. The cup is permanent and shining. The hermaphrodite seeds are single, oblong, small, and crowned with down.

Dioicum. Mountain Cudweed or Cat's Foot with a very simple stalk, simple corymbus and procumbent twigs or shoots. On the mountains of Lan. West. Yorksh. and Cumb. On Newmarket-heath not far from Bottle-sham-beacon. On Bernak-heath in Lincolnsh. Ingleborough-hill in Yorksh, and in many other places. On Kendal-fell near Scout-style, West. On Yealand Common, Lan. Per. May, June.

Margaritaceum. American Cudweed with linear, lanceolated, acuminated leaves and a branchy stalk towards

the top, and fastigiated corymbuses. Per. Aug.

Luteo-album. Jersey Cudweed with hairy, creeping, blunt leaves, shaped like a sword, and half surrounding the stalks and conglomerated flowers. In the Isle of Jersey on dry banks and walls very common. R. Sy. An. July, Aug.

Sylvaticum. Upright Cudweed with a fimple stalk, and flowers thin set. In fandy pastures very common. On

Hampstead-heath very common. Bien Aug.

Uliginosum. Black headed Cudweed with a diffuse, branchy stalk, and terminatory flowers thickset. Common where water stands in winter. An. Aug.

CONYZA. FLEABANE.

The common cup is imbricated, oblong, squamose; the scales are acute and the exterior ones patent. The compound flower is tubulose and consists of many tubulose hermaphrodite florets in the disk, and seminine apetalous roundish ones in the ray; the hermaphrodite florets are funnel-shaped and cut into five parts at the brim, the seminine is sunnel-shaped and cut into three parts. The hermaphrodite florets have each five hairy, short filaments with cylindrical, tubulose antheræ. The hermaphrodite germen is oblong; the style slender, and the length of the stamina, with a bisid stigma. The feminine germen is oblong, the style slender and the length of the others, having two slender stigmata. Both florets

florets are fucceeded by oblong, folitary feeds with fim-

ple down.

Squarrosa. Plowman's Spikenard or Fleabane with acute, lanceolated leaves, and an annual corymbose stalk. On dry mountains. On Yealand Common on the side of the high rocks, Lan. Per. July, Aug.

ERIGERON. FLEABANE.

The common cup is oblong, cylindrical, and imbricated, with fubulated, erect scales, gradually longer. The compound flower is radiated and confifts of tubulofe, hermaphrodite florets in the difk, and ligulated feminine in the ray. The hermaphrodite is funnel-shaped with a quinquifid brim. The feminine are ligulated, linear, subulated, erect, and commonly entire. The hermaphrodite filaments are hairy, very short, and five in number, having cylindrical, tubulofe antheræ. The hermaphrodite germen is very fmall and crowned with long down, the style is slender, and the length of the down having two oblong ftigmata turned back. The feminine germen is very flender with down the length of the corolla; the style is hairy and the length of the down with two very slender stigmata. The cup is connivent and has oblong fmall feeds and long down.

Acre. Blue flowered Fleabane with alternate peduncles

with one flower. In dry pastures. Per. July, Aug.

Canadense. Canada Fleabane with a paniculated stalk and slowers. This is the Canada Fleabane of Ray with a white flower. In rough uncultivated places about London in abundance. An. Aug.

TUSSILAGO. COLT'S-FOOT.

The common cup is cylindraceous, the scales are lanceolated, linear, equal, and fifteen or twenty in number. The compound flower is various. In some all the hermaphrodite florets are tubulose, in some there are no feminine, in others they are ligulated. The proper hermaphrodite

maphrodite flower is funnel-shaped, the brim is quinquisid or quadrisid, acute, reslex, and longer than the ray. There are five hermaphrodite, hairy, very short silaments with a cylindrical tubulose anthera. The germen in both is short, the style thread-like and longer than the stamina, having a thickish stigma and the feminine a bisid stigma. The cup contains a single, oblong, compressed seed crowned with hairy down.

Farfara. Common Coll's-Foot with an imbricated stalk, bearing a single slower, cordate, angulated, denticulated

leaves. Per. March.

Hybrida. Long-stalked Butter-bur with an oblong thyrse, and many naked seminine stoscules. Near Lough-borough in Leicestsh. Mr Hill. Per. March.

Petasitis. Common Butter-bur with an oval thyrse and

all the floscules hermaphrodite. Per. March, April.

SENECIO. GROUNDSEL.

The common cup is furnished with another small cup and is conical and truncated. The scales are subulated, cylindrical, contiguous, equal, and a few cover the base like tiles, having deadly apices. The compound flower is higher than the cup. The hermaphrodite florets are tubulose and numerous in the disk, and the feminine are ligulated in the ray. The proper hermaphrodite is funnel-shaped, the brim is reflex and quinquisid, the feminine, when there are any, are oblong and obsoletely tridentated. There are five slender, small, hermaphrodite silaments, with a cylindrical, tubulose anthera. The germen in both is oval, the style is slender and the length of the stamina, having two oblong stigmata turned backward. The cup is connivent and contains single, oval seeds and hairy long down.

Obf. Senecio Turn. wants the common ray of the co-

rolla, which the Jacobaa of Turn. has.

Vulgaris. Common Groundsel or Simson with naked corollæ, pinnated, sinuated leaves surrounding the stalks and thin set flowers. An. May.

Such as have radiated flowers, and the radius turned back.

Sylvaticus. Mountain Groundsel with the corollæ turned back, pinnatifid, denticulated leaves, and a corymbose, erect stalk. Near Hornsey and on Black-heath. An. July.

Viscosus. Cotton Groundsel with florets turned back, viscid, pinnatifid leaves, and loose scales the length of

the cup. An. June.

Such as have radiated flowers, patent radius, and pinnatifid

Jacobsea. Common Ragwort with radiated flowers, pinnatifid leaves shaped like a harp, jagged segments

and an erect stalk. Per. July.

Aquaticus. Water Ragwort with radiated flowers, dented leaves, those towards the root oval, those on the stalk pinnatisid, and the outward segment largest. Per. July, Aug.

Erucifolius. Hoary perennial Ragwort with radiated flowers, dented, pinnatifid, hoary leaves, and an erect

Stalk. Per. July.

Such as have undivided leaves.

Paludosus. Marsh Ragwort or Bird's Tongue with radiated flowers, leaves shaped like a fword, acutely ferrated underneath, villose and an erect stalk. Per. Aug.

Sarrasenicus. Broad leaved Ragwort with radiated florets, corymbose flowers, lanceolated, serrated leaves.

Per. July, Aug.

ASTER. STARWORT.

The common cup is imbricated, the compound flower is radiated. The hermaphrodite florets are numerous in the disk and funnel-shaped, with a quinquisid patulent brim. The female florets are ligulated, lanceola-

Dd2

ted, and tridentated. The hermaphrodite filaments are five which are hairy and very short, with cylindrical tubulose antheræ. The germen in both is oblong, the style like thread, the stigma bifid and patent in the hermaphrodite, and there are two oblong stigmata in the feminine. The seed is single, oblong, and oval, crowned with hairy down.

Tripolium. Sea Starwort with entire, fleshy, lanceolated smooth leaves, unequal branches and corymbose

flowers. Per. Aug.

SOLIDAGO. COMMON GOLDEN-ROD.

The common cup is oblong and imbricated, the scales are oblong, narrow, acuminated, and connivent. The compound flower is radiated. The hermaphrodite florets which compose the disk, are numerous and tubulous. The feminine which compose the rays are ligulated and less than ten in number, commonly five. The proper hermaphrodite flower is funnel-shaped, and the brim is cut into five broad points, the feminine is ligulated and tridentated. There are five hairy, short filaments, having cylindrical antheræ. The germen in both is oblong, the style like thread, and the length of the stamina. The hermaphrodite stigma is bisid and patent, the feminine has two stamina turned backwards. There is a single, oval, oblong seed crowned with hairy down.

Virgaurea. Common Golden Rod with a flexible angulated Italk, paniculated, erect branches set close to each other. In woods and hedges. In most of the woods

about Yealand, Lan. Per. Aug.

Cambrica. Welsh Golden Rod with linear, lanceolated leaves, that are partly serrated and somewhat hoary and a corymbose panicle at the end. Per. June.

INULA. ELECAMPANE.

The common cup is imbricated, composed of loose, spreading, small leaves, the exterior being the broadest, but all of an equal length. The compound flower is radiated

radiated and broad. The hermaphrodite florets are very numerous in the difk. The female florets in the ray are ligulated and numerous. The proper hermaphrodite flower is funnel-shaped, erect, and cut into five parts at the extremity. The proper female flower is tongue-shaped, narrow, and entire. There are five short, slender, hermaphrodite filaments, having cylindrical antheræ, that coalesce at the top, each in the bottom ending in two bristles the length of the filaments. The hermaphrodite germen is long, the style slender and the length of the stamina, and the style slender and the length of the stamina, and the stigma is bisid and erect. The feminine style is semibisid. The cup contains a single, narrow, four cornered seed, crowned with a down of the same length with the seed.

Helenium. Elecampane with rugose, oval leaves, hoary underneath, and the scales of the cup oval. In Essex frequently. In several closes about Yealand, Lan. Per.

July, Aug.

Dysenterica. Middle Fleabane with oblong leaves, a rough paniculated stalk, and the scales of the cup like

briftles. Per. Aug.

Pulicaria. Small Fleabane with undivided leaves furrounding the stalks, and a prostrate stalk. An. Aug.

Sep.

Crithmoides. Golden Sampire with fleshy, three forked, linear leaves. In a marsh near Hurst-Castle, over against the Isle of Wight. Per. Aug.

BELLIS. DAISY.

The common cup is simple and erect with small leaves, from ten to twenty, placed in a double series. The compound flower is radiated and the hermaphrodite florets are numerous, tubulose in the disk, and the seminine ligulated in the ray, and are more in number than the leaves of the cup. The proper hermaphrodite flower is funnel-shaped, and cut into five parts at the brim. The feminine is ligulated, lanceolated, and scarcely tridentated.

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tridentated. There are five hairy, short, hermaphrodite filaments, with cylindrical, tubulose antheræ. The hermaphrodite germen is oval, the style simple and the stigma emarginated. The feminine germen is oval, the style slender with two stigmata. The seed is single, oval, and compressed without down.

Perennis. Common Daisy with a naked stalk. Per.

March-Aug.

CHRYSANTHEMUM. CORN MARIGOLD.

The common cup is imbricated and hemispherical, the scales lay close upon each other, the interior ones gradually larger. The compound flower is radiated, the hermaphrodite florets are numerous and tubulose in the disk, and the seminine are more than twelve in the ray. The proper hermaphrodite is funnel-shaped, quinquisid, broad, and the length of the cup. The seminine is ligulated, oblong and tridentated. There are sive hairy, very short silaments with cylindrical, tubulose antheræ, shorter than the corolla. The germen is oval, the style like thread and longer than the stamina, having two stigmata turned backwards. The seed of both species is single, oblong, and naked. The receptacle is naked, dotted, and convex.

Segetum. Corn Marigold with leaves surrounding the stalk, the upper ones jagged, and those beneath den-

ted and ferrated. An. June, July.

Leucanthemum. The greater Daify or Ox-eye with oblong leaves furrounding the stalks, those towards the top serrated, and those beneath dented. Per. May.

MATRICARIA. FEVERFEW.

The common cup is hemispherical, the scales linear, imbricated, and nearly equal. The compound flower is radiated, the hermaphrodite florets are tubulose, numerous in the disk, and the seminine are many in the ray. The proper hermaphrodite is funnel-shaped, quinquisid, and

patent,

SYNGENESIA POLYGAMIA SUPERFLUA. 207

patent, the feminine is oblong and tridentated. There are five hermaphrodite stamina which are hairy and very short, with a cylindrical, tubulose antheræ. The germen in both is oblong and naked; the style is like thread and the length of the stamina, and the hermaphrodite stigma is bisid and patent, the seed is single and oblong without any down.

Parthenium. Feverfew with plain compound leaves, oval, cut fegments, and ramose peduncles. Per. June.

Chamomilla. Corn Feverfew with conical receptacles, patent rays, naked feeds, and scales upon the cup equal. An. June.

Suaveolens. Sweet-scented Feversew with conical receptacles, deflex rays, naked seeds, and the scales of

the cup equal. An. May.

Inodora. Field Feverfew with hemispherical receptacles, patent rays, and feed crowned with a margin.

Along the road to Chelsea. R. Sy. An. Aug.

Maritima. Sea Feverfew with hemispherical receptacles, sleshy, bipinnate leaves, concave above, and keel-shaped beneath. Per. July.

ANTHEMIS. CAMOMILE.

The cup is hemispherical, and the scales are linear and nearly equal. The compound flower is radiated, the hermaphrodite florets are tubulose and numerous in a convex disk. The feminine are more in the ray. The proper hermaphrodite floret is funnel-shaped, erect, and cut into five parts at the brim. The feminine is ligulated, lanceolated, and sometimes tridentated. The germen is oblong, the style slender and the length of the stamina, having two resex stigmata. The seed is single, oblong, and naked.

Nobilis. Sweet scented Camonile with pinnate, compound, narrow-pointed, hoary leaves. In Cornwall plen-

tifully. Per. July, Aug.

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Cotula. Stinking May-weed with conical receptacles, briftly chaff, and naked teeds. Common in wafte places.

An. June, July.

Arvensis. Corn Camomile with conical receptacles, briftly chaff, and crowned, bordered seeds. Found in the gravel pits in Peckham-fields, and in barren stubble-fields between Eltham and Shooter's-hill. WILSON'S Sy. Bien. July.

Maritima. Sea Camomile with pinnate, indented, fleshy leaves, a branchy, prostrate stalk, and downy

cups. In fields near the fea-shore. Per. Aug.

Tinetoria. Common Ox-eye with serrated, bipinnate leaves, downy underneath, and a corymbose stalk. Found on a bank near the river Tees, not far from Sogburn in the Bishoprick of Durham. R. Sy. Per. July.

ACHILLEA. YARROW OF MILFOIL.

The compound cup is oblong, oval, and imbricated, and the scales are oval, acute, and connivent. The compound flower is radiated, the hermaphrodite florets, in number from five to sixteen, are tubulose in the disk. The feminine are ligulated and from five to ten in the ray. The proper hermaphrodite flower is infundibuliform, quinquisid, and patulent. The feminine is ligulated, obcordate, patent, and trisid, the middle segment being the least. The five hermaphrodite filaments are hairy and very short, having cylindraceous, tubulose antheræ. The germen is small, the style slender, and the length of the stamina, with an obtuse, emarginated stigma. The seed is contained in the cup, and is single, oval, and surnished with down.

Millifolium. Common Yarrow or Milfoil with naked, bipinnate leaves, and dented, linear fegments. Per.

May, June.

Ptarmica. Sneeze-wort with lanceolated, acuminated, ferrated leaves. Per. Aug.

SYNGENESIA POLYGAMIA FRUSTRANEA comprehends such plants as have the storets of the disk hermaphrodite, and those of the radius neuter, and all radiated.

CENTAUREA. BOTTLES.

The common cup is imbricated and roundish, the fcales are variously terminated. The compound flower is flosculose and difform; the hermaphrodite florets are numerous in the disk, the feminine not so numerous in the radius but larger and lax. The proper hermaphrodite flower is monopetalous with a flender tube, the limb is ventricose, oblong, erect, and terminated by five linear, erect fegments. The feminine is monopetalous, the tube flender, bended back, and gradually larger; the limb is oblong, oblique, and unequally divided. The five hermaphrodite stamina are hairy and very short. having cylindraceous, tubulofe antheræ, the length of the florets. The germen is finall, the ftyle flender. and the length of the stamina; the stigma is very obtuse. The feminine germen is very fmall, scarce any style and no ftigma. The cup which is connivent, contains fingle hermaphrodite feeds, and a plumofe or hairy down.

Cyanus. Blue-bottles with ferrated cups, linear, entire leaves, and the lower ones dented. Among the corn below Yealand-Redman, Lan. Among corn-fields that have

been plowed many years fuccessively. An. July.

Scabiosa. Great Knapweed or Matfellon with ciliated cups, pinnatifid leaves and lanceolated segments. In

pastures. Per. June, July.

Jacea. Common Knapweed or Matfellon with scaley cups, lanceolated leaves and those towards the root sinuated and dented. In meadows and pastures. Per. July, Aug.

- Calcitrapa. Star Thistle with thorny cups, sessile, lateral, pinnatissid, linear, dented leaves, and a hairy stalk.

An. July.

Solftitialis.

210 SYNGENESIA POLYGAMIA NECESSARIA.

Solstitialis. St Barnaby's Thistle with thorny, solitary cups, the leaves on the branches decurrent and unarmed, and those on the stalk lyrato-pinnatistic. By the hedges not far from Cirencester in Gloucestersh. Dr Bobard. R. Sy. An. July.

SYNGENESIA POLYGAMIA NECESSARIA comprehends such plants as have the flowers of the disk male, and those of the radius semale.

OTHONNA. RAGWORT.

The common cup is very fimple, monophyllous, and obtufe at the base; acute, equal, and divided into eight or twelve fegments. The compound flower is radiated; there are many hermaphrodite florets in the difk. The feminine florets in the ray are the fame in number as the fegments of the cup, often eight. The proper hermaphrodite flower is tubulofe, quinquedentated, and fcarce longer than the cup. The feminine is ligulated, lanceolated, longer than the cup, tridentated and reflex. There are five hairy very short stamina, with cylindraceous, tubulofe antheræ the length of the florets. The hermaphrodite germen is oblong, the style slender, commonly longer than the stamina; the stigma is bisid and fimple, but the feminine stigma is reflex and larger. The cup is permanent having fimple, oblong, naked or pappous feeds.

Palustris. Marsh Fleabane with lanceolated, dentated, sinuated leaves. In fens, ditches, and mosses. About Pillin Moss, Lan. Burton Moss, West. Per. Aug.

Integrifolia. Mountain Ragwort with lanceolated, denticulated, hairy leaves, and flowers in umbels. Per. June

FILAGO. CUDWEED.

The common cup consists of imbricated awns, containing many hermaphrodite floscules in the disk, and single feminine floscules in the radius, among the lower scales

SYNGENESIA POLYGAMIA NECESSARIA.211

scales of the cup. The hermaphrodite florets are funnel-shaped, the limb is quadrifid and erect, the feminine are scare conspicuous, being slender, narrow, and bisid in the brim. There are four hairy small stamina, with a cylindraceous anthera, cut into four parts at the points. There is fcarce any hermaphrodite germen, the ftyle is simple and the stigma acute and bisid; the feminine is fomewhat large and depressed, the style slender, acute, and bifid. The feminine feeds are oval, fmooth, and fmall without any down.

- Maritima. Sea Cudweed which is downy, has a branchy corymbus and oblong, obtufe, crenated leaves. On the fand at Abermeney-ferry in the Isle of Anglesea, where the common people call it Calamus Aromaticus: Also on the gravelly shore between Pensance and St Michael's Mount in Cornwall. Found by Mr Johnson in my company on the common above Dixis facing the fea shore,

West. An. July, Aug.

Germanica. Common Cudweed with pyramidal, pentagonal cups from the joints, a dichotomous stalk somewhat erect. In barren meadows and pastures. An.

June, July.

LIOLVA

Montana. The least Cudweed with conical terminatory flowers from the joints, and an erect dichotomous stalk. On fandy meadows and pastures. An. June, July.

Gallica. Corn Cudweed with fubulated, axillary flowers and an erect, dichotomous stalk. Among corn in fandy grounds about Castle-Hevingham in Essex. R. Sy. An. June, July.

oblong cylinder, opening five ways at the bafe. The secretor is acute, the figle cylindraceous and the length

SYNGENESIA POLYGAMIA SEGREGATA, of this order we have no english plants.

entire leaves and a neked falls. In Manufermere Meter an feveral order lakes, both in Camb. and Mak-E e 2. SYNGENESIA

min. Waster Cladies with linear, biloguist,

SYNGENESIA MONOGAMIA comprehends
fuch plants as have simple flowers.

fooler of the cupy Tile northand

JASIONE. HAIRY SHEEP'S SCABIUS.

The common cup is monophyllous, alternately narrower, having many flowers upon fhort peduncles and is permanent. The proper cup is quinquifid and permanent. The proper flower is pentapetalous and the petals are lanceolated, erect, and connected at the base. The germen is roundish, the style slender and the length of the corolla, with a bifid stigma. The capsule is roundish, quadrangular, bilocular, and crowned with its own cup, containing many oval feeds.

Montana. Hairy Sheep's Scabius with lanceolated, li-

near leaves, flightly ferrated. June, July.

LOBELIA. WATER GLADIOLE.

The cup is monophyllous, quinquedentated, very finall and withers away, the denticles are nearly equal, the upper two being rather more erect. The flower is monopetalous and fomewhat ringent, the tube is cylindraceous, longer than the cup, and divided longitudinally. The limb is quinquepartite, the fegments lanceolated, the two uppermost being lefs, more reflex, deeper divided and forming an upper lip; the three inferior ones are more patent and often larger. There are five subulated stamina the length of the tube of the petal, and the antheræ grow together in the form of an oblong cylinder, opening five ways at the base. The germen is acute, the style cylindraceous and the length of the stamina, and the stigma is obtuse and hispid. The capsule is oval, bilocular, opening at the apex, and surrounded with a cup, containing many finall feeds.

Dortmanna. Water Gladiole with linear, bilocular, entire leaves and a naked stalk. In Winandermere-Water and in several other lakes, both in Cumb. and West.

WILSON'S Sy. Per. July, Aug.

SYNGENESIA MONOGAMIA. 213

Swiftib berento VITO L A. Vroler.

The cup confifts of five short, oval, oblong, erect leaves, acute at the apices, obtuse at the base, and differently ranged in different species. The corolla is ringent and consists of five unequal petals. The upper petal is broad, obtuse, and indented at the point, with a horned nectarium at the base, the two side petals are opposite, the two lower are larger, rising, and resexed. There are five small stamina annexed as appendages to the entrance of the nectarium, having obtuse antheræ, sometimes connected. The germen is roundish with a slender style, prominent beyond the antheræ and crowned with an obtique stigma. The fruit is oval, three cornered, obtuse, and composed of three valves and one cell, having many oval seeds affixed to the valves.

Such as have mar stalks

he nechanism is monophyllous, thaped like a hoed,

Odorata. Purple sweet Violet, White Violet without stalks, heart-shaped leaves, and creeping shoots. It grows by hedges and on the banks of ditches. Per. March.

Hirta. Hairy Violet without Stalks, heart-shaped, hai-

ry, flinging leaves. Per. Marchan vill

Palustris. Marsh Violet without stalks, and kidney shaped leaves. On the banks of the river Chervil between Oxford and Water-Eaton. R. Sy. On Shirley common near Croydon. On Hampstead-heath. Hudson. Per. June.

-sle word bas Such as have stalks.

Ganina. Dogs Violet with a stalk, and oblong heart-shaped leaves. Per. April.

Alpina. Welsh Violet with three flowers upon a stalk,

cordate leaves deeply ferrated. Per.

Tricolor. Pansies or Heart's Ease or Three Faces under a Hood with a four-cornered, distruse stalk, oblong, indented leaves, and indented stipulæ. Common in the north. An. May—Sep.

Lutea.

\$14 SYNGENESIA MONOGAMIA.

Lutea. Yellow Violet with a four-cornered, diffuse stalk, cordate, crenated leaves, dented stipulæ, and a creeping root. On the northern mountains, and in rotten marshy places. May-Aug.

fife of five unequal petale, IMPATIENS. QUICK IN THE HAND, OF a horned ne Not. ... Touch ME Not.

The cup is very small and consists of two leaves which are roundish, acuminated, equal, coloured, and deciduous. The flower has five petals, and is ringent. The petals are unequal, and the upper petal is roundish. plain, erect, trifid, and constitutes an upper lip; the two lower petals are large, reflex, broad, obtufe irregular, and constitute a lower lip; the intermediate pair are alike and placed opposite, joining at the base. The nectarium is monophyllous, shaped like a hood, oblique to the mouth, rifing on the outfide, with the base ending in a horn. There are five very short filaments, narrower towards the base, and crooked, with as many antheræ divided at the base. The germen is oval, acuminated without a style. The stigma is simple and shorter than the antheræ. The fruit is a capfule with one cell, opening with an elasticity in five valves which twift spirally and contains several roundish seeds fixed to a column.

Noli me Tangere. Quick in the Hand, or Touch me Not, with foot stalks sustaining many single flowers, oval leaves and stalks having swelling joints. In moist shady places and by rivulets. On the banks of Winandermere-Water near Ambleside. R. Sy. Near Rydal-Hall and other places in West. By the cloth-mill in Satterthwaite-parish, Lan. Near Bingley, Yorksh. In Kitty Gill's orchard about a mile from Ambleside, by the side of a small rivulet that croffes the high-road, West. WILSON'S Sy. An. Aug.

a liese with a four-cornered difful flatt, oblong, in-

CLASS XX.

GYNANDRIA.

This class comprehends such plants, whose stamina are placed either on the style, or on the receptacle, stretched out into the form of a style and supporting on it both the pistil and stamina. The structure of the fructissication of this order of plants, is quite singular, says Linnaus. The germen is always twisted like a screw; the petals are sive, of which, the two inner ones usually approach one another in the shape of a helmet. The lower lip constitutes a nectarium and serves for a pistil and a sixth petal. The style grows to the inner margin of the nectarium, and is scarce distinguished. The silaments are always two, having as many anthera which are narrower downwards, naked, or without a tunic, and divisible like the pulp of the citrus.

DIANDRIA comprehends such plants of this class as have two stamina.

ORCHIS.

The flower hath five petals, three without and two within, which form a helmet. The nectarium is monophyllous, fixed to the fide of the receptacle between the division of the petals. The upper lip is erect and very short; the lower lip is large, patent and broad. The tube is pendulous, horn-shaped, and prominent behind. There are two very slender short silaments resting upon the pistil, with oval, erect antheræ, covered with

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with a bilocular duplicature of the upper lip of the nectarium. The germen is oblong and twifted, the style is very short and grows to the upper lip of the nectarium, and the stigma is compressed and obtuse. The capfule is oblong, unilocular, and has three keel-shaped valves opening on the three sides, but joined at the top and bottom, and silled with very small seeds like dust.

Such as have undivided bulbs or testiculated roots.

Bifolia. Butterfly Orchis with undivided roots, the lip of the nectarium entire and lanceolated; a very long horn, and patent petals. Wilson fays the stalk is generally about a foot high, and encompassed with narrow and smaller leaves. The slowers are disposed into a thyrse of a sweet smell, and in shape resemble a butter-fly with expanded wings. In pastures and thickets. Per. May, June.

Mascula. Male Fool Stones* with undivided roots, the lip of the nectarium cut into four points and crenulated, and the hinder part of the petals reflex, Flo. Suec. 795. The flowers are of a purple colour, and the lip is marked on the inside with a few dark spots. In

meadows and pastures. Per. May.

Morio.

* This is the species of Orchis mentioned in the Georgical Essays, as the most proper for making Salep or Saloup, which for the entertainment of the curious, as I have found it to answer, I shall insert in this place.

"SALEP is a preparation of the roots of the Orchis or Dog-Stones, of which many species are enumerated by botanical writers. The ORCHIS MASCULA, LINN. Sp. Pl. is the most valued, altho' the roots of some of the palmated sorts, particularly of the ORCHIS LATIFOLIA, are found to answer almost equally well. This plant slourishes in various parts of Europe and Asia, and grows in our own country spontaneously, and in great abundance. It is assiduously cultivated in the east, and the root of it forms a considerable part of the diet of the inhabitants of Turkey, Persia, and Syria. A dry and very sertile soil is best adapted to its growth.

AR

Morio. Female Fool Stones with undivided roots, the lip of the nectarium quadrifid and crenulated, the horn obtuse, and all the petals connivent. The wings are broad, hollow, and striated with greenish-lines. In meadows and moist pastures. Per. May, June.

Pyramidalis. Purple late flowering Orchis with undivided bulbs, the lip of the nectarium trifid and entire; the horn long and the petals lanceolated: The lip of the flower is shaped like an ear, and not spotted, and the fpurs are very long and reflected. In dry pastures fre-

quently. Per. June, July.

Ustulata. Little purple-flowered Orchis with undivided bulbs, the lip of the nectarium quadrifid, having rough spots, an obtuse horn, and distinct petals. In dry barren pastures. Per. May, June.

Wilson describes this plant as follows: The flowers are thick fet on a short spike, with a very short greenish fpur, a rust-coloured crest, and wings either totally greenish, or half purplish, and red speckled within: The beard is fomewhat like a little quadrupede, divided into three or four parts, winged, quite white without, and marked with many deep purple fpecks within. The flowers have yellow fummits in the opening.

Ff.

Coriophora.

An ingenious friend of mine, in order to collect the feed, transplanted a number of the Orchises into a meadow, where he had prepared a bed well manured for their reception. The next spring few of them appeared, and not one came to maturity; their roots being black and half rotten. The same gentleman informs me, that he has never been able to raise any plants from the seed of the wild Orchis; but he ascribes his want of success to the wetness of the fituation in which he refides.

I have now before me, a feed pod of the Orchis, the contents of which, to the naked eye, feem to be feed corrupted and turned to dust, but, when viewed through a microscope, appear evidently to be organized, and would, I doubt not, with proper culture germinate and produce a thriving crop of plants, The

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Coriophora. The leffer Lizard Flower with undivided roots, the lip of the nectarium trifid, reflex, and crenated, the horn short, and the petals connivent. This

species hath a white flower. Per.

Purpurea. Purple Man Orchis with undivided roots, the lip of the nectarium bearded, five lobed, those on the fides obtuse and crenulated, the middle shortest and acute, the petals confluent. The lip is white, variegated with purple hairs. On chalky hills. Per. June.

Militaris. Man Orchis with undivided roots, the lip of the nectarium is five lobed, rough with fpots, an obtufe horn and confluent petals. Hupson fays the lip of the nectarium is quinquifid. WILSON fays the lip of the flower refembles the body of a naked man. Per. June.

The properest time for gathering the roots, is when the feed is formed and the stalk is ready to fall, because the new bulb, of which the Salep is made, is then arrived to its full maturity, and may be diffinguished from the old one, by a white bud rising from the top of it, which is the germen of the Orchis of the succeeding year.

Several methods of preparing Sales have been proposed and practifed. GEOFFROY has delivered a very judicious process, for this purpose, in the Histoire de l'Acadamie Royale des Sciences, 1740, and RETZIUS, in the Saveedish transactions, 1764, has improved Mr GEOFFROY's method.

Mr Moult of Rochdale, has lately favored the public with a new manner of curing the Orchis-root; and as I have feen many specimens of his Salep, at least equal, if not superior, to any brought from the Levant: I can recommend the following, which is his process, from my own knowledge of its faccess.

The new root is to be washed in water, and the fine brown skin, which covers it, is to be separated by means of a small brush, or by dipping the root in hot water, and rubbing it with a coarse linen cloth. When a fufficient number of roots have been thus cleaned, they are to be spread on a tin plate, and placed in an oven heated to the usual degree, where they are to remain fix or ten minutes, in which time they will have loft their milky whiteness, and acquired a transparency like horn, without any diminution of bulk. When arrived at this flate, they are to be removed in order to be dried and hardened

Such as have palmated roots.

Latifolia. Male-handed Orchis with straight, palmated roots, the horn of the nectarium conical; the lip cut into three lobes, which are reflected on the sides, and the bracteæ are longer than the slowers. In meadows

and pastures. Per. May, June.

Wilson fays, the flowers are purplish, with purple wings on each fide, and grow in a spike not very thick, nor very long. The upper petal is erect, the under ones meet, and form a crest. The beard is broad, divided into three parts, striped, or speckled with deeper lines or specks, and has a spur half an inch long: At the origin of each pedicle stands a broad, oblong, purplish leaf. The flower often varies its colour.

Ff 2.

Maculata.

hardened in the air, which will require feveral days to effect; or by using a gentle heat, they may be finished in a few hours.

Salep thus prepared, may be afforded in this part of England, where labour bears a high value, at about eight pence or ten pence per pound. And it might be fold fill cheaper, if the orchis were to be cured without separating the brown skin which covers it; a trouble-some part of the process, and which does not contribute to render the root either more palatable or falutary. Whereas the foreign Salep is now fold at five or fix shillings per pound. The culture of the Orchis, therefore, is an object highly deserving of encouragement from all the lovers of agriculture. And as the root, if introduced into common use, would furnish a cheap, wholesome, and most nutritious article of diet, the growth of it would be sufficiently profitable to the farmer.

Salep is said to contain the greatest quantity of vegetable nourishment, in the smallest bulk. Hence a very judicious writer, to prevent the dreadful calamity of samine at sea, has lately proposed that the powder of it should constitute part of the provisions of every ship's company. This powder and portable soup, dissolved in boiling water, form a rich thick jelly, capable of supporting life for a considerable length of time. An ounce of each of these articles, with two quarts of boiling water, will be sufficient subsistence for a man a day; and as being a mixture of animal and vegetable sood, must prove more nourishing than double the quantity of rice cake, made by boiling rice in water. Vide Georgical Eyays, vol. 4. pa. 163.

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Maculata. Female handed Orchis with patent, palmated roots, the horn of the nectarium shorter than the germina; a plain lip, and the hinder petals erect. The leaves of this species are always spotted, those of the

former species never. Per. June.

Conopsea. Red handed Orchis with palmated roots, and the briftly horn of the nectarium longer than the germen, a trifid lip, and two very patent petals. In meadows and pastures. In Sinderbarrow meadows plentifully, within the liberties of Yealand-Redman, Lan. Bien. June, July.

This is eafily diftinguished from the rest, by the length of the spike and the imallness of the pale red slower, by the unspotted leaves and by its remarkable long spurs.

Such as have fasciculated bulbs.

Abortiva. Purple Bird's Nest with stender fasciculated bulbs, the lip of the nectarium entire and oval. In

dry meadows. Per. May.

Wilson describes this plant as follows: The stalk is about a foot high, wrapped round with many leaves like so many sheaths; and bears a spike of tetrapetalous slowers. The upper petal of each flower ends in a horn, and a proboscis appears in the middle, to which grow two slender beards. Under the flowers are long striated heads full of small seed like that of Orchis. The root consists of long, thick, oblique sibres. The whole plant is of a deep purple or violet colour. It differs from the Orchis in having a sibrous root; from Hellebere in having a spur to the flower, and from Ophris in its leaves growing alternately. Syn. pa. 269.

SATYRIUM. SATYRION.

It hath a vague spatha and simple spadix. There are five petals, three outer and two inner, joined in the form of a helmet. The nectarium consists of one leaf join-

ed to the receptacle, on the lower fide between the divifion of the petals. The upper lip is erect and very short; the lower lip is plain and pendulous; the base represents the hinder part of the scrotum. There are two very slender short stamina placed upon the pistil, having oval antheræ, covered by the bilocular duplicature of the upper lip of the nectarium. The germen is oblong, twifted, and beneath the flower, the ftyle adjoins the upper lip of the nectarium and is very fhort with an obtufe, flat stigma. The capfule is oblong, unilocular, and has three keels and three cells, opening under the keels three ways, filled with small feeds like dust.

Hirfinum. The Lizard Flower or Goat's Stones with undivided roots, lanceolated leaves, the lip of the nectarium trifid, the middle fegment being linear and obliquely bitten. In chalky land, About Dartford and Crayford in Kent, but not very common. Per. June, July.

Wilson fays, It has many large liliaceous, fmooth leaves arifing from the root, and also on the stalk to the very spike. The stalk is thick, and sustains a dense spike of stinking flowers, each of which fits on a green twifted pedicle. The fpur is short and green, the crest and wings greenish without, and marked on the infide with purplish specks and stripes. From the under-lip, white on the outfide, and speckled with purple on the infide, hangs down a goat's beard, composed of three greenish twirls; the fide ones are shorter and curled up, the middle one longer and bifid. It has a strong smell.

Viride. Frog Satyrion or Orchis with a palmated root. oblong, obtufe leaves, and the lip of nectarium divided into three linear parts, the middle one being obfolete. Per. May, June.

Fuscum. Brown Satyrion with a palmated root, oblong leaves, and the lip of the nectarium equally trifid. At Helse-fell-nab near Kendal, West. Hudson. Per. Aug.

Albidum. White Satyrion with fasciculated roots, lanceolated leaves, and the lip of the nectarium acutely trifid, the middle segment being largest. In meadows and pastures, about Malham in Yorksh. June.

OPHRYS.

The spatha is vague and the spadix is simple. The slower hath five oblong petals that are connivent and equal. The nectarium is longer than the petals, dependent and keel-shaped behind. There are two very short stamina placed upon the pistil. The antheræ are erect, and covered with the interior margin of the nectarium. The germen is oblong, twisted, and beneath the slower. The style joins the interior margin of the nectarium, having an obsolete stigma. The capsule is oval, trigonal, obtuse, striated, has three valves, and one cell filled with small seed like dust.

Such as have ramose roots.

Nidus Avis. Bird's Nest with bulbous bunched roots, a sheath-like stalk and the lip of the nectarium bisid. In woods and shady places. Per. May.

WILSON fays, The tafte of the whole plant is abomi-

nably bitter.

Spiralis. Triple Ladies Traces with oblong clustered bulbs, a leafy stalk, fruitful flowers, and the lip of the nectarium undivided. On Yealand Common, Lan. but not very plentifully; above John Jenkinson's wood, and by the side of Grisedale Wall, Yealand, Lan. Per. Aug.

Ovata. Common Twayblade with a fibrous bulb, two oval leaves on the stalk, and a bifid lip to the nectari-

um. Per. May, June.

Cordata. The least Twayblade with a fibrous bulb, two cordated leaves on the stalk, and the lip of the nectarium bifid. In moist heathy land and especially mossland in the counties of York. Lanc. and West. July.

Palustris. Marsh Twayblade with a fibrous bulb, and

the lip of the nectarium entire. Per. July, Aug,

Such

Such as have round bulbs

Paludosa. The least Orchis with a round bulb, and a naked, pentagonal stem, the summit of the leaves rough, and the lip of the nectarium entire.

Monorchis. Yellow or Musk Orchis with a globose bulb, a naked stem, and the lip of the nectarium trisid.

Per. July.

Wilson fays, The flowers are very small of an herbaceous colour inclining to yellow, and the lip is divided into three parts: The seed vessels are shorter than in most of the other species of Orchis.

Lilifolia. Dwarf Orchis with a roundish root, a naked stalk, lanceolated leaves, the lip of the nectarium entire, and the hinder petals linear. In wet marshy

places.

Anthopophora. Green Man Orchis with a roundish root, a leafy stalk, the lip of the nectarium trifid, the middle being bifid, and elongated. Found by Mr Dale in an old gravel-pit at Dalington near Sudbury, at Northfleet and Greenhithe in Kent plentifully. R. Sy. Per. July.

Muscifera. Fly Orchis with roundish bulbs, a leafy stalk, and the lip of the nectarium quadrisid. In the Flat-wood belonging to the Rev. Mr Hest and Mr Lucas near the lime kiln, Yealand, Lan. In a field called Pot-acre in Preston-Richard, belonging to Mr Dickinson of Challen-hall, West. Mr Johnson in my company found one root in Hutton-Roof-Park, West. I found a great number in Cringlebarrow-wood, on a plain piece of ground, not far from Deepdale, Yealand, Lan. June.

Apifera. Bee Or chis with roundish bulbs, a leafy stem, and the lip of the nectarium divided into five lobes and

the lobes inflex. Per. June.

CYPRIPEDIUM. LADY'S SLIPPER.

It hath a vague spatha, and a simple spadix. There are four or five lanceolated, linear, long, patent, erect flower petals. The nectarium which is situated between

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the petals, is shaped like a shoe, swollen, and hollow, shorter and broader than the petals: The upper lip is oval, plain, instex, and small. There are two very short silaments placed on the pistil, having erect antheræ, covered with the upper lip of the nectarium. Below the slower is placed a long contorted germen. The style is very short, and adheres to the upper lip of the nectarium, having an obsolete stigma. The fruit is an oval, obtusely trigonal capsule, having three valves and one cell, containing many small seeds.

Calceolus. Lady's Slipper with fibrous roots, oval, lanceolated leaves on the stalks. In a wood near Ingleton, called Helk's-wood belonging to E. Foxcroft, Esq.

Yorksh. Per. June, July.

SERAPIAS. HELLEBORE.

It hath a vague spatha and simple spadix. The slower hath five oval, oblong, erect, patent, connivent petals. The nectarium is the length of the petal, hollow at the base, melliferous, oval, gibbous beneath, trisid and acute; the middle segment is cordate and obtuse. There are two very short silaments placed on the pistil, having erect antheræ, and placed under the upper lip of the nectarium. The germen is oblong, contorted, and beneath the slower; the style grows to the upper lip of the nectarium, having an obiolete stigma. The capsule is oval, obtusely trigonal, and has three keels and three valves opening under the keels, and one cell containing numerous dust-like seeds. The receptacle is linear and joins to each valve of the seed vessel.

Latifolia. Broad leaved Bastard Hellebore with fibrous roots, the lip of the nectarium obtusely crenated, equawith the petals, and pendulous fruit. In Cringlebarrows wood amongst the rocks plentifully, belonging to G. Townley, Esq. of Leighton-hall, Lan. July, Aug.

This species which I found, is that with the Atro-

Rubente or Blackish-Red of BAUHIN and RAY.

Longifolia. White flowered Bastard Hellebore with fibrous bulbs. The lip of the nectarium obtufe, shorter than the petals, having erect fruit. In a meadow belonging to Mr CLARKSON of Yealand, called Sinderbarrow meadow, and likewise in one of Mr Lucas's adjoining the former. About Clapham and Ingleton, Yorkshire.

The others mentioned by authors, according to LIN-

NÆUS, are only varieties, and not diffinct species.

POLYANDRIA comprehends such as have more stamina than ten.

A R U M. WAKE-ROBIN.

The spatha consists of one large, oblong leaf, convoluted at the base, connivent at the apex, compressed at the belly, and coloured internally. The spadix is clubshaped and very simple, somewhat shorter than the spatha, coloured and furrounded with the germina. There are no petals, nor stamina, unless the nectaria are such, which are thick at the base, and end in slender cirrhi, of two ranges arifing out of the middle of the spadix. There are many tetragonal, fessile antheræ placed among the cirrhi and adjoining the spadix. The germina are many, furrounding the base of the spadix and placed beneath the stamina: There are no styles, but the stigmata are bearded. The fruit is a globose berry with one cell and contains many roundish feeds.

LINN. Obf. The structure of the flower is surprising and not to be parallelled, which hath afforded ample matter of disputation among the botanists. Vide Tourf.

MALP. DILLEN. RIVEN, &c.

DIANDRIA

Maculatum. Wake-Robin, Cuckow-Pint without a stalk, entire spear-shaped leaves, and a club-shaped spadix. In shady places and under hedges. Per. May.

C L A S S XXI.

MONOECIA.

This class comprehends such plants as have no hermaphrodite flowers, but bear both male and female flowers on the same plant.

MONANDRIA comprehends such plants as have but one stamen.

ZANNICHELLIA. HORNED PONDWEED.

There is one simple, long, erect stamen, with an oval, erect anthera. The seminine has a monophyllous, ventricose, bidentated cup, scarce visible, without a corolla. There are four corniculated, connivent germina and as many patent, simple styles, and oval, plain stigmata. The seeds are oblong, acuminated on both sides: Gibbous on one side and covered with bark.

Palustris. Horned Pondweed with three or four crooked horns growing together in the wings of the leaves. In a rivulet between the Glass-Houses and Dent's-hole, near Newcastle upon Tyne. WILSON'S Sy. In ditches and standing waters. An. Aug.

CLASS XXI

DIANDRIA comprehends such as have two stamina.

L F. M N A. DUCK'S MEAT.

The cup of the hermaphrodite flower is monophyllous, roundish, opens in the fide, and obliquely dilated, obtuse, patent, depressed, large and entire. There are two fubulated, crooked filaments the length of the cup, with didymous, globose, antheræ. The germen is oval, the style short, and the stigma obsolete. The feminine flower is on the same plant with the masculine, and the cup the same. The germen is oval, the style short and permanent, and the stigma sim le. The capsule is globose and unilocular, containing a few oblong, acute feeds, almost the length of the capsule and striated.

Trifulca. Ivy leaved Duck's Meat with lanceolated leaves. In ditches and standing waters. Per. May, June.

Minor. The least Duck's Meat with fessile, plainth leaves, and those towards the root single. Per. June.

Polyrhiza. Greater Duck's Meat with teffile leaves, and those towards the root thick set. In ditches. An. June, July. man recentacle dillinous mer the risidules with aw

TETRANDRIA comprehends such as have four stamina.

URTICA. NETTLE.

The cup of the malculine flower is tetraphyllous, and the leaves are roundish, concave and obtuse. The flower hath no petals. The nectarium is in the center of the flower, shaped like a pitcher, entire, narrow at the bottom and very small. There are four subulated filaments the length of the cup, and the antheræ are bilocular. The feminine flowers are either on the same or different plants. The cup hath two valves, oval, concave, erect, and permanent. The germen is oval, the stigma is villose. The cup which is connivent contains one oval, obtufely compressed, shining seed. -G g 2.

Pilulifera.

228 MONOECIA PENTANDRIA.

Pilulifera. Roman Nettle with opposite, oval, serrated leaves, and a globose fructiserous amentum. At Great-Yarmouth in Norfolk. Aldborough in Suffolk. R. Sy. An. Aug.

Urens. Lesser Nettle with oval opposite leaves. An.

August.

Dioica. Common Nettle with opposite, cordate leaves, and double branches. Per. July.

with didymous, globoth, anthone. The permen is swyll

PENTANDRIA comprehends such plants as have five stamina.

XANTHIUM. LESSER BURDOCK.

The common cup of the male flower is polyphyllous. and imbricated with flender scales the length of the flofcules. The compound flower is uniform, tubulofe, equal, and hemispherical; the proper corolla is composed of a fingle, tubulofe, erect, funnel-shaped petal, cut into five fegments at the top. The filaments are five placed within a tubulofe cylinder. The antheræ are erect, parallel and diffinct. There is scarce any common receptacle diftinguishing the floscules with awns. The feminine flowers are beneath the masculine in the fame plant. The cup is an involucrum formed of two leaves, and contains two flowers, the leaves are opposite having three acute lobes, furrounded with hooked aculei, covering and adhering to the germen. The germen is oval and hispid, and the styles are hairy and fligmata fimple. The fruit is a dry, oval, oblong, prickly berry, containing two cells, in each of which is a fingle, oblong feed, covered with hooked aculei, the apex being bifid.

Strumarium. Leffer Burdock with a stalk without prickles. At Staines in Midd efex; Mr Lawson. In the road from Portsmouth to London, about three miles from

Portsmouth, An. Aug. Sep.

AMARANTHUS.

AMARANTHUS. BLITE.

The masculine slowers are on the same plant with the seminine. The cup consists of sive or three erect, coloured, permanent leaves. There are sive or three, hairy silaments, erect, patulent, and the length of the cup, with oblong, versatile antheræ. The seminine cup is the same as the masculine. The germen is oval having three short subulated styles, and simple permanent stigmata. The fruit is an oval, compressed capsule and coloured like the cup, having three beaks and one cell, and contains one globose, compressed, large seed.

Blitum. The least Blite with erect spikes and three

stamina, and oval retuse leaves. An. Aug.

Wilson describes this plant as follows, The stalks are procumbent, branched, about a foot long, and of a reddish colour, the leaves resembling those of Pellitory, about two inches long, taking in the tail, which is very slender, and almost as long as the rest of the leaf. This leaf is a bright green, sometimes having purplish edges; out of the bosom of each leaf sometimes proceed others, which are much smaller: These bosoms are filled with many flowers, growing, one upon another, in round clusters. Each flower usually consists of three very narrow-pointed, guttered leaves. The capsule is reddish, composed of two pieces, placed one upon the other, and opening transversly. Found on dunghills.

POLYANDRIA comprehends such as have above seven stamina.

CERATOPHYLLUM. PONDWEED.

The cup of the masculine flower is multipartite, the segments are subulated and equal. The filaments are double, the number of the segments of the cup being from sixteen to twenty, and scarce conspicuous. The antheræ are oblong, erect, and longer than the cup.

The

230 MONOECIA POLYANDRIA.

The feminine are on the same plant with the masculine. The cup is multipartite, the segments subulated and equal. The germen is oval and compressed; the stigma is obtuse and oblique. The nut is oval, unilocular, and acuminated.

Demersum. Horned Pondweed. In flow running water and ditches. In a ditch belonging to Christ-Church meadow. Per. July.

MYRIOPHYLLUM. WATER MILLFOIL.

The masculine cup has four oblong, erect leaves, the outmost is larger and innermost least. There are eight hairy flaccid filaments longer than the cup, with oblong antheræ. The seminine cup is the same as the masculine. There are four oblong germina, and a hairy stigma and sour oblong seeds.

Spicatum. Spiked Water Millfoil with masculine flowers interruptly spiked. In the river on Hounstow heath. In

ditches, lakes, and still waters. Per. July, Aug.

Virticillatum. Virticillated Water Milifoil with all the flowers in whorls. In ditches and standing waters. Per. July.

SAGITTARIA. ARROW-HEAD.

The masculine slowers are more than the seminine. The cup hath three oval, concave, patent, permanent leaves. The slower hath three roundish, obtuse, plain, patent petals, three times as large as the cup. There are often twenty four silaments, collected into a head, having erect antheræ the length of the cup. The seminine petals and cup are the same as the masculine. The germina are numerous, compressed, formed into a head, externally gibbous, ending in very short styles, having acute permanent stigmata. The receptacle is globose, and the seeds are collected into the form of a globe and are numerous, oblong, compressed, surrounded longitudinally with a broad membranaceous margin, gibbous on one side, and accuminated on both.

Sagittifolia.

MONOECIA POLYANDRIA. 231

Sagittifolia: Arrow-head with acute leaves shaped like an arrow. Per. June.

POTERIUM. BURNET.

The masculine flowers are disposed in a spike. The cup confitts of three oval, coloured, caducous leaves. The flower is quadripartite and the petals are oval, concave, patent, united at the base, and permanent. The filaments are from thirty to fifty in number, slender, very long, and flaccid, having roundish, didymous antheræ. The feminine cup is the same as the masculine. The flower is monopetalous and wheel-shaped, the tube is short, roundish, and connivent at the brim. The limb is quadripartite, the fegments are oval, plain, reflex, and permanent. There are two oval, oblong germina within the tube of the corolla. There are two hairy, coloured, flaccid styles, the length of the corolla; the stigmata are coloured and pennicilliform, or in the form of a painter's pencil. The berry is formed of the indurated, incraffated tube of the corrolla, and contains two feeds.

Obf. LINN. Sanguisorba. The berry is angulated, with tetragonal feeds accuminated on both fides, the two pistils are weak and inferted into the masculine flower.

Sanguisorba. Burnet with stalks somewhat angular. In moist meadows and in chalky soil. Per. July.

Wilson fays, It has a monopetalous flower, cut deep into four fegments, furnished with a great many chives (which we call stamina) or a tusted pointal: The petals are very small, of an herbaceous colour. The empalement turns, for the most part, to a quadrangular fruit, piked at both ends, having sometimes one, and sometimes two cells: The seeds are generally oblong, the leaves pinnate, and the flowers are gathered into a head.

RAY, GER. and WILSON make two species, a

Major and a Minor.

232 MONOECIA SYNGENESIA.

SYNGENESIA comprehends such plants as have their male flowers furnished with stamina, of which the antheræ are united.

BRYONIA.

The masculine cup is monophyllous, campanulated, quinquedentated, and the denticles are subulated. The slower is quinquepartite, campanulated, joins to the cup, and the segments are oval. There are three very short silaments and sive antheræ, of which two are on each silament, and one on the other. The seminine slowers are on the same plant with the masculine. The cup and slowers are the same as the masculine. The germen is beneath the sloscule, the style is trifid, and the length of the corolla, the stigmata are emarginated and patulent. The berry is oval and smooth, and has a few seeds.

Alba. White Briony with palmated leaves, scabrous on both sides. May.

CLASS XXII.

CLASS XXII.

DIOECIA.

This class comprehends such plants as have no hermaphrodite flowers, but bear male and female flowers on distinct plants.

PENTANDRIA comprehends such as have sive stamina.

HUMULUS. Hops.

Masculine.

There are five hairy, very fhort filaments, and oblong antheræ.

Feminine.

The univerfal involucrum is quadrifid and acute: The partial one hath four leaves, is oval, and contains eight flowers, and the cup of every flower is monophyllous, oval, and very large, plain on one fide, and connivent at the base. The germen is very small, having two subulated, patulent styles, and acute stigmata. The cup has the seed in the bottom, which is roundish and truncated.

Lupulus. Hops. June.

HEXANDRIA comprehends such plants as have fix stamina.

TAMNUS. BLACK BRIONY.

X 2 8 % 7

Masculine.

The cup is divided into fix parts, each fegment is lanceolated at the fummit, and more patent. There are fix fimple filaments fhorter than the cup, having erect antheræ.

Feminine.

The cup is monophyllous, fex-partite, campanulated, patent, and the fegments are lanceolated, and deciduous. The nectarium is an oblong punctum internally adhering to each fegment of the cup. The germen is oblong, large, and fmooth. The ftyle is cylindraceous and the length of the cup, and the ftigmata are three, reflex, emarginated, and acute. The fruit is an oval, trilocular berry, containing two globose feeds.

Communis. Black Briony with undivided, cordate

leaves. Per. June. 10 guoldo ava dua que al

OCTANDRIA comprehends such plants as have eight stamina.

RHODIOLA. ROSEWORT.

The universal involucium is quadrifid and score;

inaco la a state Masculine.

The cup is quadripartite, concave, erect, obtuse and permanent. There are sour oblong, obtuse, patent, deciduous petals, twice as long as the cup. There are sour erect, emarginated nectaria longer than the cup. There are eight subulated filaments longer than the corolla, having simple antheræ. There are sour oblong, acuminated germina; the styles and stigmata are obsolete.

Feminine.

Feminine.

The feminine cup is the same as the masculine. The slower hath sour erect, obtuse petals equal with the cup, and permanent. There are sour oblong, acuminated germina, ending in simple straight styles and obtuse stigmata. There are sour horny capsules opening inter-

nally and containing many roundish seeds.

Rosea. Rosewort. In the mountains of Cumb. West. Yorksh. On the rocks of the high mountains of Snowdon and Caderidis in Wales; Ingleborough in Yorksh. On a rock called Blea-water-crag about twelve miles from Kendal, West. in great plenty. Also on the rocks of the high mountains of Longsleddale and Kentmere in the same county. Wilson's Sy.

ENNEANDRIA comprehends such plants as have nine stamina.

MERCURIALIS. MERCURY.

Masculine.

The cup is tripartite and the fegments are oval, lanceolated, concave, and patent. There are nine or twelve flamina, straight, hairy, and the length of the cup, having globose, didymous antheræ.

Feminine.

The cup is the same as the masculine. There are two subulated, acute, pointed nectaria, to each of which there is a single, broad germen, impressed with a furrow between them. The germen is roundish, compressed, hispid, and surrowed on both sides, having two reslex, horny, hispid styles, and acute, reslex stigmata. The capsule is roundish, didymous, bilocular, and shaped like the scrotum, having single, roundish seeds.

Perennis. Dog's Mercury with a very simple stalk

and scabrous leaves, Per. April, May.

Annua. French Mercury with a brachiated stalk, and smooth leaves. An. Sep.

Hh 2. HYDROCHARIS:

HYDROCHARIS. FROG-BIT.

Masculine.

The spatha hath three flowers with oblong leaves. The proper cup is triphyllous, and the leaves are oblong, concave, with a membranaceous margin. The flower hath three roundish, plain, large petals. There are nine fubulated, erect stamina arranged in three orders. rudiment of the germen is in the center.

Feminine.

The fpatha, cup, and flowers are the fame as the masculine. The germen is roundish and beneath the flower; there are fix styles the length of the cup, compressed, bisido-canaliculated, having two bisid, acuminated stigmata: The capsule is coriaceous; roundish, and has fix cells containing many fmall roundish feeds.

SYNGENESIA comprehends such plants as have their male flowers furnished with stamina, of which the antheræ are united. Of this order there is but one Genus; viz.

RUSCUS. KNEE-HOLLY, OF BUTCHER'S BROOM. Masculine.

The cup confifts of fix leaves which are ovate and convex. There are no flower petals, unless you reckon the alternate leaves of the cup as fuch. The nectarium is ovate, the fize of the cup, inflated and erect. There are no filaments and but three patent antheræ upon the apex of the nectarium and united at the base.

Feminine.

The cup, petal, and nectarium are the fame as the masculine. The germen is partly oblong, and partly oval with the nectarium. The style is cylindraceous and the length of the nectarium. The stigma is obtuse. The fruit is a globose, trilocular berry, containing two globoie feeds.

Aculeatus. Knee-holly, or Butcher's Broom of which we

have but one species. Bien. March, April.

CLASS

CLASS XXIII.

POLYGAMIA.

This class comprehends such plants as bear hermaphrodite slowers, and also male or femule or else both.

MONOECIA comprehends such plants as have the polygamy on the same plant.

VALANTIA. CROSSWORT, OF MUGWEED.

HE hermaphrodite flower is folitary. There is fcarce any cup. The flower is monopetalous, plain, quadripartite, and the fegments are oval and acute. There are four filaments the length of the corolla, having small antheræ. The germen is large, the style is the length of the stamina, and semi-bisid, and the stigmata are headed; the seed-vessel is coriaceous, compressed and reslex, and contains one globose seed.

Masculine flower.

There is scarce any cup. The flower is monopetalous, plain, tripartite or quadripartite, and the segments are oval and acute. There are four filaments the length of the corolla, furnished with small antheræ. The germen is small, the style and stigmata obsolete, and scarce discernable.

Cruciata. Crosswort or Mugweed with masculine, quadristd flowers, and diphyllous peduncles. Per. May, June.

PARIETARIA.

PARIETARIA. PELLITORY of the WALL.

Two hermaphrodite flowers are contained in a plain involucrum of fix leaves. The cup is monophyllous, quadrifid, plain, obtufe, and the fize of the involucrum. There are four subulated filaments longer than the cup, expanding over it, and permanent with didymous antheræ. The germen is oval, style slender and coloured; the stigma in the shape of a painter's pencil and headed. The cup elongated, large, and campanulated, contains one oval feed. The female flowers have no stamina but in other respects are the same as the hermaphrodite.

Officinalis. Pellitory of the Wall with oval, lanceolated leaves, dichotomous peduncles, and diphyllous cups. Common on old walls. On the walls of Lancaster-Castle.

May-Sep.

ATRIPLEX. ORACHE.

The hermaphrodite flower hath a pentaphyllous, concave, permanent cup, oval concave fegments and a membranaceous border. There are five fubulated filaments, opposite the leaves of the cup and longer, with roundish, didymous antheræ. The germen is orbicular, the style bipartite and short, and the stigmata reflex. The cup which is closed is pentagonal, and has five angles and contains one orbicular, depressed feed. The female flower is on the same plant as the masculine. The cup has two plain, erect, oval, acute, large, compressed leaves. The germen is compressed, the style bipartite, and the stigmata restex and acute. The valves of the cup are very large, cordate and contain the seed.

Obs. Atriplex without the female flower is Chenopodium, and Chenopodium with the female flower is Atriplex; hence

the affinity between them.

PARIETARIA

Portularcides. Sea Purssane with a shrubby stalk and oval leaves. Bien. Aug.

POLYGAMIA MONOECIA. 239

Laciniata. Jagged Sea Orache with an herbaceous stalk, deltoid, dentated leaves, hoary underneath. On the sea shore. An. Aug.

Erecta. Spear-leaved Orache with an herbaceous stalk, spear-shaped, dentated leaves. On the entrance into

Battersea meadow from Nine-Elmes. An. Aug.

Hastata. Wild Orache with an herbaceous stalk, large feminine deltoid, sinuated valves. On the sea shore.

An. Aug. Sep.

Patula. Narrow-leaved Orache with a patulent, herbaceous stalk, deltoid, lanceolated leaves, and the cups of the seeds dented in the disk. An. Aug.

Serrata. Indented Sea Orache with an erect, herbaceous stalk, and linear serrated leaves. On the sea shore. Aug.

Litoralis. Grass-leaved Orache with an herbaceous, erect stalk, and all the leaves linear and entire. An.

Sep.

Pedunculata. Stalked Sea Orache with a divaricated, herbaceous stalk, lanceolated, obtuse, entire leaves, feminine pedunculated cups. Near Scirbeck a mile from Boston, Lincolnsh. Dr Plukenet. Found in the Isle of Thanet, near the Ferry-house, in great plenty, by Mr J. Sherard. R. Sy. An. Sep.

CLASS XXIV.

Public Adopt Horse tail with an angulared Rails, and quate fungle pranches. In watery places. For Youth

C L A S S XXIV.

CRYPTOGAMIA.

This class comprehends such plants, whose frustification is so small, as not to be examined by the naked eye, and is of a very peculiar construction.

The ferns are the first division in order, whereby is meant such plants as are dorsiferous, or bear the fruit on the back of the leaf, of which the following are the characteristics.

The cup is a squama, growing out of the leaf, opening on one of its sides; under which there are pedunculated globules, each of which is girt with an elastic ring, which breaks elastically and sheds dust.

EQUISETUM. HORSE-TAIL.

HE fructifications are placed in an oval, oblong fpike. Each is orbiculated, open at the base, many valves being connected in a plain apex.

Sylvaticum. Wood Horse-tail with a spiked stalk, opening at the base with many valves. In woods and

moist places. Per. April, May.

Arvense. Corn Horse-tail with a naked stem bearing fruit. Per. March.

Palustre. Marsh Horse-tail with an angulated stalk, and quite simple branches. In watery places. Per. June. Fluviatile.

Fluviatile. River Horse-tail with a striated stalk, and simplish branches. In watery places. Per. May.

Limofum. Smooth Horse-tail with a naked smooth

stalk. In watery places. Per. June.

Hyemale. Rough Horse-tail with a rough naked stalk branchy towards the base. In watery places. Per. July, Aug.

OPHIOGLOSSUM. ADDER'S TONGUE.

The capfule is in two rows having many transverse joints, divided into as many cells, each opening when ripe, transversely, containing very small oval seeds.

Vulgatum. Adder's Tongue with an oval branch. Found by Mr Dickinson in company with feveral botanical friends, on Hale-fell near the Rocking-stone, West. Found by one of my pupils on Yealand-Common, betwixt Yealand and Warton, under the high ridge of rocks. Lan. plentifully.

OSMUNDA. OSMUND ROYAL.

The capfules are globose and distinct, placed on the branch and open horizontally, containing many small oval seeds.

Lunaria. Moonwort with a folitary trunk, and folitary pinnate branches. In mountainous paftures. On the fide of the Moat that furrounds Kendal-Castle. On Penniston-green, by Dumma-Cragg, on Stainmoor. Mr Lawson. Under the ledge of rocks between Yealand and Warton, and in the Flatwood belonging to the Rev. Mr Hest, Yealand, Lan.

Regalis. Flowering Fern or Osmund Royal with the branches on the stalks pinnate, and lanceolated. On the side of the Whitemoss, Yealand, and on the sides of

Leighton-moss, Lan. July, Aug.

242 CRYPTOGAMIA.

Spicant. Rough Spleenwort with lanceolated, pinnatifid branches, the fegments confluent, entire, and pa-

rallel. July.

Crispa. Stone Fern, the leaves minutely cut into an oblong and green pedicle. BAUH. Pin. 755. On crags and rocks. In Yorksh. and West. Per. Aug.

ACROSTICUM, FORKED FERN.

The fructifications are accumulated through all the lower part of the branch, fo as to cover it.

Septentrionale. Forked or Horned Fern with a naked, jagged branch. In the clefts of rocks. On the Welch mountains. On the fells above Ambleside. Per. Aug.

Ilvense. Hairy Fern with a bipinnate branch, the wings joined, obtuse rough and entire at the base. In the clifts of rocks.

Thelypteris. Marsh Fern with a pinnate branch, and the wings pinnatisid and entire. On mosily grounds. Per. Aug.

PETERIS. FEMALE FERN OF BRAKES.

The fructifications are placed linearly, and furround

SALUNDA CAUDE

the margin.

Aqualina. Female Fern or Brakes with a decompounded branch, pinnatifid leaves, lanceolated wings, the lower pinnatifid, and the upper ones lefs. In woods and heathy places. Per. Aug.

ASPLENIUM. HART'S TONGUE.

The fructifications are disposed in straight lines on the disk of the branch.

Scolopendrium. Hart's Tongue with simple cordate, tongue-shaped, entire branches, and rough stipes. Among the clefts of limestone rocks, most common.

Ceterach.

Ceterach. Spleenwort with pinnatifid branches, alternate, confluent lobes. About Bristol. On old walls. Per.

Trichomanes. Common Maidenhair with pinnatifid branches, and roundish crenated wings. In stony places, old walls, and shady places. Per.

Viridi. Green Maidenhair with a pinnate branch and roundish wings, truncated at the base. On moist rocks

in Yorksh. and West. Hudson.

Marinum. Sea Maidenhair with a pinnate branch, obovate, ferrated wings, gibbous and obtuse at the segments, and wedge-like at the base. On the rocks by the sea side. Per.

Rutamuraria. White Maidenhair with branches alternately decompounded, the leaves wedge-like and crenulated. In the clefts of rocks.

Adianthum Nigrum. Black Maidenhair with branches tripinnate, the leaves alternate, the wings lanceolated and ferrated. In shady places and old walls.

POLYPODIUM.

The fructifications are distributed in round dots on the leaf.

Vulgare. Common Polypody with pinnatifid branches, oblong, obtuse serrated wings, and a squamous root. On old walls and at the roots of trees.

Cambricum. Jagged Polypody with pinnate branches,

ferrated, lanceolated wings. Per,

Longchitis. Great Polypody with pinnate branches, lunulated, ferrated, ciliated wings, and strigose petioli. In the clefts of rocks in Wales and near Bingley in York-shire. Per.

Phegopteris. Wood Polypody with bipinnate branches,

and reflex fegments. Per.

Fragrans. Sweet Polypody with bipinnate, lanceolated branches; the fegments thick fet, the lobes obtute and ferrated, a paleaceous stipes. In the moist clefts of rocks near Keswick, Cumb. Per.

Ii 2. Felix.

Filix mascula. Male Polypody or Fern with a bipinnate branch, obtufe, crenulated pinnulæ, and a paleaceous iti es Per.

Fontanum. Rock Polypody with lanceolated, pinnate

branches, roundish leaves and smooth stipes.

Famina. Female Polypody with a bipinnate branch,

lanceolated, pinnatifid, acute pinnulæ. Per.

Aculeatum. Prickly Polypody with a bipinnate branch, lanceolated, oval, dentated, ciliated wings, and strigose stipes Per.

Lobatum. Lobed Polypody with a bipinnate branch, lanceolated, oval, ciliated wings and strigose stipes. Per.

Cristatum. Crested Polypody with bipinnated branches, oval, oblong fegments, obtule wings, acutely ferrated at

the apex. In moift shady places. Per.

Rhæticum. Stone Polypody with a bipinnate branch, the fegments and wings acutely fowed. On rocky mountains in West.

Fragile. Brittle Polypody with a bipinnate branch,

remote fegments, and roundish cut wings. Per.

Dryopteris. Branched Pelypody with a decompound branch, and the fegments bipinnate by threes. In dry Stony places in Yorksh. Lan. West. and Cumb. Hudson.

ADIANTHUM.

The fructifications are placed in oval spots, the points

of the leaves being reflex.

Capillus Veneris. True Maidenhair with decompound branches; alternate leaves; the wings shaped like wed-

ges. On rocks most commonly. Per.

Trapeziforme. Shining Maidenhair with decompound branches, alternate leaves, wings cut like a rhomb, bearing fruit on both fides. In Scotland. R. Sy.

TRICHOMANES.

The cup is turbinated, folitary, and erect from the margin of the leaf. The style is hairy and terminates

the capfule.

Pyxidiferum. Cup Trichomanes with bipinnate branches, and the wings alternately lobate and linear. Found on rocks and stones moistened with water. Found by Dr Richardson at Relbank, scarce half a mile from Bingley, at the head of a remarkable spring. R. Sy. Per.

Tunbrigense. Tunbridge Trichomanes with pinnate branches, and lobate, oblong, crenulated wings. Common on the mountains of West. Found upon the moist rocks in Wales, and near Settle by Dr Richardson: Near Tunbridge by Mr Dare; at Cockbush, six miles from Chichester, by Mr Rand, and Mr Sherard. R. Sy. Aug.

FINIS.

CRYPTOGANTALAS 245 2 PRICHOMINANTER margen of the leth. I be tiple is harry and remaining TO THE POST OF THE REST OF THE PARTY OF THE PA

THE

GLOSSARY.

THE

LOSSAR

THE

weeth the flower. of leaves that have a does chart

GLOSSARY.

BORTIENS or ABORTI-ENT FLOWER, is faid of a barren masculine flower, or Abortient may signify such fruits as are produced too early and never arrive at maturity.

the one; or a lear referrales the

CERSECUES BENEROUS

CAN MICUENTED IN CAR

ACULEI, are prickles which proceed from the bark of the

plant.

ACULEATED, is faid of a flalk or stem that is furnished with aculei or prickles.

ACUMINATED, sharp point-

ed

ADSCENDENS, or ASCEN-DENT, is faid when the stamina and pistil are concealed under the upper lip of the slower. An Afcendent stalk is when all the branches are turned upwards.

AMENTUM, is a catkin or pendulous farina hanging like a cat's-tail, such as we find on the

hazle-tree.

ANGULATED, having an-

gles.

are small knobs or summits plac-

ed on the points of the stamina, and are of various figures.

REMINATE COLUMN WEST

foot-fally that cruze smaller to+

APETALOUS, without petals

or flowers.

APEX, pl. APICES, is the fummit of any thing.

APHYLLOUS, destitute of

leaves.

APPENDICULATED, hanging as an appendage, e. g. appendiculatus petiolus a little appendage hanging from the extremity of the foot-stalk.

APPROXIMATING, is faid of leaves or any other parts that

grow near together.

ARILLI, are the external tunics or coats of the feed that fall off spontaneously.

ARISTA, pl. ARISTÆ, sharp points like bristles, the beard of

corn, &cc.

ARISTATED, is faid of fuch

plants as have those ariftæ.

ASSURGENT, erect like a bow first bent, then rising erect towards the apex or point.

ATTENUATED, is faid of a

foot-stalk

foot-stalk that grows smaller towards the flower.

AWNS. vide Arista.

В.

IDENTATED, having two dents.

BIFURCATION, having the

appearance of two forks.

BIEID divided into two parts. BIFIDO - CANALICULAT-ED, being doubly channelled

BILABIATED, fignifies a cup

or flower with two lips.

BILAMELLATED, having

two thin plates.

BILOCULAR, having two

cells.

BIPINNATE, doubly wing'd, when the folioles of a pinnate

leaf are pinnate

BRACHIATED, a brachiated flalk branching in pairs, each pair standing at right angles with those above and below.

BRACTEÆ, are thin small leaves, fuch as those that arise among the flowers of feveral fpe-

cies of Orchises.

BULB, a bulb or bulbous root expresses a root of a roundish figure, and usually furnished with hibres at its bafe.

BULBIFEROUS, bearing

grow near togethers.

bulbs.

2001-1001

ARILLI, avone external tu-

ADUCOUS, falling away , at the first bursting out of the flower.

CALICULATED, is faid of fuch cups as have another cup at their bafe. Jobs aved to at

CALYX, a flower cup of which there are feveral kinds.

CAMPANULATED, shaped like a belle and an and all and

CANALICULATED, is faid of leaves that have a deep channel running from the base to the point.

CAPILLACEOUS, or CA-PILLARY, having hair or hai-

ry down.

CAPSULE, a hollow pericarpium or feed-veffel, which cleaves or parts in some determinate manner and confifts of valvula, dissepimentum, columnella, and loculamentum; which fee.

CARINATED, is faid when the back of a leaf refembles the

keel of a ship.

CATKINS. vide Amentum.

CERNUOUS, bended with the apex so as not to be raised because of the curvature of the peduncle; nedding or hanging down its head.

CILIATED, like the hairs of

the eye-brow with knobs.

CIRRHI, are those slender spiral threads whereby a plant is fastened to any adjoining body.

COCHLEATED, shaped like a fnail's shell, as the legumen of

Snail trefoil.

COLUMNELLA, a little column, the fubstance that passes thro' the capfule, and connects the leveral partitions and feeds.

COMPRESSED LEAF, a leaf refembling a cylinder compressed on the opposite side, a compressed leaf is one with a mark or impreffion on both fides.

CONFLUENT, to flow or

run together.

CONGLOMERATED, is faid when flowers are irregularly crowded together.

CONICO-OBLONG, more oblong than conical.

CONVOLUTED, a term in foliation, when the leaf is rolled up like a feroll of paper. CONNIVENT, CONNIVENT, approaching or inclining.

CONTORTED, twifted like

a screw.

CORIACEOUS, like leather. CORNICULATED, hardlike a horn.

COROLLULA, a little corol-

la.

CORONATED, having a

crown.

CORYMBUS, or CORYM-BOSE, a kind of a fpike, the flowers of which, have each its proper small pedicle or partial foot-stalk raised to a proportionable height.

of the feed of a porous substance and perishable, or seminal leaves.

CRENATED, leaves whose edges are indented contiguous to one another and are neither turned towards the point nor base, are said to be crenated.

CRENULATED, the fame

as crenated.

CRUCIFORM, in the form of a cross, cross-shaped flowers disposed in the shape of a cross, as in the class of Tetradynamia.

CUCULLATED, shaped like

a hood or cone.

CUSPIDATED, is faid of a leaf whose apex resembles the point of a spear or lance.

D.

DECAGONAL, having ten angles.

DECEM-STRIATED, having

ten furrows.

DECIDUOUS, falling away

with the flower.

DECOMPOSITE, is faid when the *petiolus* once divided joins feveral fmall leaves.

DECOMPOUND, expresses a leaf the common petiale of which divides itself twice before it is furnished with leaves.

DECUMBENT, is faid when the piftil and flamina decline to-

wards the lower fide.

DECURRENT, a leaf which adheres to the stalk or branch without any pedicle and which has its lower part extended and running along the branch,

DEFLEX, bent a little down-

wards.

DELTOID, having four angles whereof those of the summit are further distant from the center than those of the sides.

DENTICULATED, having fmall dents.

DIADELPHOUS, is faid of plants whose flamina adhere together, forming two dissimilar bodies, the one above the pissil the other furrounding it.

DICHOTOMOUS, having

branches divided two ways.

DIDYMOUS, signifies double and is generally said of those antheræ that come by pairs on each filament.

DIFFUSE, when the branches of the stalk spread different ways.

DIGITATED LEAF, means a compound leaf, composed of a number of simple small leaves, placed regularly on a common petiole, tho' strictly speaking there must be more than four small leaves to make a digitated leaf.

DIGITATO-PARTITE, divided partly in the shape of the singers.

DILATED, widened or ex-

tended.

DIOICOUS, having male and female flowers on diffinct plants.

Kkz. DIPHYL-

DIPHYLLOUS, having two leaves.

DISSEPIMENTUM, is a par-

tition between feeds.

DISK, an aggregate of florets forming as it were a plain furface.

DIVARICATED, bifid, or divided into two.

E.

BRACTEATED, without bractea, or floral leaves.

ECAUDATED, without a

fpur or tail.

ELLIPTICAL, shaped like an egg.

ELONGATED, lengthened

or drawn out.

EMARGINATED, is faid of fuch as have a little indenting on their fummits, when this indenting is terminated on each by obtuse points they are said to be obtusely emarginated, when they are acute, they are acutely emarginated.

EMARGINATO-BIFID, bifid and fomewhat emarginated.

EMPALEMENT, the flower

cup.

EXCAVATO - PUNCTAT-ED, an excavato-punctated leaf is a leaf with hollow dots or points.

EXSTIPULATED, without flipulæ, which see.

F.

PARINIFEROUS, bearing farina or male-dust.

FASCICULATED, bundled, leaves growing in bunches.

FASTIGIATED, fastigiated peduncles are peduncles pointed at the fummits.

FAUX, the jaw.

FILAMENTS, same as stami-

na, but properly only the threadlike part of the flamina.

FISTULOSE, or FISTU-

LOUS, hollow like a pipe.

FLORAL-LEAF, a leaf that immediately attends the flower.

FLOSCULI, or FLOSCULE,

are little flowers.

FOLIOLE, pl. FOLIOLES, a little leaf, one of the fingle leaves, which together compose a compound leaf.

FORAMINA, are fmall per-

forations.

FRONS, a species of trunk composed of a branch and leaf blended together, and is frequently united with the fructification; it properly belongs to the palmee and felices or ferns.

FUSIFORM, a fufiform root is fpindle shaped, i. e. thick, ob-

long and attenuated.

G.

ERMEN, pl. GERMINA, is that rudiment of the fruit which is placed at the bottom of the flyle, but not yet arrived to maturity.

GIBBOUS, bunching out, fwoln, when by the quantity of pulp both furfaces are convex.

GLANDULE, or GLANDU-LA, a gland or secretory vessel.

GLOBOSE, a folid body, that is made after the manner or like to a globe, or round body.

GLOBOSO-TETRAGONAL STALK, means a square stalk but ratherly globose.

GRANIFEROUS, bearing

knobs like feeds or grain,

GRANULATED, is faid of fuch roots as bear knobs like feeds or grain.

GLUMA, a species of calyx or

cup common to graffes.

H.

H.

HEPTAPHYLLOUS, having feven leaves.

HERBACEOUS, is faid of flalks that dry annually, and are graffy, or after the manner of

grafs.

HERMAPHRODITE-FLOWERS, are such slowers as have the organs of both sexes, viz. both slamina and pistil.

HEXAGONAL, having fix

faces or angles.

HEXAPETALOUS, having fix flower petals.

HISPID, covered with thick

and rigid hairs.

HYPOCRATERIFORM, in fhape like a cup or falver.

I.

MBRICATED, placed one over another like the tiles of a house.

IMPERFORATED, not pier-

ced through.

IMPERVIOUS, not pervi-

INCISE, cut into irregular

fegments,

INCRASSATED, is faid of foot-stalks that increase in thick-ness as they approach the flowers.

INCUMBENT, is faid of the antheræ when they are fixed on the flamina by the fides instead of the base.

INDURATED, hardened. INFLEX, bended inwards.

INFUNDIBULIFORM, shaped like a funnel.

INFLEXO - UNCINATED,

turned inwards and hooked.

INVOLUCELLI, are partial involucea or cups of the umbelliferous plants standing at a distance from the slower.

INVOLUCRUM, pl. INVO-LUCRA, a kind of a cup which furrounds a number of flowers together, as in the umbelliferous plants.

L.

ACINATED, or LACINI-ATED, jagged, a leaf cut into irregular incisions.

LANCEOLATED, fliaped

like a lance.

LEGUMEN, pulse, a pericarpium of two valves, in which the seeds are fixed along one suture only, as in the seed-vessel of the pea.

LIGULATED, an appellation given to fuch flofeules as have a straight end turned downwards, with three indentures, but not divided into segments.

LOBATE or LOBATED, confifts of lobes or fegments cut to the middle of the leaf.

and convex at the edges.

LOCULAMENTUM, a cell, the divisions of that species of feed-vessels called a capsule.

LUNULATED, shaped like

a crescent or half moon.

LYRATO-HASTATED, is shaped partly like a harp or lyre, and partly like a spear.

M.

MELLIFEROUS, bearing honey.

MEMBRANACEOUS, is faid when leaves have no diftinguishable pulp between their furfaces.

MEMBRANES, a pliable texture of fibres interwoven toge-

MONOPETALOUS, a flower confifting but of one petal.

MONOPHYLLOUS, a cup confishing but of one leaf.

MONO-

MONOSTACHYOUS, confifting of but one range or order.

MUCRONATED, fharp

pointed.

MULTIFID, a leaf divided into many linear fegments or divilions.

MULTIPARTITE, divided but rather oval.

into many parts.

MURICATED, full of sharp lid. points like the murex shell.

TAVICULAR, refembling a fhip.

NECTAR, honey juice.

NECTARIUM, pl. NECTA-RIA, is sometimes a part of the corolla, and fometimes, tho' rarely the whole, and it is that part destined for the honey juice, and varies both in figure and fituation.

NECTARIFEROUS, bearing

nectar.

NUTANS, is faid when a flower bears a piffil longer than the stamina.

BCORDATE, heart-shaped with the apex downwards.

OBLIQUE, when the apex points obliquely towards the horizon.

OBLONGO-OVATE, partly oblong, but rather more of an

OBLONGO - LANCEOLA-TED, shaped like a lance, but rather oblong.

OBTUSO-HEADED, blunt-

ly headed.

ORBICULAR, round or in

the form of an orb.

OVALI-GLOBOSE, a globole leaf partly oval.

OVATO-CORDATE, heartshaped, but somewhat oval.

OVATO - LINEAR, linear,

but partly oval.

OVATO - SUBULATED, awl-shaped but somewhat oval.

OVATO-OBLONG, oblong

OPERCULUM, a cover or

PALEACEOUS, having pa-

leæ or chaff.

PALEA, or PALEÆ, chaff, a thin membrane rifing from a common receptacle which separates the flosculi.

PALMATED, shaped like the

open hand.

PANICLE or PANICULA, a foft woolly beard on which the feeds of some plants hang.

PANICULATED, having a

panicle.

PAPPOUS, downy.

PAPILIONACEOUS, an appellation given to some flowers from their supposed resemblance to a butterfly, as the pea-flower and many of the trefoil-flowers.

PEDATED, when the divifions of a leaf refemble a foot it

15 pedated.

PEDICELLI, are partial pe-

duncles or little foot-stalks.

PEDUNCLE, is that part of a stalk which immediately suftains the leaf of a flower or fruit, and is commonly called a foot-

PEDUNCULATED, having

peduncles.

PELTATED, means a leaf the petiole of which is affixed to the disk and not to the base or edge of a leaf.

PENNI-

PENNICILLIFORM, in the form of a painter's brush.

PENTAGONAL, having five angles.

PENTAPETALOUS, having

five petals.

PENTAPHYLLOUS, having

five leaves.

PERFORATED, pierced through.

PERICARPIUM, a feed-vef-

fel.

PERMANENT, frequently means a cup that remains, when the flower is gone, till the fruit be ripe.

PERSONATED. vide ringent PERVIOUS, having an opening through.

PETALS, the distinct divi-

fions of a flower.

PETIOLE, a little foot-stalk.

PETIOLATED, having a foot-stalk.

PILOSE, having long distinct

hair on the furface.

PINNATE, winged.

- PINNULÆ, fmall wings.

PINNATIFID, cut in the

shape of a wing.

PINNATO-HASTATE, in fhape of a halbert, but a little pinnate.

PISTIL, the Ayle or female or-

PLICÆ, are folds or plaits.

PLUMOSE, downy.

POINTAL. Vide pifiil.

POLYGAMY, fignifies many marriages, i. e. hermaphrodite male or female or both.

POLYPHYLLOUS, having many leaves.

PRÆMORSE, bitten.

SOUARS

PROCUMBENT, lying on the ground.

PRISMATICAL, triangular.

PYRAMIDAL, or PYRAMI-

DICAL, like a pyramid.

PULPOSE-LEAF, is a leaf having a fleshy or pulpy substance.

PUNCTATED, marked with

hollow dots or points.

PUNCTUM, a hollow dot or

Q.

OUADRANGULAR, hav-

QUADRIDENT'ATED, hav-

ing four dents or points.

QUADRIFID, divided into

four parts.

QUADRILOCULAR, hav-

ing four cells.

QUADRIPARTITE, having four divisions down to the base.

QUADRISULCATED, having four furrows lengthways.

QUADRUPLEX, four fold. QUINQUANGULAR, hav-

ing five angles.

QUINQUIFID, a quinquisidleaf consists of five divisions with linear sinuses, and straight margins.

QUINQUELOBED, having

five lobes.

QUINQUEPARTITE, having five divisions down to the base.

QUINQUEDENTATO-ACUMINATED, having five points that are sharp.

R.

RADIATED-FLOWERS, are fuch as have feveral femifiofcules fet round a disk in form of a radiant,

diant flar, those which have no fuch rays are called discour-flowers.

RADICATED, a radicatedleaf is a leaf thooting out roots.

RADICAL, belonging to the

RADIUS, is the semifloscules that furround the difk.

RAMOSE. vide racemofe.

RAY, vide radius.

RECEPTACLE, that part of a plant to which the flower of the fruit adheres, which varies in various genera,

RECURRENT, running

backwards.

REPENT, creeping and shoot-

ing out here and there.

RE I I CULO-VENOSE, a reticulo-venoje leaf, is a leaf whole furface is full of veins lomewhat fix parts, like net-work.

RETUSE, when the apex of

a leaf is blunt.

RHOMBOIDAL, refembling a Rhombus or Rhomb which is a quadrilateral figure, whose sides are equal and parallel, but the angles unequal, two of the oppofite ones being obtuic, and the other two acute.

RINGENT, personated or

having two lips.

ROTUNDO-OVATE, oval,

but rather roundilh.

ROTUNDO - TETRAGO-NAL, having four angles rather roundish.

RUGOSE, full of rugæ or

wrinkles.

SHALL

CAGITTATED, shaped like an arrow.

SCABROUS, having feveral irregular prominences on the furface. to smot as a hapon sol

SCROTIFORM, in the form of the Scrotum.

SEMIBIFID, half way divided into two.

SEMICORDATE, half cordate.

SEMICYLINDRICAL, like a half cylinder.

SEMIORBICULAR, half or-

bicular.

SEMIOVAL, half oval.

SEMIQUINQUIFID, way divided into five.

SERRATO-GLANDULOUS bearing glands and partly ferra-

SESSILE, a sessile leaf grows immediately to the ffem.

SE TACEOUS, like briftles. SEXPARTITE, divided into

SILICULOSA, 1 two orders SILIQUOSE, In the class Tetradynamia.

SIMPLE, or SIMPLEX, fim-

ple or fingle.

SINUATED, a finuated leaf is a leaf whole fides are hollowed or scolloped.

SINUATO - SERRATED. ferrated and partly finuated.

SOLITARY, when fingle. SPADIX, the receptacle of a palm, a peduncle which proceeds from a spatha.

SPATHA, a fort of calyx or cup which confifts of a simple membrane growing from the stalk, and rejembles a sheath.

SPINOSE, having spines or strong prickles, which proceed from the wood of the stem, and not from the bark.

SQUAMA, a scale.

SQUAMOSE, or SQUAM-

OUS, having scales.

SQUAMULA, pl, SQUAMU-LAE, iniall feales.

SQUAR.

SQUARROUS, rough, fca-

ly, or icurty.

STALK, the terms used in describing the stalk of a plant, are 1. SIMPLE, is one that runs up undivided from the root to the top; 2. NAKED, when it has no leaves; 3. FOLIOSE, when it date. has leaves on; 4. RAMOSE, when it sends out branches; 5. ERECT, when it rifes up straight; 6. OB-LIQUE, when flanting; 7. Vol-WTE, when it twifts round other things; 8. FLEXOUS, when it bends; 9. RECLINATE, when it stoops towards the ground; 10. PROCUMBENT, when it lies upon the ground; II. CREEP-ING and SARMENTOUS, when it emits roots as it runs along. If a stalk makes two angles it is called ANCIPITAL, if three TRIGO-NAL, if four SQUARE, if more POLYGONAL, if it be lightly ridged and furrowed on the furface, it is faid to be STRIATED, if more deeply furrowed CANA-LICULATED OF CHANNELLED.

STAMINA, are the small standards in the inside of the flower, otherwise called chives,

filaments, or threads.

STELLATE LEAVES, leaves furrounding the stem, like the rays of a circle.

STIGMA, pl. STIGMATA,

is the fummit of the piftil.

STIPES, the base or trunk of a frons and belongs to the palmæ felices or fungi.

STIPULÆ, are scales at the

base of the petioli.

STIPITATED, is faid when the trunk elevates the down, and connects it with the feed.

STRIATED, having a number of longitudinal furrows on the furface.

STRIÆ, are channelled fireaks

running lengthwife.

STRIGOSE, stiff with bristles. STYLE, is a part of the piftil, placed on the germen, supporting the fligma.

SUBCORDATE, partly cor-

SUBGLOBOSE, partly globofe. SUBOVATE, partly oval.

SUBULATO-CAPILLACE -OUS, hairy and partly awl-shap-

SUBULATO-CAPILLARY, the fame as Subulato-capillaceous.

SUBULATO-LINEAR, is linear, but rather awl-shaped.

SULCATED, deeply furrowed. SUTURE, a feam or fowing.

ERMINATORY, by a terminatory flower is meant the end flower.

TETRAPETALOUS, having

four petals.

TETRAPHYLLOUS, having four leaves.

TETRAGONAL, four cor-

nered or iquare,

TOMENTOSE, a tomento/e leaf is covered over with a whitish down like wool.

TOROSE, brawny protuberances, like the swelling of the veins, when a feed-veffel is bunched by the inclosed feeds.

TRICOCCOUS, a tricoccous capfule, is a capfule with three cells, and a fingle feed in each cell.

TRIFID, cut into three parts. TRIFOLIATE, having three leaves.

TRICUSPIDATED, pointed.

having TRIDENTATED, three dents.

TRI-

LI.

TRIGONAL, having three fides.

TRILOBED, having three lobes.

TRILOCULAR, having

TRIPHYLLOUS, having three leaves.

TRIPARTITE, divided into

three parts.

TRIPARTITO-MULTIFID partly tripartite and partly multifid.

TRIQUETROUS, having

three plain fides.

TRISULCATED, having

three furrows.

TRUNCATED, an appellation given to fuch leaves as have or feem to have their points cut off.

TUBERCLE, a kind of round turgid root, in form of a knob or

turnip.

TUBERCULATO - CILIA-TED, like the hair of the eye brows with knobs.

TUBULOSE, or TUBULA-TED, formed like a tube as are most of the labiated flowers.

TUNICATED, having coats

one over the other.

TURBINATED, fignifies spiral or wreathed from a larger basis to a point.

TURBINATO-CORDATE, partly cordate and partly turbi-

nated.

TURGID, swollen or puffed out.

U.

UMBEL, or UMBRELLA, fee plate V. figure 113 which represents an umbelliferous flower.

UMBELLULA, a fmall um-

UMBELLICATED, a peltate leaf shaped like a navel at the insertion of the foot-stalk.

UNCINATED, hooked. UNDULATED, waved

UNDULATO-SERRATED,

Serrated and partly waved.

UNGUES, nails or claws, are those parts of a petal that are joined to the receptacle.

UNGUICULATED, having

ungues.

UNILOCULAR, having one

cell.

V.

VALVULA, or VALVES, a partition of the external cover of a capfule.

VARIEGATED, of different

colours.

VENOSE, having veins.

VENTRICOSE, narrow at each extremity and swelling out in the middle.

VERRUCOSE, having little knobs or warts on the furface.

VERTICILLATE, placed in whorls, i. e. branches, flowers, or leaves furrounding the stem, like the rays of a wheel.

VERSATILE, is when the anthera is fixed by the middle on the point of the filament, and fo poised as to turn like the needle of a compass.

VEXILLUM, is that part of a papilionaceous flower that lays over the wings and the keel.

VILLOSE, having foft hair.

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