

An introduction to botany : containing an explanation of the theory of that science; extracted from the works of Dr. Linnæus; with twelve copper plates, two explanatory tables, an appendix, and glossary.

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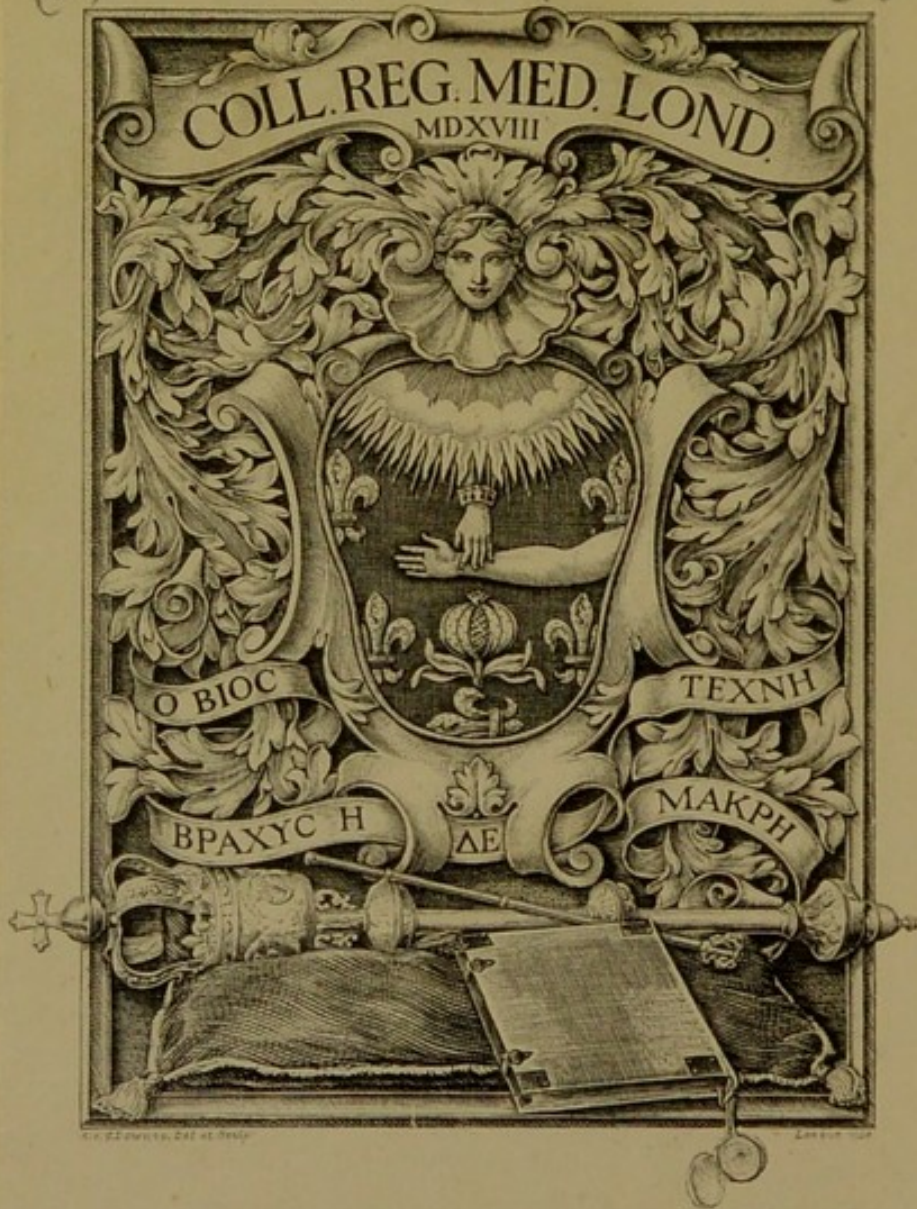
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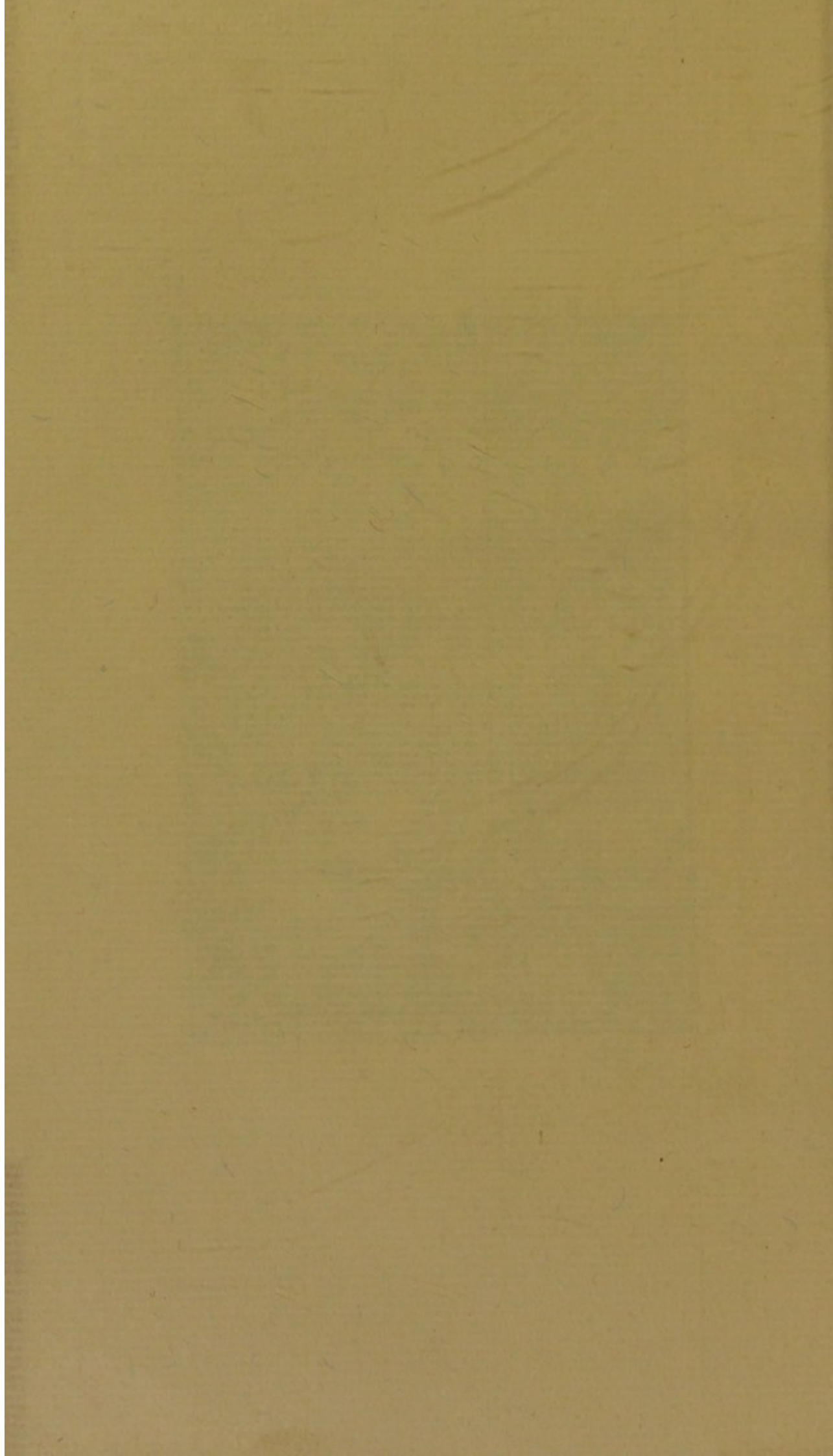
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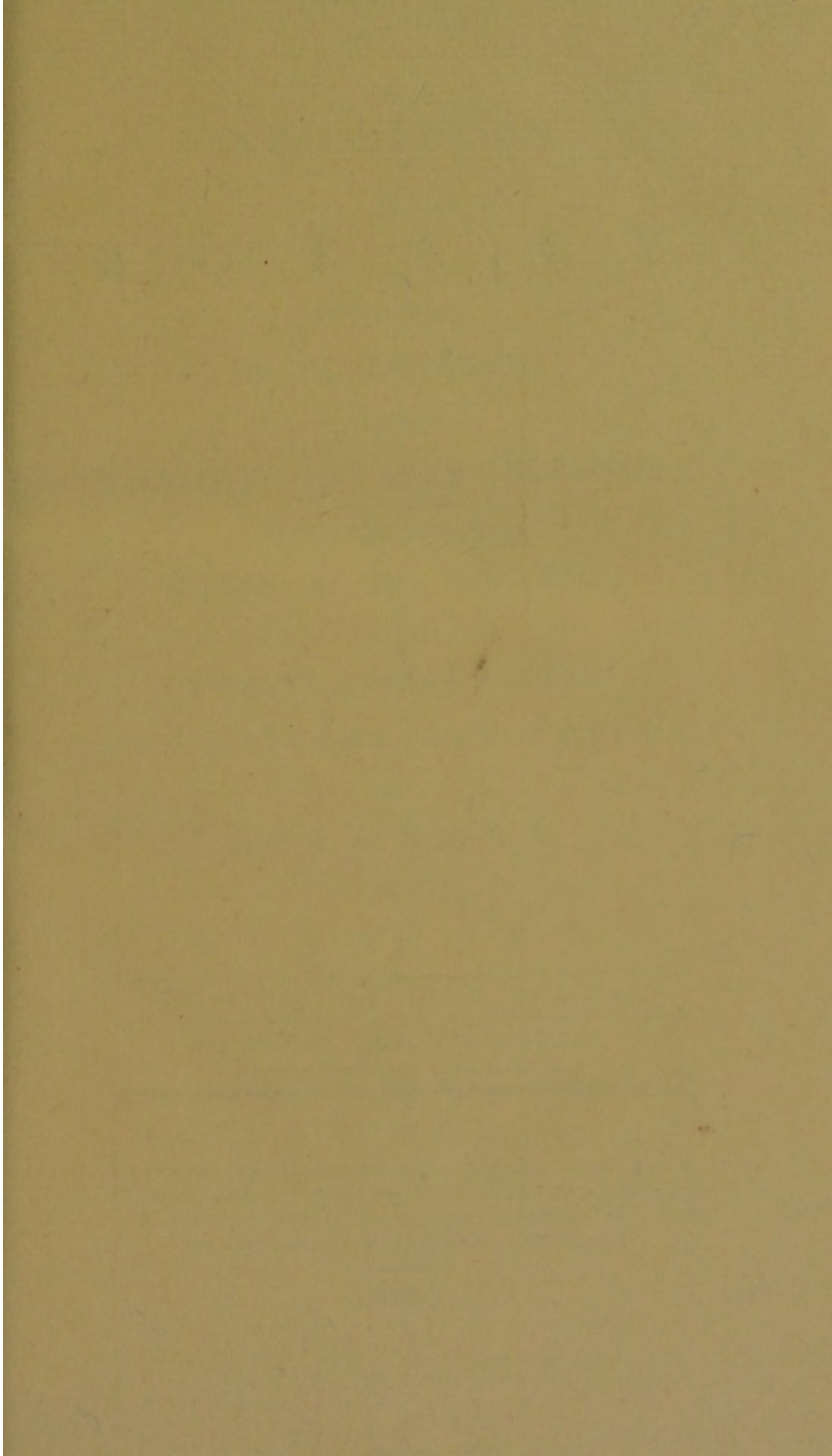
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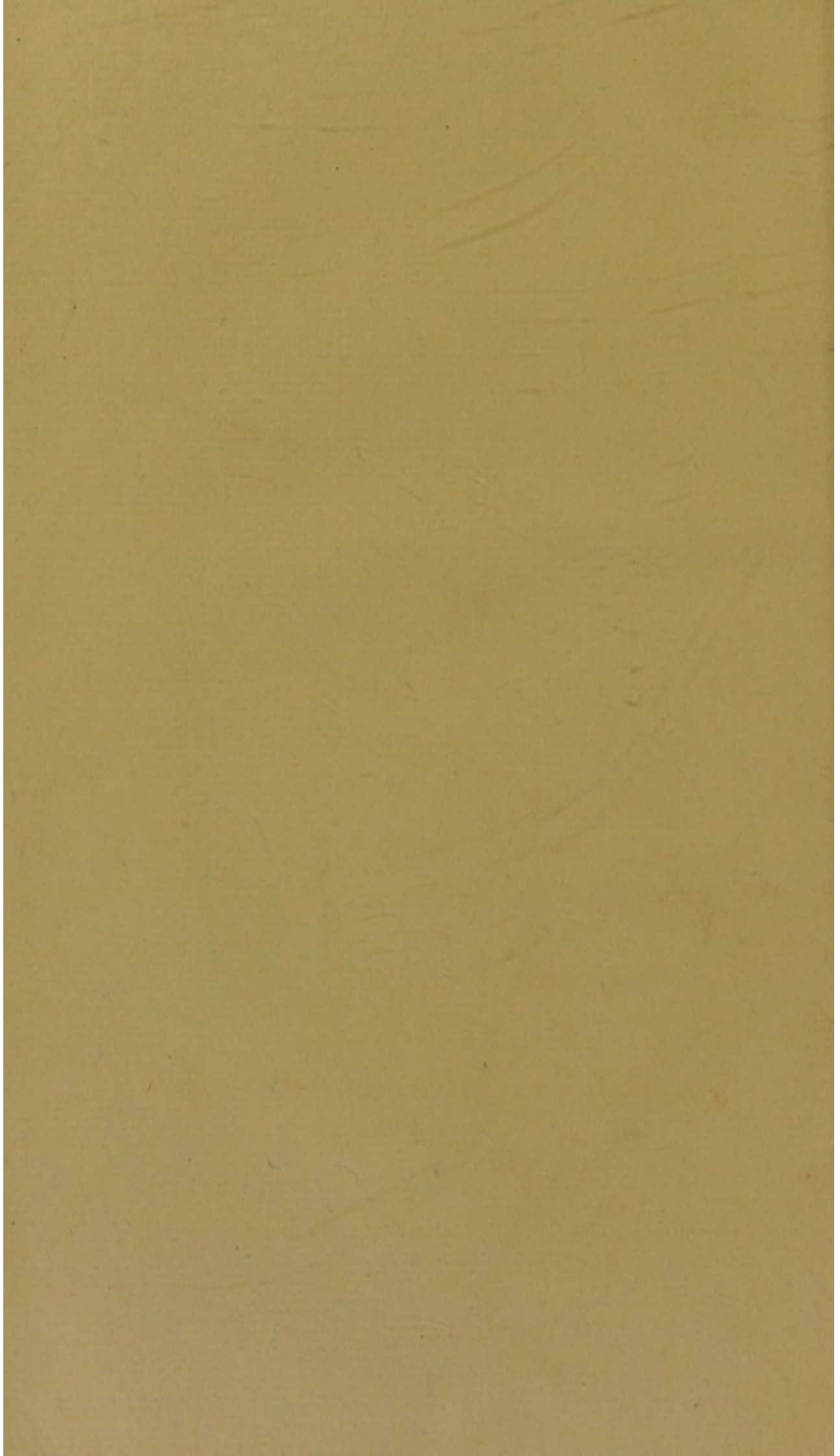
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1796

AN
 INTRODUCTION
 TO
 B O T A N Y.
 CONTAINING
 AN EXPLANATION
 OF THE
 THEORY OF THAT SCIENCE;
 EXTRACTED FROM THE
 WORKS OF DR. LINNÆUS;
 WITH
 TWELVE COPPER PLATES,
 TWO EXPLANATORY TABLES,
 AN
 APPENDIX,
 AND
 GLOSSARY.

THE FIFTH EDITION, CORRECTED,

By JAMES LEE, NURSERYMAN,
 AT THE VINEYARD, HAMMERSMITH.

L O N D O N :

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1794.

INTRODUCTION
TO
A
Y. A. T. O.
CONTAINING
AN EXPLANATION
OF THE
THEORY OF THAT SCIENCE

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P R E F A C E.

THOUGH the Study of Botany is of late Years become a very general Amusement in this Country, there has yet appeared no Work, in our own Language, that professedly treats of the Elements of that Science; it is therefore hoped, that what is now offered to the Public, if it shall appear to have been carefully executed, will be considered as a Performance of some Utility. The Matter it contains, or at least the far greater Part of it, will probably be new to the *English* Reader; for though some few Explantations of the same Kind may be found interspersed in larger Works, these are for the most Part too costly to fall into many Hands; nor could the Reader expect to find therein the Whole of what he seeks, the explaining the Theory of the Science not having been the immediate Object of those Publications.

The Matter of the following Sheets has been collected from the Works of the celebrated Dr.

Linnaeus;

Linnaeus; whose Labours for the Reformation of this Science in general, and whose Invention of the Sexual System in particular, are well known. As the Writings of this learned Professor are interspersed with philosophical and critical Remarks, that are of less general Use, it was thought that a direct Translation of any of his Works would not be so well received, as what is now given; which contains an Extract of his most material Doctrines. The Method in which these have been distributed in the following Chapters, we propose to explain; but to render this more intelligible, it will be expedient to lay before the Reader a short Account of those Discoveries that have given Occasion to the Moulding of this Science into a Form so different from that in which it appeared in the last Century.

The *Sexual System* of Botany, as its Title imports, is founded on a Discovery that there is in Vegetables, as well as in Animals, a *Distinction of the Sexes*. This was not wholly unknown to the Ancients; but their Knowledge of it was very imperfect. In order to shew in what Respect this Discovery has been investigated farther by the Moderns, it will be necessary to anticipate

ciate Part of the Subject Matter of the following Chapters.

It will be seen in the Course of this Work, that the Flowers of the Generality of Vegetables are *Hermaphrodite*, containing within them the Characters of both Sexes ; but that in the Classes *Monoecia* and *Dioecia*, the Sexes are parted, and allotted to different Flowers ; and that in the Class *Dioecia* in particular, the Sexes are even on different Plants, the Male Flowers growing all upon one Plant, and the Female upon another. Now this last Circumstance the Ancients had observed : indeed it could hardly escape their Notice ; for the Palm-Tree, whose Fruit was in Esteem, being of the Class *Dioecia*, a very little Observation was requisite to teach them, that in these Trees the Flowers of the Male were necessary to ripen the Fruit of the Female. Accordingly we find, in the Account given by *Herodotus* * of the Country about *Babylon*, where these Trees are in plenty, that it was a Custom with the Natives, in their Culture of this Plant, to assist the Operations of Nature, by gathering the Flowers of the Male Trees, and carrying

* Book the First.

them

them to the Female. By this means they secured the ripening of the Fruit; which might else, from unfavourable Seasons, or the Want of a proper Intermixture of the Trees of each Sex, have been precarious, or at least not to have been expected in equal Quantities.

It seems pretty extraordinary, that this Discovery should not have led the Ancients to detect the whole Process of Nature in the Propagation of the various Species of Vegetables; and yet it does not appear, by any of their Writings, that are come down to us, that they went farther than this obvious Remark upon the Palm-Tree, and some similar Notions concerning the Fig. They had indeed, from what they saw in these Plants, formed a Notion that all others were Male and Female likewise*; but this Notion

* Thus *Theophrastus*:

“ In Trees, considered universally, and taking in each
 “ several Kind, there are, as has been said many Dif-
 “ ferences. One of these is common to them all,
 “ namely, that by which they are distinguished into
 “ Female and Male, of which the one bears Fruit,
 “ the other not, in some Kinds; in those in which
 “ both bear Fruit, that of the Female is the best, un-
 “ less these are to be called Males, for so they are
 “ called by some.”

Hist. Pl. Book iii. Chap. 9.

was false, the far greater Part having Hermaphrodite Flowers, and serves to convince us, that what they discovered of the Palm and Fig, was only a right Guess, and not founded on any Knowledge of the Anatomy of Flowers, either in those Trees, or any others.

In this dark State the Doctrine of the Sexes of Vegetables remained, not only through all the Ages of Antiquity, but almost to the End of the last Century, the Moderns seeing no more of this Doctrine than the Ancients had done before them; and hence we have to this very Hour in Use, the false Distinctions of Male and Female Species of *Cornus*, *Pæony*, *Cistus*, and many others, which have all Hermaphrodite Flowers, the Distinction in these Cases being grounded on nothing more than some Difference in the Habit of the two Species with which the Sexes are no ways concerned.

The Honour of having first suggested the true sexual Distinctions in Plants appears to be due to our own Countryman, Sir *Thomas Millington*; from whose Hints Dr. *Grew*, as the Doctor himself acknowledges, was led to the Observations he has given on this Subject, in his

Anatomy of Plants *. After this, *Camerarius*, *Moreland*, *Geoffroy*, *Vaillant*, *Blair*, *Jussieu*, and *Bradley*, pursued their Enquiries and Experiments so far as to remove all Doubt concerning these Discoveries; and, lastly, Doctor *Linneus* founded thereon the System of Botany, which we are going to explain in this Work.

The Sexual Hypothesis, on its first Appearance, was received with all that Caution that becomes an enlightened Age; and Nature was traced experimentally through all her Variations, before it was universally assented to. *Tournefort* refused to give it any Place in his System; and *Pontedera*, though he had examined it, treated it as chimerical; but the Proofs which Dr. *Linneus* has stated amongst the Aphorisms of his *Funda-*

* Published in the Year 1682. The Doctor expresses himself thus: “ In Discourse hereof with our learned
“ *Savilian* Professor, Sir *Thomas Millington*, he told me,
“ he conceived that the Attire doth serve as the Male,
“ for the Generation of the Seed. I immediately re-
“ plied, that I was of the same Opinion, and gave
“ him some Reasons for it, and answered some Ob-
“ jections which might oppose them, &c.” *Anat. of*
Plants, 171.

menta Botanica *, and farther explained and illustrated in his *Philosophia Botanica* †, are so clear, that the Birth of Animals is not more evidently the Consequence of an Intercourse between the Sexes, than that of Vegetables; and it would be now as ridiculous for any one, who has looked at the Arguments, to doubt of the one as of the other.

We shall not attempt to lay all these Proofs before the Reader; our business is to explain, not demonstrate; but as it may be satisfactory to see some one Fact established, that carries Conviction with it, we shall here give an Extract of a Letter from *Berlin*, inserted in the *Philosophical Transactions* ‡, concerning a remarkable Experiment made on the Palm-Tree.

*Extract of Mr. Mylius's Letter to Mr. Watson,
dated at Berlin, Feb. 20, 1750—51.*

“ The Sex of Plants is very well confirmed,
“ by an Experiment that has been made here on
“ the *Palma major foliis flabelliformibus*. There

* Aphorism 132 to 150.

† Page 86 to 96.

‡ Vol. xlvii. Page 169.

“ is a great Tree of this Kind in the Garden of
“ the Royal Academy. It has flowered and
“ bore fruit these thirty years, but the Fruit
“ never ripened, and when planted, it did not
“ vegetate. The Palm-Tree, as you know, is
“ a *Planta Dioecia*, that is, one of those in which
“ the male and female Parts of Generation are
“ upon different Plants. We having therefore
“ no Male Plants, the Flowers of our Female
“ were never impregnated with the Farina of
“ the Male. There is a Male Plant of this
“ Kind in a Garden at *Leipsic*, twenty *German*
“ miles from *Berlin*. We procured from
“ thence, in *April*, 1749, a Branch of male
“ Flowers, and suspended it over our female
“ ones; and our Experiment succeeded so well,
“ that our Palm-Tree produced more than an
“ Hundred perfectly ripe Fruit; from which
“ we have already eleven young Palm-Trees.
“ This Experiment was repeated last Year,
“ and our Palm-Tree bore above two Thousand
“ ripe Fruit. As I do not remember a like
“ Experiment, I thought it convenient to
“ mention it to you; and, if you think proper,
“ be pleased to communicate it to the Royal
“ Society.”

This

This Letter, which was read to the Society the 2d of *May*, 1751, with some ingenious Observations on the same Subject, by Dr. *Watson*, F. R. S. to whom it was address'd *, has established the Fact, attested by the Ancients, concerning the Palm-Tree, which some may perhaps have looked upon as fabulous; and, as the Fructification in other Vegetables, though it may differ in particular Circumstances, has yet in general a manifest Conformity with that of the Palm-Tree, in respect to the Parts supposed to be the Organs of Generation, which are discoverable either on the same, or on a separate Flower, in all but the Class *Cryptogamia*, where they are too minute for Observation; so from this single Experiment we may fairly draw an Argument by Analogy for the Confirmation of the whole sexual Hypothesis: But there are, as has been said, other, and better Proofs. We have already directed the Reader to those stated by *Linnaeus*; whoever desires farther Satisfaction concerning this Point, may see the several Demonstrations collected, and methodically connected in the *Sponsalia Plantarum* of *J. Gustavus Walkbloom*,

* Printed also in the Philosophical Transactions with the Letter.

published in the *Amanitates Academicæ* at *Leyden*, in 1749.

Having thus explained, as far as seems necessary, the new Principles upon which the Reformation of the former vicious Systems of Botany has been undertaken by the later Botanists, we come to shew, as we proposed, the Method that has been followed in this INTRODUCTION to the Science.

The Work is divided into three Parts, and each Part into fundry Chapters. The Subject of each Chapter may be seen in the Table of Contents prefixed to the Work; but with respect to the three Parts, as no Title or Head explanatory of the Matter each contains, could be conveniently prefixed to them, it will be proper to explain here the Scope of this Division.

Vegetables, according to *Linnaeus*, are primarily divisible into three Parts. 1. The *Root*. 2. The *Herb* or Plant itself. 3. The *Fruetification*. And in this Order these Parts might have been treated, were it not on Account of the Sexual System; but as the Explanation of the latter was the principal Object of this Work,

it became necessary to give up the Order of the Parts of the Vegetable, and follow that of the System.

The System is divided, 1. into *Classes*. 2. *Orders*. 3. *Genera*. 4. *Species*. 5. *Varieties*. Now as the *Classes*, *Orders*, and *Genera*, which come first in the System, are established on the *Fructification* alone, it became necessary to give this Part of the Vegetable the Preference in Point of Order; and we have accordingly made the *Fructification* the Subject of the several Chapters of the first Part of this Work.

In the second Part, we have given a full Explanation of the *Classes*, *Orders* and *Genera* of the System; which indeed contain the whole *Theoretic* Part of it, the Doctrines of *Species* and *Varieties* having, as *Linnaeus* observes, a nearer Relation to the *Praetice*. The Reason for proceeding to the System immediately after the *Fructification* is manifest; as the Theory of the System is established on the *Fructification* alone, an Account of the latter was all that was necessary to prepare the Reader for understanding the Explanation of the former, which, as has been said, was the principal Object of the Work.

In the third and last Part, the two remaining Parts of the Vegetable, viz. the *Root* and *Herb*, are treated of: And as these chiefly furnish the Doctrines that respect the two last Divisions of the System, viz. *Species* and *Varieties*, so these Doctrines are also included in this third Part, and make the Conclusion of the Work.

The two Tables subjoined to the Work, have their Explanation prefixed; and we shall only speak here of their Utility. It is presumed that no exact Table of the *Linnean Genera* with their *English* Names, and a Reference to their Classes and Orders, as given in the first Table, has yet appeared in Print, our Writers not having adopted all the *Linnean* Names, nor followed that Author exactly in his Distribution of Vegetables; our first Table, therefore, cannot but be of great Use to those who are desirous of becoming acquainted with the Method of *Linneus*, and of framing the Lists of their private Collections upon the Plan of his System.

The Utility of the second Table, which contains the Names of the Genera rejected by *Linneus*,

neus, is obvious; it might have been augmented to ten Times its Bulk, had all the Names been inserted that have been given to Vegetables by the numerous Writers on this Science; but such a Collection would be a Work of itself; and it has been, therefore, thought adviseable to confine it to those only that are cited in the *Genera Plantarum* of *Linnaeus*, which contains the principal.

The *Table* of *English* Specific and Generic Names referred to in their *Linnaean* Titles, which is given in the *Appendix*, was not originally intended to have been added to the Work; but its utility to the *English* Botanist having been warmly insisted on by some of the Author's Friends, it was prepared whilst the rest of the Work was under the Press, and subjoined to it as an *Appendix*. It has been executed with Care: If, nevertheless, any Mistakes or material Omissions should appear, those who are versed in Botany will be the most ready to excuse them, as they must know the Difficulty of such an Undertaking, on Account of the great Number of Removes, made by Dr. *Linnaeus*, of particular Species, as well as of Genera, from their old Stations; this

Difficulty was the greater, because the Method of *Linnaeus* has hitherto been but partially adopted by our Writers, and therefore no Table given in any Work already published, could be depended on.

The Designs of the Figures of the Plates are for the most Part taken from those given by *Linnaeus* in his Works. Some of them might, perhaps, have been mended by fresh Designs from Nature; but as the Work here given to the Public is professedly an Extract of the *Linnaean* Doctrines, it was thought that the Figures he had himself selected, would, upon the whole, come the nearest to his own Meaning, and be of the greatest Help in explaining it.

The Reader will find placed before the Glossary, a Collection of all the Terms of Art, explained and numbered; the Use of these Terms, so collected, will appear evident, from the Manner of their Arrangement, beginning with the Root, and continued through the Trunk, Branches, Leaves, and Fructification.

This

This will be necessary on all Occasions to the Learner in Botany, either in describing Plants, or in finding out the true Meaning of the Descriptions of Authors; every Term respecting the different Parts of the Plant, may be seen at one View, belonging to the Article wanted, whether it is the Root, Stem, Leaf, or Flower.

The Use of the Glossary is to assist young Beginners who are unacquainted with scientific Method; and can with greater Ease turn to an Alphabet for the Explanation of a Term, than to classical Arrangement.

The whole Work is corrected and enlarged by an Addition of all the new Genera, collected from the last Edition of the *Systema Naturæ*.

This will be necessary on all Occasions to the
Learner in French, either in speaking, Reading,
or in finding out the true Meaning of the De-
scriptions of Authors, every Thing relating
to the different Parts of the Language may be seen at
one View, belonging to the Article wanted,
whether it is the Root, Stem, Leaf, or Flower.

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lected from the last Edition of the Opera.

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O F
C O N T E N T S.

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17. *Of*

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P A R T T H E F I R S T.

C H A P. I.

Of the seven Parts of FRUCTIFICATION.

BY Fructification we are to understand both the *Flower* and *Fruit* of Plants; which cannot well be separated: For though the Fruit does not swell and ripen till after the Flower is fallen, its Rudiment, or first Beginning, is in the Flower, of which it properly makes a Part. *Linnaeus* defines the Fructification to be a temporary Part of Vegetables, allotted to Generation, terminating the old Vegetable, and beginning

B ning

ning the new. It consists of seven principal Parts, viz.

1. The CALYX, *Empalement*, or *Flower-cup*.
2. The COROLLA, *Foliation*, vulgarly called, *the Leaves of the Flower*.
3. The STAMINA, *Threads*, vulgarly called, *the Chives*.
4. The PISTILLUM, *Pointal*.
5. The PERICARPIUM, *Seed-Vessel*.
6. The SEMINA, *Seeds* themselves.
7. The RECEPTACLE, *Base*, on which the Fructification is seated.

All these Parts, and their several Uses, will be particularly explained in the following Chapters; and it is sufficient to observe here, that the four first, viz. Calyx*, Corolla, Stamina, and Pistillum, are properly Parts of the *Flower*; and the three last, Pericarpium, Semina, and Receptacle, Parts of the *Fruit*; and that it is from the Number, Proportion, Positions, and other Circumstances attending these Parts of Fructification, that the Classes of Vegetables, and

* That the Calyx is a Part of the Flower, though it often attends the Fruit, is manifest from hence; that there is no Instance of its coming out after the Plant has done flowering, although in the *Patagonula* the Calyx is observed to grow to a much larger Size in the Fruit than it had in the flower.

the Genera they contain, are to be characterized according to the sexual System.

C H A P. II.

Of the CALYX.

THE CALYX is the Termination of the *Cortex*, or *outer Bark*, of the Plant; which, after accompanying the Trunk or Stem through all its Branches, breaks out with the Flower, and is present in the Fructification in this new Form. Its chief use is to enclose and protect the other parts. It has received different Appellations, according to the Circumstances with which it is attended, *viz.*

PERIANTHIUM, a *Flower-cup*, when its Station is close to the Fructification. If it includes the Stamina, and not the Germen, it is the Perianthium of the Flower; if the Germen, but not the Stamina, the Perianthium of the Fruit; but if it includes both, it is the Perianthium of the Fructification.

INVOLUCRUM, a *Cover*, when stationed at the Foot of an Umbel, at a Distance from the Flower; it is an universal Involucrum, if it is under the universal Umbel; or a partial one, if under a partial.

AMENTUM, *Catkin*, when it proceeds from one common Receptacle, resembling the Chaff of an Ear of Corn.

SPATHA, *Sheath*, when it bursts lengthways, and puts forth a *Spadix* *.

GLUME, *Husk*, in grasses, which it folds over with its Valves; and the sharp Point or Beard issuing from the Glume is called an *Arista*.

CALYPTRA, a *Veil*, in Mosses, where it is placed over the *Antheræ*, tops of the *Stamina*, and is hooded like a Monk's Cowl.

VOLVA, from its *involving*, or *enfolding*, in the *Fungi*, or *Mushroom* tribe, where it is membranaceous, and rent on all Sides.

It is sometimes difficult to distinguish a Calyx from the *Braçtea*, *floral Leaf* †, such as
is

* *Spadix* properly signifies the Receptacle of a Palm: see Chap. 8. But *Spatha* is not confined only to such Plants as have a *Spadix* in this Sense of the Term, but is applied to *Narcissus*, *Galanthus*, *Panocratium*, and many others, whose Flower-stalks come out of a Sheath. *Spadix* therefore is here to be understood in a more general Sense: Agreeable to such Latitude we shall find it used in Chap. 19, under the Head of *spadiceous aggregate Flowers*, to express the common Receptacle in *Calla*, *Dracontium*, *Pothos*, *Arum*, and *Zostera*, as well as in the *Palms*.

† In many Plants there are found green Leaves amongst the Flowers, that differ in Shape from the original Leaves of the Plant. These are the *Braçtea*, or *floral Leaves*, here spoken of. They are commonly situated on the
Flower-

is found to accompany the Fructification of the *Tilia*, *Lavendula*, *Melampyrum*, and others. They may be distinguished by this certain Rule, that a Calyx always withers when the Fruit is ripe, if not before; but the Bractea will remain longer. Without attending to this, Mistakes might easily be made in *Helleborus*, *Nigella*, *Passiflora*, *Hepatica*, *Peganum*, and others, in which the Calyx is wanting. The Distinction between a Calyx and Corolla in doubtful cases will be treated of in the next Chapter. In many Flowers the Calyx is deciduous, dropping off the Instant the Flower begins to expand; this is the Case with *Epimedium* and *Papaver*.

C H A P. III.

Of the C O R O L L A.

THE COROLLA, is the Termination of the *Liber*, or *inner Bark*, continued to, and accompanying the Fructification in this new form of painted Leaves.

Flower-stalks, and sometimes so near to the Flower, as to be mistaken for its Calyx.

Its Use is the same as that of the Calyx, serving as an inner Work of Defence, for the Parts it incloses, as the Calyx, which is usually of stronger Texture, does for an outer one.

The Leaves of which the Corolla consists are called *Petals*; by which Appellation they are conveniently distinguished from the green Leaves of the Plant with which they might else be confounded*. The Petal is defined by *Linnaeus* as a corollaceous Covering to the Flower, meaning that it encloses and protects

* *Petal* (in the *Greek* *πετάλον*) signifies Leaves in general; but there being another *Greek* Word (*φύλλον*) nearly of the same Signification, the modern Botanists have borrowed this to express the Leaves of the Flower. The Ancients seem to have had no distinct Term in Use to express this Part of the Fructification. Thus *Virgil*, in describing his *Amellus*, which is a species of *Aster*, the Flower of which has a yellow Middle, and purple Rays, calls it a golden Flower, surrounded with purple Leaves.

*Aureus ipse (Flos) sed in foliis, quæ plurima circum
Funduntur, violæ subluceat purpura nigra.*

GEORG. IV.

This loose expression, which is chargeable rather on the Language than the Poet, has misled all its Translators; as is rightly observed by *Martin*, in his Note on this Passage. *May* and *Addison* make the real Leaves of the Plant purple.

For from one Root he spreads a Wood of Boughs,
Whose many LEAVES, altho' the Flower be gold,
Black Violets dimme purple Color hold.

MAY.

The

fects in the manner of a *Corolla*, or *Wreath*.
If the *Corolla* be

MONOPETALOUS, of *one Petal*; it consists of two Parts, *viz.* The *Tube*, or lower Part, which is usually *Tube-shaped*; and the *Limb*, or upper Part, which usually spreads wider. And the *Limb* again, according to its Figure, is either *Campanulate*, *Bell-shaped*, that is, bellying out, and without a *Tube*; *Infundibuliform*, *Funnel-shaped*, that is, of the Figure of a *Cone*, and standing on a *Tube*; *Hypocrateriform*, *Salver-shaped*, that is plain or flat, and standing on a *Tube*; *Rotatoplane*, *Wheel-shaped*, and *flat*, without a *Tube*; or *Ringent*, *gaping*, that is, irregular and perfo-

The Flower itself is of a golden Hue.

THE LEAVES inclining to a darker Blue.

THE LEAVES shoot thick about the Root, and grow Into a Bush; and shade the Turf below.

ADDISON.

DRYDEN applies the same Color to the Boughs.

For from one Root the rising Stem bestows

A Wood of Leaves, and Violet purple BOUGHS.

The Flower itself is glorious to behold,

And shines on Altars like refulgent Gold.

DRYDEN.

Dr. TRAPP applies the golden Color to the stem, and the purple to the Leaves.

For from one Turf a mighty Grove it bears;

Its STEM of golden Hue; but in its LEAVES,

Which copious round it sprout, the purple Teint

Of deep-dyed Violets more glossy shines.

nated with two Lips. But if the Corolla be *POLYPETALOUS*, of many Petals; each Petal consists of *Unguis*, a Claw, which is the lower Part fastened to the Base; and *Lamina*, a thin Plate, which is the upper Part, and usually spreading. A polypetalous Corolla is *cruciform*, *cross-shaped*, when it consists of four Petals that are equal and spreading; and *Papilionaceous*, *Butterfly-shaped*, when it is irregular, consisting of four Petals, of which the under one resembles the Keel of a Ship, the upper one rises, and the two side ones stand single.

There belongs also to the Corolla a Part called the *Nectarium*, which has been but newly distinguished, having been by former Botanists confounded with the Petals. It is by *Linnaeus* defined to be the Part which bears the Honey, and belonging to the Flower only. This Part affords a wonderful Variety in the Manner of its Appearance. In some Plants it is very large, as in the *Narcissus* and *Aquilegia*; in the former of which the Cup, and in the latter the Horns, are *Nectararia*: In others it is scarce discoverable, even with Glasses. In some Plants it is united with, and makes Part of, the Petals: In others it is detached from them. Its Shape and Situation are also as various. Its Use is not

not known, unless the Supposition of its secreting the Honey may be depended upon.

Between the Calyx and Corolla Nature has put no absolute Limits; as is plain from the *Daphnis*, in which Plant they grow together, and are united in the Margin, like a Leaf of the *Buxus*; but they may be commonly distinguished by their Position in respect of the Stamina, the Petal and Stamina being ranged alternately; whereas the Segments of the Calyx and the Stamina answer to each other. That this is their natural Situation, appears from the complete Flowers in the Classes *Tetrandria** and *Pentandria*†: And the Use of applying this Rule will be found in the Instances of *Che-nopodium*, *Urtica*, and *Parietaria*; where it decides, that the single Cover in those Genera is a Perianthium, and that it is the Corolla that is wanting. Should we infer, where only one of the two Covers appears, that it is a Corolla, because that is a more principal Part, there would be no certainty from such an Inference; as is evident from the *Ammania*, *Isnarda*, *Peplis*, *Ruellia* and *Campanula*, in all which the Corolla is often found wanting, but not the Calyx.

* See Part II. Chap. 7.

† See Part I. Chap. 8.

That

That the Calyx, as proceeding from the Cortex of the Plant, is coarser and thicker than the Corolla, which is produced by the soft, pliant, colored Liber, is obvious to every one. But there are no Limits determinable from any such Circumstances, unless it be from the Color; and even this is not sufficient; for the Perianthium of the *Bartsia* is blood-coloured; and there are also many Flowers whose *Corollæ* are colored, naked, and subject to lose their Petals when in the State of Flowering, but which afterwards harden and turn Green, and remain on the Plant like a Calyx; as for Instance, the *Helleborus* and *Ornithogalum*.

The *Euphorbia* has deceived many, who have described it as monopetalous, taking the Calyx for the Corolla. But that the *Peltæ**, as they are called, upon the Leaves of the *Lichen*, are really the Petals of the Flower, is proved by some annual Species in *India*, in which there are white Petals very distinguishable.

* The *Peltæ* are the Fructification of the *Lichen*. They are flat, and are for the most Part fastened to the Edges of the Leaves.

C H A P. IV.

Of the STAMINA.

THE STAMINA are the Male Part of the Flower. *Linnæus* defines them as an Entrail of the Plant, designed for the Preparation of the *Pollen*; of which we shall speak presently.

Each single *Stamen* consists of two Parts, *viz.*

1. *FILAMENTUM*, the *Filament* or *Thread*; which serves to elevate the *Anthera*, or *Summit*, and at the same Time connects it with the Flower.

2. *ANTHERA*, the *Summit* itself; which contains within it the *Pollen*, and when come to Maturity discharges the same.

The *POLLEN*, *Meal*, contained within the *Antheræ*, is a fine Dust secreted therein, and destined for the Impregnation of the *Germen*; of which Part we shall speak in the next Chapter.

The *Stamina* being, as I have said, the Male Part of the Flower, the Construction and Distribution of the sexual System is principally founded upon, and regulated by it; as will appear in the Explanation of the System.

stem. It is sufficient to observe here, that such Flowers as want this Part are called *Female*; such as have it, but want the Female Part described in the next Chapter, *Male*; such as have them both, *Hermaphrodite*; and such as have neither, *Neuter*.

C H A P. V.

Of the PISTILLUM.

THE PISTILLUM is the Female Part of the Flower: It is defined by *Linnaeus* as an Entrail of the Plant, designed for the Reception of the Pollen. It consists of three Parts.

1. The *GERMEN*; which is the Rudiment of the Fruit accompanying the Flower, but not yet arrived at Maturity.

2. The *STYLE*; which is the Part that serves to elevate the Stigma from the Germen.

3. The *STIGMA*; which is the Summit of the Pistillum, and covered with a Moisture for the breaking of the Pollen.

It has been said in the last Chapter, that the Pollen was destined to the Impregnation of the Germen: This is performed in the fol-

following Manner. The *Antherae*, which at the first opening of the Flower are whole, burst open soon after, and discharge the Pollen; which dispersing itself about the Flower, Part of it lodges on the Surface of the Stigma, where it is detained by the Moisture with which that Part is covered; and each single Grain or Atom of the Pollen bursting and dissolving in this Liquor, as it has been observed to do by the Microscope, is supposed to discharge something that impregnates the Germen below: What the Substance is that is so discharged, and whether it actually passes through the Style into the Germen, seems yet undetermined, it being difficult to observe such minute Parts: but whatever be the Operation by which Nature produces the Effect in Question, the Cause, as far as it has been here explained, is scarce disputable; and accordingly we see, that after this Impregnation, when the Parts of the Flower that have done their Office are fallen away, the Germen swells to a Fruit big with Seeds, by which the Species is propagated. The Pistillum being, as I have said, the Female Part of the Flower, is of great Consequence in the sexual System, as well as the Male Part; as will appear when the System comes to be explained.

C H A P. VI.

Of the PERICARPIUM.

THE PERICARPIUM, *Seed-vessel*, is the Germen described in the last Chapter grown to Maturity. It is defined by *Linnaeus* as an Entrail of the Plant big with Seeds, which it discharges when ripe.

It is distinguished, according to the Circumstances that attend it, by the following Appellations.

CAPSULA, a *Capsule*, is a hollow Pericarpium, which cleaves or parts in some determinate Manner. The Inclosure of the Capsule, which surrounds and covers the Fruit externally, is called a *Valvule*: the Partitions, which divide the Capsule into fundry Compartments or Cells, *Dissepiments*; the Substance which passes through the Capsule, and connects the several Partitions and Seeds, *Columella*; and the Cells, or hollow Compartments of the Capsule in which the Seeds are lodged, *Loculaments*.

SILIQUA, a *Pod*, is a Pericarpium of two Valves, wherein the Seeds are fastened along both the Sutures or Joinings of the Valves.

LEGUMEN, a *Pod* also, is a Pericarpium of two Valves, wherein the Seeds are fastened along one Suture only.

CONCEPTACULUM, a *Conceptacle*, is a Pericarpium of a single Valve, which opens on one side lengthways, and has not the Seeds fastened to it.

DUPRA, is a fleshy or pulpy Pericarpium without Valve, containing a Stone.

POMUM, is a fleshy or pulpy Pericarpium without Valve, containing a Capsule.

BACCA, a *Berry*, is a fleshy or pulpy Pericarpium without Valve, the Seeds within which have no other covering.

STROBILUS, is a Pericarpium formed of an *Amentum**.

C H A P. VII.

Of the SEEDS.

THE SEED, according to the Definition of *Linnæus*, is a deciduous Part of the Vegetable, the Rudiment of a new one, quickened for Vegetation by the sprinkling of the Pollen. Its Distinctions are,

* See Chap. 2.

A SEED,

A *SEED*, properly so called, which is a Rudiment of a new Vegetable, furnished with Sap, and covered with a bladdery Coat or Tunic. It consists of, 1. *Corculum*, the first Principle of the new Plant within the Seed. 2. *Plumula*, a scaly Part of the *Corculum*; which ascends. 3. *Rostellum*, a plain Part of the *Corculum*; which descends. 4. *Cotyledon*, a side Lobe of the Seed, of a porous Substance, and perishable. 5. *Hilum*, an external Mark or Scar on the Seed, where it was fastened within the Fruit. 6. *Arillus*, the proper exterior Coat or Tunic of the Seed; which comes off of itself. 7. *Coronula*, the little Crown, of a Seed; which is either *Calyculus*, the *Calyx* of a Floret, adhering to the Seed, and assisting it to fly; or *Pappus*, a Down, which is a feathery or hairy Crown answering the same end, and connected with the Seed by *Stipes*, a Trunk, which here signifies the Thread on which the Down is raised and supported. 8. *Ala*, *Wing*, a Membrane affixed to the seed, and which by its flying helps to disperse it.

Nux, a Nut; which is a Seed inclosed with an *osseous Epidermis*, a bony or hard outer Skin, commonly called the *Shell*.

PROPAGO; which is the Seed of a Moss, first discovered by Linnæus, who peeled off the
the

the Bark, and detected it in the Year 1750. These Seeds have neither Tunic nor Cotyledon, but consist only of the Plumula of a naked Corculum, where the Rostellum is inserted into the Calyx of the Plant.

C H A P. VIII.

Of the R E C E P T A C L E.

TH E R E C E P T A C L E, is the Base which connects the other six Parts of Fructification. Its various Appellations are as follow.

A *PROPER RECEP TACLE*, is that which belongs only to the Parts of a single Fructification : And this is called a *Receptacle of the Fructification*, when it is common to both Flower and Fruit ; a *Receptacle of the Flower*, when it is a Base to which the Parts of the Flower only are fastened without the Germen ; a *Receptacle of the Fruit*, when it is a Base for the Fruit only, remote from the Receptacle of the Flower ; a *Receptacle of the Seeds*, when it is a Base that fastens the Seeds within the Pericarpium.

C

A COM-

A *COMMON RECEPTACLE*, is that which connects many Florets in such a manner, as that the taking away any of them would cause an Irregularity. *Palea, a Chaff*, is a thin Substance, springing from the Receptacle to part the Florets.

UMBELLA, an Umbel, is a Receptacle, which, from a common Centre, runs out into Thread-shaped Foot-stalks of proportionate Lengths. It is called a *simple Umbel*, when it has no Subdivisions; a *compound Umbel*, when each Foot-stalk is terminated by an *Umbellula* or *little Umbel*; and in this Case, the Umbel that bears the Umbellula on its Foot-stalks, is called an *universal Umbel*; and the Umbellula which proceeds from the universal Umbel, a *partial Umbel*.

CYMA, a Cyme, is a Receptacle that runs into long fastigiata Peduncles *, proceeding from the same universal Centre, but with irregular partial ones.

SPADIX, is the Receptacle of a Palm †,

* *Peduncles, Flower-stalks*, are called Fastigiata, when their Lengths are so proportioned, that the Flowers which they support form an even Surface.

† This is the proper Sense of the Term, as employed by the Ancients: But *Spadix* is now used in a more general Sense, *viz.* to express all Flower-stalks that come out of a Spatha; see the Note on this Subject in Chap. 2. This Definition therefore appears to be too strict.

produced within a *Spatha*, or *Sheath*, on the Branches that bear Fruit.

C H A P. IX.

Of the distinct Characters of the Parts of
FRUCTIFICATION.

THE Parts of Fructification, with their Subdivisions, having been explained separately in the preceding Chapters, we shall here give a View of them altogether, with the proper distinguishing Character assigned to each by *Linnaeus*, beginning with the Vegetable itself.

The Essence of the *Vegetable* consists in its *Fructification*: The Essence of the *Fructification* consists in the *Flower* and *Fruit*: The Essence of the *Flower* consists in the *Antheræ* and *Stigma*: The Essence of the *Fruit* consists in the *Seeds*. We come now to THE PARTS.

POLLEN, is the Dust of Vegetables, designed to burst in a Liquor appropriated to that Purpose; and discharge therein, by its elastic Force, a Substance not distinguishable by the naked Eye.

C 2

A SEED.

A *SEED*, is a deciduous Part of a Plant, fraught with the Rudiment of a new Plant, and quickened by the Pollen.

ANTHERA, is a Vessel that produces and discharges the Pollen.

PERICARPIUM, is a Vessel that produces and discharges the Seeds.

FILAMENTUM, is the Foot that supports the Anthera, and fastens it to the Vegetable.

GERMEN, is the Rudiment of the Pericarpium or of the Semen, not yet arrived at Maturity; its Existence is chiefly at the Time when the Anthera is discharging its Pollen.

STIGMA, is the moistened Summit of the Germen.

STYLUS, is the Foot of the Stigma, that connects it with the Germen.

COROLLA and *CALYX*, are the *Teguments* or *Covers* of the Stamina and Pistillum; the Calyx arising from the *cortical Epidermis*, or *outer Bark*, and the Corolla, from the *Liber*, or *inner Bark*.

RECEPTACULUM, is that Part which connects the Parts before mentioned.

From these Characters the following Principles may be deduced.

1. That every *Vegetable* is furnished with *Flower* and *Fruit*; there being no Species where these are wanting.

2. That there is no *Fructification* without *Anthera*, *Stigma*, and *Seed*.

3. That the *Antheræ* and *Stigma* constitute a *Flower*, whether the Covers are present or wanting.

4. That the *Seed* constitutes a *Fruit*, whether there be a *Pericarpium* or not.

In respect to the *Seed*; its Essence consists in the *Corculum*, which is fastened to the *Cotyledon*, and involved therein, and closely covered with its proper *Tunic*.

The Essence of the *Corculum* consists in the *Plumula*; which is the vital Speck of the Plant itself, extremely small in its Dimensions, but increasing like a Bud to Infinity. The *Rostellum* however must be included, being the Base of the *Plumula*, which descends and strikes Root, being the Part originally contiguous to the Mother Plant.

That the *Propagines*, or Seeds of Mosses, consist only of the *Plumula* and *Rostellum*, has been already shewn*.

* See Chap. 7.

C H A P. X.

Of THE MOST NATURAL STRUCTURE *of*
the Parts of FRUCTIFICATION.

IN considering the Structure of the Parts of Fructification, the principal Objects to be attended to are, 1. The *Number* of each Part. 2. Its *Figure*. 3. Its *Proportion*; by which is to be understood its Height in respect to the rest; and, 4. Its *Situation*; which will include also its *Insertion* and *Connections*. As to any other Differences, such as a Difference in the Size, Color, Smell, or Taste, it is not safe to allow any Weight to them, as they might lead us to make Distinctions, not justifiable by the true Principles of the Science.

As the Number, Figure, Proportion, and Situation of the Parts are variable, we shall consider; 1. THE MOST NATURAL STRUCTURE, or that which most frequently occurs; and this we shall make the Subject of the present Chapter. 2. THE DIFFERENCES in Structure, arising from the Variation of the Parts in different Plants; which will take up a few of the succeeding Chapters. And, 3. THE SINGULAR STRUCTURES, or such as are observed in a few Genera only; for which we shall allot a Chapter by itself.

The

The MOST NATURAL STRUCTURE of the Parts, in respect to *NUMBER*, is, To have the Calyx divided into as many Segments as the Corolla; The Filaments equal in Number to the Segments of the Corolla and Calyx; A single Anthera on each Filament; The Divisions of the Pistillum equal in Number to the Cells of the Pericarpium, or the Receptacles of the Seeds; the most common Number, *five*; (whence the Extent of the Classes *Pentandria** and *Syngenesia* †,) and the Corolla and Calyx also *quinquifid*, cut into *five Segments*.

In respect to *FIGURE*, To have the Calyx less spreading than the Corolla; The Corolla widening gradually; The Stamina and Pistillum upright and tapering; The Pericarpium big with Seeds, Swelling and extending after the rest of the Parts (the Calyx excepted) are fallen off.

In respect to *PROPORTION*, To have the Calyx less than the Corolla; The Pistillum of equal Length with the Stamina in an upright Flower, but longer in an inverted one; if the Flower slope downward, the Stamina and Pistillum inclining towards the under Side; but if it slope upwards, placed close under the upper Side.

* See Part II, Chap. 8. † See Part II, Chap. 22.

In respect to *SITUATION*, To have the Perianthium furrounding the Receptacle; The Corolla placed on the Receptacle, and alternate with the Perianthium; The Filaments placed within the Corolla, but corresponding with the Perianthium; The *Antheræ* seated on the Tops of the Filaments; The Germen possessing the Centre of the Receptacle; The Style standing on the Top of the Germen; The Stigma seated on the Top of the Style. When the Stigma and Style are fallen, the Germen grows to a Pericarpium, supported by the Calyx, and including the Seeds which are affixed to the Receptacle of the Fruit. The Receptacle of the Flower is generally under the Pericarpium, being not so often found to grow either round it or over it.

C H A P. XI.

Of the different Structures of the C A L Y X.

HAVING shewn *the most natural Structure* of the Parts of the Fructification in the last Chapter, we come now to their DIFFERENCES, or Variations, (which are the Foundation of the *Genera*), and their
Cha-

Characters; and of these we shall treat in their Order beginning with the *Calyx*.

The Variations of the *Calyx*, in respect to *NUMBER*, will take in the Terms also that respect its *Composition*, *Parts*, and *Segments*.

In respect to *Number*, it is either *single*, as in *Primula*, and most Flowers; *double*, as in *Malva*, *Hibiscus*, and *Bixa*; or *wanting*, as in *Tulipa*, *Fritillaria*, and many of the liliaceous Flowers.

In respect to *Composition*, it is either *Imbricate*, that is, composed of various Scales lying over each other, as in *Hieracium*, *Sonchus*, and *Camellia*; *Squarrose*, that is, composed of Scales divaricated on all Sides, and spreading widely open, as in *Carduus*, *Onopordum*, and *Conyza*; *Auctus*, *augmented*; that is, having a Series of distinct Leaves, shorter than its own, that surround its Base externally, as in *Coreopsis*, *Bidens*, *Crepis*, and *Dianthus*; or *Multiflorus*, *many flowered*, that is, common to many Florets, as in *Scabiosa*, and in the Plants of the Class *Syngenesia* *.

In respect to its *Parts*, it is either *Monophyllous*, *of one Leaf*, as in *Datura* and *Primula*; *Diphyllous*, *of two*, as in *Fumaria*, and

* See Part II, Chap. 22.

Fumaria bulbosa; *Triphyllous*, of three, as in *Tradescantia*; *Tetraphyllous*, of four, as in *Sagina*, *Epimedium*, and in the Plants of the Class *Tetradynamia* †; *Pentaphyllous*, of five, as in *Cistus*, *Adonis*, and *Cerbera*; *Hexaphyllous*, of six, as in *Berberis*; or *Decaphyllous*, of ten, as in *Hibiscus*.

In respect to its *Segments* (which chiefly concern the monophyllous Calyx) it is either *Integer*, whole, as in *Genipa*; *Bifid*, divided in two *Segments*, as in *Utricularia*; *Trifid*, in three, as in *Alisma*, and *Cliffortia*; *Quadrifid*, in four, as in *Rhinanthus*; *Quinquifid*, in five, as in *Nicotiana*; *Sexfid*, in six, as in *Pavia*; *Octofid*, in eight, as in *Tormentilla*; *Decemfid*, in ten, as in *Potentilla* and *Fragaria*; or *Duodecemfid*, in twelve, as in *Lythrum*.

The Variations of the *Calyx* in respect to *FIGURE*, will also include the Terms respecting its *Equality*, *Margin*, and *Apex*, or *Top*.

In respect to *Figure*, it is either *Globose*, *Globe-shaped*, as in *Cucubalus*; *Clavate*, *Club-shaped*, as in *Silene*; *Reflex*, bent back, as in *Asclepias*; or *Erect*, upright, as in *Primula* and *Nicotiana*.

In respect to *Equality*, it is either *equal* as in *Lychnis*; *unequal*, as in *Helianthemum*; or

† See Part II. Chap. 18.

with

with the Segments *alternately shorter*, as in *Tormentilla* and *Potentilla*.

In respect to its *Margin*, it is either *Integerrimus*, *very entire*, as in most Plants; *Serrate*, *sawed*, as in some Species of *Hypericum*; or *Ciliate*, *fringed with Hairs like an Eye-lash*, as in some Species of *Centaurea*.

In respect to its *Apex* or *Top*, it is either *Acute*, *sharp*, as in *Primula* and *Androsace*; *Acuminate*, *pointed*, as in *Hyoscyamus*; *Obtuse*, *blunt*, as in *Nymphaea* and *Garcinia*; or with one of its *Indents* *lopped off*, as in *Verbena*.

In respect to *PROPORTION*, it is either *longer* than the *Corolla*, as in *Agrostema*, *Sagina*, and some Species of *Antirrhinum*; *equal* to it, as in some Species of *Cerastium*; or *shorter*, as in *Silene*.

In respect to *SITUATION*, it is either a *Calyx* of the *Flower*, as in *Linnæa* and *Morina*; of the *Fruit*, as in *Linnæa* and *Morina**; or of the *Fructification*, as in *Pæonia*.

The *DURATION* of the *Calyx* may also be considered. In respect to which it is either *Caducous*, *falling off at the first Opening of the Flower*, as in *Papaver* and *Epimedium*; *Deciduous* with the *Corolla*, as in *Berberis*,

* The *Linnæa* and *Morina* have each of them two *Calyces*, one of the *Flower*, the other of the *Fruit*; which is the Reason of their being given as Instances of both Cases.

and

and in the Plants of the Class *Tetradynamia* †; or *Persisting*, till the Fruit is come to Maturity, as in the Plants of the Class *Didynamia* ‡.

Variations of an INVOLUCRUM.

The preceding Varieties of the Calyx chiefly respect a Perianthium. An *Involucrum* is either *Monophyllous*, as in *Bupleurum*; *Diphyllous*, as in *Euphorbia*; *Triphyllous*, as in *Butomus* and *Alisma*; *Tetraphyllous*, as in *Cornus*; *Pentaphyllous*, as in *Daucus*; or *Hexaphyllous*, as in *Hæmanthus*.

Variations of a SPATHA.

A *Spatha* is either *Monophyllous*, as in *Narcissus*; *Diphyllous*, as in *Stratiotes*; or *Imbricate*; as in *Musa*.

C H A P. XII.

Of the different Structures of the COROLLA.

THE Variations of the Corolla in respect to *NUMBER* concern either *Petals*, or *Laciniæ*, *Segments*: The Varia-

† See Part II. Chap. 18.

‡ See Part II, Chap. 17.

tions of the Nectarium shall be given separate.

The Corolla, in respect to its *Petals*, is either *Monopetalous*, or *consisting of one Petal*, as in *Convolvulus* and *Primula*; *Dipetalous*, of *two*, as in *Circæa* and *Commelina*; *Tripetalous*, of *three*, as in *Alisma* and *Sagittaria*; *Tetrapetalous*, of *four*, as in the Class *Tetradynamia* *; *Pentapetalous*, of *five*, as in umbelliferous Plants †; *Hexapetalous*, of *six*, as in *Tulipa*, *Lilium*, *Podophyllum*; *Enneapetalous*, of *nine*; as in *Thea*, *Magnolia*, and *Liriodendron*; or *Polypetalous*, of *many*, as in *Nymphæa*.

In respect to its *Lacinie* (which concern rather the *Monopetalous* than the *Polypetalous*, being but rarely observed in the latter) it has either *two*, as in *Alfina* and *Circæa*; *three*, as in *Holosteum* and *Hypecoum*; *four*, as in *Lychnis*; or *five*, as in *Reseda*.

The Variations of the Corolla, in respect to *FIGURE*, will include what also concerns its *Equality*, and its *Margin*.

In respect to *Figure*, it is either *Undulate*, *waved*, as in *Gloriosa*; *Plicate*, *folded*, as in

* See Part II. Chap. 18.

† The umbelliferous Plants are in the Order *Digynia* of the Class of *Pentandria*; see Part II. Chap. 8.

Convolutus; *Revolvute*, rolled back, as in *Asparagus* and *Medeola*; or *Tort*, twisted, as in *Nerium*, *Asclepias*, and *Vinca*: Its more considerable Variations, in respect to Figure, have been already shewn in Chap. 3.

In respect to *Equality*, it is either *equal*, as in *Primula*; *unequal*, as in *Butomus*; *regular*, as in *Aquilegia*; or *irregular*, as in *Aconitum* and *Lanium*.

In respect to its *Margin*, it is either *Crenate*, notched, as in *Linum*; *Serrate*, sawed, as in *Tilia* and *Alisma*; *Ciliate*, fringed, as in *Ruta*, *Menyanthes*, and *Tropæolum*; *Denticulate* between the Segments, that is, having a *Denticulus*, or little *Tag*, at the Bottom of the Divisions, as in *Samolus* and *Sideroxyllum*; or with a *hairy Surface*, as in *Menyanthes*, and *Lasianthus* a Species of *Hypericum*.

In respect to *PROPORTION* it may be very *long*, as in *Catesbæa*, *Siphonanthus*, *Brunsfelsia* and *Craniolaria*; or very *short*, as in *Sagina*, *Centunculus* and *Ribes*.

In respect to *SITUATION*, the Base of the Corolla is usually close to the Perianthium, if there be one: It is indeed separated from it by the Germen, in *Adoxa*, *Sanguisorba* and *Mirabilis*, but these Instances are very rare.

In

In respect to *DURATION*, it is either *Persisting*, lasting till the Fruit is ripe, as in *Nymphæa*; *Caducous*, dropping as soon as the Flower is blown, as in *Actæa* and *Thalictrum*; *Deciduous*, dropping off with the Flower, which is the most common; or *Marcescent*, withering, but not falling, as in *Campanula*, *Orchis*, *Cucumis*, *Cucurbita* and *Bryonia*.

Variations of the NECTARIUM.

It has been already said, Chap. 3. that the Nectarium, by the former Botanists, had been confounded with the Petals; but though it commonly attends upon, and makes Part of the Corolla, it is often found distinct from it, as in the Instances of *Aconitum*, *Aquilegia*, *Helleborus*, *Isopyrum*, *Nigella*, *Garridella*, *Epimedium*, *Parnassia*, *Theobroma*, *Cherleria* and *Sauvagesia*; which sufficiently proves that it should be distinguished from the Petals. The Nectarium affords very singular Varieties, especially if it grows distinct from the Petals. It admits of the following principal Distinctions.

CALCARIATE Nectaria, such as resemble a *Calcar*, or *Spur*; and these are either in *Monopetalous Corollæ*, as in *Antirrhinum*, *Valeriana*, *Pinguicula* and *Utricularia*;

laria; or in *Polypetalous*, as in *Orchis*, *Delphinium*, *Viola*, *Impatiens*, and *Fumaria*.

Neētaria that lie within the *SUBSTANCE* of the *Petals*, as in *Fritillaria*, *Lilium*, *Swer-tia*, *Iris*, *Hermannia*, *Uvularia*, *Hydrophyl-lum*, *Myosurus*, *Ranunculus*, *Bromelia*, *Ery-thronium*, *Berberis* and *Valisneria*.

Neētaria that *CROWN* the *Corolla*, as in *Passiflora*, *Narcissus*, *Pancreatium*, *Ola-x*, *Lych-nis* *Silene*, *Coronaria*, *Stapelia*, *Asclepias*, *Cy-nanchum*, *Nepenthes*, *Cherleria*, *Clusia*, *Hama-melis* and *Diosma*.

Neētaria of *SINGULAR* *Construction*, as in *Reseda*, *Cardiospermum*, *Amomum*, *Costus*, *Curcuma*, *Grewia*, *Urtica*, *Andrachne*, *Epi-dendrum*, *Helicteres* and *Salix*.

CALYCINE *Neētaria*, such as are found upon the *Calyx*, as in *Tropæolum*, *Monotropa*, *Biscutella* and *Malpighia*.

STAMINEOUS *Neētaria*, such as attend the *Stamina*; and these are either upon the *Antheræ*, as in *Adenantha*; or upon the *Filaments*, as in *Laurus*, *Diētamnus*, *Zygophyl-lum*, *Commelina*, *Mirabilis*, *Plumbago*, *Cam-panula*, and *Roella*.

PISTILLACEOUS *Neētaria*, such as accompany the *Pistillum*: These are upon the *Germen*, as in *Hyacinthus*, *Iris*, *Butomus*, *Chieranthus*, *Hesperis*, &c.

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RECEPTACULACEOUS *Nectaria*, such as join to the *Receptacle*, as in *Lathræa*, *Helxine*, *Collinsonia*, *Sedum*, *Cotyledon*, *Semper-vivum*, &c. *Mercurialis*, *Kiggellaria*, *Clutia*, *Phyllanthus*, *Melianthus* and *Diosma*.

C H A P. XIII.

Of the different Structures of the STAMINA.

THE Stamina, consisting each of a Filament and an Anthera (see Chap. 4.) we shall speak first of the Variations of the Filaments.

As the Terms respecting the *NUMBER* of the Stamina will be explained in the Chapters that treat of the sexual System, we shall omit here what concerns the Number of the Filaments themselves, to avoid Repetition; but they are sometimes found to have *Laciniae*, *Segments*; and these are either *two*, as in *Salvia*; *three*, as in *Fumaria*; or *nine*, as in the Class *Diadelphia**

The *FIGURE* of the Filaments is either *Capillary*, like *Hairs*, as in *Plantago*; *Plane*,

* See Part II. Chap. 20.

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flat,

flat, as in *Ornithogalum*; *Cuneiform*, *Wedge-shaped*, as in *Thalictrum*; *Spiral*, *Skrew-shaped*, as in *Hirtella*; *Subulate*, *Awl-shaped*, as in *Tulipa*; *Emarginate*, *nicked* or *notched*, as in *Porrum*; *Reflex*, *bent back*, as in *Gloriosa*; or *Hirsute*, *hairy*, as in *Tradescantia* and *Anthericum*.

The *PROPORTION* of the Filaments is either *unequal*, as in *Daphne*, *Lychnis*, and *Saxifraga*; *irregular*, as in *Lonicera*, and the Class *Didynamia**: *very long*, as in *Trichostema*, *Plantago*, and *Hirtella*; or *very short* as in *Triglochin*.

The *SITUATION* of the Filaments, is either *opposite* to the Leaves, or Segments of the Calyx, as in *Urtica*; or *alternate*, with them, as in *Elæagnus*. In *Monopetalous* Flowers they are inserted into the Corolla, but scarce ever in *Polypetalous*: In the Class *Icosandria* † they are always inserted in the Calyx, as they are also in *Epilobium*, *Oenothera*, *Jussiaea*, *Ludwigia*, *Oldenlandia*, *Isnarda*, *Ammania*, *Peplis*, *Lythrum*, *Glaux*, and *Rhexia*; and in some *Apetalous* ‡ Flowers, as in *Elæagnus*; but it is more common for them to be inserted into the *Receptacle*, like the Calyx and Corolla.

* See Part II. Chap. 17. † See Part II. Chap. 15.

‡ Without Petals.

Variations of the ANTHERÆ.

The *NUMBER* of the Antheræ is either a *single* one to each Filament, as in the Generality of Plants; *one* common to *three*, as in *Cucurbita*; *one* to *five*, as in the whole Class *Syngenesia* *; *two* to *each* Filament, as in *Mercurialis*; *three* to *each*, as in *Fumaria*; *five* to *three* Filaments, as in *Bryonia*; or *five* to *each*, as in *Theobroma*.

In some Plants that have single Antheræ to the Filaments, some of the Antheræ are *wanting*; thus *one* is wanting in *Cleonia* and *Martynia*; *two* in *Pinguicula* and *Verbena*; *three* in *Gratiola*, and in some *Bignonias* and *Geraniums*; *four* in *Curcuma*; and *five* in *Pentapetes*, and some *Geraniums*.

The Number of Cells that contain the Pollen, is either *one* as in *Mercurialis*; *two*, as in *Helleborus*; *three*, as in *Orchis*; or *four*, as in *Fritillaria*.

The *FIGURE* of the Antheræ is either *Oblong*, as in *Lilium*; *Globose*, as in *Mercurialis*; *Sagittate*, *Arrow-shaped*, as in *Crocus*; *Angulate*, *cornered*, as in *Tulipa*; or *Cornute*, *horned*, as in *Hamamelis*, *Erica*, *Vaccinium*, and *Pyrola*.

* See Part II. Chap. 22.

They *BURST* either on the *Side*, as in *Leucoium*, and most Flowers; on the *Apex*, as in *Galanthus* and *Kiggellaria*; or from the *Apex*, to the *Base* through the whole Length, as in *Epimedium* and *Leontice*.

They are *FASTENED* either by their *Base*, as in most Plants; their *Tops*, as in *Colchicum*; their *Sides*, as in *Canna*; or grow to the *Nectarium*, as in *Costus*.

Their *SITUATION* is either on the *Tops* of the Filaments, as in most Plants; on the *Sides* of the Filaments, as in *Paris* and *Asarum*; on the *Pistillum*, as in *Aristolochia*; or on the *Receptacle*, as in *Arum*.

The *FIGURE* of the Particles of the Pollen appears by Glasses to be either *Globus echinatus*, a prickly Ball, as in *Helianthus*; *Perforate*, as in *Geranium*; *Double*, as in *Symphytum*; *Rotato-dentate*, *Wheel-shaped*, and *indented*, as in *Malva*; *Angulate*, *cornered*, as in *Viola*; *Reniform*, *Kidney-shaped*, as in *Narcissus*; or *Folia Convoluta*, a Leaf rolled up, as in *Borago*.

C H A P. XIV.

Of the different Structures of the PISTILLUM.

THE Pistillum consists of three Parts, *Germen, Stylus, and Stigma.* Of these the *Germen* being no other than the Rudiment of the *Pericarpium*, its Variations will be considered under that Head in the next Chapter: nor need we speak here of the Number of the Styles, as that will be treated of in the Explanation of the sexual System*; but as the Style is often divided, we must consider its *Laciniæ*.

STYLE—The Style, in respect to its *LACINIÆ*, is either *Bifid*, as in *Persicaria*, and *Cornutia*; *Trifid*, as in *Clethra* and *Frankenia*; *Quadrifid*, as in *Rhamnus*; *Quinquesfid*, as in *Geranium*; or *Dichotomous, halved, and each Lacinia halved again*, as in *Cordia*.

The *FIGURE* of the Style is either *Cylindric, like a rolling Stone*, as in *Monotropa*; *Angulate, cornered*, as in *Canna*; *Subulate, Awl-shaped*, as in *Geranium*; *Capillary, like*

* See Part II. Chap. 3. in which the Titles of the Orders, which are governed chiefly by the Number of Styles, are explained.

Hairs, as in *Ceratocarpus*; or *thicker* towards the Top, as in *Leucoium*.

In respect to *LENGTH*, it is either *very long* as in *Tamarindus*, *Cassia*, *Campanula*, *Scorzonera* and *Zea*; *very short*, as in *Papaver*; or of the Length of the *Stamina*, as in *Nicotiana*, and most Flowers.

In respect to *THICKNESS*, it is either *thicker* than the *Stamina*, as in *Leucoium*; *thinner*, as in *Ceratocarpus*; or of *equal* Thickness with them, as in *Lanium*.

Its *SITUATION* is either on the *Apex* of the Germen, as is too common to need Example; both *above* and *below* the Germen, as in *Capparis* and *Euphorbia* (unless the lower Part in these be considered as the Extension of the Receptacle; or on the *Side* of the Germen, as in *Rosa*, *Rubus*, and the rest of the Plants of the Order *Polygynia*, in the Class *Icosandria**, and also in *Hirtella* and *Suriana*.

As to its *DURATION*, it is sometimes *Persisting*, as in the Class *Tetradynamia* †.

STIGMA—The *NUMBER* of the Stigmata is either a *single* one, as in most Flowers; *two*, as in *Syringa*; *three*, as in *Campanula*; *four*, as in *Epilobium* and *Parnassia*; or *five*, as in *Pyrola*.

* See Part II. Chap. 15. † See Part II. Chap. 18.

The *LACINIÆ* of the Stigma are either *Convolute*, rolled together, as in *Crocus*; *Capillary*, as in *Rumex*; *Revolvute*, rolled back, as in *Dianthus*, *Campanula*, and in the Class *Syngenesia**; or *bent to the Left*, as in *Silene*: And in respect to their Number, the Stigma may be *Sexpartite*, divided into six Parts, as in *Asarum*; or *Multifid*, with many Divisions, as in *Turnera*.

The *FIGURE* of the Stigma is either *Capitate*, beaded, as in *Tribulus*, *Hugonia*, *Vinca*, *Ipomœa*, and *Clusia*; *Globose*, *Globe-shaped*, as in *Primula*, *Hottonia*, *Linnœa* and *Limosella*; *Ovate*, *Egg-shaped*, as in *Genipa*; *Obtuse*, *blunt*, as in *Andromeda*; *Truncate*, *lopped*, as in *Marranta*; *pressed down obliquely*, as in *Actœa* and *Daphne*; *Emarginate*, *notched*, as in *Melica*; *Orbiculate*, *rounded*, as in *Lythrum*; *Peltate*, *like a Pelta or little Shield*, as in *Sarracena*, *Nymphœa*, *Clusia*, and *Papaver*; *Coroniform*, *Crown-shaped*, as in *Pyrola*; *Cruciform*, *Cross-shaped*, as in *Penœa*; *Uncinate*, *hooked*, as in *Viola* and *Lantana*; *Canaliculate*, *grooved*, or *channelled*, as in *Colchicum*; *Concave*, *hollow*, as in *Viola*; *Angulate*, *cornered*, as in *Muntingia*; *Striate*, *streaked*, as in *Papaver*; *Plumose*, *feathery*, as in *Rheum*, *Triglochin*,

* See Part II. Chap. 22.

Tamarix and in *Grasses*; or *Pubescent, downy*, as in *Cucubalus* and *Lathyrus*.

In respect to *LENGTH*, it may be *Fili-form, Thread-like*, as in *Zea*; or as *long* as the *Style*, as in *Genipa*.

In respect to *THICKNESS*, it may be *Foliaceous*, resembling a *thin Leaf*, as in *Iris*.

In respect to *DURATION*, it is either *Marcescent, withering*, as in most *Plants*; or *Persisting*, as in *Sarracena, Hydrangæa, Nymphæa* and *Papaver*.

C H A P. XV.

Of the different Structures of the PERICARPIUM.

THE Variations of the Pericarpium itself, in respect to *NUMBER*, arise properly from the Number of its *Capsules*, that is, the Number of *Parts* into which the *Fruit* is *externally* divided, the *internal Divisions* respecting the *Loculaments*.

In respect to *external Division*, the *Pericarpium* is either *absent*, as in the *Order Gymnospermia* of the *Class Didynamia**;

* See Part II. Chap. 18.

Unicapsular, consisting of one Capsule, as in *Lychnis*; *Bicapsular*, of two, as in *Pæonia* and *Asclepias*; *Tricapsular*, of three, as in *Veratrum* and *Delphinium*; *Quadricapsular*, of four, as in *Rhodiola*; *Quinquecapsular*, of five, as in *Aquilegia*; or *Multicapsular*, of many, as in *Caltha*, *Trollius* and *Helleborus*.

The Fruit in respect to the Loculaments, or internal Divisions of the Pericarpium, is either *Unilocular*, of one Cell, as in *Trientalis* and *Primula*; *Bilocular*, of two, as in *Hyoscyamus*, *Sinapis*, and *Nicotiana*; *Trilocular*, of three, as in *Lilium*; *Quadrilocular*, of four, as in *Euonymus*; *Quinquelocular*, of five, as in *Pyrola*; *Sexlocular*, of six, as in *Asarum* and *Aristolochia*; *Octolocular*, of eight, as in the Species of *Linum*, called *Radiola*; *Decemlocular*, of ten, as in *Linum*; or *Multilocular*, of many, as in *Nymphaea*.

The Pericarpium, in respect to the Number of its Valvules, or outer Inclosures, is either *Bivalve*, of two Valves, as in *Chelidonium* and *Brassica*; *Trivalve*, of three, as in *Viola*, *Polemonium* and *Helianthemum*; *Quadrivalve*, of four, as in *Ludwigia* and *Oenothera*; or *Quinquevalve*, of five, as in *Hottonia*.

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The *Dissepiments* are either *parallel* to the *Valvules*, as in *Lunaria* and *Draba*; or placed the *contrary* Way, as in *Biscutella* and *Tblaspi*.

The most considerable Differences in the *FIGURE* of the *Pericarpium*, with the Names assigned for each, have been explained in Chap. 6. It varies farther, in being *Turbinate*, narrowing like a *Child's Top*, as in *Pyrus*; *inflate*, puffed, as in *Cardiospermum* and *Staphylæa*; *Membranaceous*, composed of *thin Membranes*, as in *Ulmus*; *Triquetrous*, *Tetragonous*, *Pentagonous*, of *three*, *four*, or *five* Sides, as in *Averrhoa*, *Zygophyllum*, &c. or *Articulate*, jointed, as in *Ornithopus*, *Hedysarum* and *Raphnus*

The *OPENING* of the *Pericarpium* for discharging the seeds when the *Fruit* is ripe, is either at the *Apex*, which may be *Quadri-dentate*, split into *four* Segments, as in *Dianthus*; *Quinquedentate*, into *five*, as in *Alfina*; or *Decemdentate*, into *ten*, as in *Cerastium*; opening at the *Base* *Trifariam*, into *three* Parts, as in *Triglochis*, and *Campanula*; or *Quinquefarium*, into *five* Parts as in *Ledum*; at the *Angles*, *Corners*, *longitudinally*, length-ways, as in *Oxalis* and *Orchis*; through a *Pore*, *Hole*, as in *Campanula*; or *horizontally*
across

across the Middle, as in *Anagallis*, *Plantago*, *Amaranthus*, *Portulaca* and *Hyoscyamus*.

All Fruit that is *articulate*, *jointed*, opens at every one of the Joints, each of which is *Monospermous*, *single seeded*.

The *CONFINEMENT* of the Seeds is sometimes *Elastic*, *bursting like a Spring*, as in *Oxalis*, *Elaterium*, *Momordica*, *Impatiens*, *Cardamine*, *Phyllanthus*, *Euphorbia*, *Justicia*, *Ruellia*, *Dictamnus*, *Hura*, *Ricinus*, *Tragia*, *Jatropha*, *Croton*, *Clusia* and *Acalypha*.

The *SITUATION* of the Pericarpium is at the Receptacle of the Flower, either placed *under* it, as in *Vaccinium* and *Epilobium*; *over* it, as in *Arbutus* and *Tulipa*; or both *above* and *below* it, as in *Saxifraga* and *Lobelia*,

C H A P. XVI.

Of the different Structures of the SEEDS.

IN respect to the *NUMBER* of Seeds contained within the Fruit, Plants are either *Monospermous*, *having one Seed*, as in *Polygonum* and *Collinsonia*; *Dispermous*, *two*, as in *Daucus*; *Trispermous*, *three*, as in *Euphorbia*; or *Tetraspermous*, *four*, as in *Tournefortia*.

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In respect to the Number of Loculaments of the Seed itself, it has but one in most Plants; but is *Bilocular*, with two Cells, in *Cornus*, *Xanthium*, *Locusta*, *Valeriana*, and *Cordia*.

In respect to its *FIGURE*, it is either *Cinct*, girt, as in *Arenaria* and *Bryonia*; *Cordiform*, Heart-shaped, as in *Medeola*; *Reniform*, Kidney-shaped, as in *Anacardium* and *Phaseolus*; *Ovate**, Egg-shaped, as in *Polygala* and *Isatis*; or *Echinata*, prickly like an *Echinus* or Hedge-hog, as in *Lappula*, a Species of *Myosotis*.

In respect to their *SUBSTANCE*, they are *Osseous*, bony, as in *Corylus*, *Lithospermum*, and *Nuts* of all Kinds; or *Callous*, tough; as in *Citrus*.

The *CORONULA*, little Crown, that attends many Seeds, is either *Calyculus*, a small *Calyx* formed of the *Perianthium* of the Flower, as in *Scabiosa*, *Knautia*, *Ageratum*, and *Arctotis*; or *Pappus*, a Down; and this *Pappus* is either *Capillary*, like a Hair, that is *simple* and *filiform*; *Thread-shaped*, as in

* The Term *Ovate* is used to express an elliptical Figure when it is broader at one End than the other; and the Term *Oval* for the same Figure, when the Ends are alike.

Hieracium and *Sonchus*; *Plumose*, feathery, that is, *shaggy* and *compound*, as in *Crepis*, *Scorzonera*, and *Tragopogon*; *Paleaceous*, chaf-
fy, as in *Bidens*, *Silphium*, *Tagetes*, and *Co-
reopsis*; or *wanting*, as in *Tanacetum*.

The Seed has an *ARILLUS* †, in *Coffea*, *Jasminum*, *Cynoglossum*, *Cucumis*, *Dictamnus*, *Diosma*, *Celastrus*, and *Euonymus*.

The Seeds in respect to *SIZE* may be *very small*, as in *Campanula*, *Lobelia*, *Trachelium*, and *Ammania*; or *very large*, as in *Coccus*.

In respect to *SITUATION*, they are either *Nidulantia*, *nesting*, that is dispersed about the Pulp, as in *Nymphæa*; fastened to the *Suture*, as in Plants that are *siliquose*, *podded*; fastened to the *Columella*, as in *Malva*; or placed on *Receptacles*, as in *Nicotiana* and *Datura*.

The *HILUM* of the Seed is evident in *Cardiosperum* and *Staphylea*.

The *CORCULUM* is close to the Hilum.

† See Chap. 7.

C H A P. XVII.

Of the different Structures of the RECEPTACLE.

IT is in the Class *Syngenesia**, which contains the compound Flowers, that the Varieties of the Receptacle are principally to be considered.

In respect to its *FIGURE*, it is either *Plane, flat*, as in *Achillea*; *Convex, rounding*, as in *Matricaria*; or *Conic, shaped like a Cone*, as in *Anthemis* and *Melampodium*.

In respect to its *SURFACE*, it is either *Naked*, as in *Matricaria*; *Punctate, dotted*, as in *Tragopogon*; *Villose, shaggy*; as in *Andryala*; *Setose, bristly*, as in *Centaurea*; or *Paleaceous, chaffy*, as in *Hypochaeris* and *Anthemis*.

In some simple Flowers the Fruit has *separate Receptacles*, as in *Magnolia*, *Uvaria*, and *Michelia*.

* See Part II. Chap. 22.

C H A P. XVIII.

*Of the SINGULARITIES in the Structure of
the Parts of FRUCTIFICATION.*

BY a singular Structure of the Parts of Fructification, is to be understood such a one as is observed but in very few Genera; it is directly opposed to the natural structure explained in Chap. 10. For Instances of this we may mention the *Arum*, whose Stamina are within the Pistilla; the *Adoxa*, whose Germen separates the Corolla from the Calyx; the *Salvia*, whose Filaments are *articulate, jointed*; the *Eriocaulon*, whose Stamina are placed on the Germen, and whose Corolla and Calyx are below the Germen; and the *Magnolia*, the Receptacle of whose Fruit is *capitate, headed*, the Seeds, which are like Berries, hanging by a Thread out of the Capsule; but to take the Parts in their Order.

The *CALYX* is usually less colored than the *COROLLA*; but in the *American Bartsia* the Perianthium is bloody; in the herbaceous *Cornus* the Petals are black, but the Involucrum white; and in the *American*
Cornus

Cornus the Involucrum is red, and *Cordate*, *Heart-shaped*. In *Astrantia* the Involucrum is colored; and in *Palms* the Spathæ are bloody; where the Corolla is wanting, the Perianthium is wont to be more colored especially when the Flowers are blowing, as in *Ornithogalum*, *Persicaria*, and *Polygonum*; where either the Calyx or the Corolla is found to be less colored, the Leaves often take a Color, as in *Amaranthus tricolor*.

In most Plants the *STAMINA* and *PE-TALS* are inserted into the Receptacle, in the Bottom of the Flower; but the Plants of the Class *Icosandria** have a monophyllous Calyx, the inner Side of which is girt with a Line, to which the Stamina and Petals are fastened; and the Calyx is also observed to support the Flowers in some other Plants, as in *Lythrum*, *Epilobium*, *Oenothera*, *Ammania*, *Isharda*, *Peplis*, and *Eleagnus*. In some Plants the Receptacle is lined on all Sides with the Perianthium, and the Corolla adheres to the Perianthium as though it were glued to it; this is found in the *Cucurbitaceous*† Plants, such as *Cucurbita*, *Passiflora*, *Fevillea*, *Momordica*, *Trichosanthes*,

* See Part II. Chap. 15.

† So called from their Affinity to the Cucurbita.

Cucumis, *Bryonia*, *Sicyos*, *Melothria* and *Gronovia*; the same is also observed in *Cactus*: In some others there is a Receptacle that elevates the Pericarpium, as in *Passiflora*, *Capparis*, *Breynia*, *Arum*, *Calla*, *Dracontium*, *Pothos*, *Zostera*, *Nepenthes*, *Clusia*, *Helicteres*, and *Sisyrinchium*.

In monopetalous Flowers, the Stamina are usually inserted into the Petal, but they are separate from it in the *Plantæ Bicornes**, viz. in *Ledum*, *Azalea*, *Andromeda*, *Clethra*, *Erica*, *Myrsine*, *Memecylon*, *Santalum*, *Vaccinium*, *Arbutus*, *Royena*, *Diospyros*, *Melastoma*, and *Pyrola*; they are separate also in *Cissus* and *Aloe*. In polypetalous Flowers, the Stamina are usually separate from the Petals: But this also has a few Exceptions; for in the *Statice*, which is pentapetalous, the Filaments are inserted in the Claws of the Petals; in *Melanthium*, which is hexapetalous, they are inserted in the Petals; and in the *Lychnis*, which is pentapetalous, as also in *Saponaria*, *Cucubalus*, *Silene*, and *Agrostema*, which were formerly ranged with the *Lychnis*, every other Stamen is fastened to the Claws of the Petals.

* Having two Horns; these Plants have been so called from their bifid *Antheræ*.

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The *ANTHERÆ* are commonly placed on the Tops of the Filaments: But they stick close to the Sides of the Filaments in *Paris* and *Afarum*, and adhere to the Stigma without Filaments in *Aristolochia*.

The Singularities of the *NECTARIUM* have been already mentioned in Chap 12.

The *PISTILLUM* is commonly placed within the *Antheræ*: But in the *Arum* there is this Singularity, that the Receptacle runs out into a Club, the Base of which is occupied by the Pistilla, and the upper Part by the Stamina; so that here the Pistilla stand on the Outside of and surround the Stamina; and in the *Calla* of *Ethiopia* these Parts are disposed in the same Manner. The *Rumex* is singular in the Infertion of its Stamina.

The *STYLE* is commonly placed on the Top of the Germen: Some Exceptions to this have been given in Chap. 14. to these may be added *Passerina*, *Gnidia*, *Struthia*, and *Stellaria*.

The *PERICARPIUM* is generally shut: But in *Reseda* and *Datisca* it is always open; in *Parnassia* it gapes at the Time of Flowering, and closes afterwards.

That the Pericarpia are ever found one within another, the greater containing the smaller ones, *Linnaeus* refuses to admit; for
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although there is the Appearance of such a Singularity in *Magnolia*, *Uvaria*, and *Michelia*, he thinks the outer Pericarpium is in such Cases to be looked upon only as a common Receptacle.

Where the Pericarpium is a Berry, it is distinguishable into *proper* Berries, those which are formed of the Pericarpium; and *improper* or *singular*, such as are formed of any of the other Parts.

The Berry is improper or singular in the following Instances, *viz.* When it is a *Calyx*, as in *Blitum*, *Morus*, *Basella*, *Ephedra*, *Coix*, *Rosa* and *Coriaria*; a *Receptacle*, as in *Taxus*, *Rhizophora*, *Anacardium*, *Ochna*, *Laurus*, *Ficus*, *Dorstenia*, and *Fragaria*; a *Seed*, as in *Rubus*, *Magnolia*, *Uvaria* *Michelia*, *Prasium*, *Uvularia*, *Panax*, *Adonis*, *Crambe*, and *Osteospermum*; an *Arillus*, as in *Euonymus* and *Celastrus*; a *Nectarium*, as in *Mirabilis*; a *Corolla*, as in *Adoxa*, *Poterium*, and *Coriaria*; a *Capsule*, as in *Euonymus*, *Androsæmum*, *Cucubalus* and *Epidendrum*; a *dry Berry*, as in *Linnaea*, *Galium*, &c. *Tetragonia*, *Myrica*, *Trientalis*, *Tropæolum*, *Xanthium*, *Juglans*, *Ptelea*, *Ulmus*, *Comarum*, *Amygdalus* and *Mirabilis*; a *Capsule* externally, as in *Dillenia* *Clusia*, *Nymphæa*, *Capparis*, *Breynia*, *Morisonia*, *Stratiotes*, *Cyclamen*, and *Strychnus*; a

hollow Berry, as in *Staphylæa*, *Cardiospermum* and *Capsicum*; a *Conceptacle*, as in *Actæa*; a *Legumen*, as in *Hymenæa*, *Cassia*, *Inga*, and *Ceratonia*; or a *Strobilus*, as in *Annona* and *Juniperus*.

The Berry does not naturally burst, being soft, and the Dispersion of the Seeds being designed to be by Means of Animals.

The Berries in the *Adonis* of the Cape are evidently *aggregate*, many united in one.

C H A P. XIX.

Of A G G R E G A T E Flowers.

COMplete Flowers are either simple or aggregate. Simple Flowers differ from aggregate in this, that they have not any Part of Fructification common to many Flowers, as is the Case with aggregate. Flowers are called aggregate, when many *Flosculi*, *Florets*, are by the Mediation of some Part of the Fructification common to them all, so united, that no one of them could be taken out without destroying the Form of the whole, of which it was a Part. The common Part in aggregate Flowers is either the receptacle or the Calyx. A partial

tial Flower of the aggregate one is called *Flosculus*, a *Floret*. Aggregate Flowers are primarily divisible into seven Kinds, *viz.*

1. The *Aggregate*, properly so called.
2. The *Compound*.
3. The *Umbellate*.
4. The *Cymose*.
5. The *Amentaceous*.
6. The *Glu-mose*.
7. The *Spadiceous*: All which we shall explain in their Turns.

1. An *AGGREGATE* Flower, properly so called, has a Receptacle that is *dilate, extended in Breadth*, the Florets standing on *Peduncles, Foot-stalks**, as in *Scabiosa, Knautia, Dipsacus, Cephalanthus, Globularia, Leucadendron, Protea, Brunia, Barreria, and Statice*.

2. A *COMPOUND* Flower † is an aggregate one, comprehending many Florets that are *sessile, squatted*, or without *Peduncles*, on a common Receptacle that is entire, and having also a common Perianthium, but furnished with Antheræ that grow together in the Form of a Cylinder.

The Properties of a compound Flower are, 1. A common Receptacle enlarged and undivided. 2. A common Perianthium, fur-

* *Peduncle* is the Foot-stalk of a Flower only; the Foot-stalk of a Leaf is called a *Petiole*.

† These are the Flowers of the Class Syngenesia, see Part II. Chap 22.

rounding all the Florets. 3. The Florets monopetalous and sessile. 4. The Antheræ of each Floret five in Number, and growing together in a Cylinder. 5. A monospermous Germen under each of the Florets. Of these Properties, the two last are essential to a compound Flower; but observe, that there are some whose Calyx contains only a single Floret, as *Echinops*, *Stoebe*, *Corymbium*, and *Artemisia*.

Compound Flowers are of three Kinds: 1. *Ligulate*, when all the *Corollulæ*, little *Corollæ*, of the Florets are *plane*, *flat*, shaped like *Ligula*, a narrow *Tongue*, or *Fillet*, and expanded towards the outer Side. 2. *Tubulose*, when all the *Corollulæ* of the Florets are *Tubulose*, and nearly equal. 3. *Radiate*, having *Rays*, when the *Corollulæ* of the *Disk*, *middle Parts*, are *Tubulose*, and those of the *Circumference*, *Margin*, of another Form: Which Variation affords three Cases, *viz.* when the *Corollulæ* of the *Circumference* are either *ligulate*, as in *Achillea*; *tubulose*, but unlike the tubulous Florets of the *Disk*, as in *Centaurea*; or *naked*, as in *Artemisia* and *Gnaphalium*. A compound Flower usually consists of many Florets, but rarely of a determinate Number of them.

3. An *UMBELLATE* Flower is an aggregate one, consisting of many Florets placed on a Receptacle, on fastigate Peduncles* that are all produced from the same Point: A *simple* Umbel is when the Receptacle is but once divided into Peduncles; a *compound* Umbel is when all the common Peduncles are subdivided into *Umbellulae*, *little Umbels*; an *Umbellula* therefore is a *partial* Umbel.

Umbellate Flowers, properly so called †, have the following Properties. 1. A common Receptacle divided into Peduncles in the manner above mentioned, whether the Umbel produced be *plane, flat; convex, rounding*; or *concave, hollow*. 2. A Germen under the Corollula. 3. Five distinct Stamina that are deciduous. 4. A bifid Pistillum. 5. Two Seeds joined at their Summits.

A *Radiate* Umbel is when the marginal Petals are larger than those of the Disk, as in *Tordylium, Caucalis, Coriandrum, Ammi*, and some Species of *Heracleum*; an Umbel may vary also in having the Flowers of the

* See the first Note in Chap. 8.

† The umbellate Flowers, properly so called, belong to the Order Digynia of the Class Pentandria; see Part II. Chap. 8.

Margin differing in Sex from those of the Disk, as in *Astrantia*, *Caucalis*, *Artedia*, *Oenanthe* and *Scandix*. The *Involucrum* varies, in being either *Tetraphyllous*, of four Leaves, as in *Hydrocotyle*, *Sison*, and *Cuminum*; *Pentaphyllous*, of five, as in *Bupleurum*, *Scandix*, and *Bubon*; *Heptaphyllous*, of seven, as in *Ligusticum*; *Decaphyllous*, of ten, as in *Artedia*: With the *partial Involucrum dimidiate*, halved, going but half round, as in *Æthusa*, *Coriandrum*, and *Sanicula*; or *Caducous*, falling off, as in *Ferula* and *Heracleum*.

4. A *CYMOSE* Flower is an aggregate one, of many Florets, placed on a Receptacle upon fastigate * Peduncles, the primary ones of which issue from the same Centre as in an Umbel; but the secondary, or partial ones, lie dispersed without Order; which Circumstance distinguishes the Cyma from the Umbel, as in *Opulus*, *Ophiorrhiza*, and the Species of Cornus called *Virga sanguinea*, or *Bloody-rod*,

5. An *AMENTACEOUS* aggregate Flower has a *Filiform*, *Thread-shaped* Receptacle, along which are disposed *amentaceous Squamæ*, *Scales* that form an *Amentum* or *Catkin*, as in *Xanthium*, *Ambrosia*, *Par-*

* See the first Note on Chap. 8.

thenium, Iva, Alnus, Betula, Salix, Populus, Corylus, Carpinus, Juglans, Fagus, Quercus, Liquidambar, Cynomorion, Ficus, Dorstenia, Parietaria, Urtica, Pinus, Abies, Cupressus, Thuja, Juniperus, Taxus, and Ephedra.

6. A *GLUMOSE* aggregate Flower has a filiform Receptacle, the Base of which is furnished with a common *Glume, Husk*, as in *Bromus, Festuca, Avena, Arundo, Briza, Poa, Aira, Uniola, Cynosurus, Melica, Elymus, Lolium, Triticum, Secale, Hordeum, Scirpus, Cyperus, and Carex.*

7. A *SPADICEOUS* aggregate Flower is, when there is a Receptacle common to many Florets placed within a *Spatha* or *Sheath*; such a Receptacle is called a *Spadix*, and is either *Branched*, as in *Palms*, or *Simple*: In this last Case the Florets may be disposed either all *round* it, as in *Calla, Dracontium, and Pothos*; on the *lower* Part of it, as in *Arum*; or on *one Side* of it, as in *Zosteria*.

C H A P. XX.

Of LUXURIANT Flowers, commonly called
D O U B L E

A Flower is said to be luxuriant, when some of the Parts of Fructification are augmented in Number, and others thereby excluded. The Luxuriancy is commonly owing to the Luxuriancy of its Nourishment; the Part multiplied is usually the Corolla, but sometimes the Calyx also; and by this Increase of the Covers, the essential Parts of Fructification are destroyed. Luxuriant Flowers are divisible into. 1. *Multiplicate, multiplied.* 2. *Pleni, full.* And, 3. *Proliferous, producing Young;* to which may be added, 4. *Mutilate, maimed;* such as are deficient in some Part, which stand opposed to the luxuriant ones: All these shall be explained in their Order.

1. Flowers are said to be *MULTIPLICATE*, when by the Increase of the Corolla only a Part of the Stamina are excluded; and this distinguishes them from the *Flores Pleni, full Flowers*, in which the Multiplication of the Corolla is so great as to exculde them all. Multiplicate Flowers
are

are distinguished into *Duplicate*, *Triplicate*, *Quadruplicate* &c. that is, having a *double*, *treble*, or *quadruple* Series or Row, according to the Number of the Repetitions of the Corolla. The *Polypetalous* Flowers are the most subject to Multiplication; the *Mono-petalous* are multiplied likewise, but it is very uncommon to meet with them full. A *colored Perianthium*, though it may have the Appearance of a Repetition of the Corolla, ought not to be considered as such; for though this appearance is in some Degree *monstrous*, *unnatural*, it is no Multiplication.

2. A Flower is said to be *PLENUS*, *full*, when the Corolla is so far multiplied as to exclude all the Stamina, as was before observed. The *Plenitude*, *Fullness*, is occasioned by the Stamina running into Petals, with which the Flower is so crowded as frequently to choak the Pistillum also. The Parts essential to Generation being thus destroyed in full Flower it is evident they must be barren; wherefore no good Seed is to be expected from them*. And for the same Reason of their Imperfection, we should be

* Some few, as *Papaver* and *Nigella*, perfect their Seed: But these are rather multiplycate Flowers than full ones.

cautious also of constituting a Genus from them; for the Characters of a Genus should be drawn from the Parts when in their natural State, and not when in a State of Luxuriancy.

Plenitude is chiefly incidental to polypetalous Flowers, as in *Malus*, *Pyrus*, *Perfica*, *Cerasus*, *Amygdalus*, *Myrtus*, *Rosa*, *Fragaria*, *Ranunculus*, *Caltha*, *Hepatica*, *Anemone*, *Aquilegia*, *Nigella*, *Papaver*, *Pæonia*, *Dianthus*, *Silene*, *Lychnis*, *Coronaria*, *Lilium*, *Fritillaria*, *Tulipa*, *Narcissus*, *Colchicum*, *Crocus*, *Cheiranthus*, *Hesperis*, *Malva*, *Alcea*, and *Hibiscus*.

Plenitude of monopetalous Flowers is by some Authors held a Contradiction; but this cannot be granted; for there are Instances of it in *Colchicum*, *Crocus*, *Hyacinthus*, and *Polianthes*: However, it is rare that their Luxuriancy passes Duplicity. When they are filled, it is by the Multiplication of the *Lacinie*, *Segments*; whereas the Polypetalous are usually filled by the Multiplication of the Petals; but the Manner in which the *Impletion*, *filling*, is brought about, must be more particularly considered.

The Impletion is either in simple or compound Flowers; we shall begin with the Simple.

The

The Impletion of *SIMPLE* Flowers, is by the Increase either of the Petals, or of the Nectarium. The Impletion of the *Aquilegia* is observed to be after three different manners, *viz.* either, 1. By multiplying its Petals, and excluding the Nectaria: 2. By multiplying its Nectaria, and excluding its Petals: Or, 3. By multiplying its Nectaria, and retaining its Petals; in which last Case the five Petals remain, and the Spaces between them are each of them filled up with a triple Case of Nectaria, that is, three Nectaria buried one within another.

The Impletion of the *Nigella* is by multiplying the Nectaria only; that of the *Narcissus* two Ways, by multiplying either the Nectarium only, or both Nectarium and Petals; that of *Delphinium*, for the most Part, by multiplying the Petals, and excluding the Nectarium: The Change wrought in the *Saponaria Anglicana* is remarkable, the Flower from Pentapetalous becoming truly Monopetalous; and the Alteration in the *Peloria* is also very singular*: But the most

* The *Peloria* is a Plant which has been found in some Parts of *Sweden*, growing amongst the Species of *Antirrhinum* called *Linaria*. It resembles the *Linaria* so nearly, in every thing but the Flower, that they are not to be known one from the other, till their Flowers appear; and even in the Flowers they agree in the Calyx, Pericar-

most extraordinary Instance of Plenitude is that of the *Opulus flore globofo*, commonly called the *Gelder Rose*. In the common fimple *Opulus*, the Flowers are produced on a Cyma, which confifts of a great Number of *Campanulate*, *Bell-shaped*, Hermaphrodite Flowers in the Disk, and of others in the Circumference, whose Corollæ are larger, flat, and Wheel-shaped, and that are barren, wanting the *Piftillum*. But in the *Opulus flore globofo*, all the Flowers of the Disk are barren alfo, and fhaped like thofe of the Circumference; fo that the Impletion here arifes only from the additional Number of barren Flowers, the Corollæ of which are of a larger Size; and in this it refembles the Impletion of the compound Flowers, of which we fhall prefently fpeak.

Pericarpium and Seeds, and alfo in Color: which has given Rife to a Suppofition, that the *Peloria* is only a *Linaria* in a monftrous State; fee the Differtation of *Daniel Rudberg* on the *Peloria* in the *Anænitates Academicæ*, Vol. I. p. 280. But as the *Linaria* and *Peloria* differ fo widely in their Corollæ and Stamina, that the former muft be referred to the Clafs *Didynamia*, and the latter to the Clafs *Pentandria*, the *Peloria* cannot be fuppofed to derive its Origin from the *Linaria*, without overturning the fundamental Principles of the Science; And therefore till more Inftances can be produced of this kind of Irregularity in Nature, the *Peloria* cannot with Safety be confidered otherwife than as a *Genus* diftinct from that of *Antirrhinum*.

Before

Before we leave the simple Flowers, it will be of Use to remark, that a simple Flower, in a State of Luxuriancy, may in all Cases be distinguished from a compound One in its natural State, by this Rule; That in *simple* Flowers, how much soever multiplied, there is but one Pistillum in the Centre of the Flower, common to the whole Multiplication; whereas in *compound* Flowers, each of the Florets is furnished with its own Pistillum and Stamina.

We come now to the Impletion of *COMPOUND* Flowers; that these are of three kinds, *Ligulate*, *Tubulose*, and *Radiate*, has been shown and explained in Chap. 19. where it has also been seen, that there is not either in the *Ligulate* or *Tubulose* any Distinction of Disk or Radius, all the Florets in these being alike; but that the contrary is the very Characteristic of the *Radiate*; now this being attended to, the manner of the Impletion will be easily understood. Compound Flowers gain their Impletion two Ways, either by the Radius, or the Disk. We shall begin with the first.

Impletion by the *Radius* is when, by the Multiplication of the Radius, the Disk of the Flower is filled up: as in *Helianthus*, *Calendula*, *Chrysanthemum*, *Anthemis*, *Matricaria*,

caria, *Ptarmica*, *Tagetes*, and the Species of *Centaurea* called *Cyanus*. In this Sort of Impletion, which belongs only to radiate Flowers, it is observable, that all the Florets which fill up the Disk follow the Conditions of those of the Radius; so that if the Florets of the Radius in the natural Flower have a Pistillum, all those of the full Flower will have one also, as in *Matricaria*, *Bellis*, *Chrysanthemum*, and *Tagetes*; or if they have no Pistillum, then it will also be wanting in the full one, as in *Helianthus*, *Calendula*, and *Centaurea*; and the same holds true of the male Part also; for as the Florets of the Radius in the natural Flower are never furnished with Antheræ, so these are wanting also in all those of the full ones. This last Remark is of great Use to distinguish a Radiate full Flower, from a Ligulate natural one; which might be confounded in many Cases, were we not apprized, that there are Antheræ in the latter, but none in the former; by this Rule, in *Chrysanthemum*, *Helianthus*, *Calendula*, and *Tagetes*, when the Disk is destroyed by the Multiplication of the Radius, we know by the Defect of Antheræ, that it is only the Luxuriancy of a radiate Flower, as in *Hieracium*, *Leontodon*, and *Sonchus*; by the Presence of the Antheræ

theræ we know the Flowers to be ligulate and natural.

Impletion by the *Disk* is, when there is no Multiplication of the Radius; but the Corollulæ of the Disk run out into Length, and have their Brims less divided: This manner of Impletion seems to concern only the *Radiate* and the *Tubulose* *. In the *Radiate*, it will so far affect the Radius as to change its Flowers from Ligulate to Tubulose: Instances of this manner of Impletion may be had in *Bellis*, *Matricaria*, and *Tagetes*. In the *Carduus* of the Oats, which is a Species of *Serratula*, the Corollulæ are both lengthened and enlarged. In respect to the *Ligulate* Flowers, if we confine ourselves to the two-fold manner of Impletion, after the Author whose Divisions we have adopted, we shall be obliged to call their Impletion also, an Impletion by the Disk; though the Manner of it differs from that last explained, and the Expression does not so well answer to Flowers, that in the Botanical Sense of the Term have properly no Disk at all. But not to stop at too great Niceties, their

* This is not expressly asserted, as the Distinction is omitted, in the *Philosophia Botanica* of *Linnaeus*; but it appears to be his Meaning, by his speaking of the Impletion of ligulate Flowers separately afterwards.

Impletion is by the lengthening of their Stigmata, and the enlarging and diverging of their Germina; by which Augmentations, the full Flowers are to be distinguished from the natural ones, as in *Scorzonera* and *Lapsana vulgaris*; which last, *Linneus* tells us, is frequently found with a full Flower at *Upsal*.

3. Flowers are said to be *PROLIFEROUS*, when one Flower grows out of another: This generally happens in full Flowers, the Fullness being the Cause of their becoming prolific. Prolification is after two Manners; 1. From the Centre; 2. From the Side.

Prolification from the *Centre*, which happens in simple Flowers, is when the Pistillum shoots up into another Flower standing on a single Peduncle; of which there are Instances in *Dianthus*, *Ranunculus*, *Anemone*, *Geum*, and *Rosa*.

Prolification from the *Side*, which happens in aggregate Flowers, properly so called (see Chap. 19.) is when many pedunculate Flowers are produced out of one common Calyx; of which there are Instances in *Bellis*, *Calendula*, *Hieracium*, and *Scabiosa*.

In *umbellate* Flowers, the Prolification is by the Increase of the Umbellulæ, one simple

ple Umbellula producing another, as in *Cornus* and *Periclymenum*; and in this manner compound Umbels will become *supradecomposed*, more than compounded a second Time, as in *Selinum* and *Thysselinum*.

A prolific Flower is called *Frondose**, leafy, when it produces Leaves; this rarely happens, but Instances of it have been found in *Rosa*, *Anemone*, and others: The other Kinds of Prolification are frequent enough.

4. *MUTILLATE* Flowers are the Reverse of Luxuriant. *Linnaeus* confines the Term to those Flowers only that want the Corollæ, though they ought to be furnished with it; which often happens in *Ipomæa*, *Campanula*, *Ruellia*, *Viola*, *Tussilago* and *Cucubalus*: The Cause of this Defect he ascribes chiefly to the want of sufficient Heat.

* *Frons*, with the Ancients (tho' frequently used, in respect to Trees, in the same Sense with *Folium*, a Leaf) implied, in its proper Signification, a Part of the Wood of the Tree with the Leaf; or as we should express it, a *Twig with Leaves*; and for this Reason they never applied the Term to the Leaves of Herbs (which were always called *Folia*) but only to those of Trees. *Linnaeus* has availed himself of this old Distinction to make it a botanical Term; which he applies to express the Circumstances of *Palms* and *Filices*, *Ferns*; in the former of which the Branches, and in the latter even the Stem itself is an actual Leaf: And here again he applies it to the leafy Prolification in Question, calling it *Frondose*, rather than *Foliaceous*, for the like Reason.

The Luxuriancy of the *Calyx*, mentioned in the beginning of this Chapter, is very infrequent, but not without Instances; in *Dianthus Caryophyllus* there is a Variety, in which the *Squamæ*, *Scales*, of the Calyx are so multiplied as to constitute a perfect Spike in a manner most singular: The *Gramina*, *Grasses*, of the Alps, become full by their *Glumæ*, *Husks*, shooting out into Leaves, as in a Species of the *Festuca*; and in *Salix rosea*, and *Plantago rosea*, the *Squamæ* of the Amentum of the former, and the *Bractæ** of the Spike in the latter will shoot into Leaves also.

Linnæus has enumerated some Tribes of Plants, which are not found subject to Luxuriancy; but as the Heads, under which he has ranged them, are taken from the Systems of preceding Writers, and not from the Sexual, it would perplex the Reader to explain them; and we shall therefore omit them: The Curious may have Recourse to them in the *Philosophia Botanica*, Page 81.

* Floral Leaves.

C H A P. XXI.

Of the SEX of Plants.

THE Distinction of Flowers into Male, Female, Hermaphrodite, and Neuter, has been already explained in Chap. 4. To which we must add, that Hermaphrodite Flowers are sometimes distinguishable into *Male* Hermaphrodites, and *Female* Hermaphrodites: This is, when, although the Flower contains the Parts belonging to each Sex, one of them proves abortive or ineffectual; if the Defect be in the *Stamina*, it is a *Female* Hermaphrodite; if in the *Pistillum*, a *Male* one. The case wherein this Distinction becomes necessary, happens very rarely: It will be shewn in the Course of this Chapter.

Plants, in respect to Sex, take their Denominations from the Sex of their Flowers in the manner following.

1. *HERMAPHRODITE* Plants are such as upon the same Root bear Flowers, that are all Hermaphrodite, as in most Genera.

2. *ANDROGYNOUS*, *Male* and *Female*, such as upon the same Root bear both male

and female Flowers, as in the Class *Monoecia* *.

3. *MALE*, such as upon the same Root bear male Flowers only, as in the Class *Dioecia* †.

4. *FEMALE*, such as upon the same Root bear Female Flowers only, as in the Class *Dioecia*.

5. *POLYGAMOUS* ‡, such as either on the same, or on different Roots bear Hermaphrodite Flowers, and Flowers of either or of both Sexes, as in the Class *Polygamia* §.

Of Plants that are Polygamous on the same Root, there are three Cases: 1st. *Male Hermaphrodite*, and *Female Hermaphrodite* Flowers; which is a very rare Case, but is observed in *Musa*. 2d. *Hermaphrodite* ||, and *Male* Flowers, as in *Veratrum*, *Celtis*, *Ægilops*, and *Valantia*, 3d. *Hermaphrodite* and *Female* Flowers, as in *Parietaria* and *Atriplex*.

* See Part II. Chap. 24.

† See Part II. Chap. 25.

‡ See the Signification of this Term explained in the Account of the Title of the Class *Polygamia*, in Part II. Chap. 26. These Plants are by some called *Hybrid*, *Mongrel*.

§ See Part II. Chap. 26.

|| In the *Philosophia Botanica*, the Hermaphrodite Flowers of this Class are put down *Hermaphroditæ*, *Female Hermaphrodite*; but the Instances shew it to be a Mistake.

Of such as are Polygamous on *two* distinct Roots, the Cases are four; 1st. *Hermaphrodite** Flowers and *Male*, as in *Panax*, *Nyssa*, and *Diospyros*. 2d. *Hermaphrodite* Flowers and *Female*, as in *Fraxinus*. 3d. *Hermaphrodite* † Flowers and both *Male* and *Female*, as in *Gleditsia* ‡. 4th. *Androgynous* || and *Male*, as in *Arctopus*. Of Plants that are Polygamous on *three* distinct Roots there is but one Case, *viz.* *Androgynous*, *Male*, and *Female*, as in *Ficus* §.

* *Hermaphroditæ*, again in *Phil. Bot.*

† *Hermaphroditæ* again.

‡ In the *Gleditsia*, which is the only known Instance of this Case, the Male Flowers and the Hermaphrodites are produced upon the same Plant, and the Females on a distinct one.

|| This case and the next, having no Hermaphrodite Flowers, seem to be Exceptions to the Definition of Polygamous Plants.

§ The Instance of this Case given in the *Philosophia Botanica* is the *Empetrum*; but that *Genus* is removed to the Class *Dioecia* in the last Edition of the *Genera Plantarum*; where a Note informs us, that the Hermaphrodite Flowers, which the Author had once seen on a Plant of this *Genus*, could not afterwards be ever found again. We have therefore changed this instance for the *Ficus*, the only other Instance left of this singular Case.

AN
INTRODUCTION
TO
BOTANY.

PART THE SECOND.

CHAP. I.

*Of the SEXUAL SYSTEM, and its
Divisions.*

THE Sexual System was invented by
Dr. *Linneus*, Professor of Physic and
Botany at *Upsal*. It is founded on the Parts
of Fructification described in the former
Part of this Work: These having been ob-
served with more Accuracy, since the Dis-
covery of the Uses for which Nature has
assigned them, a new Set of Principles have
been derived from them; by means of
which,

which, the Distribution of Plants has been brought to a greater Precision, and rendered more conformable to true Philosophy in this System, than in any one of those which preceded it. The Author of it does not pretend to call it a natural one; he gives it as artificial only, and modestly owns his Inability to detect the Order pursued by Nature in her vegetable Productions: But of this he seems confident, that no natural System can ever be framed, without taking in the Materials, out of which he has raised his own; and urges the Necessity of admitting artificial Systems for Convenience, till one truly natural shall appear*.

By the Sexual System, Plants are disposed according to the Number, Proportion, and Situation of the Stamina and Pistilla: The Manner of their Distribution will appear in the following Chapters. We shall here only speak in general of the Divisions of the System.

* *Linnaeus* has given *Fragmenta Methodi naturalis*, *Fragments of the natural Method*, in which he has made a Distribution of Plants under various Orders, putting together in each, such as appear to have a natural Affinity to each other: This, after a long and fruitless Search after the natural Method, he gives as the Result of his own Speculation, for the Assistance of such as may engage in the same Pursuit. See his *Classes Plantarum*, page 485. and *Phil. Bot.* page 27.

The first general Division of the whole Body of Vegetables is into twenty-four *Classes*; these are again subdivided into *Orders*, the Orders into *Genera*, the Genera into *Species*, and the Species into *Varieties*, where there are any worthy of Note. Of these Divisions, we shall treat of the three first only in this second Part. These more immediately respect the Theory of the Science than the other two, which, though systematic Divisions likewise, have, as our author observes, a nearer Relation to the Practice; and it is in these also that the principal Improvements in the Management of the Science are more particularly included.

As the Classes and Orders of the System will be separately treated of in the following Chapters, we shall conclude this Introductory one with a Table exhibiting their Titles at one View, in the Order in which they stand in the System that the Reader may have Recourse thereto as he finds Occasion.

Table

Table of the CLASSES and ORDERS.

CLASSES.	ORDERS.
1. MONANDRIA	1. <i>Monogynia.</i> 2. <i>Digynia.</i>
2. DIANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia</i> 3. <i>Trigynia</i>
3. TRIANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Trigynia.</i>
4. TETRANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Tetragynia</i>
5. PENTANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Trigynia.</i> 4. <i>Tetragynia.</i> 5. <i>Pentagynia.</i> 6. <i>Polygynia.</i>
6. HEXANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Trigynia.</i> 4. <i>Tetragynia.</i> 5. <i>Polygynia.</i>
7. HEPTANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Tetragynia.</i> 4. <i>Heptagynia.</i>
8. OCTANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Trigynia.</i> 4. <i>Tetragynia.</i>
9. ENNEANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Trigynia.</i> 3. <i>Hexagynia.</i>
10. DECANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Trigynia.</i> 4. <i>Penta-</i> <i>gynia.</i> 5. <i>Decagynia.</i>
11. DODECANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Trigynia.</i> 4. <i>Pentagy-</i> <i>nia.</i> 5. <i>Dodecagynia.</i>
12. ICOSANDRIA	{ 1. <i>Monogynia.</i> 2. <i>Digynia.</i> 3. <i>Trigynia.</i> 4. <i>Pentagy-</i> <i>nia.</i> 5. <i>Polygynia.</i>
	13. Po-

CLASSES.

ORDERS

13. POLYANDRIA	{ 1. <i>Monogynia</i> . 2. <i>Digynia</i> . 3. <i>Trigynia</i> . 4. <i>Tetragynia</i> . 5. <i>Pentagynia</i> . 6. <i>Hexagynia</i> . 7. <i>Polygynia</i> .
14. DIDYNAMIA	{ 1. <i>Gymnospermia</i> . 2. <i>Angiospermia</i> .
15. TETRADYNAMIA	1. <i>Siliculosa</i> . 2. <i>Siliquosa</i> .
16. MONADELPHIA	{ 1. <i>Triandria</i> . 2. <i>Pentandria</i> . 3. <i>Octandria</i> . 4. <i>Enneandria</i> . 5. <i>Decandria</i> . 6. <i>Endecandria</i> . 7. <i>Dodecandria</i> . 8. <i>Polyandria</i> .
17. DIADELPHIA	{ 1. <i>Pentandria</i> . 2. <i>Hexandria</i> . 3. <i>Octandria</i> . 4. <i>Decandria</i> .
18. POLYADELPHIA	{ 1. <i>Pentandria</i> . 2. <i>Icosandria</i> . 3. <i>Polyandria</i> .
19. SYNGENESIA	{ 1. <i>Polygamia æqualis</i> . 2. <i>Polygamia superflua</i> . 3. <i>Polygamia frustranea</i> . 4. <i>Polygamia necessaria</i> . 5. <i>Polygamia segregata</i> . 6. <i>Monogamia</i> .
20. GYNANDRIA	{ 1. <i>Diandria</i> . 2. <i>Triandria</i> . 3. <i>Tetrandria</i> . 4. <i>Pentandria</i> . 5. <i>Hexandria</i> . 6. <i>Decandria</i> . 7. <i>Dodecandria</i> . 8. <i>Polyandria</i> .
21. MONOECIA	{ 1. <i>Monandria</i> . 2. <i>Diandria</i> . 3. <i>Triandria</i> . 4. <i>Tetrandria</i> . 5. <i>Pentandria</i> . 6. <i>Hexandria</i> . 7. <i>Heptandria</i> . 8. <i>Polyandria</i> . 9. <i>Monadelphina</i> . 10. <i>Syngenesia</i> . 11. <i>Gynandria</i> . 22. DIO-

CLASSES.

ORDERS.

22. DIOECIA

- 1. *Monandria.* 2. *Diandria.*
- 3. *Triandria.* 4. *Tetrandria.* 5. *Pentandria.* 6. *Hexandria.* 7. *Octandria.*
- 8. *Enneandria.* 9. *Decandria.* 10. *Dodecandria.*
- 11. *Polyandria.* 12. *Monadelphica.* 13. *Syngenesia.*
- 14. *Gynandria.*

23. POLYGAMIA

- 1. *Monoecia.* 2. *Dioecia.* 3. *Trioecia.*

24. CRYPTOGAMIA

- 1. *Filices.* 2. *Musci.* 3. *Algae.*
- 4. *Fungi.*

APPENDIX

- 1. *Palmae.*

C H A P. II.

Explanation of the TITLES of the Twenty-four CLASSES.

HAVING in the preceding Chapter given the Divisions of the System, we shall in this explain the Meaning of the Terms used for the Titles of the Classes. As these Terms in the *Greek* Language, from whence they are taken, are all expressive of the principal Circumstance that obtains in the Class to which they are applied, the Explanation of them will itself give us a good insight into the proper Characters of the several Classes, and the sexual Distinctions on which they are founded: However, it will be necessary to say something more particular concerning many of them afterwards in the Chapters we shall allot for each of them separately.

CLASS I. *MONANDRIA.* 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
dite

dite Flowers take their Denominations from the Number of Stamina, or male Parts of the Flower. The Word here compounded with the numerical Terms, signifies *a Husband*; so that the Title *Monandria* expresses, that the Flowers of this Class have but *one* Husband, that is, one Stamen; *Diandria*, *two* Stamina; *Triandria*, *three*; *Tetrandria*, *four*; *Pentandria*, *five*; *Hexandria*, *six*; *Heptandria*, *seven*; *Octandria*, *eight*; *Enneandria*, *nine*; and *Decandria*, *ten*. It must be observed however, that the Flowers being Hermaphrodite, as above mentioned, is in all these Classes a necessary Condition; for should the female Part be wanting, the Plant would belong to some other Class, notwithstanding the Number of Stamina may be such as would otherwise refer it to one of these: And this Caution we give once for all to avoid Repetitions, that when we use the Term *Hermaphrodite*, we mean that it is a Condition not to be dispensed with.

CLASS XI. *DODECANDRIA*.—
This Term in the *Greek* imports that the Flowers have *twelve* Husbands or Stamina. However, the Class is not confined to this Number, but includes all such Hermaphrodite Flowers as are furnished with any Number of Stamina from *twelve* to *nineteen* inclusive;

inclusive : No Flowers have been yet found to have eleven Stamina, which is the Reason no Class has been allotted to that Number.

CLASS XII. *ICOSANDRIA*.—This Term imports, that the Flowers have *twenty* Husbands or Stamina : But here again the Title is to be understood with great Latitude ; for though the Plants that belong to this Class are rarely found with less than twenty Stamina, yet they frequently have a greater Number : and they are therefore not to be known with Certainty from those of the next Class, without having Recourse to their classic Character ; which, not being expressed in the Title, we forbear the Explanation of here, as we shall give it in the Chapter allotted for this Class.

CLASS XIII. *POLYANDRIA*.—This Term imports, that the Flowers have *many* Stamina.

CLASS XIV. *DIDYNAMIA*.—This Term signifies the *Power* or *Superiority* of *two*, and is applied to this Class, because its Flowers have four Stamina, of which there are two longer than the rest : This Circumstance alone is sufficient to distinguish this Class from the fourth, where the four Stamina are equal ; but the Flowers of this Class have also their particular Character,
besides

besides what the Title expresses, their Corollæ being mostly *Ringent*, as will be shewn in its Place*.

CLASS XV. *TETRADYNAMIA*.—This Term expresses the Power or Superiority of *four*; and accordingly there are in the Flowers of this Class six Stamina, four of which are longer than the rest; which Circumstance distinguishes them from those of the sixth Class, where the six Stamina are equal: But these Flowers have their particular Character also, their Corollæ being *Cruciform* †.

CLASS XVI. *MONADELPHIA*.—The Word here, compounded with the numerical Term, signifies a *Brother*. This Relation is employed to express the Union of the Filaments of the Stamina, which in this Class do not stand separate, but join at the Base, and form one Substance, out of which they proceed as from a common Mother; and the Title of the Class expresses a *single* Brotherhood, meaning that there is but *one* Set of Stamina so united, which disting-

* See Chap. 17. See also Part I. Chap. 3. where the Term *Ringent* is explained.

† See Chap. 18. See also Part I. Chap. 3. where the Term *Cruciform* is explained.

guishes the Class from the two following ones. The Number of Stamina in this Class is not limited: The Flowers have their particular Character*.

CLASS XVII. *DIADELPHIA*.—This Term expresses a *double* Brotherhood, or *two* Sets of Stamina, united in the manner explained in the preceding Class. The Number of the Stamina is not limited: The Flowers of this Class have a very particular Character, their Corolla being *Papilionaceous*, as will be shewn in its Place †.

CLASS XVIII. *POLYADELPHIA*.—This Term expresses *many* Brotherhoods, or Sets of Stamina; the Flowers have no classic Character, farther than is expressed in the Title.

CLASS XIX. *SYNGENESIA*.—This Class contains the compound Flowers described in Part I. Chap. 19. The Title signifies *Congeneration*, alluding to the Circumstance of the Stamina; in which, though the Filaments stand separate, yet the Antheræ, which are the Part more immediately subservient to Generation, are united in a

* See Chap. 19.

† See Chap. 20. See also Part I. Chap. 3. for the Explanation of the Term *Papilionaceous*.

Cylinder,

Cylinder, and perform their Office *together*,
The classic Character will be explained in its
Place*.

CLASS XX. *GYNANDRIA*.—The
Term is compounded of two Words, that
signify *Wife* and *Husband*; and alludes to the
singular Circumstance of this Class, in the
Flowers of which the Stamina grow upon
the Pistillum; so that the male and female
Parts are united, and do not stand separate,
as in other Hermaphrodite Flowers.

CLASS XXI. *MONOECIA*.—The
Word here, compounded with the numeri-
cal Term, signifies a *House* or *Habitation*.
To understand the Application of this Title,
we must know, that the Plants of this Class
are not *Hermaphrodite* but *Androgynous* †,
the Flowers that have the Stamina wanting
the Pistillum, and those that have the Pis-
tillum wanting the Stamina. Now the Term
Monoecia, which signifies a *single* House, al-
ludes to this Circumstance; that in this Class
the male and female Flowers are both found
on the *same* Plant, whereas in the next they
have *distinct* Habitations.

CLASS XXII. *DIOECIA*.—This
Term, which signifies *two* Houses, is ap-

* See Chap. 22.

† See Part I. Chap. 21.

plied to this Class (the Plants of which are *Male* and *Female*) to express the Circumstance of the *male* Flowers being on one Plant, and the *female* on another; the contrary of which is the Case of the androgynous Class *Monoecia* last explained.

CLASS XXIII. *POLYGAMIA*.---The Term signifies *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 is the Reason of giving this Title to the Class.

CLASS XXIV. *CRYPTOGAMIA*.---The Term signifies *Concealment of Marriages*; this Class consisting of such Plants as either bear their Flowers concealed within the Fruit *, or have them so small, as to be imperceptible.

* The *Ficus*, whose Flowers are within the Fruit used to be put in this Class, but is since removed to the 23d Class *Polygamia*.

C H A P. III.

Explanation of the TITLES of the ORDERS.

THE Titles of the Orders have been given in Chap. 1. It remains to explain them,

CLASS I. to XIII. inclusive.--The Orders of the first thirteen Classes take their Denominations from the Number of the *Pistillum*, or Female Part of the Plant, which is usually reckoned from the *Base* of the *Style*, if there be any; but if the *Style* be wanting the Number is fixt from the *Stigmata*. The *Greek* Word, compounded with the numerical Terms in the Titles of these Orders signifies a *Wife*: *Monogynia* implies *one Wife* or one *Style*; *Digynia*, *two* *Styles*; *Trigynia*, *three*; *Tetragynia*, *four*; *Pentagynia*, *five*; *Hexagynia*, *six*; *Decagynia*, *ten*; and *Polygynia*, *many*. These are the Titles that occur in the Orders of these thirteen Classes; and this general Explanation of them will be thought sufficient, as from the Table given in the first Chapter it appears how they are employed in the Classes.

CLASS XIV. *DIDYNAMIA*.--Of the three Orders of this Class the two first

are founded on a Distinction in the Fruit, The Title of the first Order, *Gymnospermia*, is expressive of such Plants as have *naked* Seeds; and that of the second, *Angiospermia*, of such as have their Seeds in a *Vessel* or *Pericarpium*. The third Order, *Polypetala*, is expressive of such Plants as have *many Petals*: This Order seems to have been established in Favor of one Genus of Plants only, the *Melianthus*, the Flowers of which are *Polypetalous*, though those of all the rest of this Class are *Mono-petalous* *.

CLASS XV. *TETRADYNAMIA*.

—The two Orders of this Class are founded on a Distinction in the *Pericarpium*. In the first Order, *Siliculosa*, the *Pericarpium*, is a *Silicula*, *little Siliqua*; which differs from the *Siliqua* in being round, and having the Apex of the Dissepiment, which had been the Style, prominent beyond the Valves, often so far as to be equal in Length to the *Silicula*. In the second Order, *Siliquosa*, the *Pericarpium* is a *Siliqua*, which is long and without any remarkable Extension of the Style.

* This Order is omitted in the *Systema Naturæ*, published in 1756. See the Note on this Order in Chapter 37:

CLASS XVI. *MONADELPHIA*. XVII. *DIADELPHIA*. XVIII. *POLYADELPHIA*. The Orders of these three Classes are founded on the Number of the Stamina in each Brotherhood or distinct Set of Stamina. The Titles of the Orders being the same that are used for the Titles of the early Classes of the System, the Explanation need not be repeated here.

CLASS XIX. *SYNGENESIA*.---To understand the orders of this Class, we must explain what is meant by *Polygamy* in Flowers. We have already treated of polygamous *Plants*, and shewn that the Term *Polygamous*, as there applied, alluded to the Intercommunication of the male or female Flowers with the Hermaphrodite ones, either upon the same or a distinct Plant: But in respect to Flowers, the Term is applied to a single Flower only; for the Flowers of this Class being Compound, a Polygamy arises from the Intercommunication of the several Florets in one and the same Flower. Now the *Polygamy* of *Flowers*, in this Sense of the Word, affords four Cases, which are the Foundations of the four first Orders of this Class. 1st. Order, *Polygamia æqualis*, *equal Polygamy*, is when *all* the Florets are *Hermaphrodite*. 2d. Order, *Polygamia superflua*,

flua, superfluous, Polygamy, when some of the Florets are *Hermaphrodite*, and others *Female* only; for in this Case, as the Fructification is perfected in the Hermaphrodites, the Addition of the Females is a Superfluity. 3d. Order, *Polygamia frustranea, frustraneous* or *ineffectual Polygamy*, when some of the Florets are *Hermaphrodite*, and others *Neuter*; for in this Case the Addition of the Neuters is of no Assistance to the Fructification. 4th. Order, *Polygamia necessaria, necessary Polygamy*, when some of the Florets are *Male*, and the rest *Female*; for in this Case there being no Hermaphrodites, the Polygamy arising from the Composition of the Florets of different Sexes is *necessary* to perfect the Fructification. 5th Order, *Polygamia segregata*. The Title signifies to be separated, the Plants of this Order having partial Cups growing out of the common Calyx which surround and divide the Flocculi or Florets. 6th Order, *Monogamia*: The Title signifies a *single* Marriage, and is opposed to the *Polygamia* of the four other Orders; for in this, though the Antheræ are united, which is the essential Character of the Flowers of this Class, the Flower is *simple*, and not compounded of *many* Florets, as in the other Orders.

CLASS

CLASS XX. *GYNANDRIA*. The Orders of this Class are founded on the Number of Stamina. The Titles have been already explained.

CLASS XXI. *MONOECIA*. XXII. *DIOECIA*. These two Classes, whose Flowers have no fixt Character but that of not being Hermaphrodite, take in the Characters of almost every other Class; and the Orders have accordingly been disposed under the Titles of those Classes, to which their respective Flowers would have belonged, if the Stamina and Pistillum had been under the same Covers: As the Explanation of all these Titles has been given in the last Chapter in the Explanation of the Classes, it need not be repeated here.

CLASS XXIII. *POLYGAMIA*. In this Class the Titles of the two first Orders are the same with the Titles of the twenty-first and twenty-second Classes, and are to be understood in the same manner; that is, 1. *Monoecia*, when the Polygamy is on the *same* Plant; and, 2. *Dioecia*, when it is on *distinct* Plants. The Order *Trioecia* has been established in Favour of a single Genus, the *Ficus*; in which the Polygamy is on *three* distinct Plants, one producing *Male* Flowers, another

another *Female*, and a third *Hermaphrodite*, or *Androgynous*.

CLASS XXIV. *CRYPTOGAMIA*. The Orders of this Class are, 1. *Filices, Ferns*. 2. *Musci, Mosses*. 3. *Algæ, Flags*; and 4. *Fungi, Mushrooms*. As the Explanation of the Character of these Orders will come more properly into the Chapter that treats particularly of this Class, we shall content ourselves here with having interpreted the Titles as above.

C H A P. IV.

Of the first Class MONANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with but *one* Stamen. The Orders are *two*, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains fourteen Genera, Distinguished into, 1. *Trilocular*, such as have the *Pericarpium* divided into three *Loculaments*: of which there are eleven, viz. *Canna, Amomum, Costus, Alpinia, Maranta, Curcuma, Kæmptferia, Thalia, Myrosma, Phyllachne, and Renealmia*. 2. *Monospermous*, such as
have

have a single Seed, of which there are three, viz. *Boerhaavia*, *Salicorvia*, and *Hippuris*.

ORDER II. *DIGYNIA*, comprehending such Plants as have two Styles. This Order contains five Genera, viz. *Corispermum*, *Callitriche*, *Blitum**, *Cinna*†, and *Mniarum*.

C H A P. V.

Of the second Class, DIANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *two* Stamina. The Orders are three, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains thirty-one Genera, distinguished into, 1. Such as have *regular* Corollæ, of which there are eleven, viz. *Nyctanthus*, *Jasminum*, *Ligustrum*, *Phillyrea*, *Olea*, *Chionanthus*, *Syringa*, *Dialium*, *Erantbemum*, *Circæa*, and *Wulfenia*. 2. Such as have *irregular* Corollæ, and the Fruit *Angiospermous*‡; of which there are ten, viz. *Veroni-*

* *Plantæ*, one of the seven Orders of Vegetables.

† *Gramminæ*, Grass, one of the seven Orders of Vegetables.

‡ The Seeds in a Vessel.

ca, *Pæderota*, *Justicia*, *Dianthera*, *Gratiola*, *Schwenkia*, *Pinguicula*, *Utricularia*, *Calceolaria*, and *Globba*. 3. Such as have irregular Corolla, and the Fruit *Gymnospermous**; of which there are twelve, viz. *Verbena*, *Lycopus*, *Ametbystea*, *Cunila*, *Ziziphora*, *Monarda*, *Rosmarinus*, *Salvia*, *Collinsonia*, *Morina*, *Ancestrum*, and *Tbouinia*.

ORDER II. *DIGYNIA*, comprehending such Plants that have *two* Styles. This Order contains but one Genus, viz. *Anthoxanthum*.

ORDER III. *TRIGYNIA*, comprehending such Plants that have *three* Styles. There is but one Genus of this Order, viz. *Piper*.

C H A P. VI.

Of the third Class TRIANDRIA.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with three Stamina. The Orders are three, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains thirty-four Genera, distinguished into, 1. Those whose Flowers have

* The Seeds naked.

no Spatha or Amentum; of which there are sixteen, viz. *Valeriana*, *Olox*, *Willichia*, *Tamarindus*, *Rumphia*, *Cneorum*, *Camocladia*, *Melothria*, *Ortega*, *Loeflingia*, *Polycnemum*, *Hippocratea*, *Rotala*, *Witsenia*, *Pommerculla*, and *Dilatris*. Such as have spathaceous Flowers, and a trilocular Capsule; of which there are ten, viz. *Crocus*, *Ixia*, *Gladiolus*, *Antholyza*, *Iris*, *Moræa Wachendorfia*, *Commelina*, *Callisia*, and *Xyris*. 3. Such as have an imbricated Amentum, and are Gymnospermous*; of which there are eight, viz. *Schoenus*, *Cyperus*, *Scirpus*, *Eriophorum*, *Lygeum*, *Nardus*, *Kyllinga*, and *Fuirena*.

ORDER II. *DIGYNIA*, comprehending such Plants as have two Styles. This Order contains thirty-one Genera †, viz. *Bobartia*, *Cornucopia*, *Saccharum*, *Panicum*, *Pbleum*, *Alopecurus*, *Milium*, *Agrostis*, *Aira*, *Melica*, *Poa*, *Briza*, *Uniola*, *Daëtylis*, *Cynofurus*, *Festuca*, *Bromus*, *Stipa*, *Avena*, *Lagurus*, *Arundo*, *Aristida*, *Lolium*, *Elymus*, *Secale*, *Hordeum*, *Triticum*, *Phallaris*, *Paspalum*, *Rottboella*, and *Anthistiria*.

ORDER III. *TRIGYNIA*, comprehending

* The Seeds single and naked.

† All the Plants of this Order are Grasses, the Leaves of which are Food for Cattle; the small Seeds for Birds, and the larger Grain for Man.

such

such Plants as have *three* Styles. This Order contains eleven Genera, viz. *Eriocaulon*, *Montia*, *Proserpinaca*, *Triplaris*, *Holosteum*, *Polycarpon*, *Mollugo*, *Minuartia*, *Queria*, *Lechea*, and *Koenigia*.

C H A P. VII.

Of the fourth Class, TETRANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *four* Stamina. The Flowers of this Class may be known from those of the fourteenth by this Distinction, that the Stamina are of an equal Length; whereas those of the fourteenth, which have four Stamina likewise, there are two long and two short. The Orders of this Class are *three*, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains seventy Genera, distinguished into, 1. Such as have *aggregate* Flowers properly so called*, with the Seeds single and naked; of which there are seven, viz. *Protea*, *Cephalanthus*, *Globularia*, *Dipsacus*, *Knautia*, *Scabiosa*, and *Allionia*. 2. Such as have their Flowers *monopetalous* on a double

* See Part I. Chap. 19.

Fruit, and the *Style* bifid, of which there are twenty *, viz. *Hedyotis*, *Spermacoce*, *Sherardia*, *Asperula*, *Diodia*, *Knoxia*, *Manettia*, *Houstonia*, *Gallium*, *Crucianella*, *Rubia*, *Scabrita*, *Embothrium*, *Hydrophylax*, *Hartogia*, *Acaena*, *Banckfia*, *Orixa*, *Othera*, and *Skimmia*. 3. Such as have *monopetalous* Flowers otherways circumstanced; of which there are twenty, viz. *Siphonanthus*, *Catesbæa*, *Ixora*, *Pavetta*, *Petesia*, *Mitchella*, *Callicarpa*, *Aquartia*, *Polypremum*, *Penæa*, *Blaeria*, *Buddleja*, *Exacum*, *Plantago*, *Scoparia*, *Rhacoma*, *Centunculus*, *Sanguisorba*, *Cissus*, and *Ægiphila*. 4. Such as are tetrapetalous and complete †; of which there are twelve, viz. *Epimedium*, *Cornus*, *Fagara*, *Tomex*, *Amannia*, *Ptelea*, *Ludwigia*, *Oldenlandia*, *Isnardia*, *Santalum*, *Trapa*, and *Samara*. 5. Such as are incomplete ‡; of which there are Eleven, viz. *Dorstenia*, *Elæagnus*, *Crameria*, *Rivina*, *Salvadora*, *Camphorosma*, *Alchemilla*, *Struthiola*, *Cometes*, and *Sirium*.

ORDER II. *DIGYNIA*, comprehending such Plants as have *two* Styles. This Order contains nine Genera, viz. *Aphanes*, *Cruzita*,

* These are the *Stellatæ*, Starry Plants, of *Ray*. See his *Hist. of Plants*, page 447. They are held to be astringent and diuretic.

† Not wanting either Calyx or Corolla.

‡ Calyx or Corolla wanting.

Bufonia,

Bufonia, Hamamelis, Cuscuta, Hypecoum, Galopina, Gomozia, and Gonocarpus.

ORDER III. *TETRAGYNIA*, comprehending such Plants as have *four* Styles. This Order contains seven Genera, viz. *Ilex, Coldenia, Potamogeton, Ruppia, Sagina, Myginda, and Tillæa.*

C H A P. VIII.

Of the fifth Class, PENTANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *five* Stamina. The Orders are six, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style*. This Order contains one Hundred and Fifty-five Genera, distinguished into, 1. *Monopetalous Tetraspermous*†, of which there are sixteen‡, viz. *Heliotropium, Myosotis, Lithospermum, Anchusa, Cynoglossum, Pulmonaria, Symphy-*

* The Berries of the monopetalous Plants of this Order are for the most Part poisonous.

† With four Seeds.

‡ These are the *Asperifolia*, rough-leaved Plants of Ray's Hist. page 487. They are accounted glutinous and vulnerary.

tum, *Onosma*, *Cerintbe*, *Borago*, *Asperugo*, *Lycopsis*, *Echium*, *Nolana*, *Tournefortia*, and *Messerschmidia*. 2. *Monopetalous* with the *Capsule* within the Flower; of which there are thirty-five, viz. *Diapensia*, *Aretia*, *Androsace*, *Primula*, *Cortusa*, *Porana*, *Soldanella*, *Dodecatheon*, *Cyclamen*, *Menyanthes*, *Hottonia*, *Hydrophyllum*, *Lysimachia*, *Anagallis*, *Theophrasta*, *Patagonula*, *Spigelia*, *Ophiorrhiza*, *Randia*, *Azalea*, *Plumbago*, *Phlox*, *Convulvulus*, *Ipomea*, *Lisianthus*, *Brossæa*, *Allamanda*, *Polemonium*, *Nigrina*, *Retzia*, *Scheffeldia*, *Epacris*, *Doraena*, *Weigela*, *Tectona*, and *Ignatia*. 3. *Monopetalous* with the *Germen* below the Flower; of which there are thirty-one, viz. *Campanula*, *Roella*, *Phyteuma*, *Trachelium*, *Samolus*, *Nauclea*, *Rondeletia*, *Macrocnemum*, *Bellonia*, *Portlandia*, *Cinchoma*, *Psychotria*, *Coffea*, *Chiococca*, *Ceropegia*, *Lonicera*, *Triosteum*, *Morinda*, *Conocarpus*, *Hamellia*, *Erihalis*, *Menais*, *Genipa*, *Matthiola*, *Scævola*, *Mussænda*, *Virecta*, *Escallonia*, *Caroxylon*, *Elaeodendron*, and *Hovenia*. 4. Such as have declining *Stamina*; of which there are seven, viz. *Mirabilis*, *Coris*, *Verbascum*, *Datura*, *Hocyamus*, *Nicotiana*, and *Atropa*. 5. *Monopetalous*, with a *Berry* above the *Receptacle*; of which there are twenty-two, viz.

H

Phy-

Physalis, Solanum, Capsicum, Strychnos, Jacquinia, Chironia, Brunfelsia, Cordia, Pergularia, Cestrum, Ehretia, Varronia, Laugieria, Lycium, Chrysophyllum, Sideroxylum, Rhamnus, Arduina, Ellisia, Phyllica, Bladbia, and Fagraea. 6. Polypetalous, of which there are thirty-one, viz. *Ceanothus, Byttneria, Myrsine, Celastrus, Euonymus, Diosma, Brunia, Itca, Galax, Cedrela, Mangifera, Hirtella, Ribes, Gronovia, Hedera, Vitis, Lagoecia, Sauvagesia, Claytonia, Achyranthes, Roridula, Cubnia, Plectronia, Cyrilla, Aquilicia, Heliconia, Carissa, Celosia, Calodendrum, Chenolea, and Corynocarpus.* 7. Incomplete Flowers of which there are three, viz. *Illecebrum, Glaux, and Tbesium.* 8. Such as have the *Lobes* of the *Corollæ* bent obliquely to the Right: of which there are nine, viz. *Rauwolfia, Cerbera, Vinca, Gardinea, Nerium, Plumeria, Echites, Cameraria, and Tabernamontana.*

ORDER II. *DIGYNIA*, comprehending such Plants that have *two* Styles. This Order contains *seventy-five* Genera, distinguished into I. Such as have the *Lobes* of the *Corollæ* bent *obliquely* to the right; of which there are six, viz. *Periploca, Cynanchum, Apocynum, Asclepias, Linconia, and Stapelia.*

Stapelia. 2. Monospermous* ; of which there are ten, viz. *Herniaria*, *Chenopodium*, *Beta*, *Salsola*, *Anabasis*, *Cressa*, *Gompbrena*, *Steris*, *Bosea*, and *Ulmus*. 3. Polyspermous† ; of which there are thirteen, viz. *Nama*, *Hydrolea*, *Heuchera*, *Swertia*, *Schrebera*, *Velezia*, *Gentiana*, *Bumalda*, *Coprosma*, *Cussonia*, *Melodinus*, *Russelia*, and *Vahlia*. 4. Gymnodispermous‡, with a simple Umbel ; of which there are three §, viz. *Phyllis*, *Eryngium*, and *Hydrocotyle*. 5. Gymnodispermous with an *universal* and partial *Involucrum*, of which there are twenty-seven, viz. *Sanicula*, *Astrantia*, *Bupleurum*, *Echinophora*, *Tordylium*, *Caucalis*, *Artedia*, *Daucus*, *Ammi*, *Bunium*, *Conium*, *Selinum*, *Athamanta*, *Peucedanum*, *Crithmum*, *Hasselquistia*, *Cacbrys*, *Ferula*, *Laserpitium*, *Heracleum*, *Ligusticum*, *Angelica*, *Sium*, *Sison*, *Bubon*, *Cuminum*, and *Oenanthe*. 6. Gymnodispermous with only one *partial* Umbel ; of which there are eight, viz. *Pbellandrum*, *Cicuta*,

* Single-seeded.

† Many-seeded.

‡ Having two naked Seeds.

§ These Plants, and those of the two Distinctions next following which are *Gymnodispermous* also, are the *umbellate* Plants of *Tournefort's* Seventh Class. See his *Institution*, R. H. In dry Soils they are aromatic, warm, resolvent, and carminative, but in moist Places poisonous. The Virtue is in the Roots and Seeds.

H 2

Æthusa,

Æthusa, *Coriandrum*, *Scandix*, *Chærophyllum*, *Imperatoria*, and *Seseli*. 7. Gymnodispermous without any Involucrum, of which there are eight, viz. *Thapsia*, *Pistinaca*, *Smyrnum*, *Anethum*, *Carum*, *Pimpinella*, *Apium*, and *Ægopodium*.

ORDER III. *TRIGYNIA*, comprehending such Plants as have *three* Styles. This Order contains seventeen Genera, viz. *Rhus*, *Viburnum*, *Cassine*, *Sambucus*, *Spathelia*, *Staphylea*, *Tamarix*, *Turnera*, *Telephium*, *Corrigiola*, *Pharnaceum*, *Alfina*, *Drypis*, *Basella*, *Sarothra*, *Xylophylla*, and *Semecarpus*.

ORDER IV. *TETRAGYNIA*, comprehending such Plants as have *four* Styles. This Order contains *two* Genera, viz. *Parnassia*, and *Evolvulus*.

ORDER V. *PENTAGYNIA*, comprehending such Plants as have *five* Styles. This Order contains ten Genera, viz. *Aralia*, *Mahernia*, *Statice*, *Linum*, *Aldrovanda*, *Drosera*, *Crassula*, *Sibbaldia*, *Gisckia*, and *Commerfonia*.

ORDER VI. *POLYGYNIA*, comprehending such Plants as have many Styles. This Order contains but one Genus, viz. *Myosurus*.

C H A P. IX.

Of the sixth Class, HEXANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *six* Stamina. The Flowers of this Class may be known from those of the fifteenth by this Distinction, that the Stamina are of *equal* Length; whereas in those of the fifteenth which have six Stamina likewise, there, are *four long* and *two short*. The Orders of this Class are five, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains sixty-two Genera, distinguished into 1. Such as have *trifid* *Corollæ*, and a *Calyx*, of which there are seven viz. *Bromelia*, *Tillandsia*, *Burmannia*, *Tradescantia*, *Bursera*, *Licuala*, and *Lachenalia*. 2. Such as have *monophyllous* *Spatha*, of which there are nine, viz. *Pontederia*, *Hæmanthus*, *Galanthus*, *Leucojum*, *Tulbagia*, *Narcissus*, *Pancreatium*, *Duroia*, and *Nandina*. 3. Such as are *hexapetalous* and *naked**; of which there are twenty-five, viz. *Crinum*, *Amaryllis*, *Bulbocodium*, *Aphyl-*

* Without a Calyx.

lanthes, Allium, Liliium, Fritillaria, Uvularia, Gloriosa, Tulipa, Erythronium, Albuca, Ornithogalum, Scilla, Hypoxis, Cyanea, Asphodelus, Anthericum, Leontice, Dracena, Asparagus, Ebrharta, Massonia, Phormium, and Polia. 4. Monopetalous and naked, of which there are ten, viz. *Convallaria, Polyanthes, Hyacinthus, Aletris, Yucca, Aloe, Agave, Alstromeria, Capura, and Hemerocallis.* 5. Such as have a *Calyx*, but the *Corollæ* not trifid; of which there are thirteen, viz. *Acorus, Orontium, Calamus, Juncus, Achras, Richardia, Prinos, Berberis, Loranthus, Frankenia, Hillia, Peplis, and Canaria.*

ORDER II. *DIGYNIA*, comprehending such Plants as have *two* Styles. This Order contains four Genera, viz. *Atraphaxis, Oryza, Falkia, and Gabnia.*

ORDER III. *TRIGYNIA*, comprehending such Plants as have *three* Styles. This Order contains ten Genera, viz. *Flagellaria, Rumex, Scheuchzeria, Triglochin, Melanthium, Medeola, Trillium, Colchicum, Helonias, and Wurmbea.*

ORDER IV. *TETRAGYNIA*, comprehending such Plants as have *four* Styles. Of this Order there is but one Genus, viz. *Petiveria.*

ORDER V. *POLYGYNIA*, comprehending
ing

ing such Plants as have *many* Styles. Of this Order there is but one Genus, viz. *Alisma*.

C H A P. X.

Of the seventh Class, HEPTANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *seven* Stamina. The Orders of this Class are four, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains three Genera, viz. *Trientalis*, *Disandra*, and *Æsculus*.

ORDER II. *DIGYNIA*, comprehending such Plants as have *two* Styles. This Order contains but one Genus, viz. *Limeum*.

ORDER III. *TETRAGYNIA*, comprehending such Plants as have *four* Styles. Of this Order there are but two Genera, viz. *Saururus*, and *Aponogeton*.

ORDER IV. *HEPTAGYNIA*, containing such Plants as have *seven* Styles. Of this Order there is but one Genus, viz. *Septas*.

C H A P. XI.

Of the eighth Class, OCTANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *eight* Stamina. The Orders are four, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. Of this Order there are thirty-one Genera, viz. *Tropæolum*, *Osbeckia*, *Rhexia*, *Oenothera*, *Gaura*, *Epilobium*, *Melicocca*, *Grislea*, *Amyris*, *Allophylus*, *Combretum*, *Fuchsia*, *Ximenia*, *Mimusops*, *Jambolifera*, *Memecylon*, *Lawsonia*, *Vaccinium*, *Erica*, *Daphne*, *Dirca*, *Gnidia*, *Stellera*, *Passerina*, *Lachnæa*, *Antichorus*, *Chlora*, *Dodonæa*, *Ophira*, *Guarea*, and *Bæckea*.

ORDER II. *DIGYNIA*, comprehending such Plants as have *two* Styles. This Order contains five Genera, viz. *Galenia*, *Weinmannia*, *Moehringia*, *Schmidelia*, and *Codia*.

ORDER III. *TRIGYNIA*, comprehending such Plants as have *three* Styles. This Order contains five Genera, viz. *Polygonum*, *Coccoloba*, *Paullinia*, *Cardiospermum*, and *Sapindus*.

ORDER IV. *TETRAGYNIA*, comprehending such Plants as have *four* Styles. This Order contains four Genera, viz. *Paris*, *Adoxa*, *Elatinæ*, and *Haloragis*.

C H A P.

C H A P. XII.

Of the ninth Class, ENNEANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *nine* Stamina. The Orders are three, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains four Genera, viz. *Laurus*, *Tinus*, *Anacardium*, and *Cassya*.

ORDER II. *TETRAGYNIA*, comprehending such Plants as have *three* Styles. This Order contains but one Genus, viz. *Rheum*.

ORDER III. *HEXAGYNIA*, comprehending such Plants as have *six* Styles. Of this Order there is but one Genus, viz. *Butomus*.

C H A P. XIII.

Of the tenth Class, DECANDRIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *ten* Stamina. The Orders are five, viz.

ORDER

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains fifty-six Genera, distinguished into 1. Such as have *declined* Stamina, of which there are fifteen, viz. *Sophora*, *Anagyris*, *Cercis*, *Baubinia*, *Parkinsonia*, *Hymenæa*, *Cassia*, *Poinciana*, *Cæsalpinia*, *Guilandina*, *Guaiacum*, *Cynometra*, *Anacardium*, *Swietenia*, and *Dictamnus*. 2. Such as have erect Stamina, of which there are forty-one, viz. *Ruta*, *Toluifera*, *Hæmatoxylum*, *Adenantha*, *Melia*, *Trichilia*, *Zygophyllum*, *Quassia*, *Fagonia*, *Tribulus*, *Thryallis*, *Murraya*, *Monotropa*, *Jussieua*, *Limonia*, *Melastoma*, *Kalmia*, *Ledum*, *Quisqualis*, *Dais*, *Bergera*, *Bucida*, *Copaifera*, *Samyda*, *Rhododendron*, *Andromeda*, *Epigæa*, *Gualtheria*, *Arbutus*, *Clethra*, *Pyrola*, *Prosopis*, *Heisteria*, *Chalcas*, *Codon*, *Styrax*, *Turræa*, *Dionæa*, *Ekebergia*, *Inocarpus*, and *Myroxylon*.

ORDER II. *DIGYNIA*, comprehending such Plants as have *two* Styles. Of this Order there are twelve Genera, viz. *Royena*, *Hydrangea*, *Cunonia*, *Chrysofplenium*, *Saxifraga*, *Tiarella*, *Metella*, *Scleranthus*, *Trianthema*, *Gysophila*, *Saponaria*, and *Dianthus*.

OR-

ORDER III. *TRIGYNIA*, comprehending such Plants as have *three* Styles. Of this Order there are twelve Genera, viz, *Cucubalus*, *Silene*, *Stellaria*, *Arenaria*, *Cherleria*, *Garidella*, *Malpigbia*, *Banisteria*, *Triopteris*, *Erythroxyton*, *Hiræa*, and *Deutzia*.

ORDER IV. *PENTAGYNIA*, comprehending such Plants as have *five*, Styles. Of this Order there are fourteen Genera, viz. *Averrhoa*, *Spondias*, *Cotyledon*, *Sedum*, *Penthorum*, *Oxalis*, *Suriana*, *Lychnis*, *Agrostema*, *Cerastium*, *Spergula*, *Grielum*, *Forskoblea*, and *Bergia*.

ORDER V. *DECAGYNIA*, comprehending such Plants as have *ten* Styles. This Order contains *two* Genera, viz. *Neurada*, and *Phytolacca*.

C H A P X I V .

Of the eleventh Class, DODECANDRIA.

THIS Class, notwithstanding its Title which is expressive of *twelve* Stamina, consists of such Plants as bear *Hermaphrodite* Flowers, furnished with any Number of Stamina from *twelve*, to nineteen inclusive*. The orders are five, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains twenty-five, Genera, viz. *Asarum, Gethyllis, Bocconia, Rhizophora, Blakea, Garcinia, Winterana, Cratæva, Triumphetta, Bassia, Peganum, Halesia, Nitraria, Portulaca, Hudsonia, Lythrum, Ginora, Decumaria, Befaria, Vatica, Apactis, Canella, Dodecas, Eurya, and Aristotelia.*

ORDER II. *DIGYNIA*, comprehending such Plants as have *two* Styles. Of

* *Tormentilla* is an Exception, belonging to the next Class, though it has but sixteen Stamina. The Characters of the Fructification in the next Class over-rule the Number of the Male Part expressed in its Title.

this Order there are *two*, Genera, viz. *Helio-
carpus*, and *Agrimonia*.

ORDER III. *TRIGYNIA*, comprehend-
ing such Plants as have *three* Styles. This
Order contains five Genera, viz. *Reseda*,
Euphorbia, *Pallasia*, *Tacca*, and *Visnea*.

ORDER IV. *PENTAGYNIA*, compre-
hending such Plants as have *five* Styles.
This Order contains but one Genus, viz.
Glinus.

ORDER V. *DODECAGYNIA*, compre-
hending such Plants as have *twelve* Styles.
This Order contains but one Genus, viz.
Sempervivum.

C H A P X V.

Of the twelfth Class, ICOSANDRIA.*

THIS Class consists of such Plants as
bear *Hermaphrodite* Flowers, of the
following Characters, viz. 1. A Calyx mo-
nophyllous, and concave. 2. The Corolla
fastened by its Claws to the inner Side of
the Calyx. 3. The Stamina twenty or
more. As the Number of Stamina in this

* This Class furnishes the Fruits most in Esteem.

Class, notwithstanding its Title, is not limited, an Attention must be had to the two first Characters, to distinguish the Flowers from those of the next Class, with which they might otherwise be confounded. The Orders are five, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains *eleven* Genera, viz. *Cactus*, *Eugenia*, *Philadelphus*, *Psidium*, *Myrtus*, *Punica*, *Amygdalus*, *Prunus*, *Plinia*, *Chryso-balanus*, and *Sonneratia*.

ORDER II. *DIGYNIA*, comprehending such Plants as have *two* Styles. Of this Order there is but one Genus, viz. *Cratægus*.

ORDER III. *TRIGYNIA*, comprehending such Plants as have *three* Styles. This Order contains two Genera, viz. *Sorbus*, and *Sesuvium*.

ORDER IV. *PENTAGYNIA*, comprehending such Plants as have *five* Styles. This Order contains six Genera, viz. *Mespilus*, *Pyrus*, *Tetragonia*, *Mesembryanthemum*, *Aizoon*, and *Spiræa*.

ORDER V. *POLYGYNIA*, comprehending such Plants as have *many* Styles. This Order contains nine Genera, viz. *Rosa*,
Rubus,

Rubus, Fragaria, Potentilla, Tormentilla, Geum, Dryas, Comarum, and Calycanthus.

C H A P. XVI.

Of the thirteenth Class, POLYANDRIA.*

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *many* Stamina. The Distinction between this Class and the twelfth may be known by having Recourse to the Characters of the twelfth Class in the preceding Chapter. The Orders are seven, viz.

ORDER I. *MONOGYNIA*, comprehending such Plants as have but *one* Style. This Order contains forty-two Genera, distinguished into, 1. Such as have scarce *any* Style, of which there are thirteen viz. *Marcgravia, Rheedia, Capparis* †, *Aëtea, Sanguinaria, Podophyllum, Chelidonium, Papaver, Argemone, Muntingia, Cambogia, Sarcasena, and Nymphæa.* 2. Such as have a Style of some Length, of which there are

* The Fruits of this Class are often poisonous; which makes it necessary to distinguish them from those of the last, which abounds with eatable Fruits.

† *Capparis* has some Length of Style.

twenty-nine, viz. *Bixa*, *Sloanea*, *Mammea*, *Ochna*, *Calophyllum*, *Grias*, *Tilia*, *Laetia*, *Eleocarpus*, *Lecythis*, *Vateria*, *Lagerstroemia*, *Thea*, *Caryophyllus*, *Mentzelia*, *Delima*, *Cistus*, *Prockia*, *Corchorus*, *Seguiera*, *Loosa*, *Trewia*, *Trilix*, *Alstonia*, *Cleyera*, *Myristica*, *Sparrmania*, *Ternstromia*, and *Vallea*.

ORDER II. *DIGYNIA*, comprehending such Plants as have *two* Styles. This Order contains *four* Genera, viz. *Pæonia*, *Calligonum*, *Curatella*, and *Fothergilla*.

ORDER III. *TRIGYNIA*, comprehending such Plants as have *three* Styles. This Order contains *two* Genera, viz. *Delphinium*, and *Aconitum*.

ORDER IV. *TETRAGYNIA*, comprehending such Plants as have *four* Styles. This Order contains *three* Genera, viz. *Tetracera*, *Caryocar*, and *Cimicifuga*.

ORDER V. *PENTAGYNIA*, comprehending such Plants as have *five* Styles. This Order contains *four* Genera, viz. *Aquilegia*, *Nigella*, *Reaumuria*, and *Brathys*.

ORDER VI. *HEXAGYNIA*, comprehending such Plants as have *six* Styles. This Order contains but one Genus, viz. *Stratiotes*.

ORDER VII. *POLYGYNIA*, comprehend-

ending such Plants as have *many* Styles. This Order contains *twenty-one* Genera, viz. *Dillenia, Liriodendron, Magnolia, Michelia, Uvaria, Annona, Anemone, Atragene, Clematis, Thalictrum, Adonis, Illicium, Ranunculus, Trollius, Isopyrum, Helleborus, Caltha, Hydrastis, Houtuynia, Unona, and Wintera.*

C H A P. XVII.

Of the fourteenth Class, DIDYNAMIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with four Stamina; *two* of which are longer than the rest. This Circumstance would suffice to distinguish it from the fourth Class, in which the four Stamina are *equal*; however, as the Flowers of this Class have a particular Structure, there are general Characters which will nearly serve for the whole Class; and these we will give at Length.

Characters of the Class, DIDYNAMIA.

CALYX---A Perianthium, monophyllous, erect, tubulate, quinquefid, with Segments for the most Part unequal, and persisting.

COROLLA---Monopetalous and erect, the Base of which contains the Honey, and does the Office of a Nectarium. The upper Lip
I strait:

strait: the lower spreading and trifid. The middle Lacinia the broadest.

STAMINA---Four Filaments, subulate, inserted in the tube of the Corolla, and inclined towards the back thereof. The two inner and nearest the shortest. All of them parallel, and rarely exceeding the length of the Corolla. The Antheræ lodged under the upper Lip of the Corolla in pairs; in each of which respectively the two Antheræ approach each other.

PISTILLUM---The Germen commonly above the Receptacle. The Style, single, filiform, bent in the same form as the Filaments, usually placed within them, a little exceeding them in length, and slightly curved towards the summit. The Stigma for the most Part emarginate.

PERICARPIUM---Either wanting (see the First Order) or, if present, usually Bilocular (see the Second Order).

SEEDS---If no Pericarpium, four, lodged within the hollow of the Calyx, as in a Capsule; but if there be a Pericarpium, more numerous, and fastened to a Receptacle placed in the Middle of the Pericarpium.

The Flowers of this Class are for the most Part almost upright, but inclining a little at an acute Angle from the Stem, that
the

the Corolla may more easily cover the Antheræ, and that the Pollen may fall on the Stigma, and not be soaked with the rain. The essential Character is in the four Stamina; of which the two nearest are shorter and all four close to each other, and transmitted with the single Style of the Pistillum through a Corolla that is unequal.

The Orders of this Class are two, viz.

ORDER I. *GYMNOSPERMIA**, comprehending such Plants as have *naked* Seeds. This Order has these farther Characters, viz. the Seeds *four* (excepting *Phryma*, which is *monospermous*;) and the Stigma *bipartite*, and *acute*, with the lower Lacinia *reflexed*. It contains thirty-four Genera, distinguished into 1. Such as have the Calyx *quinquefid*, and nearly equal, of which there are twenty, viz. *Ajuga*, *Teucrium*, *Satureja* *Thymbra*, *Hyssopus*, *Nepeta*, *Lavandula*, *Betonica*, *Sideritis*, *Mentha*, *Glechoma*, *Perilla*, *Lamium*, *Galeopsis*, *Stachys*, *Ballota*, *Marrubium*, *Leonurus*, *Phlomis*, and *Moluccella*. 2. Such as have the Calyx *bilabiate*, *divided into two Lips*; of which there are fourteen, viz.

* The Plants of this Order are scented, and are accounted cephalic and resolvent. The Virtue is in the Leaves. They are the Labiati (lipped Plants) of *Tournefort*, and Verticillati (Plants that flower at the Joints) of *Ray's Hist. Plant.* 508.

Clinopodium, *Origanum*, *Thymus*, *Melissa*,
Dracocephalon, *Horminum*, *Melittis*, *Ocimum*,
Trichostema, *Scutellaria*, *Prunella*, *Cleonia*,
Prasium, and *Phryma*.

ORDER II. *ANGIOSPERMIA* †, com-
 prehending such Plants as have the Seeds
 in a *Pericarpium*, which Circumstance is
 constant, and distinguishes this Order from
 the last in every Form. To this Character
 may be added that of a Stigma, commonly
obtusè. This Order contains sixty-nine
 Genera, distinguished into 1. Such as have
 a *simple* Stigma, and *personate* Corollæ; of
 which there are thirteen, viz. *Bartsia*,
Rhinanthus, *Euphrasia*, *Melampyrum*, *La-*
thyræa, *Schwalbea*, *Tozzia*, *Pedicularis*, *Ge-*
rardia, *Chelone*, *Gesneria*, *Antirrbinum*, and
Cymbaria. 2. A *simple* Stigma and *spreading*
 Corollæ, of which there are thirty, viz.
Craniolaria, *Martynia*, *Torenia*, *Scrophularia*,
Celsia, *Digitalis*, *Bignonia*, *Citharexylum*,
Halleria, *Crescentia*, *Gmelina*, *Petrea*, *Lan-*
tana, *Cornutia*, *Loeselia*, *Capraria*, *Selago*,
Hebenstretia, *Erinus*, *Buchnera*, *Browallia*,
Linnaea, *Sibthorpia*, *Limosella*, *Hemimeris*,
Dombeya, *Castilleja*, *Millingtonia*, *Thunbergia*,
 and *Amasonia*. 3. With a *double* Stigma;
 of which there are twenty-five, viz. *Ste-*

† These are the *Personati*, *Personate Flowers* of *Tour-*
nefort.

modia, Obolaria, Orobanche, Dodartia, Lippia, Sesamum, Mimulus, Ruellia, Barleria, Duranta, Ovieda, Volkameria, Clerodendron, Vitex, Bontia, Columnea, Acanthus, Pedali-um, Avicennia, Vandelia, Manulea, Besleria, Lindernia, Premna, and Hyobanche. 4. Such as have *many* Petals, of which there is but one Genus, viz. *Melianthus*.

C H A P. XVIII.

Of the fifteenth Class, TETRADYNAMIA.*

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *six* Stamina, *two* of which are shorter than the rest, by which last Circumstance it may be distinguished from the sixth Class, whose Flowers have *six equal* Stamina. The Flowers of this Class are of a particular

* These are the *Cruciformes* (*cross-shaped* Flowers) of *Tournefort*, and the *Siliculosæ*, and the *Siliquosæ* (Plants that have a *Silicula* and *Siliqua*) of *Ray's Hist. Plant.* 777. This Class is truly natural, and has been assumed as such by all Systematists, though Individuals have often added one or more Genera to it, contrary to Nature. *Linnaeus* thinks he has given no wrong one, unless it be *Cleome*. The Distinction into *Siliculosæ*, and *Siliquosæ*, is admitted by all. The Plants are held to be Antiscorbutic and Diuretic. The Taste in most is watery, mixt with a Sharpness. They commonly lose their Quality when dried. The essential Character of the several Genera in this Class depends commonly on the Situation of the nectariferous Glandule.

Structure, answering to the Characters following.

Characters of the Class TETRADYNAMIA.

CALYX---A Perianthium tetraphyllous, and oblong; the Leaves of which are ovato-oblong, concave, obtuse, conniving, gibbous downwards at the Base, the opposite ones equal and deciduous. The Calyx in these Flowers is a Nectarium; which is the Reason of the Base being gibbous.

COROLLA---called Cruciform. Four equal Petals. The Claws plano-subulate, erect, and somewhat longer than the Calyx. The Limb plane. The Laminæ widening outwards, obtuse, the Sides hardly touching one another. The Insertion of the Petals is in the same Circle with the Stamina.

STAMINA---The Filaments six, and subulate; of which two that are opposite are of the Length of the Calyx; the other four somewhat longer, but not so long as the Corolla. The Antheræ oblong, acuminate, thicker at the Base, erect, and with their Tops leaning outwards. There is a nectariferous Glandule, which in the different Genera has various Appearances; it is seated close to the Stamina, and particularly to the

two shorter ones, to whose Base it is fastened ; and these have a light Curvature to prevent their pressing upon it, whereby those Filaments become shorter than the rest.

PISTILLUM—The Germen above the Receptacle increasing daily in Height. The Style either of the Length of the longer Stamina, or wanting. The Stigma obtuse.

PERICARPIUM—A Siliqua of two Valves, often Bilocular, opening from the Base to the Top. The Dissipiment projecting at the Top beyond the Valves, the prominent Part thereof having before served as a Style.

SEEDS—Roundish, inclining downwards, alternately plunged lengthwise into the Dissipiment. The Receptacle linear, surrounding the Dissipiment, and immersed in the Sutures of the Pericarpium. The Orders are two, viz.

ORDER I. *SILICULOSA*, comprehending those Plants whose Pericarpium is a Silicula *. This Order contains fourteen Genera, viz. *Myagrum*, *Vella*, *Anastatica*, *Subularia*, *Draba*, *Lepidium*, *Thlaspi*, *Cochlearia*, *Iberis*, *Alyssum*, *Peltaria*, *Clypeola*, *Biscutella*, and *Lunaria*,

* See the Account of this Order in Chap. 3.

ORDER II. *SILIQUOSA*, comprehending those Plants whose Pericarpium is a Siliqua *. This Order contains eighteen Genera, viz. *Ricotia*, *Dentaria*, *Cardamine*, *Sisymbrium*, *Erysimum*, *Cheiranthus*, *Helio-
phila*, *Hesperis*, *Arabis*, *Turritis*, *Brassica*, *Sinapis*, *Raphanus*, *Bunias*, *Isatis*, *Crambe*, *Cleome*, and *Chamira*.

C H A P. XIX.

Of the sixteenth Class, MONADELPHIA †.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with *one* Set of *united* Stamina. This Class consists of eight Orders. The Characters of the Flowers are as follow.

Characters of the Class MONADELPHIA.

CALYX---A Perianthium always present, persisting, and in most Genera double.

COROLLA---Pentapetalous, the Petals heart-shaped; the Sides of which lap each one over the next, contrary to the Motion of the Sun.

* See Chap. 3.

† In this Class the Calyx is of great Moment for distinguishing the Genera, and fixes the Limits with Certainty. They were formerly distinguished by the Fruit; which not being found sufficient, recourse was had to the Leaves of the Plant. The Plants of this Class are esteemed to be emollient, and mucilaginous.

STAMINA,

STAMINA—The Filaments united below, but distinct upwards if there be more than one *. The exterior ones shorter than the interior. The Antheræ incumbent.

PISTILLUM—The Receptacle of the Fructification prominent in the Centre of the Flower. The Germen erect, surrounding the Top of the Receptacle in a jointed Ring. The Styles are all united below in one Substance with the Receptacle, but divided above into as many Threads as there are Germen. The Stigma spreading and thin.

PERICARPIUM—A Capsule divided into as many Loculaments as there are Pistilla. Its Figure various in the different Genera.

SEEDS—Kidney-shaped.

The *Corolla* in this Class has been called *Monopetalous*; but as the Petals are all distinct at the Base, it is to be styled more properly *Pentapetalous*, notwithstanding the Petals cohere by the Union of the Stamina. The Orders are eight, viz.

ORDER I. *TRIANDRIA*, comprehending such Plants as have *three* Stamina. This

* The *Melochia* has five Antheræ, but it does not appear that there are any distinct Filaments. See its Character in the Genera Plantarum.

Order contains three Genera, viz. *Aphyteja*, *Galaxia*, and *Hydnora*.

ORDER II. *PENTANDRIA*, comprehending such Plants as have *five* Stamina. This Order contains five Genera, viz. *Waltheria*, *Lerchea*, *Hermannia*, *Melochia*, and *Symphonia*.

ORDER III. *OCTANDRIA*, comprehending such Plants as have *eight* Stamina. Of this Order there is but one Genus, viz. *Aitonia*.

ORDER IV. *ENNEANDRIA*, comprehending such Plants as have *nine* Stamina. Of this Order there is but one Genus, viz. *Dryandra*.

ORDER V. *DECANDRIA*, comprehending such Plants as have *ten* Stamina. This Order contains three Genera, viz. *Conarus*, *Geranium* †, and *Hugonia*.

ORDER VI. *ENDECANDRIA*, comprehending such Plants as have *eleven* Sta-

† The Species of this Genus varies singularly in the number of Stamina and other circumstances, viz. from 1 to 22 they have seven fertile Stamina, the leaves alternate, and many Flowers on a peduncle; from 23 to 35 they have seven fertile Stamina and the leaves growing opposite; from 36 to 45 five fertile Stamina, the Calyx five leaves, and the fruit declined; from 46 to 58 ten fertile Stamina, and two Flowers on a Peduncle; from 59 to 68 ten fertile Stamina, two Flowers on a Peduncle, and the Plants annual; from 69 to 82 ten fertile Stamina, and one Flower on a Peduncle,

mina.

mina. Of this Order there is only one Genus, viz. *Brownea*.

ORDER VII. *DODECANDRIA*, comprehending such Plants as have *twelve* Stamina. This Order contains only one Genus, viz. *Pentapetes*.

ORDER VIII. *POLYANDRIA*, comprehending such Plants as have *many* Stamina. This Order contains twenty-one Genera, viz. *Bombax*, *Sida*, *Adansonia*, *Althæa*, *Alcea*, *Malva*, *Lavatera*, *Malope*, *Urena*, *Gossypium*, *Hibiscus*, *Stewartia*, *Camellia*, *Morisonia*, *Mesua*, *Malachra*, *Gordonia*, *Gustavia*, *Carolinea*, *Barringtonia*, and *Solandra*.

C H A P. XX.

Of the seventeenth Class, DIADELPHIA.*

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnish-

* The Plants of the Class, *Diadelphia*, are the *Papilionaceous*, *Butterfly-shaped* Plants, of *Tournefort*; *irregular tetrapetalous* of *Rivinus*; and *leguminous* of *Ray's Hist. Plant.* 883. Of all the Classes, this is the most natural, and has its Flowers of the most singular Structure. The Calyx, though hitherto little attended to, is of great Moment for fixing the Genera. The Legumen was held of consequence by other Systematists; but by *Linnaeus* it is made of less Account. The Leaves of these Plants are Food for Cattle, and the Seeds also for Quadrupeds of the same Kind; the latter are accounted flatulent.

ed with *two* Sets of *united* Stamina †. The Characters of the Fructification are as follow.

Characters of the Class DIADELPAIA.

CALYX—A Perianthium monophyllous, campanulate, and withering. The Base gibbous, the lower Part thereof fastened to the Peduncle, the upper obtuse and melliferous. The Brim quinque-dentate, acute, erect, oblique, unequal. The lowest odd Denticle longer than the rest; the upper Pair shorter and farther asunder. The Bottom of the Cavity moist with a melleous Liquor, including the Receptacle.

COROLLA — Termed Papilionaceous, unequal; the Petals expressed by distinct Names, viz.

Vexillum, the *Standard*; a Petal covering the rest, incumbent, greater, plano-horizantal, inserted by its Claw in the upper Margin of the Receptacle, approaching to a cir-

† This Circumstance, implied in the Title, does not hold through the Class, the Plants given under the first Distinction of the third Order, having *monodelphious* Stamina; the Class is therefore not so properly to be fixed from its Title, as by the papilionaceous Corolla, and other Characters of the Fructification. It may be observed likewise, that in the diadelphious Flowers of this Class, one of the two Stamina is not a Set of *united* Filaments as in the other, but only a *single* Stamen, detached from the united Set. See the Characters of the Fructification.

cular

cular Figure when it leaves the Calyx, and nearly entire; along it, and especially towards its Extremity, runs a Line, or Ridge, that rises up, as if the lower Part of the Petal had been compressed; the Part of the Petal next to the Base approaching to a semicylindric Figure, embraces the Parts that lie under it. The Disk of the Petal is depressed on each Side, but the Sides of it nearest the Margin are reflexed upwards. Where the halved Tube ends, and the halved Limb begins to unfold itself, are two concave Impressions prominent underneath, and compressing the Wings, that lie under them.

Alæ, the *Wings*, two equal Petals, one at each Side of the Flower, placed under the Vexillum; incumbent with their Margins parallel, roundish, or oblong, broader upwards, the upper Margin straighter, the lower spreading more into a Roundness; the Base of each Wing bifid, the lower Division stretching out into a Claw, inserted in the Side of the Receptacle, and about the Length of the Calyx; the upper shorter and inflexed.

Carina, the *Keel*, the lowest Petal, often Bipartite, placed under the Vexillum and between the *Alæ*, boat-shaped, concave, compressed on the Sides, set like a Vessel afloat,

muti-

mutilate at the Base, the lower Part of which runs into a Claw of the Length of the Calyx, and inserted in the Receptacle, but the upper and side Lacinix are interwoven with that Part of the Alæ that is of the same Shape. The Form of the Sides of the Carina, is much like that of the Alæ; and so also is their Situation, except that they are lower, and stand within them. The Line that forms the *Carina*, or *Keel*, in this Petal, runs straight as far as the Middle, and then rises gradually in the Segment of a Circle, but the marginal Line runs straight to the Extremity, where meeting the carinal, they terminate obtusely.

STAMINA—Called *Diadelphia*. The Filaments two, of different Forms, viz. a lower one that involves the Pistillum, and an upper one incumbent on it. The former of these, from the Middle downwards, is cylindraceous, membranaceous, and split lengthwise on its upper Side; but the upper Half terminates in nine subulate* Parts, that are of the same length with, and follow the Flexure of the Carina of the Corolla, and of which the intermediate or lower Radii † are longer by alternate Pairs. The upper Fila-

* Awl-shaped.

† Rays, meaning the Divisions of the Filaments.

ment is subulato-fetose †, covering the splitting of the former cylindraceous Filament, incumbent on it, answering to it in Situation, simple and gradually shorter; its Base is detached from the rest, and prepares an Outlet for the Honey on each Side. The Antheræ reckoned all together are ten, one on the upper Filament, and nine on the lower, each of the Radii being furnished with a single one; they are small, all of one Size, and terminate the Radii.

PISTILLUM—Single, growing out of the Receptacle, within the Calyx. The Germen oblong, roundish, lightly compressed, straight, of the Length of the Cylinder of the lower Filament which involves it. The Style subulate, filiform, ascending, having the same length and Position as the Radii of the Filament among which it is placed, and withering. The Stigma downy, of the Length of the Style from the Part turned upwards, and placed immediately under the Antheræ.

PERICARPIUM—A Legumen, oblong, compressed, obtuse, bivalved, with a Longitudinal Suture both above and below; each Suture straight, though the upper one falls near the Base, and the lower one rises near

† Awl-shaped, and like a Bristle.

the Top. The Legumen opens at the upper Suture.

SEEDS — A few, roundish, smooth, fleshy, pendulous, marked with an Embrio that is a little prominent towards the Point of Infertion. When the Ova* are hatched, the Cotyledons † preserve the Form of the halved Seed.

RECEPTACLE—The proper Receptacles of the Seeds are very small, very short, thinner towards the Base, obtuse at the Disk that fastens them, oblong, inserted longitudinally in the upper Suture of the Legumen only, but placed alternate; so that when the Valvulæ have been parted, the Seeds adhere alternately to each of the Valves.

The ordinary Situation of the Flowers is obliquely pendulous; that is, at an acute Angle from the Perpendicular. The Orders are *four*, viz.

ORDER I. *PENTANDRIA*, comprehending such Plants as have *five* Stamina.

* Eggs, meaning the Seeds themselves, which answer to the Eggs of Animals, and are as it were hatched when the Corculum, or first Principle of the new Plant begins to strike Root and vegetate. See Part I. Chap. 7.

† Side Leaves of the Seed. See Part I. Chap. 7. The two Seed Leaves, which first appear above Ground, are these very Cotyledons, which are brought up with the Plant after the Corculum has struck; and it is these Seed Leaves that are here spoken of.

Of

Of this Order there is only one Genus, viz. *Monniera*.

ORDER II. *HEXANDRIA*, comprehending such Plants as have *six* Stamina. This Order contains *two* Genera, viz. *Fumaria*, and *Saraca*.

ORDER III. *OCTANDRIA*, comprehending such Plants as have *eight* Stamina. This Order contains *three* Genera, viz. *Polygala*, *Securidaca*, and *Dalbergia*.

ORDER IV. *DECANDRIA*, comprehending such Plants as have *ten* Stamina. This Order contains fifty Genera, distinguished into, 1. Such as have *monodelphous** Filaments; of which there are seventeen, viz. *Nissolia*, *Erythrina*, *Piscidia*, *Borbonia*, *Spartium*, *Genista*, *Aspalathus*, *Amorpha*, *Crotolaria*, *Ononis*, *Anthyllis*, *Ebenus*, *Abrus*, *Pterocarpus*, *Ulex*, *Arachis* and *Lupinus*. 2. Such as have *Diadelphous*† Filaments and downy Stigma; of which there are ten, viz. *Phaseolus*, *Dolichus*, *Glycine*, *Clitoria*, *Pisum*, *Orobus*, *Lathyrus*, *Vicia*, *Cicer*, and *Ervum*. 3. Such as have *Diadelphous* Filaments, bilabiate Calyces, and the Stigma not downy; of which there are six, viz. *Cytisus*, *Geoffroya*, *Robinia*, *Colutea*, *Glycyrhiza*, and *Coronilla*. 4. Such as have

* One Set, or Brotherhood.

† Two Sets, or Brotherhoods.

Diadelphious Filaments, Stigma that are not downy, and Calyces not bilabiate; of which there are seventeen, viz. *Ornithopus*, *Hippocrepis*, *Scorpiurus*, *Hedysarum*, *Æschynomene*, *Indigofera*, *Galega*, *Phaca*, *Astragalus*, *Biserula*, *Pforalea*, *Trifolium*, *Lotus*, *Liparia*, *Trigonella*, *Medicago*, and *Mullera*.

C H A P. XXI.

Of the eighteenth Class, POLYADELPHIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, furnished with *many* Sets of *united* Stamina; the Flowers have no particular Character farther than is expressed in the Title. The Orders are four, viz.

ORDER I. *PENTANDRIA*, comprehending such Plants as have *five* Stamina in each Set. Of this Order there are *two* Genera, viz. *Theobroma* and *Abroma*.

ORDER II. *DODECANDRIA*, comprehending such Plants as have *twelve* Stamina in each Set. Of this Order there is but *one* Genus, viz. *Monsonia*.

ORDER III. *ICOSANDRIA*, comprehending such Plants as have *twenty* Stamina

in each Set. Of this Order there is but *one* Genus, viz. *Citrus*.

ORDER IV. *POLYANDRIA*, comprehending such Plants as have *many* Stamina in each Set. This Order contains *eight* Genera, viz. *Hypericum*, *Ascyrum*, *Hopea*, *Symplocos*, *Melaleuca*, *Durio*, *Munchbausia*, and *Glabraria*.

C H A P XXII.

Of the nineteenth Class; SYNGENESIA *.

THIS Class consists of such Plants as bear *Compound* Flowers. We have already paved the way for understanding this Class, by the Account given of *Compound* Flowers in Part I. Chap. 19. and the Explanation of the Titles of the Class and its Orders in Chap 2. and 3. What is farther necessary here, is to give the Characters of the Flowers. *Compound* Flowers admit of a double Description, viz. of the whole Flower in its aggregate State, which is termed the *Flosculose Flower*; and 2. of

* This Class of *Compound* Flowers is a natural one, if we except the last Order; which upon the systematic Principles assumed, could not be refused an Admission into it. Its Plants are commonly bitter and stomachic.

the *Flosculi*, *Florets*, of which it is composed. We shall begin with the first, which concerns only the Calyx and Receptacle, those being the only Parts that are in common.

Characters of the *Flosculose Flower*.

CALYX—The common Calyx is a Perianthium, which contains the Florets and the Receptacle. It is either *simple*, *augmented*, or *imbricated* *. It contracts when the Flowers are fallen, but expands and turns back when the Seeds are ripe.

RECEPTACLE—The common Receptacle of the Fructification receives many fertile Florets on its Disk, which is either *concave*, *plane*, *convex*, *pyramidal*, or *globose*. The Surface of the Disk is either naked, without any other Inequality than that of being lightly dotted; *Villose*, covered with upright Hairs; or *Paleaceous*, covered with *Paleæ*, *Chaffs*, or *Straws*, that are linear, subulate, compressed, and erect, and serve to part the Florets.

Characters of the *Florets* †.

CALYX—A small Perianthium, often quinquepartite, seated on the Germen, persisting,

* See these Terms explained in Part I. Chap. 11.

† The Character here given is of an *Hermaphrodite* Floret;

sisting, and becoming the Crown of the Seed.

COROLLA---Monopetalous with a long and very narrow Tube. It is seated on the Germen, and is either *tubulate*, with the Limb campanulate and quinquefid, and the Laciniaë spreading and turning back; *ligulate*, with the Limb linear, plane, turned outwards, and the Top whole; *tridentate*, or *quinquedentate*; or wanting, having no Limb, and often no Tube.

STAMINA---The Filaments five, capillary, very short, inserted in the Neck of the Corollulaë. The Antheraë five, linear erect; and by the Union of their Sides forming a Cylinder, that is tubulate, quinquedentate, and of the Length of the Limb.

PISTILLUM---The Germen oblong, placed under the Receptacle of the Flower; the Style filiform, erect, of the Length of the Stamina, and perforating the Cylinder of the

Floret; but the Florets may also be either *Male*, *Female*, or *Neuter*, as the Orders shew; it may not be improper therefore to observe, in general, upon these Classic Characters, which our Author has drawn with such minute Exactness, that they should be understood as collected only from the Circumstances that most frequently occur in the Class, and liable to Variation, not in particular Genera only, but even through the whole Orders of the Class in some Cases.

Antheræ; the Stigma bipartite, the Laciniæ revolute, and spreading afunder.

PERICARPIUM---No true one, though in some there is a coriaceous * Crust.

SEED---A single one, oblong, often tetragonous, but commonly narrower at the Base. It is either crowned, or with the Crown wanting. The Crown is of two Kinds, either a Pappus, or a Perianthium; if a Pappus, it is either sessile, or placed on a Stipes; and consists of many Radii, that are placed in a round, and are either simple, radiate, or ramose; when the Crown is a Perianthium, it is such as is described above under that Head.

The Effence of a *Flosculose* Flower consists in having the Antheræ united in a Cylinder, and a single Seed below the Receptacle of the Floret †. The Orders of this Class are six, viz.

* Leathery.

† That the Effence of a *flosculose* or *compound* Flower does not consist either in the common Calyx or Receptacle *Linnaeus* argues from hence, that the common Calyx is wanting in *Echinops*, and the common Receptacle in *Milleria*, though both those Genera belong to this Class; and that on the other Hand, the common Calyx is found in *Scabiosa*, and the common Receptacle in *Dipsacus*, both which Plants belong to the Class *Tetrandria*, though they have, with the *Gomphrena* and others, been falsely ranged with the compound Flowers.

ORDER

ORDER I. *POLYGAMIA ÆQUALIS*,
 comprehending such Plants as have *Compound*
Flowers, of which the Florets are all *Hermaphrodite*. This Order contains forty-two
 Genera, distinguished into 1. Such as have
ligulate Compound Flowers, of which there
 are nineteen, viz. *Geropogon*, *Tragopogon*,
Scorzonera, *Picris*, *Sonchus*, *Lactuca*, *Chon-*
drilla, *Prenanthes*, *Leontodon*, *Hieracium*, *Cre-*
pis, *Andryala*, *Hyoseris*, *Seriola*, *Hypochoeris*,
Lapsana, *Catananche*, *Cichorium*, and *Scoly-*
mus. 2. Such as have *tubulose compound*
Flowers; of which there are twenty-three,
 viz. *Arctium*, *Serratula*, *Carduus*, *Cnicus*,
Onopordon, *Cynara*, *Carlina*, *Carthamus*, *Bi-*
dens, *Cacalia*, *Atractylis*, *Eupatorium*, *Agera-*
tum, *Ethulia*, *Staebelina*, *Chrysocoma*, *Calea*,
Tarhonanthus, *Pteronia*, *Athanasia*, *Spilan-*
thus, *Santolina*, and *Barnadesia*.

Order II. *POLYGAMIA SUPERFLUA*,
 comprehending such Plants as have the Flo-
 rets of the *Disk Hermaphrodite*, and those of
 the *Radius Female*. This Order contains
 thirty-eight Genera, distinguished into 1. *Tu-*
tulose; of which there are eight, viz. *Tana-*
acetum, *Artemisia*, *Gnaphalium*, *Xeranthemum*,
Carpesium, *Baccharis*, *Cotula*, and *Conyza*.
 2. *Radiate*; of which there are thirty,
 viz. *Erigeron*, *Tussilago*, *Senecio*, *Aster*, *Soli-*
K 4
dago,

dago, Inula, Cineraria, Arnica, Doronicum, Perdicium, Helenium, Bellis, Leysera, Tagetes, Peētis, Chrysanthemum, Matricaria, Anacyclus, Anthemis, Achillæa, Tridax, Zinnia, Verbesina, Sigesbeckia, Bupthalmum, Eclipta, Bellium, Amellus, Unxia, and Mutisia.

ORDER III. *POLYGAMIA FRUSTRANEA*, comprehending such Plants as have the Florets of the *Disk Hermaphrodite*, and those of the *Radius neuter*. This Order contains nine Genera, all *radiate*, viz. *Helianthus, Rudbeckia, Coreopsis, Gorteria, Osmites, Zoegia, Centaurea**, *Sclerocarpus*, and *Delta*.

ORDER IV. *POLYGAMIA NECESSARIA*, comprehending such Plants as have Flowers of the *Disk male*, and those of the *Radius female*. This Order contains fourteen Genera, most of which are *radiate*, viz. *Milleria, Silphium, Chrysogonum, Melampodium, Calendula, Arctotis, Osteospermum, Othonna, Polymnia, Eriocephalus, Filago, Micropus, Baltimora, and Hippia.*

* The *Corollulæ* of the *Centaurea*, are all *tubulose*, but those of the *Radius* differ from those of the *Disk*, which brings it within the Definition of a *radiate Flower*; however *Linnæus*, in his Description of the *Centaurea*, in the *Genera Plantarum*, has not called the *Corolla radiate*, but *tubulosa difformis, tubulose of different Forms.*

ORDER

ORDER V. *POLYGAMIA SEGREGATA*. This Order comprehends such Plants as have *many* partial Cups contained in the common Calyx, which separate and surround the Floscula. This Order contains seven Genera, distinguished into, 1. Such as have four Flosculi in each partial Calyx; of which there are two Genera, viz. *Elephantopus*, and *Oedera*. 2. Such as have *many* Flosculi in each partial Calyx; of which there is only one Genus, viz. *Sphæranthus*. 3. Such as have one Flosculus in each partial Calyx; of which there are three Genera, viz. *Echinops*, *Gundelia*, and *Stoebe*. 4. Such as have three Flosculi in each partial Cup, of which there is only one Genus, viz. *Jungia*.

ORDER VI. *MONOGAMIA*, comprehending such Plants as have *simple* Flowers. This Order contains seven Genera, viz. *Strumpfia*, *Scripbium*, *Corymbium*, *Jasione*, *Lobelia*, *Viola*, and *Impatiens*.

CHAP.

C H A P. XXIII.

Of the twentieth Class, GYNANDRIA.*

THIS Class consists of such Plants as have the *Stamina* growing either upon the *Style* itself, or upon a *Receptacle* that stretches out into the Form of a *Style*, and supports both the *Stamina* and the *Pistillum*. The Orders are nine, viz.

ORDER I. *DIANDRIA*†, comprehending such Plants as have *two* *Stamina*. The Flowers of this Order have a most singular Structure, answering to the following Description.

Characters of the Order *DIANDRIA*, of the Class *GYNANDRIA*.

The *Germen* is always contort ‡; the *Petals* are five; of which the two inner ones

* All the Flowers of this Class have a monstrous Appearance, owing to the uncommon Situation of the Parts of Fructification.

† This Order is a natural one, the Genera differing only in respect of the Nectarium. This Part *Linnaeus* considers as a Mark of Distinction for these Genera, far preferable to the Root, though not received as such by former Botanists.

‡ Twisted like a Screw

usually

usually approach and form a Galea †; the lower Lip of which becomes a Nectarium, and serves also for a Pistillum and sixth Petal. The *Style* grows to the inner Margin of the Nectarium in such a Manner as to be with its Stigma scarce either of them distinguishable. The *Filaments* are always two, supporting as many Antheræ; which are narrower downwards; naked, or without Tunic, and divisable, like the Pulp of a *Citrus*. These last are covered by little Cells, that are open underneath, and grow to the inner Margin itself of the Nectarium. The *Fruit* is a Capsule, that is unilocular, trivalved, and splits in the Angles under the Carinate † Rib. The Seeds are scobiform*, numerous, affixed to a linear Receptacle in each Valvule.

ORDER I. *DIANDRIA*, comprehending such Plants as have two Stamina, this Order contains eleven Genera, viz. *Orchis*, *Satyrion*, *Ophrys*, *Serapias*, *Limodorum*, *Arcthusa*, *Cypripedium*, *Epidendrum*, *Gunnera*, *Forstera*, and *Disa*.

ORDER II. *TRIANDRIA*, comprehending such Plants as have *three* Stamina. This Order contains four Genera, viz. *Sisyrinchium*, *Ferraria*, *Stilago*, and *Salacia*.

† Helmet.

† Keel shaped.

* Like Filings or Saw-dust, *i. e.* very small.

ORDER III. *TETRANDRIA*, comprehending such Plants as have *four* Stamina. Of this Order there is but one Genus, viz. *Nepenthes*.

ORDER IV. *PENTANDRIA*, comprehending such Plants as have *five* Stamina. This Order contains *three* Genera, viz. *Pasiflora*, *Gluta*, and *Ayenia*.

ORDER V. *HEXANDRIA*, comprehending such Plants as have *six* Stamina. This Order contains two Genera, viz. *Aristolochia*, and *Pistia*.

ORDER VI. *OCTANDRIA*, comprehending such Plants as have *eight* Stamina. Of this Order there is only one Genus, viz. *Scopolia*.

ORDER VII. *DECANDRIA*, comprehending such Plants as have *ten* Stamina. Of this Order there are but *two* Genera, viz. *Helicteres*, and *Kleinbovia*.

ORDER VIII. *DODECANDRIA*, comprehending such Plants as have *twelve* Stamina. This Order contains but one Genus, viz. *Cytinus*.

ORDER IX. *POLYANDRIA*, comprehending such Plants as have *many* Stamina. This Order contains *eight* Genera, viz. *Grewia*, *Xylopia*, *Arum*, *Dracontium*, *Calla*, *Pothos*, *Ambrosinia*, and *Zostera*.

CHAP.

C H A P. XXIV.

Of the twenty-first Class, MONOECIA.

THIS Class consists of such Plants as have no *Hermaphrodite* Flowers, but bear both *male* and *female* Flowers on the same Plant*. The Orders of this Class are eleven, viz.

ORDER I. *MONANDRIA*, comprehending such Plants as have their *male* Flowers furnished with one Stamen. This order contains ten Genera, viz. *Zanichellia*, *Ceratocarpus*, *Cynomorium*, *Elaterium*, *Chara*, *Ægopricon*, *Artocarpus*, *Nipa*, *Casuarina*, and *Phyllachne*.

ORDER II. *DIANDRIA*, comprehending such Plants as have their *male* Flowers furnished with two Stamina. This Order contains two Genera, viz. *Lemna*, and *Anguria*.

ORDER III. *TRIANDRIA*, comprehending such Plants as have their *male* Flowers furnished with three Stamina. This Order contains twelve Genera, viz. *Omphalea*, *Typha*, *Sparganium*, *Zea*, *Coix*, *Tripsacum*, *Oly-*

* These are the Androgynous Plants. See Part I. Chap. 21.

ra, Carex, Axyris, Tragia, Hernandia, and Phyllanthus.

ORDER IV. *TETRANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *four* Stamina. This Order contains nine Genera, viz. *Centella, Betula, Buxus, Urtica, Morus, Cicea, Serpicula, Littorella, and Aucuba.*

ORDER V. *PENTANDRIA*, comprehending such Plants as have the *male* Flowers furnished with *five* Stamina. This Order contains eight Genera, viz. *Xanthium, Ambrosia, Parthenium, Iva, Leea, Amaranthus, Nephelium, and Clibadium.*

ORDER VI. *HEXANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *six* Stamina. Of this Order there are *two* Genera, viz. *Zizania, and Pharus.*

ORDER VII. *HEPTANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *seven* Stamina. Of this Order there is but one Genus, viz. *Guettarda.*

ORDER VIII. *POLYANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *many* Stamina. This Order contains thirteen Genera, viz. *Ceratophyllum, Myriophyllum, Sagittaria, Begonia, The-
ligonum, Poterium, Quercus, Juglans, Fagus,
Car-*

Carpinus, Corylus, Platanus, and Liquidambar.

ORDER IX. *MONADELPHIA*, comprehending such Plants as have their *male* Flowers furnished with *one* Set of *united* Stamina. This Order contains fifteen Genera, viz. *Hura, Pinus, Cupressus, Thuja, Acalypha, Delechampia, Plukenetia, Cupania, Croton, Ricinus, Jatropha, Sterculia, Hippomane, Stillingia, and Gnetum,*

ORDER X. *SYNGENESIA*, comprehending such Plants as have their *male* Flowers furnished with Stamina, of which the Antheræ are *united*. This Order contains six Genera, viz. *Trichosanthes, Momordica, Cucumis, Cucurbita, Sicyos, and Bryonia.*

ORDER XI. *GYNANDRIA*, comprehending such Plants as have their *male* Flowers furnished with Stamina that grow out of a Kind of *Style*, or imperfect *Pistillum*, the perfect one being in the female Flower. This Order contains two Genera, viz. *An-drachne, and Agyneia.*

C H A P.

C H A P. XXV.

Of the twenty-second Class, DIOECIA.

THIS Class consists of such Plants as have no *Hermaphrodite* Flowers, but bear *male* and *female* Flowers on *distinct* Plants*. The Orders of this Class are fourteen, viz.

ORDER I. *MONANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *one* Stamen. This Order contains only two Genera, viz. *Najas*, and *Pandanus*.

ORDER II. *DIANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *two* Stamina. This Order

* There are many Plants which have male and female Flowers on *distinct* Plants; but which are not admitted to this Class, because this Circumstance happens to one Species only, and not to the whole Genus. Instances of this are met with in *Morus*, *Urtica*, *Laurus*, *Croton*, *Rumex*, *Silene*, *Carex*, *Rhus*, *Valeriana*, *Rhamnus*, and *Cucubulus*. But it is observable, that in the Plants that stand under the first Distinction, in the Order *Monogynia* of the Class *Pentandria*, which are the *Asperifolia* (*rough-leaved Plants*) of Ray, and also in the Plants of the Classes *Didinamia*, *Tetradynamia*, and *Diadelphia*, there have not been found any Species where the Sexes are on distinct Plants: This may be accounted for from the Structure of the Flowers in those Classes.

contains

contains three Genera, viz. *Vallisneria*, *Salix*, and *Cecropia*.

ORDER III *TRIANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *three* Stamina. This Order contains six Genera, viz. *Empetrum*, *Osyris*, *Caturus*, *Excoecaria*, *Restio*, and *Maba*.

ORDER IV. *TETRANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *four* Stamina. This Order contains seven Genera, viz. *Viscum*, *Hippophae*, *Myrica*, *Trophis*, *Batis*, *Montinia*, and *Brucea*.

ORDER V. *PENTANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *five* Stamina. This Order contains twelve Genera, viz. *Pistacia*, *Zanthoxylum*, *Astronium*, *Iresine*, *Antidesma*, *Spinacia*, *Acnida*, *Cannabis*, *Humulus*, *Zanonia*, *Fewillea*, and *Canarium*.

ORDER VI. *HEXANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *six* Stamina. This Order contains four Genera, viz. *Tamus*, *Smilax*, *Rajania*, and *Dioscorea*.

ORDER VII. *OCTANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *eight* Stamina. This

L

Order

Order contains three Genera, viz. *Populus*, *Rhodiola*, and *Magaritaria*.

ORDER VIII. *ENNEANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *nine* Stamina. This Order contains two Genera, viz. *Mercurialis* and *Hydrocharis*.

ORDER IX. *DECANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *ten* Stamina. This Order contains four Genera, viz. *Carica*, *Kiggelaria*, *Coriaria*, and *Schinus*.

ORDER X. *DODECANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *twelve* Stamina. This Order contains three Genera, viz. *Menispermum*, *Datisca*, and *Euclea*.

ORDER XI. *ICOSANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *many* Stamina inserted into the Calyx: of this Order there is but one Genus, viz. *Flacourtia*.

ORDER XII. *POLYANDRIA*, comprehending such Plants as have their *male* Flowers furnished with *many* Stamina. Of this Order there are two Genera, viz. *Cliffortia*, and *Hedycaria*.

ORDER XIII. *MONADELPHIA*, comprehending such Plants as have their *male* Flowers

Flowers furnished with *one* Set of *united* Stamina. This Order contains six Genera, viz. *Taxus*, *Juniperus*, *Ephedra*, *Cissampelos*, *Napæa* and *Adelia*.

ORDER XIV. *SYNGENESIA*, comprehending 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*.

ORDER XV. *GYNANDRIA*, comprehending such Plants as have their *male* Flowers furnished with Stamina that grow out of a Kind of *Style*, or *imperfect Pistillum*, the *perfect* one being in the female Flower. Of this Order there is but one Genus, viz. *Clusia*.

C H A P. XXVI.

Of the twenty-third Class, POLYGAMIA.

THIS Class consists of such Plants as bear *Hermaphrodite* Flowers, and also either *male* or *female* Flowers, or *both*. The Orders of this Class are *three*, viz.

ORDER I. *MONOECIA*, comprehending such Plants as have the Polygamy on the *same* Plant. This Order contains twenty-

four Genera, distinguished into, 1. Such as are *Polygamous* by *male Hermaphrodites*, and *female Hermaphrodites*; of which there is but one Genus, viz. *Musa*. 2. By *Hermaphrodites* and *Males*; of which there are twenty-two viz. *Ophioxylon*, *Celtis*, *Veratrum*, *Fusanus*, *Andropogon*, *Holcus*, *Apluda*, *Ischæmum*, *Cenchrus*, *Ægilops*, *Valantia*, *Parietaria*, *Atriplex*, *Brabeium*, *Acer*, *Gouania*, *Solandra*, *Terminalia*, *Clusia*, *Hermas*, *Spinifex*, and *Manisurus*. 3. By *Hermaphrodites*, and *Females*; of which there is one Genus, viz. *Mimosa*.

ORDER II. *DIOECIA*, comprehending such Plants as have the Polygamy on *two distinct* Plants. This Order contains *ten* Genera, distinguished into, 1. Such as are *Polygamous* by *Hermaphrodites* and *Females*; of which there are two, viz. *Fraxinus*, and *Gleditsia**. 2. By *Hermaphrodites* and *Males*; of which there are three, viz. *Diospyrus*, *Nyssa*, and *Pisonia*. 3. By *Androgynous* and *Males*; of which there are five, viz. *Anthospermum*, *Arctopus*, *Panax*, *Chrysitrix*, and *Stilbe*.

ORDER III. *TRIOECIA*, comprehending such Plants as have the Polygamy on

* In *Gleditsia* the *Hermaphrodites* and *Males* are on the same Plant, and the *Females* on a distinct one.

three

there distinct Plants. This Order contains two Genera, viz. *Ficus* †, and *Ceratonia*.

† To understand this Order, the singular Manner of the Fructification must be explained. The Fruit of the *Ficus* is not a *Pericarpium*, but a *Receptacle*, the interior Sides of which support the Flowers, which by this Means are inclosed within it. These Flowers in the cultivated Fig-trees are *female* only, but there is a Sort known by the Name of *Caprificus*, that has *male* Flowers, and another again called *Erinosyce*, which is *androgynous*, having both *male* and *female* Flowers distinct, though lodged within the same Receptacle. Here then we have the *Triocious* Polygamy explained; and if the Descriptions of *de la Hire* may be trusted, there are Figs that contain *Hermaphrodite* Flowers; which give us even a fourth Habitation for the Sexes. Thus much suffices to explain the Order; but there is an Objection naturally arising from hence to the Doctrine of the Sexes; the obviating which, will furnish the Opportunity of a necessary Remark. It will be asked, How it happens that the Fruit of our Fig-trees ripen, if the Plants are of one Sex only, and have no Assistance from the Male? The Answer is this; the Fruit is in all Cases to be distinguished from the Seed contained within it: If the Male be wanting, the Seed will not vegetate when sown, but the *Fruit* may nevertheless swell, and come to an Appearance of Perfection; and so it is observed to do in the Instance in Question, and in many others, especially where the Fruit is formed of one of the Parts less connected with the Seed; as Calyx, Receptacle, &c. though it is more common for it to drop off before it ripens, if not impregnated by the Male.

C H A P. XXVII.

Of the twenty-fourth Class, CRYPTO-
GAMIA.*

THIS Class consists of such Plants as *conceal* their Fructification, having their Flowers either *within* the Fruit, or so *small*, as not to be perceptible to the naked Eye. The Fructification in these is also of an uncommon Structure. The Orders are *four, viz.*

ORDER I. *FILICES, Ferns*, comprehending such Plants as are dorsiferous †. What is known of the Fructification of these Plants, amounts only to the few Characters following.

* The Plants of this Class are often of a dangerous quality.

† Bearing the Fruit on the Back of the Leaf. These have been called also *Epiphyllouspermous*, a Greek Compound expressive of the same Circumstance; *Capillary*, as being esteemed good for the Hair; and *Acaules, without Stems*; for in these Plants, what rises out of the Ground is plainly a Leaf only; one of the Characters of a Stem or Trunk is to be alike on every Side; but in the Stalks of Ferns, there is manifestly a Front and Back, the former being flat and channelled, and the latter convex; which shews them to be Leaves.

Characters of the FILICES.

CALYX—A Squama growing out of the Leaf opening on one of its Sides; and under which there are pedunculate Globules; each Globule is girt with an elastic Ring, which break elastically, and sheds a Dust, which are the Seeds.

This Order contains eighteen Genera; which, not admitting of any certain Distinction from their Fructification, have been ranged by *Linnaeus* according to their Situation under their covers, and are as follows, viz. *Cycas*, *Zamia*, *Equisetum*, *Onoclea*, *Ophioglossum*, *Osmunda*, *Acrosticum*, *Pteris*, *Blechnum*, *Hemionitis*, *Lonchitis*, *Asplenium*, *Polypodium*, *Adiantum*, *Trichomanes*, *Marsilea*, *Pilularia*, and *Isoetes*.

ORDER II. *MUSCI*, *Mosses* The Character of the Plants comprehended under this Title are, Antheræ without Filaments; the female Flowers distinct, and without any Pistillum; and the Seeds, consisting only of a naked Corculum, without Cotyledon or Tunic. The Genera of this Order have been distinguished by *Linnaeus*, according to the following Circumstance, viz. The Antheræ, with or without a *Calyptra**, placed on the

* A Veil.

same Plant as the Female Floret, or on a *distinct* one; and the female *aggregate*, or *single*. The Order contains eleven Genera viz. *Lycopodium*, *Porella*, *Sphagnum*, *Phajcum*, *Splachnum*, *Polytrichum*, *Mnium*, *Bryum*, *Hypnum*, *Fontinalis*, and *Buxbaumia*.

ORDER III. *ALGÆ*, *Flags*. The Plants comprehended under this Order have their Root, Stem, and Leaf, all in one. The Characters of the Fructification of this Order are not yet known, excepting the few Descriptions given by *Michelius*. The Genera are twelve, viz. *Jungermannia*, *Targionia*, *Marchantia*, *Blasia*, *Riccia*, *Anthoceros*, *Lichen*, *Tremella*, *Fucus*, *Ulva*, *Conserva*, and *Byssus*.

ORDER IV. *FUNGI*, *Mushrooms*. The Genera of this Order are given by *Linnaeus* after the Method of *Dillenius**. The Fructification being imperfectly known, no Character can be assigned for this Order, farther than the Title, which is familiar to every one. The Genera are ten, viz. *Agaricus*,

* *Linnaeus* tells us, he preferred the Method of *Dillenius* for the *Fungi* to that of *Michelius*; because it was plain to every one; whereas that of *Michelius*, though that Author has thrown great Light upon this Tribe, required too nice an Inspection.

Boletus,

Boletus, Hydnum, Phallus, Clathrus, Helvella, Peziza, Clavaria, Lycoperdon, and Mucor.

C H A P. XXVIII.

Of the APPENDIX.

BESIDES the twenty-four Classes explained in the preceding Chapters, *Linnaeus* has in his *Genera Plantarum*, given an *Appendix*, which in the *Ordo Generum* prefixed to that Work, he calls the twenty-fifth Class*. It contains only one Order, viz.

PALMÆ, comprehending such Plants as have a *Spadix* and *Spatha*. This Order contains nine Genera, viz. *Chamærops, Borassus, Corypha, Cocos, Phœnix, Elais, Areca, Elate, and Caryota.*

* *Linnaeus* in the first Edition of his *Genera Plantarum*, made two Orders in his *Appendix*, which in the last Edition of the *Systema Natura*, he has reduced to one, finding, after more mature Examination, all the Plants in his second Order fell naturally under the other Classes, and Orders, to which they properly belonged.

C H A P. XXIX.

Of GENERIC Distinctions.

HAVING now gone through the Explanation of the Classes and Orders of the System, we come to the Distinctions of the Genera. These, by the Theory of the sexual System, are to be regulated by the Fructification only. The Parts of Fructification known to the earlier Botanists were few, and might be well thought insufficient for distinguishing the vegetable Productions of Nature: They therefore had Recourse to the Habit of Plants, and other Circumstances; and by this Means a great Number of Genera were established, which the new System is obliged to reject. Of these we shall give the Reader an ample List of Instances in Chapter 31.

The Fructification being admitted as the only Foundation of the generic Distinctions, all Vegetables that *agree* in their Parts of Fructification are to be put together under one Genus; and all such as *differ* in those Parts are to be divided. The characteristic Mark of each Genus is to be fixed from the Number, Figure, Proportion, and Situation
of

of all the Parts: But as there are few Genera wherein all the Parts are constant in every one of the Species, we ought, wherever it is possible, to fix upon some one single Circumstance that is constant, and make it the *essential* Character. This in most Genera may be had: Thus the Effence of *Prunella*, *Torenia*, *Euphrasia*, *Alyssum*, and *Crambe*, lies in the Denticles of the Stamina; that of *Curcuma*, *Chelone*, *Bignonia*, and *Martynia* in a mutilate Stamen; the *Ranunculus* is distinguished by its Nectarium, which is a Pore in the Claws of its Petals; *Hydrophyllum* by the same Part, which in that Genus is a closed Chink in the Laciniæ of the Corolla; and *Helleborus* and *Nigella* also, by their tubulose Nectaria; in *Pancreatium* the Stamina are inserted in the Nectarium, which distinguishes it from *Narcissus*; in *Hyoscyamus*, there is a Covering to the Capsules, by which it is known from *Physalis*; the *Reseda* has always a lateral Nectarium, but varies in its Corolla and Pistillum; the *Campanula* has a quinquevalved Nectarium, but is inconstant in the Corolla and Capsule; and lastly, the *Iris* has a Stigma of singular Construction, but varies in the Beard of its Corolla.

There is, however, no one Part of Fructification

tification that can be relied on as a constant characteristic Mark for all Genera ; it being found, that the Part which is constant in some Genera will be inconstant in others : Thus in *Carica* the Flowers of the male Plant are monopetalous, and those of the female pentapetalous ; in *Myrica* some Species have naked Seeds, others Berries ; in *Fraxinus* some have a naked Flower, and others a Corolla ; in *Geranium* some have regular Corollæ, and others irregular ; in *Linum* some are pentapetalous, others tetrapetalous ; in *Aconitum* some are tricapsular, and others quinquecapsular ; and in *Trifolium* some are monopetalous, others polypetalous, some monospermous, and others polyspermous.

This Inconstancy of particular Parts in many Genera has been another Source of Error amongst the earlier Botanists ; who have parted many Plants from their Congeners on this Account : Of these Mistakes we shall give an ample List in Chapter 32.

When the characteristic Mark of any Genus is wanting in any particular Species, we should proceed with Caution, lest we confound Genera that should be distinguished : For want of this Caution the *Erica* and *Andromeda* had been joined, but were parted afterwards on account of the two Horns in the

the Antheræ of the *Erica*; the *Adonis* had been joined to the *Ranunculus*, but was parted from it again, on observing that it wanted the nectariferous Pore; and the *Aloe* and *Agave* had been blended, till it was observed that in the latter the Stamina were inserted in the Corolla, and not in the Receptacle.

When the characteristic Mark of any Genus is observed in some Species of another Genus near of Kin to it, a like caution is again necessary on the other Hand, lest we should multiply the Genera by parting Species that should stand together: Thus we find, that in *Sedum*, *Sempervivum*, *Rhodiola*, *Crassula*, *Tillæa* and *Cotyledon*, the Nectaria adhere to the Base of the Pistillum; in *Epilobium* and *Oenothera* the Calyx is tubulose; in *Mespilus*, *Cratægus*, and *Sorbus*, the Structure of the Flower is alike; and in both *Alnus* and *Betula*, there are three Florets on the Foliole of the Amentum*.

* The *Alnus* and *Betula* are joined by *Linnæus* under the Title of *Betula*. The rest, of these Instances he has kept separate, notwithstanding the Doubt raised here concerning the Propriety of distinguishing them.

C H A P. XXX.

By what Parts of Fructification the GENUS may with the most Certainty be determined.

THE more constant any Part of the Fructification is found through the several Species of any Genus, the more it may be relied on with Certainty as a characteristic Mark for that Genus: Thus in *Hypecoum* the Nectarium is constant, but not the *Siliqua*; the *Convallaria* is constant in its *spotted Berry*, but not in its *Corolla*; the *Lobelia* in its *Corolla*, but not in its *Fruit*; the *Cassia* in its *Corolla*, but not in its *Siliqua*; and the *Verbena* in its *Calyx* and *Corolla*, but not in its *Stamina* and *Seeds*.

In some Genera one Part of the Fructification is found to be the most constant, and in others another; but there is no Part that is not liable sometimes to a Variation: Thus we find the *Pericarpium* variable in *Impatiens*, *Campanula*, *Primula*, *Papaver*, *Cistus*, *Fumaria*, and *Arbutus*; the *Calyx* in *Nymphæa*, and *Cornus*; the *Corolla* in *Vaccinium*, *Convallaria*, *Andromeda*, *Gentiana*, and *Linum*; and the *Seeds* in *Ranunculus*, and *Alisma*.

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If the *Flowers* agree, but the *Fruits* differ, the *Genus* ought not to be parted: Thus in those extensive *Genera*, the *Cassia*, *Hedysarum*, *Sophora*, *Lavatera*, *Hibiscus*, and *Mimosa*, so great a number of *Species* have been ranged under the same *Genus*, on Account of the Conformity in the *Flowers*, though there is a Variation in the *Fruit*.

That the *Figure* of the *Flowers* is more certain than that of the *Fruit*, appears from many Examples; as from *Campanula*, *Primula*, *Antirrhinum*, *Alisma*, *Hibiscus*, *Cistus*, &c. but the *Proportion* of the *Parts* is subject to very great Variation.

The *Number* of the *Parts* is more liable to Variation than their *Figure*, and is found sometimes to vary even upon the same Plant; as in *Ruta*, *Chrysofplenium*, *Monotropa*, *Tetragonia*, *Euonymus*, *Philadelphus*, and *Adoxa*, in the *Flowers* of all which the *Number* of the *Parts* varies from five to four: In these doubtful Cases, the natural *Number* must be collected from the primary *Flower*; but in the Variations of the *Number* of the *Parts*, there is a proportional Affinity worth remarking. In *Flowers* the *Stamina* usually vary from ten to eight, and from five to four; the *Corolla* and *Calyx* from five to four, and the whole *Flower* from four to three; and
the

the *Fruit* also usually varies from five to three, and from five to four.

The *Situation* of the Parts is the most constant, very rarely varying in the same Genus.

The *Regularity* of the *Petals* is not so much to be depended on as some former Botanists have* thought; for we see in *Geranium* the *European* Species have regular Corollæ, but the *African* ones irregular.

The *Nectarium* Nature has made of the greatest Consequence. This Part, which had not even a Name till *Linncæus* had distinguished it, is a decisive Mark in all the following Genera, viz. in *Orchis*, *Satyrium*, *Monotropa*, *Fumaria*, *Viola*, *Malpighia*, *Banisteria*, *Adenantha*, *Commelina*, *Laurus*, *Helxine*, *Dictamnus*, *Zygophyllum*, *Swertia*, *Lilium*, *Fritillaria*, *Hydrophyllum*, *Ranunculus*, *Hermannia*, *Berberis*, *Staphylea*, *Passiflora*, *Narcissus*, *Panocratum*, *Mirabilis*, *Nerium*, *Stapelia*, *Asclepias*, *Diosma*, *Campanula*, *Plumbago*, *Hyacinthus*, *Rhododendrum*, *Cheiranthus*, *Sinapis*, *Kiggelaria*, *Clutia*, *Aquilegia*, *Nigella*, *Aconitum*, *Parnassia*, *Epimedium*, *Theobroma*, *Reseda*, *Grewia*, *Helleborus*, *Isopyrum*, *Tropæolum*, and *Impatiens*.

* *Rivinus* in particular.

The *Stamina* and *Calyx*, being less subject to Luxuriancy, are far more certain than the *Petals*.

The *Corolla* varies as to its Figure in many Genera; as in *Vaccinium*, *Pyrola*, *Andromeda*, *Nicotiana*, *Menyanthes*, *Primula*, *Veronica*, *Gentiana*, *Hyacinthus*, *Scabiosa*, and *Narcissus*. It varies also as to Number, being in *Ranunculus*, Pentapetalous in some Species, and Polypetalous in others; in *Helleborus* also, Pentapetalous and Polypetalous; in *Statice*, Pentapetalous and Monopetalous; and in *Fumaria*, Dipetalous and Tetrapetalous: and the Number is also sometimes variable in the same Species; as is observed in *Carica*, and *Jatropha*.

The Structure of the *Pericarpium* was formerly thought to be of great Consequence in determining the Genera; but there are Examples without Number that demonstrate the contrary. There are a great many Genera that have been established on Distinctions in the *Pericarpium*, and that are now rejected; of these we shall give an ample List in Chap. 33.

The Characters of *luxuriant* Flowers, whether *Eunuchs* * or *Mutilate*, cannot be

* *Eunuchs* are such as have lost the *Stamina*, which is the Case of full Flowers. *Mutilate* are those that are incomplete, wanting the *Corolla* or *Perianthium*.

allowed any place in determining the Genera; for in full Flowers no Number of Petals can be assigned, and the Stamina are generally wanting, the Number of which makes a Part of the Generic Character; and in mutilate Flowers, as in some Species of *Campanula*, *Ipomoea*, and *Ruellia*, the Corolla would be excluded from the Description, contrary to the Nature of the other Species of the Genus. But as the Calyx * in full Flowers is scarce ever altered, it may detect the Genus; and the lowest Series of Petals in Polypetalous Corollæ remaining the same in respect to Number, the Genus may also be often known by that Character; as in *Papaver*, *Nigella*, and *Rosa*.

* Some Systematists have distributed the whole Body of Vegetables by the Differences of the *Calyx*; and in such Systems the full Flowers, as our Author observes, are more easily referred to their proper Genus than in his own, the Calyx not being subject to Luxuriancy: Instances of this are in *Hepatica*, *Ranunculus*, and *Alcea*.

CHAP.

C H A P. XXXI.

*Of the GENERA, rejected by the sexual System,
as not established on the Fructification.*

WE have observed, in Chap. 29. that the earlier Botanists had admitted many Genera, on Distinctions that were not grounded on the Parts of Fructification, but on the Habit of Plants, and on other Circumstances which are now considered as specific Distinctions only: Of these we shall here give an ample List. The Reader will here take Notice, that under the first Column are ranged the Genera that are abolished; and over against them, in the Second, the Genus to which they are severally to be referred *, with the specific Difference that had given Occasion to the false Distinction.

* The Names and the generic Arrangement of Vegetables having undergone many Alterations during the Progress of the Improvements made in the Science, the new Genera, to which these false ones are referred in this and the following Lists, do not all stand under the Titles given to them in the later Editions of the Works of *Linnaeus*. Where this happens, we shall explain it by a Note, chusing that Method rather than to alter the Lists themselves, which we have taken from the *Philosophia Botanica*.

OLD GENERA.

NEW GENERA.

<i>Limodorum</i>	<i>Orchis</i> , with a fibrose Root.
<i>Bistorta</i>	<i>Polygonum</i> , with a fleshy Root.
<i>Rapa</i>	<i>Brassica</i> , with a gibbose Root.
<i>Sifarum</i>	<i>Sium</i> , with a tuberosa Root.
<i>Hermodaethylus</i>	<i>Iris</i> , with a tuberosa Root.
<i>Sisyrrinchium</i>	{ <i>Iris</i> , with a double Bulb, one over the other.
<i>Xiphium</i>	<i>Iris</i> , with a tunicated Bulb.
<i>Lilio Fritillaria</i>	<i>Fritillaria</i> , with a squamose Bulb.
<i>Mesomora</i>	<i>Cornus</i> , with an herbaceous Stem.
<i>Anacamferos</i>	<i>Sedum</i> , with an erect Stem.
<i>Psyllium</i>	<i>Plantago</i> , with a branching Stem.
<i>Bellis Leucanthemum</i>	{ <i>Bellis</i> , with a leafy Stem.
<i>Pilosella</i>	<i>Hieracium</i> , with a naked Stem.
<i>Suber</i>	<i>Quercus</i> , with a fungous Bark.
<i>Larix</i>	<i>Abies</i> *, with fasciculate Leaves.
<i>Genistella</i>	<i>Genista</i> , with jointed Leaves.
<i>Potamopithys</i>	<i>Alfinastrum</i> †, with Leaves not starry.
<i>Lupinaster</i>	<i>Trifolium</i> , with digitate Leaves.
<i>Dracunculus</i>	<i>Arum</i> , with pedate Leaves.
<i>Trichomanes</i>	<i>Asplenium</i> , with pinnate Leaves.
<i>Clymenum</i>	<i>Lathyrus</i> , with pinnate Leaves.
<i>Muscoides</i>	{ <i>Jungermannia</i> , with Leaves many times imbricate.
<i>Lentiscus</i>	{ <i>Terebinthus</i> ‡, with no odd foliole to the Leaves.
<i>Faba</i>	<i>Vicia</i> , with Leaves that have no Cirrus.
<i>Cytisogenista</i>	<i>Spartium</i> , with Leaves simple and triple.
<i>Colocasia</i>	<i>Arum</i> , with Leaves not Ear-shaped.
<i>Cirsium</i>	<i>Carduus</i> , with Leaves without Thorns.
<i>Coronopus</i>	<i>Cochlearia</i> , with a pinnatifid Leaf.
<i>Coronopus</i>	<i>Plantago</i> , with dentate Leaves.
<i>Ilex</i>	<i>Quercus</i> , with denticulate Leaves.

* Now *Pinus*.† Now *Elatine*.‡ Now *Pistacia*.

OLD GENERA.

NEW GENERA.

<i>Scorzoneroïdes</i>	<i>Scorzonera</i> , with dentate Leaves.
<i>Anguria</i>	<i>Cucurbita</i> , with multifid Leaves.
<i>Alcea</i> *	<i>Malva</i> , with multifid Leaves.
<i>Millefolium</i>	<i>Ptarmica</i> , with Leaves minutely divided.
<i>Cicutaria</i>	<i>Ligusticum</i> , with a Cicuta Leaf.
<i>Cedrus</i>	<i>Juniperus</i> , with a Cypress Leaf.
<i>Ranunculoides</i>	<i>Ranunculus</i> , with capillary Leaves.
<i>Alhagi</i>	<i>Hedysarum</i> , with simple Leaves.
<i>Nissolia</i>	<i>Lathyrus</i> , with simple Leaves.
<i>Marsilea</i>	<i>Fungermannia</i> , with simple Leaves.
<i>Balsamita</i>	<i>Tanacetum</i> , with undivided Leaves.
<i>Cepa</i>	<i>Allium</i> , with fistulous Leaves.
<i>Aphaca</i>	{ <i>Lathyrus</i> , with no Leaves but Stipulæ only.
<i>Mimosa</i>	<i>Acacia</i> †, with sensitive Leaves.
<i>Oxyoides</i>	<i>Oxalis</i> , with sensitive winged Leaves.
<i>Aurantium</i>	<i>Citrus</i> , with cordate Petioles †.
<i>Calamintha</i>	<i>Melissa</i> , with branching Peduncles .
<i>Cotinus</i>	<i>Rhus</i> , with woolly Peduncles.
<i>Virga Sanguinea</i>	<i>Cornus</i> , with a naked-Cyme.
<i>Corona Imperialis</i>	{ <i>Fritillaria</i> , with a Head of Leaves on the Racemus.
<i>Stachas</i>	<i>Lavandula</i> , with Bractææ on the Spike.
<i>Carex</i>	<i>Cyperoides</i> §, with androgynous Spikes.
<i>Chamæpithys</i>	<i>Teucrium</i> , with sparfed Leaves.
<i>Acinos</i>	<i>Thymus</i> , with sparfed Leaves.
<i>Limonium</i>	<i>Statice</i> , with sparfed Leaves.

* *Alcea*, is still the Title of a Genus, though of a different one, being applied to the *Malva Rosea*, or *Hollyhock*.

† *Mimosa* is now the Title of the whole Genus, including the *Acacias*.

‡ Footstalks of the Leaves.

|| Footstalks of the Flowers.

§ *Carex* is now the Title of the Genus.

OLD GENERA.

NEW GENERA.

<i>Chomædrys</i>	<i>Teucrium</i> , with verticillate Leaves.
<i>Thymbra</i>	<i>Satureia</i> , with sparfed Leaves.
<i>Volubilis</i>	<i>Ipomoea</i> , with Flowers in Heads.
<i>Polium</i>	<i>Teucrium</i> , with cymose Flowers.
<i>Castanea</i>	<i>Fagus</i> , with Flowers in Spikes.
<i>Fagopyrum</i>	{ <i>Polygonum</i> , with spiked Flowers, and a fibrose Root.
<i>Majorana</i>	{ <i>Origanum</i> , with rounder Spikes of Flowers.
<i>Malus</i>	<i>Pyrus</i> , with a distinct Face.
<i>Cydonia</i>	<i>Pyrus</i> , with a distinct Face.
<i>Armeniaca</i>	<i>Prunus</i> , with a distinct Face.
<i>Cerasus</i>	<i>Prunus</i> , with a distinct Face.
<i>Lauro-Cerasus</i>	<i>Prunus</i> , with a distinct Face.
<i>Limon</i>	<i>Citrus</i> , with a distinct Face.
<i>Napus</i>	<i>Brassica</i> , with a distinct Face.
<i>Absinthium</i>	<i>Artemisia</i> , with the outward Face distinct.
<i>Abrotanum</i>	<i>Artemisia</i> , with the outward Face distinct.
<i>Bejlidiastrum</i>	<i>Doronicum</i> , with a distinct Habit.
<i>Euphorbia</i>	{ <i>Tithymalus</i> *, with the Habit not branch- ing.
<i>Usnea</i>	<i>Lichen</i> , with the Habit capillary.
<i>Coralloides</i>	<i>Lichen</i> , with the Habit caulescent.
<i>Clavaria</i>	{ <i>Coralloides</i> †, with the Habit not branch- ing.
<i>Tuber</i>	<i>Lycoperdon</i> , with a more solid Substance.
<i>Fungoides</i>	{ <i>Elvela</i> , with a Substance smooth on both Sides.
<i>Lycoperdoïdes</i>	<i>Lycoperdon</i> , with a cellular Substance.
<i>Amanita</i>	<i>Agaricus</i> , with the Pileus on a Stipes.
<i>Phallus</i>	{ <i>Boletus</i> , with a Volva at the Base of the Stipes.
<i>Phalloboletus</i>	{ <i>Boletus</i> , with a Pileus not closed in the Sides.
<i>Polyporus</i>	{ <i>Boletus</i> , with Pores not to be distin- guished.

* *Euphorbia* is now the Title of he Genus.

† Now *Clavaria*.

OLD GENERA.

NEW GENERA.

<i>Erinaceus</i>	<i>Ulex</i> , thick-set with Spines.
<i>Thysselinum</i>	<i>Selinum</i> , with a milky Juice.
<i>Moly</i>	<i>Allium</i> , with a sweet Scent.
<i>Acetosa</i>	<i>Lapathum</i> *, with an acid Taste.
<i>Colocynthis</i>	<i>Anguria</i> †, with a bitter Fruit.

* Now *Rumex*. † Now *Cucumis*.

C H A P. XXXII.

Of the GENERA rejected by the System, as grounded on the Variations of some Parts only of the Fructification.

IT has been observed, in Chap. 29. that there are few Genera, wherein all the Parts of Fructification are constant in every Species; and that this Inconstancy of particular Parts had been another Source of Error in former Botanists: We shall here give a List of these Mistakes referring the old Genera to the new Titles, in the same Manner as we did those in the List given in the preceding Chapter.

OLD GENERA.

NEW GENERA.

<i>Arisarum</i>	<i>Arum</i> , with a hooded Spatha.
<i>Asteriscus</i>	<i>Bupthalmum</i> , with a starry leafy Calyx.
<i>Silybum</i>	<i>Carduus</i> , with a thorny Calyx.
	M 4 <i>Moldavica</i>

OLD GENERA.	NEW GENERA.
<i>Moldavica</i>	{ <i>Dracocephalum</i> , with the Calyx gibbous and bilabiate.
<i>Tithymaloïdes</i>	{ <i>Euphorbia</i> , with the Calyx gibbous and irregular.
<i>Trionum</i>	<i>Hibiscus</i> , with an inflatè Calyx.
<i>Ficaria</i>	{ <i>Ranunculus</i> , with a triphyllous Calyx and polypetalous.
<i>Iva</i>	<i>Teucrium</i> , with a gibbous Calyx.
<i>Lunularia</i>	{ <i>Marchantia</i> , with the common Calyx quadrifid.
<i>Leucanthemum</i>	{ <i>Chrysanthemum</i> , with the Squamæ of the Calyx narrow.
<i>Cardiaca</i>	<i>Leonurus</i> *, with a quinquedentate Calyx.
<i>Paronychia</i>	{ <i>Herniaria</i> , with the Leaves of the Calyx hooded.
<i>Pseudo-Dictamnus</i>	{ <i>Merrubium</i> , with a Funnel-shaped Calyx.
<i>Anemone-Ranunculus</i>	{ <i>Anemonoides</i> †, with a pentapetalous Corolla.
<i>Linaria</i>	<i>Antirrhinum</i> , with a tailed Corolla.
<i>Valerianoïdes</i>	<i>Valeriana</i> , with a tailed Corolla.
<i>Bromelia</i>	<i>Ananas</i> ‡, with a tripetalous Corolla.
<i>Opuntia</i>	<i>Melocætus</i> with a polypetalous Corolla.
<i>Glacium</i>	<i>Chelidonium</i> , with a rosaceous Corolla.
<i>Polygonatum</i>	{ <i>Lil. Convallium</i> §, with a tubulose Corolla.

* The scarlet *Leonurus* of the Cape is removed to the Genus *Phlomis*, on account of its wanting the shining Points on the Antheræ; but the Title *Leonurus* is nevertheless applied to the *Cardiaca*.

† Now *Anemone*.

‡ *Bromelia* is now the Title of the Genus.

|| Now *Cætus*.

§ Now *Convallaria*,

Contaurium

OLD GENERA.

NEW GENERA.

<i>Centaurium minus</i>	<i>Gentiana</i> , with a funnel-shaped Corolla.
<i>Liliastrum</i>	{ <i>Hemerocallis</i> , with a hexapetalous Corolla.
<i>Borbonia</i>	<i>Laurus</i> , with a pentaphylloideous Calyx.
<i>Benjoe</i>	<i>Laurus</i> , with an octofid Corolla.
<i>Aricula Urſi</i>	{ <i>Primula</i> , with an hypoc crateriform Corolla.
<i>Triphylloides</i>	<i>Trifolium</i> , with a monopetalous Corolla.
<i>Oxycoccus</i>	<i>Vaccinium</i> , with a tetrapetalous Corolla.
<i>Bonarota</i>	<i>Veronica</i> , with a tubulose Corolla.
<i>Zannonia</i>	<i>Commelina</i> , with a tripetalous Corolla.
<i>Borraginoides</i>	{ <i>Borrago</i> , with an infundibuliform Corolla.
<i>Horminum</i>	{ <i>Salvia</i> , with a galeate Galea, and a concave Beard.
<i>Sclarea</i>	{ <i>Salvia</i> , with a falcate Galea, and a concave Beard.
<i>Phelypæa</i>	{ <i>Clandestina</i> *, with a Galea of the Corolla Bifid.
<i>Murucuja</i>	<i>Passiflora</i> , with an undivided Nectarium.
<i>Sherardia</i> †	<i>Verbena</i> , with two Stamina.
<i>Stellaris</i>	{ <i>Ornithogalum</i> , with Stamina that are not flat.
<i>Porrum</i>	<i>Allium</i> , with trifid Stamina.
<i>Dodonæa</i>	<i>Ilex</i> , with a trifid Flower.
<i>Hypocistis</i>	<i>Afarum</i> , with a quadrifid Flower.
<i>Radiola</i>	<i>Linum</i> , with a quadrifid Flower.
<i>Unifolium</i>	<i>Convallaria</i> , with a quadrifid Flower.
<i>Bernhardia</i>	<i>Croton</i> , with dioecious Flowers.
<i>Petasites</i>	<i>Tuffilago</i> , with fasciculate Flowers.
<i>Ananthocyclus</i>	<i>Cotula</i> , with floſculose Flowers.
<i>Ceratocephalus</i>	<i>Bidens</i> , with radiate Flowers.
<i>Doria</i>	<i>Solidago</i> , with few Florets in the Radius.
<i>Medium</i>	<i>Campanula</i> , with Fruit quinquelocular.

* Now *Lathræa*.

† The Title *Sherardia* is still in Use, but is applied to another Genus.

OLD GENERA.

NEW GENERA.

<i>Speculum Veneris</i>	<i>Campanula</i> , with filiquose Fruit.
<i>Cornucopioides</i>	<i>Valeriana</i> , with an irregular Flower.
<i>Limonioides</i>	<i>Statice</i> , with a monopetalous Flower.
<i>Viscaria</i>	<i>Silene</i> , with a quinquelocular Fruit.
<i>Tetragonolobus</i>	<i>Lotus</i> , with an angular Fruit.

C H A P. XXXIII.

Of the GENERA, rejected by the System, as grounded on a Difference in the Fruit only.

IT has been observed, in Chap. 30, that a great many Genera had been established on Account of Differences in the Pericarpium, but that they have since been abolished: Of these the following is a List; in which, as in the preceding Lists, it will appear where they are now ranged.

OLD GENERA.

NEW GENERA.

<i>Clandestina</i>	<i>Anblatum</i> *, with an elastic Fruit.
<i>Trollius</i> †	<i>Helleborus</i> , with a multicapsular Fruit.
<i>Sesamoides</i>	<i>Reseda</i> , with a multicapsular Fruit.
<i>Lycopersicon</i>	<i>Solanum</i> , with a multicapsular Fruit.
<i>Ascyrum</i> ‡	<i>Hypericum</i> , with a quinquecapsular Fruit.

* Now *Lathraea*.

† *Trollius* and *Helleborus* are parted again.

‡ The Title *Ascyrum* is still in Use for another Genus.

Dortmanna

OLD GENERA.

NEW GENERA.

<i>Dortmanna</i>	<i>Rapuntium</i> *, with a bilocular Fruit.
<i>Helianthemum</i>	<i>Cistus</i> , with an unilocular Fruit.
<i>Androsæmum</i>	<i>Hypericum</i> , with an unilocular Fruit.
<i>Pavia</i>	<i>Esculus</i> , with an unilocular Fruit.
<i>Asarina</i>	<i>Antirrhinum</i> , with multivalvular Fruit.
<i>Elatine</i>	{ <i>Antirrhinum</i> , with the Fruit bursting on the Side.
<i>Nelumbo</i>	{ <i>Nymphaea</i> , with the Fruit perforate at the top.
<i>Raphanistrum</i>	<i>Raphanus</i> , with articulate Fruit.
<i>Cakile</i>	<i>Bunias</i> , with articulate Fruit.
<i>Ulmaria</i>	<i>Filipendula</i> †, with twisted Fruit.
<i>Persica</i>	<i>Amygdalus</i> , with a succulent Fruit.
<i>Cassia</i>	<i>Senna</i> ‡, with a succulent Fruit.
<i>Inga</i>	<i>Acacia</i> §, with a succulent Fruit.
<i>Malvaviscus</i>	<i>Hibiscus</i> , with a succulent Fruit.
<i>Lobelia</i>	<i>Rapuntium</i> §, with a dupraceous Fruit.
<i>Pereeskia</i>	<i>Caëtus</i> , with a leafy Fruit.
<i>Sabina</i>	<i>Juniperus</i> , with a warted Fruit.
<i>Bihai</i>	<i>Musa</i> , with a trispermous Fruit.
<i>Alaternus</i>	<i>Rhamnus</i> , with a trispermous Fruit.
<i>Frangula</i>	<i>Rhamnus</i> , with a dispermous Fruit.
<i>Dracunculus</i>	<i>Hæmanthus</i> , with monospermous Fruit.
<i>Onobrychis</i>	<i>Hedysarum</i> , with monospermous Fruit.

* Now *Lobelia*.

† Now *Spiræa*.

‡ *Cassia* is now the Title of the Genus, which includes the *Cassia Fistula*, and many other Species; but the *Cassia Lignæa* of Sumatra, whose Bark so nearly resembles that of the *Cinnamomum*, is a *Laurus*, as is the *Cinnamomum* also; and the two Plants are by some supposed to be the same.

§ Now *Mimosa*.

§ *Lobelia* is now the Title of the Genus.

OLD GENERA.

NEW GENERA.

<i>Malvinda</i>	<i>Abutilon</i> *, with a Fruit not inflate,
<i>Cysticapnos</i>	<i>Fumaria</i> , with an inflate Fruit.
<i>Impatiens</i>	<i>Balsamina</i> †, with an attenuate Fruit.
<i>Guazuma</i>	<i>Cacao</i> ‡, with a reticulate Fruit.
<i>Paliurus</i>	<i>Rhamnus</i> , with a shield-shaped Fruit.
<i>Alisma</i>	{ <i>Damaſonium</i> , with a Fruit not cornicu- late.
<i>Securidaca</i> §	
<i>Melo</i>	<i>Coronilla</i> , with Faulchion-shaped Fruit.
<i>Melopepo</i>	<i>Cucumis</i> , with an ovate Fruit.
<i>Rapistrum</i>	<i>Cucurbita</i> , with a fulcate Fruit.
<i>Radicula</i>	<i>Crambe</i> , with a Fruit that does not open.
<i>Blattaria</i>	<i>Sisymbrium</i> , with a filiculose Fruit.
<i>Persea</i>	{ <i>Verbascum</i> , with a rounder Fruit.
<i>Cururi</i>	
<i>Bursa Paſtoris</i>	{ <i>Laurus</i> , with a Fruit that is berried on every Side.
<i>Nasturtium</i>	
<i>Valerianella</i>	{ <i>Seriana</i> ††, with a Fruit that bears Seeds at the Top.
<i>Anemonoides</i>	
<i>Eupatoriophalacrum</i>	{ <i>Thlaſpi</i> , with a Fruit that has no Mar- gin.
<i>Leontodontoides</i>	
<i>Atractylis</i> ††	{ <i>Lepidium</i> , with a Margin to the Fruit.
	<i>Valeriana</i> , with a Fruit not pappose.
	<i>Anemone</i> , with naked Seeds.
	{ <i>Verbesina</i> , with naked Seeds.
	<i>Hyoseris</i> , with Seeds almost naked.
	{ <i>Carthamus</i> , with an obsolete Crown to the Seeds,

* Now *Sida*.

† *Impatiens* is now the Title of the Genus.

‡ Now *Theobroma*.

|| *Alisma* is now the Title of the Genus.

§ *Securidaca* is still a Title, but of a different Genus.

†† Now *Paullinia*.

‡‡ *Atractylis* is still a Title, but applied to another Genus.

Carthamoides

OLD GENERA.

NEW GENERA.

<i>Carthamoides</i>	<i>Carthamus</i> , with pappose Seeds.
<i>Zazintia</i>	<i>Lapsana</i> , with pappose Seeds.
<i>Alypum</i>	<i>Globularia</i> , with pappose Seeds.
<i>Xeranthemoides</i>	<i>Xeranthemum</i> , with a feathered Pappus.
<i>Astercropterus</i>	<i>Aster</i> , with a feathered Pappus.
<i>Acarna</i>	<i>Cnicus</i> , with a feathered Pappus.
<i>Achyrophorus</i>	<i>Hypochoeris</i> with a feathered Pappus.
<i>Carlinoides</i>	<i>Carlina</i> , with an obsolete Pappus.
<i>Viticella</i>	<i>Clematis</i> , with tailed Seeds.
<i>Nymphoides</i>	} <i>Menyanthes</i> , with an Arillus to the Seed.
<i>Karatas</i>	
<i>Tragopogonoides</i>	<i>Tragopogon</i> , with bent Seeds.
<i>Tinus</i>	<i>Viburnum</i> , with Pear-shaped Seeds.
<i>Opulus</i>	<i>Viburnum</i> , with Heart-shaped Seeds.
<i>Persicaria</i>	<i>Polygonum</i> , with triangular Seeds.
<i>Emerus</i>	<i>Coronilla</i> , with cylindrical Seeds.
<i>Foeniculum</i>	<i>Anethum</i> , with thick Seeds.
<i>Lens</i>	<i>Cicer</i> , with Lens-shaped Seeds.
<i>Pepo</i>	<i>Cucurbita</i> , with Seeds not emarginate.
<i>Falcaria</i>	<i>Sium</i> , with slender Seeds.
<i>Cerinthoides</i>	<i>Cerinthe</i> , with four distinct Seeds.
<i>Blæria</i>	<i>Sherardia</i> , with echinate Seeds.

A N
I N T R O D U C T I O N
T O
B O T A N Y.

PART THE THIRD.

C H A P. I.

Of VEGETABLES, and their Parts.

VEGETABLES are dividible into the seven Families or Tribes following*, viz.

* This natural Division of Vegetables into several Tribes being given in the *Philosophia Botanica*, we were unwilling to omit it; but it is necessary to give the Reader a Caution, lest he confound it with the artificial or systematic Distribution of Plants explained in the second Part of this Work; the Division here given is drawn from a Consideration of the whole Vegetable; whereas the systematic or artificial Distribution into twenty-four Classes is grounded on the Fructification only.

I. FUNGI,

1. *FUNGI*, *Mushrooms*.
2. *ALGÆ*, *Flags*; whose Root, Leaf, and Stem are all one.
3. *MUSCI*, *Mosses*; whose Antheræ have no Filaments, and are placed at a Distance from the female Flower, and whose Seeds also want their proper Tunic and Cotyledons.
4. *FILICES*, *Ferns*; whose Fructification is on the Back of the *Fronde**.
5. *GRAMINA*, *Grasses* †; which have simple Leaves, a jointed Culm or Stem, a glumose Calyx, and a single Seed.
6. *PALMÆ*, *Palms*; which have simple Stems that are *Frondose* ‡ at the Summit, and have their Fructifications on a Spadix issuing from a Spatha.
7. *PLANTS*, which include all that do not enter into any of the other Divisions. These are,

Herbaceous, when they die down to the Root every Year; for in the perennial Kinds, the Buds are all produced on the Root below the Surface of the Ground.

* *Leaves* of the Ferns and Palms so called; see the Explanation of the Term *Frons*, in Chap. 4.

† This Tribe includes the various Sorts of Corn as well as the Grasses.

‡ See the Term *Frons*, explained in Chap. 4.

Shrubs, when their Stems come up *without* Buds*.

Trees, when their Stems come up *with* Buds.

Vegetables are each primarily divisible into, 1. The *Root*. 2. The *Herb* or Plant itself. 3. The *Fructification*. Of these the last has been already treated of in the first Book: The two others, upon which the specific Differences of Vegetables more immediately depend, come now under Consideration, and will be the Subject Matter of the ensuing Chapters †.

* Nature has put no Limits between a Tree and a Shrub, which is only a Vulgar Distinction. This *Linneus* acknowledges; and argues, that his own Distinction though he thinks it the best, is nevertheless exceptionable; inasmuch as there are seldom any Buds upon the large Trees in India; all which must therefore by this Definition, notwithstanding their great Height, be ranked with Shrubs.

† It may not be improper here to obviate an Objection that may be made to the Method pursued in this Work. It may be asked, if the Matter of this third Part would not have stood more properly in the first. In answer to this it is admitted, that the Order of Nature would thereby have been more directly followed: But the Design of this Work was not so much to follow the Order of Nature, as to explain the System of *Linneus*; and as the Classes, Orders, and Genera which come first in the System are grounded on the Fructification, the Beginning with that Part of the Vegetable was indispensably necessary.

C H A P II.

Of R O O T S.

THE ROOT (whose Office is to draw up Nourishment, and which also produces the Herb with its Fructification) consists of two Parts, viz. *Caudex*, the *Stock* or *Body* of the Root; and *Radicula*, the *Radicle* or little Root.

CAUDEX, the *Body* of the Root both ascends and descends.

The ascending *Caudex* raises itself gradually above Ground serving often as a *Trunk*, and produces the Herb or Plant*.

The descending *Caudex* strikes gradually downward into the Ground, and puts forth *Radicles*. It has been distinguished, according to its various Structure, into

Perpendicular, when it runs directly downwards.

Horizontal, when it extends itself transversely under the Earth.

* *Linnaeus* infers from hence, that all Trees and Shrubs are to be considered as Roots above Ground; and that this is the Reason that Trees, when inverted, put forth Leaves from the descending Stem, and Roots from the ascending.

Simple, when it has no Subdivisions.

Ramose, branching; when it is divided into lateral Branches.

Fusifform, Spindle-shaped; when it is oblong, thick and tapering, as in *Daucus* and *Pastinaca*.

Tuberosa, knobbed; when it consists of roundish Bodies collected into a Fascicle or Bunch; as in *Pæonia*, *Hemerocallis*, *Helianthus*, *Solanum* and *Filipendula*.

Repent, creeping; when it runs out to a Distance, and puts forth Radicles from Space to Space.

Fibrosa, when it consists only of fibrose Radicles.

Præmorsa, bitten off; when the lower Part is truncate, and the Termination not tapering; as in *Scabiosa*, *Plantago*, and *Valeriana*.

RADICULA, the *Radicle*, is the fibrose Part of the Root, which terminates the descending Caudex, and enables the Root to draw Nourishment for the Support of the Vegetable.

C H A P III.

Of the H E R B.

THE HERB is a Part of the Vegetable arising from the Root, and terminated by the Fructification. It comprehends,

1. The *TRUNK*, which serves to multiply the Herb, and leads immediately from the Root to the Fructification. It is cloathed with the Leaves, and terminated by the Fructification. See Chap. 4.

2. The *LEAVES*, whose Office is to transpire and attract, like the Lungs in Animals, and to afford Shade. See Chap. 5, 6, 7.

3. The *FULCRA, Props*; which serve as Stays to strengthen the Plant; but may however be taken off without destroying it. See Chap. 8.

4. The *HYBERNACULA, Winterings**; each of which is a Compendium of the Herb upon its Root before it begins to grow. See Chap. 9.

* These are the Bulbs and Buds.

C H A P. IV.

Of the TRUNK

TRUNCUS, the *Trunk*, is that which produces the Leaves and Fructification: It is of seven Kinds, viz. *Caulis*, *Culmus*, *Scapus*, *Pedunculus*, *Petiolus*, *Frons*, and *Stipes*.

1. *CAULIS*, a *Stem*, is the proper Trunk of the Herb, and serves to elevate the Leaves and Fructification: it is either *Simple* or *Compound*.

SIMPLE Stems are such as proceed in a continued Series towards their Summits: And these may be, *integri*, *entire*; or *ramose*, *branchy*.

Integri, *entire*; when they are most simple, having scarce any Branches. These may be, *Nudi*, *naked*; when they are destitute of Leaves; as in *Euphorbia*, *Caëtus*, *Stapelia*, *Ephedra*, and *Cuscuta*.

Foliate, *leafy*; when they are furnished with Leaves.

Flexuose, *bending* different Ways, when the Direction of the Stem changes at every Joint; as in *Ptelea*.

Volubiles, *twining*; when they ascend spirally

rally by the Branch of some other Plant: These wind either to the left, according to the Motion of the Sun (as it is commonly phrased), as in *Humulus*, *Helxine*, *Lonicera*, and *Tamus*; or to the right, contrary to the Sun's Motion; as in *Convolvulus*, *Basella*, *Phaseolus*, *Cynanche*, *Euphorbia*, and *Eupatorium*.

Reclinate, reclined; when they bend in an Arch towards the Earth.

Procumbent, lying upon the Ground; when their Direction is horizontal.

Repent, creeping; when by lying upon the Ground they put forth Roots at certain Intervals; as in *Hedera* and *Bignonia*.

*Sarmentose**; when they are Repent and Subnude †.

Parasitic ‡; when they grow not out of the Ground, but on some other Plant.

Teretes, round; when they are Cylindric.

Ancipites, double-edged; when they have two opposite Angles; and also *Digonus*, *Trigonus*, *Tetragonus*, *Pentagonus*, *Polygonus*, having *two, three, four, five, or many* Angles, which are all Species of Ancipites: also,

* From *Sarmentum*, a long Shoot, such as those of a Vine.

† Almost naked or bare of Leaves.

‡ Supporting themselves on others like Parasites.

Triquetrous, Three-square ; when they have three plane Sides : and,

Triangular, Quadrangular, Quinquangular, Multangular ; when they have *three, four, five, or many* Sides or Angles.

Sulcate, furrowed ; when they are cut in with broad and deep Grooves or Channels.

Striate, streaked ; when they are marked with very thin hollow Lines.

Glabri, smooth ; when they have a smooth Surface,

Villose, hairy or shaggy ; when there is a Down of soft Hairs upon them.

Scabrous, rough ; when they are covered with little projecting Points.

*Hispid** ; when they are covered with stiff Bristles.

Ramosae, branchy ; when they are furnished with lateral Branches : And these are,

Ascending ; when the Branches incline upwards.

Diffuse ; when the Branches are spreading.

Distich, in two Rows ; when the Branches are produced in a horizontal Situation.

Brachiate, having Arms ; when the

* The Word expresses a greater Degree of Roughness.

Branches are opposite, and each Pair is crossed by the Pair next above or below it.

Ramosissimi, very branchy; when the Branches are many, and without Order.

Fulcrate, propt; when the Branches descend to the Root; as in *Ficus*.

Proliferous; when they send forth Branches only from the Centre of the Apex; as in *Pinus*.

The rest as in *entire* Stems.

COMPOUND Stems, are such as are subdivided into Ramuli, small Branches, and diminish as they ascend. These are either,

Dichotomus, forked; when the Division is always in two Parts.

Subdivided; when they are divided into Branches irregularly or without Order: or,

Articulate, jointed; when they are distinguished from Space to Space by Knots or Joints; as in *Piper*.

2. *CULMUS*, a *Straw*, is the proper Stem or Trunk of a Grass, and serves to elevate and support both the Leaves and the Fructification: It admits of most of the Distinctions already given for a *Caulis* or Stem; besides which it may be either,

Enodis, without Knots; when it is continuous, and not intercepted by Joints.

Articulate, jointed; when it is connected by various Joints.

Squamose, scaly; when it is covered with imbricate Scales.

3. *SCAPUS*, a *Stalk*, is an *universal* Trunk, raising the Fructification but not the Leaves; as in *Narcissus*, *Pyrola*, *Convallaria*, and *Hyacinthus*.

4. A *PEDUNCLE*, or *Footstalk* of a *Flower*, is a *partial* Trunk; raising the Fructification but not the Leaves.

Pedicellus, is a *partial Peduncle*.

The Determination of Peduncles respects *Place* and *Manner*.

Determination in respect to *Place*, shews where the Base of the Peduncle is inserted into the Plant: And in this respect Peduncles are,

Radical, belonging to the *Root*; when they come out immediately from the Root.

Cauline, belonging to the *Stem*; when they are placed on the Stem.

Rameous, belonging to the *Branches*; when they come out upon the Branches.

*Axillary**, coming out from the Wings; that is, either between the Leaf and the Stem, or between the Branch and the Stem.

* From *Axilla*, an Arm-pit.

Terminal, when they *terminate* the Branches or Stem.

Solitary, when there comes out but *one* from the same Place.

Sparsed, scattered; when they are numerous, and come out without Order.

Determination in respect to *Manner*, shews how the Flowers are born and connected on the Summits of the Peduncles: And in this Respect Peduncles have the following Variations.

Uniflorous, Biflorous, Triflorous, or Multiflorous Peduncles, are such as bear *one, two, three, or many* Flowers, according to the Number of the Fructifications on a single Peduncle.

Fasciculus, a Bunch, is a Collection of Flowers that are erect, parallel, forming a flat or even Surface, and close to one another; as in *Dianthus barbatus* †.

Capitulum, a little Head, is composed of a Number of Flowers collected almost into a globular Form; as in *Gomphraena*.

Spica, a Spike, has sessile Flowers that are alternate and dispersed about a common Peduncle that is simple. It is called *Spica secunda, a single-rowed Spike*, when the Flowers

† Sweet William.

are all turned *one* Way: And *Spica disticha*, a *double-rowed Spike*, when the Flowers stand *two* Ways.

A *Corymbus**, is a Kind of Spike, the Flowers of which have each its proper *Pedicellus* †, or *Partial Footstalk*, raised to a proportionable Height; as in *Spiræa opulifolia*, and *Ledum*.

A *Panicle*, is a Fructification dispersed on Peduncles variously subdivided. It is a *Diffuse* Panicle, when the Pedicelli are *divaricate*, *spreading asunder*; and a *Coarctate* or *confined* one, when they stand close to each other.

A *Thrysus*, is a Panicle contracted into an ovate Form; as in *Syringa*, and *Petasites*.

A *Racemus* ‡ consists of a Peduncle that has short lateral Branches; as in *Vitis* and *Ribes*.

Verticillus, a *Whorl*, expresses a Number

* *Corymbus*, in its ancient and proper Signification, meant a Bunch of Ivy Berries: but is now used as a botanical Term, for all Fructifications that are produced in the same Manner.

† In the *Philosophia Botanica*, it is not *Pedicellus*, but *Petiolus*; which seems to be a Mistake, this Term being applied to Leaves only.

‡ *Racemus*, anciently signified a Bunch of Grapes.

of Flowers that are subseffile *, and are produced in Rings round the Stems.

5. A *PETIOLE*, or *Footstalk of a Leaf*, is a Species of Trunk that fastens the Leaves, but not the Fructification; which Circumstance distinguishes it from a Peduncle, which is the Footstalk of a Flower, as has been explained above. There are some Cases where the Fructification and Leaves are born on the same Footstalks: as in *Turnera* and *Hibiscus*; but these Instances are very rare.

FRONS †, is a Species of Trunk composed of a Branch and Leaf blended together; and is frequently united with the Fructification; it belongs properly to the *Palms* and *Filices*.

7. *STIPES* ‡, is used to express the Base or Trunk of a *Frons*, and is applied only to the *Palms*, *Filices*, and *Fungi*.

* With no Foot-stalks, or with very short ones.

† There is no Expression answerable to this Term in our Language. See the Note at Page 67.

‡ The Word in its proper Signification means a Trunk or Stock of any Plant. But the Sense in which the Term is received in Botany is as here explained: It is used also to express the Thread or fine Trunk that supports the Pappus in downy Seeds. See Part I. Chap. 7.

C H A P. V.

Of SIMPLE Leaves.

LEAVES are to be considered in three Respects, viz. 1. as *Simple*. 2. *Compound*. 3. *Determinate*. We shall in this Chapter treat only of the *Simple*.

SIMPLE Leaves are such as have only a single Leaf on a Petiole. They differ in respect to *Circumscription*, *Angles*, *Sinus*, *Apices*, *Margin*, *Superficies*, and *Substance*.

CIRCUMSCRIPTION considers the Form of the Circumference of Leaves where there are no Angles or Sinuations : In which respect Leaves are,

Orbiculate, round ; when the longitudinal and transverse Diameters are equal, and the Circumference circular.

Subrotund, roundish ; when the Figure is nearly orbiculate.

Ovate, Egg-shaped ; when the longitudinal Diameter exceeds the transverse ; and the Base is circumscribed with the Segment of a Circle, but the Apex is narrower.

Oval, or Eliptic ; when the longitudinal Diameter exceeds the transverse, and the Circum-

Circumscription of both upper and lower Extremity is narrower than the Segment of a Circle.

Parabolic, in the Form of a *Parabola**; when the longitudinal Diameter exceeds the transverse, and the Figure contracting from the Base upwards becomes *Semiovate*, *half-Egg-shaped*.

Spatulate, resembling a *Spatula*†; when the Figure is roundish, but lengthened out by the Addition of a linear Base that is narrower.

Cuneiform, *Wedge-shaped*; when the longitudinal Diameter exceeds the transverse, and the Figure gradually contracts downwards.

Oblong, when the longitudinal Diameter is twice, thrice, &c. the Length of the transverse, and the Circumscription of each of the Extremities is narrower than the Segment of a Circle.

ANGLES are the prominent Parts of an horizontal Leaf. In respect to these, a Leaf is,

Lanceolate, *Spear-shaped*; when the Figure is oblong, narrowing gradually at each End towards the Extremity.

* A geometric Curve so called.

† A Surgeon's Instrument so called.

Linear; when it is every where of the same Breadth, though sometimes narrowing at the Extremities only.

Acerose, chaffy; when it is linear and persisting; as in *Pinus, Abies, Juniperus* and *Taxus*.

Subulate, Awl-shaped; when it is linear below, but gradually contracting towards the Top.

Triangular, three-cornered; when the Disk is surrounded by three prominent Angles.

Quadrangular, Quinquangular, &c. four-cornered, five cornered, &c. when four or five prominent Angles lie round the Disk.

*Deltoid, shaped like a Delta**; when the Figure is Rhombus; that is, having four Angles, of which the two lateral ones are less distant from the Centre than those at the Extremities.

Rotund, round; when it has no Angles.

SINUS, a Hollow, is a Term used to express those Openings or Cavities in Leaves which distinguish them into Parts: In respect to these, Leaves are said to be,

Reniform, kidney-shaped; when they are

* A Greek Letter so called. The Figure of the *Delta* is a Triangle, which does not exactly answer to the Character here given of a *Deltoid* Leaf.

roundish, and hollowed at the Base, without any Angles.

Cordiform, Heart-shaped; when they are ovate, and hollowed at the Base, and the hinder or lower Part has no Angles.

Lunulate, Moon-shaped; when they are round, and hollowed at the Base, and the lower Part has no Angles.

Sagittate, Arrow-shaped; when they are triangular, hollowed at the Base, and are furnished with Angles at the lower Part.

Hastate, Javelin-shaped; when they are triangular, the Base and Sides hollowed, and the Angles spreading.

*Panduræform, Pandure-shaped**; when they are oblong, broader above than below, and contracted in the Sides.

Fissa, cloven; when they are divided by linear Sinusses, and have their Margins straight; and from the Number of such Divisions they are called *Bifid, Trifid, Quadrifid, Multifid, &c.* cut into *two, three, four, five,* or *many* Segments.

* A musical Instrument of the Lute kind, but now disused: The Shape of it, as given by *Marsenus, Harm. Instr.* l. 1. does not answer to that of the Leaves here explained; the Figure of which comes nearer to that of the Body of a Violoncello or Violin.

Lobate,

Lobate, lobed; when they are divided to the Middle into Parts that stand wide from each other, and have their Margins convex; and from the Number of these they are called *Bilobe, Trilobe, Quadrilobe, or Quinquelobe*; consisting of *two, three, four, or five* Lobes.

Palmate, banded; when they are cut longitudinally into many Parts nearly equal; the Divisions extending themselves downward, almost to the Base where the Segments cohere.

Pinnatifid, cut into Wings; when they are divided transversely into *Laciniaë* that are oblong and horizontal.

Lyrate, Lyre-shaped; when they are divided transversely into *Laciniaë*, of which the upper ones are larger, and the lower ones farther asunder.

Laciniate, jagged; when they are variously divided into Parts, and those Parts in like Manner indeterminately subdivided.

Sinuate, hollowed; when they have broad and spreading Openings in the Sides.

Partite, divided; when they are separated down to the Base; and from the Number of the Divisions they are *Bipartite, Tripartite, Quadripartite, Quinquupartite, or Multipartite,*

tipartite; divided into *two, three, four, five,* or *many* Parts.

Integra, entire; when they are without Divisions, and have no Sinus or Opening. This stands opposed to all the Kinds of divided Leaves before described.

APEX, Tip, is the Extremity in which the Leaf terminates. Leaves, in respect to their Apices, are called,

Truncate, lopped; when they end in a transverse Line.

Præmorse, bitten in the Fore-part: when they are very obtuse, and are terminated by unequal Notches or Incisions.

Retuse, blunted; when they terminate in an obtuse Sinus

Emarginate, nicked; when they terminate in a Notch.

Obtuse, blunt; when they terminate as it were within a Segment of a Circle.

Acute, sharp; when they terminate in an acute Angle.

Acuminate, pointed; when they terminate in a subulate Apex.

Cirrbose, claspered; when they terminate in a Clasper or Tendril, as in *Gloriosa, Flagellaria*, and *Nissolia*.

The *MARGIN* of a Leaf is the outermost Boundary of its Sides, exclusive of its

Disk. Leaves, in respect to their Margin are,

Spinose, Thorny, or prickly; when the Margin of the Leaf runs into Points that are hard, stiff and pungent.

Inerm, unarmed or smooth: which is opposed to Spinose.

Dentate, toothed or indented; when the Margin ends in horizontal Points, that are of the Consistence of the Leaf, and are separated by intermediate Spaces.

Serrate, sawed; when the Margin is cut into sharp imbricate Angles, that point towards the Extremity of the Leaf: If they point towards the Base, the Leaf is said to be *retrorsum serrate, sawed backwards*.

Duplicato-serrate, doubly sawed; when there is a twofold Serrature, the less upon the greater.

Crenate, notched; when the Margin is cut into Angles, that point towards neither of the Extremities: And these are obtusely crenate, when the Angles are rounded: or acutely crenate, when the Angles are pointed.

Duplicato-crenate, doubly notched; when the Notches are two-fold, the less upon the greater.

Repand, bending back again; when the Margin

Margin is terminated with Angles, and interjacent Sinusses, that are both inscribed with the Segments of Circles*.

Cartilagineous, gristly; when the Edge of the Leaf is strengthened by a tough Border, the Substance of which differs from that of the Leaf.

Ciliate, lashed, or fringed; when the Margin is furrounded on all Sides with parallel Bristles.

Lacera, rent or ragged; when they are variously cut on the Margin into unlike Segments.

Erofe, gnawed; when the Leaf is sinuate, and has other very small obtuse Sinusses or Hollows on its Margin.

Integerrima, very entire; when the outermost Margin is entire and quite free from Notches.

SUPERFICIES, Surface, is the Outside, or what covers the Disk of the Leaf, and respects both the supine † Disk or Face of the Leaf, and prone Disk or Back of it. Leaves, in respect to their Surface, are,

* A Serpentine Edge.

† Supine is what lies on its Back, or Face upwards; and prone, the contrary: These Terms are therefore well applied to the upper and under Disk or Face of a Leaf.

Viscid, Clammy; when they are smeared over with a Juice that is not fluid but tenacious, sticky.

Tomentose, downy; when they are covered with a Nap of interwoven Hairs, scarce perceptible, that gives them a Whiteness.

Lanate, Woolly; when they are covered as it were with a Spider's Web; as in *Salvia* and *Sideritis*.

Pilose, hairy; when their Surface is covered with distinct Hairs that rise to some Length.

Hirsute, rough with Hair; when they are hairy in a greater Degree.

Villose, shaggy; when they are covered with a coarser Hair or Shag.

Hispid, rough; when the Disk is covered with a stiffish Sort of Bristles that are frangible.

Scabrous, rugged; when the Disk is covered with Tubercles, little Knobs.

Aculeate, prickly; when the Disk is beset with Points that are sharp and stiff.

Striate, Streaked; when the Surface is cut in, or scored longitudinally with parallel Lines.

Pappillose, nippy; when it is covered with *Vesicles, little Bladders*.

Punctate,

Punctate, dotted; when it is besprinkled with hollow Points or Dots.

Nitid, bright; when the smoothness of the Leaves causes them to shine.

Plicate, plaited; when the Disk of the Leaf rises and falls in Angles towards the Margin; as in *Alchemilla*.

Undulate, waved; when the Disk of the Leaf rises and falls in Convexities towards the Margin.

Crisp, curled; when the Circumference of the Leaf becomes larger than the Disk admits of, and is hereby forced to undulate. All curled Leaves are Monsters.

Rugose, wrinkled; when the Veins of the Leaves contract into a narrower Compass than the Disk, so that the Substance between them is obliged to rise; as in *Salvia*.

Concave, hollow; when the Margin of the Leaf contracts, and becomes less than the Circumscription of the Disk, by which Means the Disk is depressed.

Venose, veiny; when the Vessels are branched all over the Leaves, and their Anastomose* or Joinings are plain to the naked Eye.

* A Term in Anatomy, expressing the Mouths or Orifices of Veins and Arteries; or in other Words, the Part where they unite, and the Blood is discharged from the one into the other.

Nervose; when they have simple unbranched Vessels, that extend themselves from the Base to the Apex.

Colored; when they change their Green for some other Colour; as in *Amaranthus tricolor* †.

Glabra, smooth; when the Surface is void of all Inequality.

The *SUBSTANCE* of a Leaf respects the Conditions of its Sides: In this respect Leaves are,

Teretes ‡, round like a Pillar; when they are for the most Part cylindric.

Semicylindric, like a halved Cylinder; when they are round on one Side, and flat on the other.

Tubulose, like a Tube or Pipe; when upon cutting them they appear to be hollow within.

Carnose, fleshy or succulent; when they are filled with a Pulp

Compressed, flatted; when they are so com-

† Three-coloured.

‡ Round one Way and long the other: Our Language has no distinct Term to express Roundness in this Sense; the Figure is by Mathematicians called a Cylinder, from a *Greek* Word signifying to roll; a Body of this Figure being the best adapted to that Sort of Motion.

pressed by their opposite marginal Sides, that the Substance of the Leaf becomes greater than the Disk.

Plane, level; when they have both Surfaces every where parallel.

Gibbous, bunched; when by the Plenty of Pulp both the Surfaces are rendered convex.

Convex, rounding; when the Disk rises higher than the Sides.

Deprest, pressed down; when the Sides rise higher than the Disk.

Canaliculate, channelled; when a deep Furrow runs along it, and sinks it almost to a half Cylinder.

Ancipites, double-faced; when the Disk is convex, and there are two prominent longitudinal Angles.

Ensiform, Sword-shaped; when they are Ancipites, and grow narrower from the Base to the Apex.

Acinaciform, Faulchion or Scimitar-shaped; when they are fleshy and compressed, with one Edge convex and narrow, and the other straighter and broader.

Dolabriform, Hatchet-shaped; when their Figure is roundish, compressed and obtuse; gibbous outwardly with a sharp Edge, and taper towards the lower Part.

Lingueform, Tongue-shaped; when they are
O 4 linear,

linear, fleshy, obtuse, convex underneath, and often with a cartilaginous Margin.

Triquetrous, three-corned; when they are subulate, and have three flat longitudinal Sides.

Sulcate, furrowed; when they are scored longitudinally with numerous Angles or Ridges, and as many Hollows or Channels betwixt them.

Carinate, keeled; when the prone Part of the Disk is prominent longitudinally.

Membranaceous; when they have no perceptible Pulp between the two Surfaces.

C H A P VI.

Of COMPOUND Leaves.

A Leaf is said to be Compound, when there are more than one upon a Petiole or Footstalk.

COMPOUND Leaves are to be considered in respect to *Structure* and *Degree*.

By the *STRUCTURE* of a compound Leaf is to be understood the Insertion of the Folioles, or lesser Leaves, of which it is compounded; and in this respect Leaves are called,

Compound;

Compound; when a single Petiole furnishes more than one Leaf.

Articulate, jointed; when one Leaf grows out at the Top of another.

Digitate, fingered; when the Apex of a single Petiole connects many Folioles: And they are termed *Binate, Ternate, or Quinate*, growing *two, three, or five* together, according to the Number of Folioles, of which the digitate Leaf consists.

Pinnate, winged; when the Sides of a single Petiole connect many Folioles.

Pinnate with an odd one; when it is terminated by an odd Foliole.

A *Cirrhone* Pinnate Leaf; when it terminates in a Cirrhus or Clasper.

An *Abrupt* Pinnate Leaf; when it is terminated neither by a Foliole nor Cirrhus.

Oppositely Pinnate; when the Folioles stand opposite to each other.

Alternately Pinnate; when the Folioles are produced alternately.

Interruptedly Pinnate; when the Folioles are alternately less.

Articulately Pinnate; when the Petiole common to all the Folioles is articulate, jointed.

Decursively Pinnate; when the Folioles are decurrent,

decurrent, running down; that is, extend themselves downwards along the Petiole.

Conjugate; when the Pinnate Leaf consists of two Foliolles only.

DEGREE, in a compound Leaf, respects the Subdivision of the common Petiole. In respect to which, Leaves, are,

Decompound; when a Petiole once divided connects many Foliolles.

Bigeminate; when a dichotomus* Petiole connects four Foliolles on its Apices.

Biternate, or *Duplicato-Ternate*; when there are three Foliolles on a Petiole, and each Foliolle is Ternate; as in *Epimedium*.

Bipinnate, or *Duplicato-Pinnate*; when the Foliolles of a pinnate Leaf are pinnate.

Pedate, *foot-shaped* or Branching; when a bifid Petiole connects many Foliolles on its Inside only; as in *Passiflora* and *Arum*.

Supra-decompound; when many Foliolles are born on a Petiole, that has been any Number of Times subdivided.

Triternate, or *Triplicato-Ternate*; when a Petiole bears three Foliolles that are each of them ternate.

Tripinnate, or *Triplicato-Pinnate*; when a Petiole bears many Foliolles, each of which are Bipinnate.

* Forked or halved, and each Division forked again.

C H A P. VII.

Of DETERMINATE Leaves.

BY the DETERMINATION of Leaves is to be understood their Character, expressed from some Circumstance foreign to their own particular Structure or Configuration; as from their *Place, Situation, Insertion, or Direction.*

By the *PLACE* of a Leaf is meant the Part where it is fastened to the Plant. In respect to which, Leaves are called,

Seminal, Seed Leaves; which before were the Cotyledons, and are the first which appear.

Radical, Root Leaves; such as proceed from the Root.

Cauline, Stem Leaves; such as grow on the Stem.

Rameous, Branch Leaves; such as grow on the Branches.

*Axillary**, such as are placed at the coming out of the Branches.

Floral, Flower Leaves; such as are placed at the coming out of the Flower.

* From *Axilla*, an *Armpit*,

By *SITUATION* is meant the Disposition of the Leaves on the Stem of the Plant. In respect to which, Leaves are called.

Steliate, starry; or verticillate, whorled; when the Stalk is furrounded in Whorles by more than two Leaves: And these again receive the Denomination of *Tern, Quatern, Quine, Sene, &c.* according to the Number of Leaves of which the Star or Whorl is composed; as in *Nerium, Brabejum* and *Hippuris*.

Opposite; when the Cauline Leaves come out in Pairs facing each other, and each Pair is crossed by the next, so that they point four different Ways.

Alternate; when they come out singly; and follow in a gradual Order.

Sparsed, scattered; when they come out in Plenty about the Plant without Order.

Confert, crowded; when they come out in Quantities, so as almost to cover the Branches, and leave hardly any Space between them.

Imbricate; when they are confert and erect, so as to lie over one another, each covering a Part of the following one.

Fasciculate, bundled; when many come out from the same Point; as in *Larix*.

Distich, in two Rows; when the Leaves
all

all respect two Sides of the Branches only ;
as in *Abies* and *Diervilla*.

In respect to their *INSERTION* (which
is usually at the Base) Leaves are called,

Peltate, Shield-fashioned; when the Petiole
is inserted into the Disk of the Leaf, and
not into its Base or Margin; as in *Nymphæa*,
Hernandria and *Colocasia*.

Petiolate; when there is a Petiole fastened
to the Leaf at the Margin of the Base.

Sessile, squat; when the Leaf has no Petiole,
but is fastened immediately to the Stem.

Decurrent, running down; when the Base
of a sessile Leaf extends itself downwards
along the Stem beyond the proper Base or
Termination of the Leaf; as in *Verbesina*,
Carduus, and *Sphæranthus*.

Amplexicaul, embracing the Stalk; when the
Base of the Leaf embraces the Sides of the
Stem crosswise on both Sides; or *Semiam-
plexicaul, half embracing the Stalk*; which
only differs from *Amplexicaul*, in that it is in
a less Degree.

Perfoliate; when the Base of the Leaf is
continued across the Stem till it meets again,
so as to embrace it all around; as in *Bupleu-
rum*.

Connate, growing together; when two op-
posite

posite Leaves join, and are united in one ; as in *Lonicera* and *Eupatorium*.

Vaginant, forming a *Vagina* or Sheath ; when the Base of the Leaf forms a cylindric Tube that invests the Branch.

In respect to their *DIRECTION*, Leaves are called,

Adverse ; when their Sides are not turned towards Heaven, but towards the South ; as in *Amomum*.

Oblique ; when the Base of the Leaf looks towards Heaven, and the Apex or Tip towards the Horizon ; as in *Protea* and *Fritillaria*.

Inflex, *bending inwards* ; when the Leaf is bowed upwards towards the Stem.

Adpress ; when the Disk of the Leaf lies close to the Stem.

Erect, *upright* ; when the Angle they form with the Stem is extremely small.

Patent, *spreading* ; when they make an acute Angle with the Stem.

Horizontal ; when they stand at right Angles with the Stem.

Reclined, or, as some term it, *Reflex* ; when they are bowed downwards, so that the Apex or Tip is lower than the Base.

Revolute, *rowled back* ; when they are rowled downwards.

Dependent,

Dependent, hanging down; when they point directly to the Ground.

Radicant, rooting; when the Leaves strike Root.

Natant, floating; when they lie on the Surface of the Water; as in *Nymphaea* and *Potamogeton*.

Demerse, sunk; when they are hid beneath the Surface of the Water.

C H A P. VIII.

Of the FULCRA of Plants.

FULCRUM, a *Prop*, is a Term used to express those small Parts of Plants, of which the chief Use is to strengthen and support them.

Fulcra are of seven Kinds, viz. *Stipula*, *Bractæa*, *Spina*, *Aculeus*, *Cirrhus*, *Glandula*, and *Pilus*; all which we shall explain in their Order.

STIPULA, is a Scale or small Leaf, stationed on each Side the Base of the Petioles or Peduncles when they are first appearing; as in *papilionaceous* Flowers; and also in *Tamarindus*, *Cassia*, *Rosa*, *Melianthus*,
Lirio-

Liriodendron, Armeniaca, Persica, Padus, and others.

BRACTEA, a *floral Leaf*, is so called when it differs in Shape and Colour from the rest; as in *Tilia, Fumaria bulbosa, Stoechas,* and *Horminum*.

SPINA, a *Thorn*, is a kind of sharp Weapon or Armature, protruded from the Wood of the Plant; as in *Prunus, Rhamnus, Hippophaë, Celastrus* and *Lycium*: It will often disappear by Culture; as in *Pyrus*.

ACULEUS, a *Prickle*, is the same Sort of Armature, proceeding from the Cortex of the Plant only; as in *Rosa, Rubus, Ribes,* and *Berberis*.

CIRRHUS, a *Clasper* or *Tendril*, is a filiform spiral Band, by which a Plant fastens itself to any other Body; as in *Vitis, Bannisteria, Cardiospermum, Pisum,* and *Bignonia*.

GLANDULA, a *little Gland*, is a kind of Pap or Teat, serving for the Excretion of some Humour: Its Situation is commonly on the Petioles, the Serratures of the Leaves, or the tender Stipulæ.

PILUS, a *Hair*; is a sort of Bristle, serving as an excretory Duct to the Plants.

C H A P. IX.

Of the HYBERNACULA *of Plants.*

THE HYBERNACULUM, *Winter-lodge*, is that Part of a Plant which incloses and protects the Embryo or future Shoot from external Injuries. It is of two Kinds, viz. *Bulbus*, a *Bulb*; and *Gemma*, a *Bud*.

A *BULB*, is an *Hybernacle*, placed on the descending Caudex: It is of various Kinds, viz. a *squamose* Bulb, when it consists of *imbricate Lamellæ**: as in *Lilium*; a *solid* Bulb, when it consists of a *solid* Substance; as in *Tulipa*: a *tunicate* Bulb, when it consists of many *Tunics* or Coats; as in *Cepa*: and an *articulate* or jointed Bulb, when it consists of *Lamellæ* that are linked together; as in *Lathræa*, *Martinia*, and *Adoxa*.

GEMMA, a *Bud*, is an *Hybernacle* placed on the ascending Caudex: It consists either of *Stipulæ*, of *Petioles*, of the *Rudiments* of Leaves, or of *cortical squamæ* †.

* Thin Plates or Scales.

† Scales of the Bark.

Buds are of various Kinds. In the Generality of Plants, they are *Follifero, floriferous*, producing both Leaves and Flowers; but in *Alnus* they bear Leaves only; in *Populus, Fraxinus*, and some Species of *Salix*, they bear *Leaves and Flowers* distinctly; in *Corylus* and *Carpinus*, Leaves and *female* Flowers; in *Pinus* and *Abies*, Leaves and *male* Flowers; and in *Daphne, Ulmus, Cornus*, and *Amygdalus*, Leaves and *hermaphrodite* Flowers. In *Dentaria, Ornithogalum, Liliium*, and *Saxifraga*, the Buds are *deciduous*.

In several Plants there are *no* Buds; as in *Philadelphus, Frangula, Alaternus, Paliurus, Jatropha, Hibiscus, Bahobab, Justicia, Cassia, Mimosa, Gleditsia, Erythrina, Anagyris, Medicago, Nerium, Viburnum, Rhus, Tamarix, Hedera, Erica, Malpighia, Lavatera, Solanum, Asclepias, Ruta, Geranium, Petiveria, Pereskia, Cupressus, Thuya*, and *Sabina*.

In cold Countries there are but few Plants without Buds; and in hot Countries but few that have any.

C H A P. X.

Of the HABIT of Plants.

BY the HABIT, or external Face of Plants, is to be understood a certain Conformity between Vegetables that belong to the same Genus, or are *near of Kin* to each other*. This Conformity may be in respect to various Circumstances; as *Placenta-tion, Radication, Ramification, Intorsion, Gem-*

* This Definition of the Habit of Plants, which we have taken from the *Philosophia Botanica*, seems to agree better with the old State of Botany, when Plants were actually ranged according to their external Face, than with the modern System that ranges them by the Fructification: For Plants that by the System are neither of the same Genus, nor have any systematic Affinity, will often have a great Conformity in their Habit; whilst those of the same Genus shall have their Habits distinct. The Habits of Plants was the Invention of the earlier Botanists, who knew no better Rule for the Distribution of Vegetables: And indeed *Linnaeus* himself is induced to admit, that it is often a good Guide; and that *Cas-per Baubine*, and others, had in many Cases discovered the Affinity of Plants by the Habit, when Systematists had failed in attempting the same by their artificial Rules; nor does he think even the Fructification, which is the Invention of the Moderns, sufficient for detecting all the Classes of Vegetables, though he considers it as the primary Guide to the natural Method so much sought after by those who have cultivated this Science.

mation, Foliation, Stipulation, Pubescence, Glandulation, Lactescence, Inflorescence, &c. As each of the Terms here enumerated will furnish us with a separate Chapter, we shall forbear the Explanation of them here.

C H A P. XI.

Of P L A C E N T A T I O N.

BY PLACENTATION* is meant the Disposition of the *Cotyledons* at the Time when the Seed is beginning to grow. Plants, in respect to *Placentation*, are termed,

1. *ACOTYLEDONES*, without *Cotyledons*, when this Part is wanting; as in *Mosses*.

2. *MONOCOTYLEDONES*, with a *single Cotyledon* †; and these are either,

Perforate; as in *Grasses*.

Unilateral; as in *Palms*; or,

Reduced; as in *Cepa*.

* The *Cotyledons* of the Seed in Vegetables answer the Purpose of the *Placenta* in the Animal Oeconomy; and hence the Disposition of the *Cotyledons* is called *Placentation*.

† *Linnaeus* observes, that the *Monocotyledones* are properly *Acotyledones*; the *Cotyledons* remaining within the Seed.

3. *DICOTYLEDONES*, having *two Cotyledons*; and these are either,

Immutate, unchanged; as in the Class *Didynamia*; and in Plants whose *Pericarpium* is a *Legumen, Pomum, or Drupa* †.

Plicate, folded; as in *Gossypium*.

Duplicate, doubled; as in *Malva*; and in the Class *Tetradynamia*.

Obvolute, rowled up; as in *Helxine*.

Spiral, turning like a Skrew; as in *Salsola, Salicornia, Ceratocarpus, Basella*, and all *Oleraceous Plants* ‡; or,

Reduced; as in *umbellate Plants*.

4. *POLYCOTYLEDONES*, with *many Cotyledons*; as in *Pinus, Cupressus, and Linum*.

† See these Terms explained in Part I. Chap. 6.

‡ Pot Herbs. The *Oleraceous Plants* make an Order in the *Fragmenta Methodi Naturalis* of *Linnæus*; consisting of *Spinacia, Blitum, Beta, Galenia, Atriplex, Chenopodium, Rivina, Petiveria, Herniaria, Illecebrum, Polycnemum, Axyris, Achyranthes, Amaranthus, Gomphrena, Celosia, Ceratocarpus, Corispermum, Callitriche, Salsola, Salicornia, and Anabasis*.

C H A P. XII.

Of RADICATION.

BY RADICATION is meant the Disposition of the *Root* of the Plant; which is to be considered in respect to the ascending and descending Caudex and the Radicles; as has been shewn in Chap. 2. where the principal Characters of Roots have been explained. Roots are farther distinguished into,

BULBOSE, consisting of a *Bulb*; and these are either,

Squamose, Scaly; as in *Lilium*.

Tunicate, coated; as in *Cepa*.

Duplicate, double; as in *Fritillaria*; or, *Solid*; as in *Tulipa*.

TUBEROSE, *knobbed*; and these are either,

Palmate, banded; as in *Orchis*.

Fasciculate, bundled; as in *Pæonia*; or,

Pendulous, hanging; as in *Filipendula*, and *Elæagnus*.

ARTICULATE, *jointed*; as is *Lathræa*, *Oxalis*, *Martynia*, and *Dentaria*.

FUSIFORM, *Spindle-shaped*; as in *Pastinaca*, *Daucus*, and *Raphanus*.

G L O-

GLOBOSE, *Globe-shaped*; as in *Bunium*; and in some Species of *Ranunculus*, and *Chærophyllum*.

C H A P. XIII.

Of R A M I F I C A T I O N.

RAMIFICATION is the Manner in which a Tree produces its *Branches*, with the Situation of which that of the *Leaves* is also connected*.

Some Plants have no *Branches*, though they have *Leaves* which are placed on the Stem. This is the Case with *Dictamnus*, *Pæonia*, *Epimedium*, and *Podophyllum*.

* The Doctrines delivered here under the Head of *Ramification* do not answer to the Title, the greater Part respecting rather the Situation of the *Leaves* than that of the *Branches*: They might, with more Propriety, have been collected under a Head of *Foliation*; but as the Term *Foliation* is used to express the Habit of Plants, in respect to the Position of *Leaves* in the Bud before they disclose themselves, as will be shewn in Chapter 16. these Doctrines could not have stood under the same Head, without a Confusion in the Use of the Term; and this seems to be the Reason why *Linneus*, whom we follow, has given them in this Place.

Leaves *opposite* or *alternate* are generally a Mark of great Difference in Plants: A few Genera however must be excepted, which have some Species with opposite Leaves, and others with alternate; as in *Euphorbia*, *Cistus*, *Lantana*, *Antirrhinum*, *Lilium*, and *Epilobium*.

In *Antirrhinum*, *Jasminum*, *Veronica*, and *Borago*, the lower Leaves at the Branches are *opposite*, and the upper ones at the Flowers *alternate*.

In *Potentilla supina*, and in *Potamogeton*, the lower Leaves are *alternate*, and the upper ones on the Branches *opposite*.

In *Nerium* the lower Leaves are *opposite*, and the upper ones *tern*.

In *Ruscus* the lower Leaves are *tern*, and the upper ones *alternate*.

In *Coreopsis alternifolia*, and in *Antirrhinum chalepense*, the lower Leaves are *quatern*, and the upper ones *alternate*.

The *natural* Situation of the Leaves in Plants that are much branched is best concluded from the *radical* Leaves.

C H A P X I V.

Of I N T O R S I O N.

IN T O R S I O N, *Winding*, is the Flexion or Bending of any Part of a Plant towards one Side.

CAULES volubiles, twining Stems, wind either,

Sinistrorsum, to the *Left*; as in *Tamus*, *Dioscorea*, *Rajania*, *Menispermum*, *Cissampelos*, *Hippocratea*, *Lonicera*, *Humulus* and *Helxine*; or,

Dextrorsum, to the *Right*; as in *Phaseolus*, *Dolichos*, *Clitoria*, *Glycine*, *Securidaca*, *Convolvulus*, *Ipomæa*, *Cynanche*, *Periploca*, *Ceropegia*, *Euphorbia*, *Tragia*, *Basella*, *Eupatorium*, and *Tournefortia*.

CIRRHI volubiles, twining Claspers, wind to the *Right*, and *back* again. Most *leguminose* Plants have *Cirrho* of this Kind: In *Smilax*, and in most Species of *Piper*, the *Petioles* are *cirrhiferous*.

COROLLÆ bend to the *Left** in *Aclepias*, *Nerium*, *Vinca*, *Rauwolfia*, *Periploca*,

* Supposing yourself placed in the Centre, and looking towards the South.

and

and *Stapelia*; and to the *Right* in *Pedicularis*.

In *Trientalis* there is this Singularity, that the Petals are all *Imbricate*, one Side of each folding over the next towards the *Right*,

In *Gentiana*, the Imbrication of the Petals before they are unfolded is contrary to the Sun.

PISTILLA incline to the *Left* in *Cucubalus* and *Silene*.

GERMINA are twisted to the *Left* in *Heliicteres* and *Ulmaria*.

FLOWERS, in respect to *Intorsion*, have,

A *Resupination**; which is, when the upper Lip of the Corolla look towards the Ground, and the under Lip towards Heaven; as in the *European Viola*, *Ajuga orientalis*, *Ocymum*, and some Species of *Satyrium*; or,

An *Obliquity*; as in the Species of *Hyssopus* called *Lopanthus*, *Nepeta sibirica*, and some Species of *Pedicularis*.

SPICÆ, *Spikes*, are,
Spiral; as in *Claytonia*, and in some *Asperifolious* † Plants; or, *Incurvate*, *crooked*; as

* *Resupination*, is when any Thing is thrown on its Back, or lies Face upwards.

† The *Asperifoliæ* belong to the Class *Pentandria*. See Part II. Chap. 8.

in *Saururus*, *Mimosa*, *Petiveria*, *Papaver*, *Sedum rubrum*, and *Lilium martagon*.

In several Plants there is found a *Contorsion* of the Fibres, which answers the End of an *Hygrometer* *. Thus in *Avena*, there is an *Arista* or Beard that is twisted like a Rope; in some *Geraniums*, the *Arillus* of the Seed has a spiral Tail; and in *Mnium*, the *Peduncles* are twisted contrary ways above and below.

C H A P X V.

Of G E M M A T I O N.

GEMMATION is the Construction of the *Gem* or *Bud*, which is formed either of *Leaves*, *Stipulae*, *Petioles*, or *Squamæ*. Those that are formed of the *Leaves* will be considered in the next Chapter, under the Head of *Foliation*; the rest are distinguishable into,

* An Instrument for measuring the Degree of Dryness or Moisture of the Air. The Fibres of the Plants here instanced being affected by the Quality of the Air, the spiral Part twists or untwists as the Weather varies; and by observing this, the Temperature of the Air may be discovered.

PETIOLAR Buds, which are either,
Opposite; as in *Ligustrum*, *Phillyrea*, *Nyc-
 tantbes*, *Syringa*, *Hypericum*, *Coriaria*, *Buxus*,
Jasminum, *Vaccinium*, *Arbutus*, *Andromeda*,
Ledum, *Daphne*, *Laurus*, *Myrica*, *Linnæa*,
Diervilla, *Lonicera*, *Euonymus*, *Fraxinus*, *A-
 cer*, *Esculus*, *Bignonia*, *Opulus*, *Sambucus*, and
Psidium; or,

Alternate; as in *Salix*, *Spiræa*, *Genista*,
Solanum, *Hippophaë*, *Berberis*, *Ilex*, *Ribes*,
Juglans, *Pistachia*, and *Plumbago*.

STIPULACEOUS Buds; which are ei-
 ther,

Opposite; as in *Cephalanthus* and *Rhamnus
 catharticus*; or,

Alternate; as in *Populus*, *Tilia*, *Ulmus*,
Quercus, *Fagus*, *Carpinus*, *Corylus*, *Betula*,
Alnus, *Ficus*, and *Morus*.

STIPULACEO-PETIOLAR Buds; which are.

Alternate; as in *Sorbus*, *Cratægus*, *Prunus*,
Mespilus germ. *Pyrus*, *Malus*, *Cotoneaster*, *A-
 mygdalus*, *Cerasus*, *Padus*, *Melianthus*, *Rosa*,
Rubus, *Vitis*, *Robinia*, *Cytisus*, *Potentilla fru-
 ticosa*, and *Staphylea*.

ANOMALOUS, or *irregular Buds*; as
 in *Abies*, *Pinus*, and *Taxus*.

In many Plants the Buds are *wanting*, as
 has been shewn in Chap. 9.

C H A P. XVI.

Of FOLIATION.

BY FOLIATION is to be understood the *complicate* or folded State the Leaves are in, whilst they remain concealed within the *Buds* of the Plant*. Leaves, in respect to the Manner of their *Complication*, are either,

INVOLUTE, rowled in; when their lateral Margins are rowled spirally inwards on both Sides; as in *Lonicera*, *Diervilla*, *Eunonymus*, *Rhamnus catharticus*, *Pyrus*, *Malus*, *Populus*, *Plumbago*, *Viola*, *Commelina annua*, *Plantago*, *Alisma*, *Potamogeton natans*, *Nymphæa*, *Saururus*, *Aster annuus*, *Humulus*, *Urtica*, *Hepatica*, *Sambucus ebulus*, and *Staphylea*.

REVOLUTE, rowled back; when their lateral Margins are rowled spirally backwards on both Sides; as in *Rosmarinus*, *Teucrium marum*, *Dracocephalon*, *Digitalis*, *Nerium*, *Andromeda*, *Ledum*, *Epilobium angusti*.

* *Linnaeus* claims the Invention of the Distinctions given in this Chapter, preceding Botanists not having, (as he says) attended to the *Foliation* in *Buds*.

Rumex,

Rumex, Persicaria, Polygonum, Parietaria, Primula, Carduus, Cnicus, Tussilago, Senecio, Othonna, Potentilla fruticosa, Ptelea, and some Species of *Salix*.

OBVOLUTE, rowled against each other; when their respective Margins alternately embrace the strait Margin of the opposite Leaf; as in *Dianthus, Lychnis, Saponaria, Epilobium oppositif. Dipsacus, Scabiosa, Valeriana, Marrubium, Phlomis, Salvia,* and *Prasium*.

CONVOLUTE, rowled together; when the Margin of one Side furrounds the other Margin of the same Leaf, in the Manner of a Cowl or Hood; as in *Canna, Amomum, Calla, Arum, Piper, Hydrocharis, Commelina lutea, Prunus Armeniaca, Dodecatheon, Crepis, Lactuca, Hieracium, Sonchus sibir. Tragopogon, Orobus, Vicia, Lathyrus, Solidago, Aster, Pinguicula, Vaccinium, Pyrola, Berberis, Brassica, Armoracia, Symphytum, Cynoglossum, Potamogeton perfol. Eryngium, Menyanthes, Saxifraga, Aralia, Dictamnus, Epimedium,* and many Grasses.

IMBRICATE; when they are parallel, with a strait Surface, and lie one over the other; as in *Syringa, Ligustrum, Phillyrea, Nyctanthes, Linnæa, Cephalanthus, Coriaria, Hypericum, Valantia, Justicia, Portulaca, Laurus,*

rus, Daphne, Hippophaë, Ruscus, Cyanus perennis, Mespilus germ. Campanula, Polemonium, and Sium.

EQUITANT, *riding*; when the Sides of the Leaves lie parallel, and approach in such manner, as the outer embrace the inner; (which is not the case with the *Conduplicate* explained in the next Head) as in *Hemerocallis, Iris, Acorus, Carex, Poa*, and some *Grasses*.

CONDUPLICAE, *doubled together*; when the Sides of the Leaf are parallel, and approach each other; as in *Quercus, Fagus, Corylus, Carpinus, Tilia, Padus, Cerasus, Amygdalus, Cotoneaster, Frangula, Alaternus, Paliurus, Juglans, Pistacia, Rhus, Fraxinus, Sorbus, Rosa, Rubus, Potentilla vulg. Comarum, Bignonia, Cytisus, Robinia, Pisum, Melianthus, Pastinaca, Heracleum, Laserpitium Poterium*, and most *Diadelphous* Plants.

PLICATE, *plaited*; when their Complication is in Plaits lengthways, like the plicate Leaves explained in Chap. 5. as in *Cratægus, Betula Alnus, Fagus, Vitis, Acer, Opulus, Viburnum, Ribes, Althæa, Malva, Humulus, Urtica, Passiflora* and *Alchemila*.

RECLINATE, *reclined*; when the Leaves are reflexed downwards towards the Petiole;

as in *Podophyllum*, *Aconitum*, *Hepatica*, *Pulsatilla*, *Anemone*, and *Adoxa*.

CIRCINAL, compassed*; when the Leaves are rowled in spirally downwards; as in *Filices*, and some *Palms*.

* In Rings.

C H A P. XVII.

Of STIPULATION.

BY STIPULATION is meant the Situation and Structure of the *Stipulae* * at the Base of the Leaves.

The *Stipulae* in different Plants are found to be as various as the Leaves. They are, *WANTING* in the *Asperifoliae* †, the Class *Didynamia*, the *Stellatae* ‡, *Siliquosae* ||, *Liliacae* §, *Orchideae* ¶, and in most compound Flowers.

PRE-

* See Chapter 8.

† *Pentandria Monogynia*, Distinction 1. See Part II. Chap. 8.

‡ *Tetrandria Monogynia*, Distinction 2. See Part II. Chap. 7.

|| *Tetradynamia Siliquosa*. See Part II. Chap. 18.

§ *Lilium*, *Fritillaria Tulipa*, and *Erythronium*, are the *lilaceous* Plants; which make an Order in the *Methodi naturalis fragmenta*. See *Phil. Bot.* page 28.

¶ *Orchis*, *Satyrium*, *Serapis*, *Herminium*, *Neottia*, *Ophrys*,
Cypri-

PRESENT in the *Papilionaciæ**, *Lomentaceæ* †, and in the Class *Icosandria*.

GEMINÆ, two together, or with a single one on each Side in most Plants.

SOLITARY, in *Meliantbus*, in which the *Stipula* is on the Inside; and *Ruscus*, in which it is on the Outside.

DECIDUOUS, in *Padus*, *Cerasus*, *Amygdalus*; and also ‡ in *Populus*, *Tilia*, *Ulmus*, *Quercus*, *Fagus*, *Carpinus*, *Corylus*, *Betula*, *Alnus*, *Ficus*, and *Morus*.

PERSISTING, in the Class *Diadelphia*, and in *Icosandria Polygynia*.

ADNATE, growing close to the Plant, in *Rosa*, *Rubus*, *Potentilla*, *Comarum*, and *Meliantbus*.

SOLUTE, free or loose, in most Plants.

Cypripedium, *Epidendrum*, *Limodorum* and *Arethusa*, are the *Orchideæ*; which are another Order in the *Methodi Naturalis Frag.* See *Phil. Bot.* p. 27.

* Class *Diadelphia*. See Part II. Chap. 20.

† *Sappora*, *Cercis*, *Baubinia*, *Parkinsonia*, *Cassia*, *Poinciana*, *Tamarindus*, *Guilandina*, *Adenanthera*, *Hæmatoxylon*, *Cæsalpinia* and *Mimosa*. These are an Order in *M. N. Frag.* See *Phil. Bot.* p. 34. They are called *Lomentaceous*, from *Lomentum*, which signifies *Bean Meal*.

‡ The Genera here instanced are the same with those enumerated in the 15th Chapter, as having stipulaceous Buds that are alternate, which are those referred to by *Linnaeus* in this Place.

INTRAFOLIACEOUS, on the *Inside* of the Leaves, in *Ficus* and *Morus*.

EXTRAFOLIACEOUS, on the *Outside* of the Leaves, in *Alnus*, *Betula*, *Tilia*, and the Class *Diadelphia*.

C H A P. XVIII.

Of PUBESCENCE.

PUBESCENCE, *Downiness**, is an Armature, by which Plants are defended from external Injuries. *Pubescence* is of the following Kinds, viz.

SCABRITIES, *Roughness*; which is composed of Particles scarce visible to the naked Eye †, that are scattered over the Surface of the Plant. This is distinguishable into,

I. *Scabrities GLANDULOSA*, a *glandulose Roughness*; when it consists of little Glands, which are either,

Miliary, like Grains of *Millet*.

* The Term *Downiness* is not to be taken here in too strict a Sense, as the following Explanations shew.

† *Guettardus* was the first who carefully examined this kind of Pubescence.

Vesicu-

Vesicular, composed of *Bladders*.

Lenticular, resembling *Lentils*.

Globular, *Globe-shaped*; as in *Atriplex* and *Chenopodium*.

Secretory, serving for *Secretion*.

Catenulate, consisting of little *Chains*; or,

Utricular, like little *Bottles*.

2. *Scabrities* SETACEA, a bristly *Roughness*; when it consists of *Bristles*, which are either,

Cylindric, like a *Cylinder*.

Conic, like a *Coen*.

Hamosæ, *hooked*.

Glanduliferous, bearing *Glands*.

Furcate, *forked*.

Securiform, *Hatchet-shaped*; as in *Humulus*.

Aggregate and *Starry*; as in *Alyssum* and *Helicteres*; or,

Aggregate and *Simple*; as in *Hippophaë*.

3. *Scabrities* ARTICULATA, a *jointed Roughness*; when it is in *Joints*, which are either,

Simplices, *simple*.

Nodosæ, *knotty*.

Caudate, *tailed*.

Ramosæ, *branching*; as in *Verbascum*; or,

Plumosæ, *feathery*.

LANA, Wool, is a Protection to many Plants against the scorching Heat; as in *Sideritis Canariensis*, *Salvia Canariensis*, the *Salvia* called *Æthiopis*, *Marrubium*, *Verbascum*, *Stachys*, the *Carduus* called *Eriocephalus** and *Onopordum*.

TOMENTUM, Down, is a Defence for Plants against Winds; it has commonly a whitish or hoary Appearance; as in *Tomex*, *Medicago*, and *Halimus*.

STRIGÆ †, with their stiff Bristles, are of use to prevent Plants from being bruised or destroyed by Vermin; as in *Cactus*, *Malpighia*, *Hibiscus*, and *Rubus*.

HAMI, Hooks, fasten themselves to Animals as they pass by; these are either,

Triglochid, three-pointed; as in *Lappula*; or,

* There is a Genus intituled, *Eriocephalus*, but the Plant here meant is the *Carduus Eriophorus* of *Lin. Species Plant.* page 823, which is the *Carduus capite rotundo tomentoso* of *Casp. Bauhine*: It was formerly called *Corona fratrum*.

† *Linnaeus* seems to have omitted the Definition of this Term. It signifies properly a Row, or ordinate Disposition of Things of any Sort; and appears, by the Instances here given, to be applied to Thorns or Prickles that come out in Rows, or in some regular Order. No *English* Word occurs that is exactly expressive of the Term in this Sense.

Incurvate, crooked; as in *Arctium*, *Marubium*, *Xanthium*, and *Petiveria*.

STIMULI, *Stings*, keep off naked Animals by their venomous Punctures; as in *Urtica*, *Jatropha*, *Acalypha* and *Tragia*.

ACULEI, *Prickles*, keep off particular Animals; as in *Volkameria*, *Pisonia*, *Cæsalpinia*, *Mimosa*, *Parkinsonia*, *Capparis*, *Erythryna*, *Robinia*, *Solanum*, *Cleome*, *Smilax*, *Convolvulus*, *Aralia*, *Duranta*, *Xylon*, *Drypis*, *Euphorbia*, *Tragacantha*, and *Tragopogon*. In *Hugonia* the *Aculei* are *spiral*, or *cirrhose**.

FURCÆ, *Forks*; are a Defence against Animals in general; as in *Berberis*, *Ribes*, *Gleditsia*, *Mesembryanthemum*, *Osteospermum*, *Ballota*, *Barleria*, *Fagonia*, and *Poterium*.

SPINÆ, *Thorns*, serve to keep off Cattle. These are either,

On the *Branches*; as in *Pyrus*, *Prunus*, *Citrus*, *Hippophae*, *Gmelina*, *Rhamnus*, *Lycium*, *Catesbea*, *Celastrus*, *Ulex*, *Asparagus*, *Spartium*, *Achyronia*, *Ximenia*, *Ononis*, *Stachys*, *Alyssum*, and *Cichorium*.

On the *Leaves*; as in *Aloe*, *Agave*, *Yucca*, *Ilex*, *Hippomane*, *Theophrasta*, *Carlina*, *Cynara*, *Onopordum*, *Morina*, *Acanthus*, *Gun-*

* From *Cirrhus*, a Clasper or Tendril.

delia, Juniperus, Salsola, Polygala, Ruscus, Borbonia, Statice, Ovieda, and Cliffortia.

On the *Calyx*; as in *Carduus, Cnicus, Centaurea, Moluccella, and Galeopsis*; or,

On the *Fruit*; as in *Trapa, Tribulus, Murex, Spinachia, Agrimonia, and Datura.*

C H A P. XIX.

Of G L A N D U L A T I O N.

GLANDULATION respects the secretory Vessels; which are either *Glandules, Follicles, or Utricles.*

*GLANDULES** are either,

Petiolar, when they are on the *Petioles*; as in *Ricinus, Jatropha, Passiflora, Cassia, and Mimosa.*

Foliaceous, when they are produced from the *Leaves*: And these are either from the *Serratures*, as in *Salix*; from the *Base*, as in *Amygdalus, Cucurbita, Elæocarpus, Impatiens, Padus, and Opulus*, from the *Back*, as in *Urena, Tamarix, and Croton*; or from the *Surface*, as in *Pinguicula, and Drosera.*

* See Chap. 8.

Stipular, when they are produced from the *Stipulae*; as in *Baubinia*, and *Armeniaca*.

Capillary, like *Hairs*; as in *Ribes*, *Antirrhinum quadrifolium*, *Scrophularia*, *Cerastium*, and *Silene*; or,

Pores only; as in *Tamarix* and *Silene viscaria*.

*FOLLICLES**, are Vessels distended with Air; as in *Utricularia*, at the Root of which there are roundish Vessels that are inflate, and have two Horns; and in *Aldrovanda* also, at the Leaves of which there are Pot-shaped Follicles that are semicircular.

UTRICLES†, are Vessels filled with a secreted *Liquor*. Thus in *Nepenthes*, the Extremity of the Leaves terminate in a Thread, and this Thread terminates in a Cylinder, the Top of which is closed with a Lid that opens on the Edge; in *Sarracena* also, the Leaves are hooded almost like those of *Nepenthes*, but sessile at the Root; and in *Marcgravia*, from the Centre of the Umbel there are vessels produced, which resemble the ringent Corolla of the *Galeopsis*, but without the under Lip.

* The Word signifies a little Ball filled with Wind.

† The Word signifies a little Bottle.

C H A P. XX.

Of LACTESCENCE.

LACTESCENCE, *Milkiness*, is when a copious Juice flows out on any Injury done to the Plant. The Colour of the Liquor is either,

WHITE; as in *Euphorbia*, *Papaver*, *Asclepias*, *Apocynum*, *Cynanchum*, *Campanula*, *Lobelia*, *Jasione*, *Acer*, *Selinum*, *Rhus*, *Cactus mamillaris*, and the *Semiflosculose* Flowers of *Tournefort* *.

YELLOW; as in *Chelidonium*, *Bocconia*, *Sanguinaria*, and *Cambogia*; or,

RED; as in *Rumex sanguinea*.

* *Sonchus*, *Lactuca*, &c. These make one of the Classes of *Tournefort's* Inst. R. H.

C H A P. XXI.

Of INFLORESCENCE.

INFLORESCENCE, is the Manner in which the Flowers are fastened to the Plant by the *Peduncle*. Plants, in respect to *Inflorescence*, are distinguished into,

VERTICILLATE, with the Flowers in *Whorls*; as in *Marrubium*.

CORYMBIFEROUS, bearing the Flowers in *Corymbi*; as in *siliquose* Plants*.

SPICATE, with the Flowers in *Spikes*; as in *Phytolacca*, *Arum*, *Phœnix*, *Piper*, &c.

PANICULATE, with the Flowers in *Panicles*; as in fundry of the *Grasses*.

AXILLARY Flowers are such as come out from the *Wings* of the Leaves or Branches, which is the most common Case.

OPPOSITIFOLIIOUS, such as come out *opposite* to the Leaves; as in *Piper*, *Saururus*,

* *Myagrum*, *Anastatica*, &c. The *siliquose* Plants make an Order in the *Met. Nat. Frag.* See the *Phil. Bot.* page 34, where the Plants here meant are enumerated.

Phytolacca, Dulcamara, Vitis, Cissus, Corchorus, Geranium, Ranunculus aquatilis and the annual Species of *Cistus*.

INTERFOLIACEOUS, such as come out *between* the opposite Leaves, but are placed alternately; as in *Asclepias*.

LATERIFOLIOUS, such as come out at the *Side* of the Base of the Leaf; as in *Claytonia, Solanum*, and the *Asperifoliae* *.

PETIOLAR, when the Peduncle is inserted in the *Petiole*; as in *Hibiscus*, and *Turnera*.

CIRRHIFEROUS, such as bear *Cirrho*; as in *Cadiospermum*, and *Vitis*.

SUPRA-AXILLARY, such as come out *above* the Wings; as in the *Asperifoliae*, and in *Potentilla Monspeliensis*.

* *Pentandria monogynia*, Distinction 1st.

C H A P. XXII.

Of SPECIFIC DISTINCTIONS.

WE have treated of *Generic Differences* in the five last Chapters of the second Part of this Work; we come now to treat of the *Specific* ones. For this a Foundation has been lain in the preceding Chapters of this third Part, by the Explanation of those Parts of the Vegetable, on which the Difference of the Species most commonly depends; but it is necessary to observe, that the Fructification which we treated of in the first Part, as preparatory to the Distinctions of the Classes and Genera, has its Influence likewise in many Cases upon the Species, as will appear in the Course of this Chapter.

Generic Differences we have shewn to depend on the Form of the Fructification, and to be confined to that alone: Specific Differences take their Rise from any Circumstance, wherein Plants of the same Genus are found to disagree; provided such Circumstance is constant, and not liable to Alteration by Culture or other Accidents.

Hence

Hence *Linnæus* asserts, the Species to be as many as there were different Forms of Vegetables produced at the Creation ; and considers all casual Differences as Varieties of the same Species.

Towards the End of the last Century, the Desire of increasing the Number of Plants had so seized the Botanists of that Time, that new Species were established on too slight Differences, to the great Detriment of the Science ; and the same Eagerness led them also to set down as new Genera what should have been Species only. This Evil was in some Measure unavoidable, whilst there were no fixt Principles for the Regulation of the Science in this respect. A Remedy to it was first attempted by *Vaillant* ; afterwards by *Jussieu*, *Haller*, *Royenus*, *Gronovius*, and others ; and lastly by *Linnæus*, whose Aphorisms have brought the Work much nearer to Perfection. Something indeed seems still wanting to complete these Doctrines ; but perhaps more is not to be expected till this Branch of natural Philosophy receives farther Assistance from Experiment.

We shall treat in this Chapter of those Circumstances by which *Species* are distinguished

guished with Certainty, reserving the *Varieties* for the Chapter following.

The *ROOT* often affords a real specific Difference*, and is sometimes the chief Distinction; as in *Scilla*, where the Species are scarce to be distinguished, but by the Bulbs being *tunicate, solid, or squamose*; and in *Orchis*, where the Species are known by the Roots being *fibrose, round, or testiculate*; but as Access cannot always be conveniently had to this Part of the Plant, it is better to fix the specific Distinction on some other Circumstance, if the Case will admit of it.

The *TRUNK* often furnishes a sure Mark of Distinction. Thus in *Hypericum* †, *Convallaria* ‡, and *Hedysarum* ||, there are

* In *Fumaria bulbosa*, the greater and less Sorts with a hollow Root, and the greater and less Sorts with a Root not hollow, appear by the whole habit of the Plants to be Varieties only, as will be observed in the next Chapter.

† *Hypericum hirsutum* (Lin. Spec. Plant. 786.) caule tereti. *Hypericum perforatum* (Lin. Spec. Plant. 785.) caule ancipiti. *Hypericum quadrangulum* (Lin. Spec. Plant. 785.) caule quadrangulo.

‡ *Convallaria polygonatum* (Lin. Spec. Plant. 315) caule ancipiti. *Convallaria multiflora* (Lin. Spec. Plant. 315.) caule tereti.

|| *Hedysarum triquetrum* (Lin. Spec. Plant. 746.) caule triquetro.

many Species distinguishable by the *Angles* of the Stem; and in *Lupinus*, the Species are not easy to be known, except by the same Part being *simple* or *compound*. In *Eriocaulon*, the most remarkable Difference is in the *Culmus*, which is *quinquangular*, *hexangular*, *decangular*, &c. In *Pyrola*, some Species are distinguished by a *triquetrous Scapus*. In *Citrus*, the *Aurantium* is distinguished from its Congeners by its *Petioles*, which are winged or increased by a Membrane on each Side; and in *Gomphrena*, there is a Species* distinguished by its *Peduncles* which are *Diphyllous*, being furnished with two opposite *Folioles* that are placed under the Head of the Flowers.

The *LEAVES* exhibit most natural and also most elegant specific Differences. These have been so amply treated of already, that it would be only Repetition to particularize or exemplify the numerous Cases that occur of such Distinctions.

FULCRA are generally a good Mark of Distinction, and must be carefully attended to by the Botanist for the Determination of the Species; as we shall shew by many Ex-

* *Gomphrena globosa* (*Lin. Spec. Plant.* 224.)

amples,

amples, where the Difference consists principally in those Parts of the Plant. Thus,

Aculei are remarkable in *Rubus*.

Spines in *Prunus*.

Braçteæ in *Fumaria*, *Dracocephalon*, and the *Indian* Species of *Hedysarum*; to which must be added the *Coma*, which is a bushy Head, composed of *Braçteæ* that are of a large Size, and terminate the Stem in *Corona imperialis*, *Lavandula*, and *Salvia*.

Glandules furnish the essential Mark in *Padus*, *Urena*, *Mimosa*, *Cassia*, and many other Genera, which it would be impossible to distinguish without being acquainted with this Part. They are found on the *Serratures* at the *Base* of the Leaves in *Heliocarpus*, *Salix*, and *Amygdalus*; on the *Back* of the Leaves in *Padus*, *Urena*, and *Passiflora*; and on the *Aculei* in *Baubinia aculeata*, where by the *Apex* of the *Aculei* a *Liquor* is secreted. The *Amygdalus* is distinguished from *Persica* only by the *Glandules* of the *Serratures*; nor could the Species of *Urena* be ever fixed without examining the *Glandules* of the *Leaves*. The *Convolvulus* with a *tuberculate* *Calyx*, is so variable in the *Shape* of its *Leaves*, that it seems divisible into many Species, yet it is kept together by the *Glandules*: And there is a Species of *Monarda*,
distin-

distinguishable from its Congeners by the Glandules, that are sprinkled over the Corolla.

Stipulæ are of great Consequence in many extensive Genera, where the Species are liable to Confusion. Thus in one Species of *Meliantbus* the *Stipulæ* are *solitary*; in the other they are in *Pairs*; and the *Cassia auriculata* is rendered distinct from all its Congeners by the Shape of its *Stipulæ*, which are *reniform* and *barbate*.

HYBERNACLES afford likewise a certain specific Difference.

That *Gems* or *Buds* often differ greatly in the same Genus is proved by *Rhamnus*; in which the various Species, viz. *Cervispina*, *Alaternus*, *Paliurus*, and *Frangula*, have all a Difference in their *Buds*; and in that extensive and intricate Genus the *Salix*, the Species are by the Structure and Foliation of the *Buds* distinguished with great Certainty.

Bulbs also distinguish the Species, as is proved by *Scilla*, where they afford a real, and almost the only Distinction; and by their Situation in the *Axillæ* of the Leaves, they determine *Dentarium*, *Lilium*, *Ornithogalum*, *Saxifraga*, and *Bistorta*.

INFLO-

INFLORESCENCE affords the truest, and in most Genera the most elegant Distinction. Thus in *Spiræa*, the Flowers are in some Species *duplicato-racemose*; in others *corymbose*; and in others again *umbellate*; without which Characters there would be no Certainty of the Species.

The *Peduncle* or Flower-stalk, which is the Foundation of the Characters of *Inflorescence*, varies as to the Manner of its supporting the Flowers; and is said to be,

Flaccid, wanting Firmness; when it is so weak as to be bowed down by the Weight of the Flower itself.

Cernuus, nodding; when it is incurvate at the *Apex*, so that the Flower inclines to one Side, or towards the Ground, and cannot preserve an erect Posture, by reason of the strict Curvature of the Peduncle; as in *Carpesium*, *Bidens radiata*, *Carduus nutans*, *Scabiosa alpina*, *Helianthus annuus*, and *Cnicus sibiricus*.

Bearing *Fastigate* Flowers; when the *Pedicelli**, or partial Foot-stalks, elevate the Fructification into a *Fascicle*, so that they are

* In this, and some other Places, the *Philosophia Botanica* has *Petiole* for *Pedicellus*; but the latter is the proper Term for the partial Foot-stalk of a Flower. See Chap. 4.

of an equal Height at the Top, as if they had been shorn off horizontally; as in *Dianthus* and *Silene*.

Patulus, spreading; when it is branched out every Way, so that the Flowers stand remote from each other. This stands opposed to *coarctate, close*.

Bearing *conglomerate* Flowers; when it is branched, and bears the Flowers in close compact Heaps, and is therefore opposed to a *diffuse Pannicle*.

Articulate, jointed; when it is furnished with a *Joint*; as in *Oxalis*, *Sida*, and *Hibiscus*.

Coming out in *Pairs*; as in *Capraria*, and *Oldenlandia Biflora*.

Tern, or three from the same Axilla; as in *Impatiens Triflora*.

Flexuose, bending divers Ways, or *undulate, waved*; as in *Aira flexuosa*.

Remaining on the Plant after the Fructification is fallen; as in *Jambolifera*, *Ochna*, and *Justicia*.

Incrassate, thickened towards the Flower; as in *Cotula*, *Tragopogon*, and most *cernuous* Flowers.

The Parts of *FRUCTIFICATION* often furnish most certain and constant specific Differences. *Linnaeus* tells us he was once
of

of a contrary Opinion; and held, that as the Flower was of short Duration, and its Parts commonly very minute, recourse should not be had to the Fructification for specific Differences, till all other Ways had been tried and found ineffectual; but as the Fructification contains more distinct Parts than all the rest of the Plant taken together, and Certitude is found throughout Nature to depend mostly on her minuter Parts, he has since readily admitted this Distinction.

In *Gentiana*, the Species cannot any Way be distinguished, if the Flower is not admitted as a specific Character; but they are easily distinguished by their *Corollæ*, which vary in being *campaniform*, *rotate*, *infundibuliform*, *quinquesid*, *quadrifid*, *octofid*, &c.

In *Hypericum*, the Species are distinguished by the Flowers being *Trigynous** or *Pentagynous* †.

In *Geranium*, the *African* Species are distinguishable from their *European* Congeners, by the Corolla being irregular, and also by the Connection of their Stamina.

In *Lichen*, the Fructification is distin-

* With three Styles.

† With five Styles.

guishable into *Tuberculum*, a little Knob, which is a Fructification consisting of rough Points collected like a Heap of Dust: *Scutellum*, a small Buckler, which is a concave orbiculate Fructification, the Margin of which is elevated on every Side; or *Pelta*, a little Shield, which is a plane Fructification fastened for the most Part to the Margin of the Leaf*.

In *Mosses*, the *Capitulum*, or little Head, is an *Anthera*.

In *Grasses*, *Spicula*, a little Spike, is a partial one; the *Arista* is tortile, twisted, when it has a twisted Joint in the Middle. *Articulus* a Joint, is the Part of the *Culmus* that lies between two *Geniculi*, or Knots.

A *radiate* compound Flower consists of *Disk* and *Radius*. The *Radius* is composed of irregular *Corollulæ* in the Circumference; and the *Disk* of smaller *Corollulæ*, that are for the most Part regular.

A *decompound* Flower contains within the

* The Terms explained here, and in the following Paragraphs, respect such Circumstances of the Parts of Fructification as concern rather the specific Differences than the classic, or generic Ones: and we have therefore followed *Linnaeus* in subjoining them to this Head, notwithstanding that some few of them have been already mentioned and explained in the first Part of this Work.

same

same Calyx lesser Calyces, that are each of them common to many Flowers ; as in *Sphaeranthus*.

The *Corolla* is said to be *equal*, when its Parts are equal in Figure, Magnitude, and Proportion ; *unequal*, when the Parts answer in Proportion, though not in Magnitude, so that the Flower comes out to be regular ; *regular*, when it is equal in respect to the Figure, Magnitude, and Proportion of the Parts ; *irregular*, when the Parts of the Limb differ in Figure, Magnitude, or Proportion. *Rictus*, a *Gaping*, or *Grinning*, is the Gap or Opening between the two Lips of the *Corolla*. *Faux*, the *Gorge*, or *Gullet*, is the Opening of the Tube of the *Corolla*. *Palatum*, the *Palate*, is a Gibbosity, or bunching out in the *Faux* of the *Corolla*. *Calcar*, a *Spur*, is a Nectarium extending in a Cone in the hinder Part of the *Corolla*. The *Corolla* is *Urceolate*, *Pitcher-shaped*, when it is inflate and gibbous on all Sides, after the Manner of that Vessel ; *cyathiform*, *shaped like a Drinking-glass*, when it is cylindric, but widening a little towards the upper Part ; *conniving*, when there is a Convergency of the Points of the several Lobes of the Limb ; or, *lacera*, *rent*, when the Limb is finely cut ;

The *Anthera* is *versatile** and *incumbent* †, when it is fastened on at its Side; and *Erect*, when it is fastened on its Base.

The *Pericarpium* is *inflate, puffed*, when it is hollow like a Bladder, and not filled up with Seeds; *prismatic, Prism-shaped*, when it is a linear *Polyedron* with plane Sides; *turbinate, Top-shaped*, when it tapers towards the Base; as in *Pyrus*; *contort, twisted*, when it turns spirally, as in *Ulmaria, Helicteres*, and *Thalictrum*; *acinaciform, Faulchion-shaped*, when the Fruit is compressed like a Blade, one of the longitudinal Angles being obtuse, and the other acute; *echinate, prickly* like an *Echinus* ‡, when it is beset on all Sides with Spines or *Aculei*; *torose* §, *brawny*, when it is here and there gibbous with brawny Swellings or Prominences; as in *Lycopersicon* and *Phytolacca*.

* Easy to turn.

† Lying flat.

‡ Hedge-Hog.

§ *Torus*, signifies properly the Rise or Swelling out of the strong Muscles of an Arm.

C H A P. XXIII.

Of V A R I E T I E S.

THE collecting of *VARIETIES* under their proper Species, is a Work no less necessary than that of collecting the several Species under their proper Genus. We have observed in the last Chapter, that such Differences are only incidental to Vegetables, and are not found constant and unchangeable in them, are to be considered as Varieties only. These Varieties are grounded chiefly on the following circumstances, viz. *Sex, Magnitude, Time of Flowering, Color, Scent, Taste, Virtues and Uses, Duration, Multitude, Pubescence, Leaves, and monstrous Flowers.* Of all which we shall treat in their Order.

The *SEX* of Plants in the Class *Dioecia* affords a Variety of all others the most natural; for the male and female Flowers in this Class being upon different Plants, these last are distinguished by the Fructification though the Species is the same in both. But it must be observed, that this Kind of Variety holds only in the Class *Dioecia*; for

in the Genera that belong to any of the hermaphrodite Classes, the same Circumstance, whenever it happens, becomes a specific Distinction: Thus in *Rumex*, which belongs to the Class *Hexandria*, the *Acetosa* and *Acetosella*, being *dioecious* Plants, that is, having their male and female Flowers on distinct Roots, these Species are thereby distinguished from the rest of the Genus.

MAGNITUDE is no specific Difference, but a Variety, being liable to Alteration from the Soil or Climate.

The *TIME* of flowering is a treacherous Mark of a distinct Species; and unless supported by other Distinctions, can only be considered as a Variety.

COLOR is found so changeable in the same Species, that it must be considered as a Variety only.

In *Flowers* the Color is most variable: as in *Tulipa*, *Hepatica*, *Cyanus*, *Campanula*, *Aquilegia*, *Viola*, *Galega*, *Fumaria*, and others, which it would be tedious to enumerate: The most usual Change is from *Blue* or *Red* to *White*. The trifling Distinctions which have been made by *Anthophili* (*Florists*) in some of the Genera we have here instanced, from the Colors of the Corollæ, and to which they have given such pompous Names

Names*, are held by *Linnæus* to be below the Notice of the true Botanist: and he warns him from catching the Infection of such idle Amusement.

Fruits are observed to change their Color as they ripen; the Pericarpium, when it is a Berry, changing from *Green* to *Red*, and from *Red* to *White*; and in ripe Fruits, the Color, whether *White*, *Red*, or *Blue*, admits of Variation; as in *Pyrus*, *Prunus*, *Cerasus*, and others †.

Seeds rarely vary in their Color; though there are Instances of it in *Papaver*, *Avena*, *Phaseolus*, *Pisum*, and *Faba* ‡.

* <i>Phæbus,</i>	<i>Triumphus Floræ,</i>
<i>Apollo,</i>	<i>Pompa Floræ,</i>
<i>Astræa,</i>	<i>Splendor Asiæ,</i>
<i>Dædalus,</i>	<i>Corona Europæ.</i>
<i>Cupido,</i>	<i>Gemma Hollandiæ.</i>

- † *Solanum Guineense fructu nigerrimo* (B.)
Solanum annuum baccis luteis (Dillen.)
Solanum Judaicum baccis aurantiis (Dillen.)
Rubus vulgaris major fructu albo (Raj.)
Ribes vulgare acidum albas baccas ferens (J. B.)
‡ *Papaver hortense nigro semine* (C. B.)
Papaver hortense semine albo (C. B.)
Avena vulgaris ♂ *alba* (C. B.)
Avena nigra (C. B.)
Phaseolus vulgaris fructu violaceo (Tournef.)
Phaseolus vulgaris fructu ex rubro et nigro variegato (Tour.)
Phaseolus fructu albo venis nigris et lituris distincto (Tour.)
Pisum maximum fructu nigra linea maculato (H. R. P.)
Pisum hortense flore fructuque variegato (C. B.)
Faba ex rubicundo colore purpurascente.

Roots are also little subject to Alteration in Color; yet a Variation is observed in the *Roots of Daucus and Raphanus* *.

Leaves are rarely found to quit their Green, but they are coloured in *Amaranthus*; and frequently become spotted; as in *Persicaria, Ranunculus, Orchis, Hieracium,* and *Laëtuca* †.

The *whole Plant* is often found to vary in its Color; as in *Eryngium, Abrotanum, Artemisia, Atriplex, Amaranthus, Portulaca,* and *Laëtuca* ‡.

* *Daucus sativus radice alba* (Tourn.)

Daucus sativus radice lutea (Tourn.)

Daucus sativus radice aurantii coloris (Tourn.)

Daucus sativus radice atro-rubente. (Tourn.)

Raphanus niger (C. B.)

† *Persicaria cum maculis ferrum equinum referentibus* (Tourn.)

Ranunculus hederaceus atra macula notatus.

Orchis palmata palustris maculata (C. B.)

Hieracium Alpinum maculatum (Tourn.)

Laëtuca maculosa (C. B.)

‡ *Eryngium latifolium planum caule ex viridi pallecente flore albo* (Tourn.)

Abrotanum cauliculis albicantibus (Tourn.)

Artemisia vulgaris major caule ex viridi albicante (Tou.)

Atriplex hortensis rubra (C. B.)

Amaranthus sylvestris maximus Novæ Angliæ spicis purpureis (Tourn.)

Portulaca sativa foliis flavis (Moris.)

Laëtuca capitata rubra B.

SCENT

SCENT in Plants is, of all other Circumstances, the least to be depended on; and therefore all Species grounded on a Distinction in the *Scent* only, are to be rejected, and referred to Varieties.

TASTE in Plants is a Circumstance variable from Soil or Culture; and not to be depended on as a real Difference. The Distinctions of Gardeners in Fruit of the same Species, is considered by *Linnaeus* as a Variety too minute even to enter the Province of Botany; and therefore the various Names *, which have been given to these Distinctions, are to be neglected as impertinent in this Science; though, for the Purposes of Gardening, they have their Use.

The *VIRTUES* and *USES* of Plants furnish no specific Difference; and the Distinctions therefore of physical Writers are not always to be depended on.

The *DURATION* of Plants is no sure Mark of distinct Species, being often owing rather to the Place than to the Nature of the Plant. In warm Regions, Plants that

* *Poma Paradisiaca*
Prasomila
Rubelliana
Borstorphiana
Appiana
Melimela

Pyra Falerna
Favonia
Boni Christiana
Crustamina
Picena
Libraria.

are

are *annual* with us will become *perennial* or *arborescent*; as is found in *Tropæolum*, *Beta*, *Majorana*, *Malva arborea*, &c. And on the contrary, cold Regions will occasion *Perennial* Plants to become *annual*; as is observed in *Ricinus*, *Mirabilis**, &c.

MULTITUDE or Quantity, is an accidental Circumstance in Plants, and cannot conclude any Thing, whether the Increase be of the *Plant* itself, or of its *Roots*, *Stems*, *Leaves*, or *Fruetification*.

PUBESCENCE is an uncertain Mark; as by Culture and Change of Soil, Plants are subject to lose as well their *Spines* as their *Hair* or *Down*.

LEAVES, though they for the most part furnish most elegant specific Differences, as has been observed in the last Chapter, are yet subject to Luxuriation in the same Species, which must be carefully distinguished. This may respect their *Opposition* and *Composition*, and also their being *crisp* (*curled*) or *bullate*, (*bladdery*).

In respect to *Opposition*, opposite Leaves will sometimes become *tern*, *quatern*, or *quine*, growing by *Threes*, *Fours*, or *Fives*; and then the Stem also from *quadrangular*,

* *Ricinus* and *Mirabilis*, are naturally *perennial* Plants, and are only killed by Frost in cold Countries.

square,

square, will become *polygonus*, of *many Sides**.

In respect to *Composition*, *digitate* Leaves will frequently gain an Addition of one or more *Folioles* †.

Crisp, *curled* Leaves are a very frequent Variety. In *Tanacetum*, *Mentha*, *Ocimum*, and *Matricaria*, which are scented Plants, there is this Singularity observable, that when the Leaves are curled, the Scent is heightened by the *Crispature* ‡.

Bullate, *bladdery* Leaves are generally produced from such as are *rugose*, *wrinkled*; and this is owing to the Increase of the Substance of the Leaf within its Vessels which occasions it to swell and rise: In the *Saponaria Concava Anglicana*, a *bullate*

* *Lysimachia lutea major foliis ternis* (Tourn.)

Lysimachia lutea major foliis quaternis (Tourn.)

Lysimachia lutea major foliis quinis (Tourn.)

Anagallis cærulea foliis binis ternisve ex adverso nascentibus (Raj.)

Anagallis Phœnicea foliis amplioribus ex adverso quaternis (Tourn.)

Salicaria trifolia caule Hexagono (Tourn.)

† *Trifolium quadrifolium hortense album* (C. B.)

‡ *Malva crispa* (J. B.)

Mentha crispa Danica (Park.)

Tanacetum foliis crispis (C. B.)

Matricaria Crispa.

Ocimum latifolium maculatum vel crispum (C. B.)

Leaf

Leaf is produced in a singular Manner from the Defect of Wrinkles; for here the Margin of the Leaf contracting itself, the Leaves become hollow like a Spoon*.

Plants are sometimes found to vary from *broad-leaved* to *narrow-leaved*; but this Variation is less frequent †.

MONSTROUS Flowers, such as the *Multiplicate*, *Full*, or *Proliferous*, derive their Origin from natural ones, and therefore are to be considered only as a Variety from *Luxuriance*.

Upon the whole, the *Change of Soil* is found to have a great Effect on the Nature of Plants; and to this many of the Varieties above mentioned must be imputed; as in *Buxus*, *Xanthium*, *Acanthus*, *Cinara*, *Prunella*, *Myosotis*, *Crista*, *Galli*, and *Cerin-*

* *Ocymum foliis bullatis* (C. B.)
Brassica undulata (Renealm.)
Laetuca capitata foliis magis rugosis (B.)
Laetuca capitata major foliis rugosis & contortis (B.)
Laetuca capitata omnium maxima verrucosa (B.)

† *Heracleum hirsutum foliis angustioribus* (C. B.)
Lycopus foliis in profundas lacinias incisus (Tourn.)
Brassica angusto apii folio (C. B.)
Veronica Austriaca foliis tenuissime laciniatis (Tourn.)
Sambucus laciniato folio (C. B.)
Sonchus asper laciniatus (C. B.)
Valeriana Sylvestris foliis tenuissime divisus (C. B.)

the;

*the**; which would all return to their old Conditions if the Soil were changed again. And in like Manner the Improvements which are made by Culture in the Plants cultivated for Sale, as in *Vitis*, *Malum*, *Pyrus*, *Amygdalus*, *Persica*, *Asparagus*, *Cerasus*, and in *Grain*, *Pulse*, and *Fruit* of all Kinds are not to be esteemed as lasting: for all these, if left to themselves in a poor Soil, would run off again, and resume the Qualities they had when they grew wild.

The *Soil* has some effect also upon *Leaves*; for though it is less common for the Leaves to differ on the same Plant, as they do in some Species of *Lepidium*, *Tithymalus*, *Rudbeckia*, and *Hibiscus*†; yet it is observed, that

* *Buxus arborescens* (C. B.) *Buxus humilis* (Dod.)
Xanthium (Dod.) *Xanthium Canadense majus* (Tourn.)
Acanthus mollis (C. B.) *Acanthus aculeatus* (C. B.)
Cinara aculeata (C. B.) *Cinara non aculeata* (C. B.)
Brunella (Dod.) *Brunella cæruleo magno flore* (C. B.)
Myosotis foliis hirsutis (H. C.) et *foliis glabris* (H. C.)
Crista galli fœmina (J. B.) et *mas.* (J. B.)
Cerinte flore ex rubro purpurascente (C. B.) et *flavo flore asperior* (C. B.)

† *Tithymalus heterophyllus* (Plum. Pluk. Alm. 112. f. 6.)
Rudbeckia foliis inferioribus trilobis, superioribus indivisis
 (Hort. Upsal.)
Hibiscus foliis inferioribus integris, superioribus trilobis
 (Hort. Cliff.)
Lepidium foliis caulinis pinnato-multifidis, rameis cordatis amplexicaulibus integris (H. C.)

watry Soils are apt to produce a Division in the lower Leaves of the Plant, and even to render capillary such as are produced under the Water; as in some Species of *Ranunculus* and *Sisymbrium**; and also in *Cicuta*, *Sium*, *Phellandrium*, *Oenanthe*, &c. And on the contrary, that *mountainous* Plants usually have their upper Leaves more divided, and their lower ones more entire; as in *Pimpinella*, *Petroselinum*, *Anisum*, and *Coriandrum*.

Varieties may generally be explained and reduced under their proper Species with Ease; by conferring the variable Marks of the Variety with the natural Plant: But there are some few which are attended with Difficulty, and require Judgment and Experience; as in some Species of *Helleborus* †, *Gentiana* ‡, *Fumaria* ||, *Valeriana* §, *Scorpiurus*,

* *Ranunculus aquaticus folio rotundo et capillaceo* (C. B.)
Sisymbrium foliis simplicibus dentatis serratis (H. G.)

† *Helleborus aconiti folio, fiore globofo croceo* (Amm. ruth. 101.) *Trollius humilis fiore patula* (Buxb. cent. 1. p. 15. l. 22.) *Varietas Hellebori Trollii.* (Fl. Succ. 475.)
Nectariis longitudine corollæ.

‡ *Gentiana corolla hypocrateri formi. Tubo villis clauso, calycis foliis alternis majoribus* (Fl. Lap. 94.) *Varietas gentianæ fauce barbata* (Fl. Succ. 203.) *fiore quadrifido et calycinis laciniis alternis duplo latioribus.*

|| *Fumaria bulbosa radice cava et non cava major et minor.*

§ *Valeriana arvensis præcox humilis, semine compresso* (T.)
Valeriana

*rus**, and *Medicago* †. In respect to the *Fumaria* in question, it is known to be one Species only, by the Minuteness of its Perianthium, the Scale of its Bud, the Structure of its Leaves, the Situation of the Branch, the Place of the Bractea, the Corolla, Siliqua, Seeds, and Stigma; but it varies in the Division of its Bractæ, and in the Root being more or less hollow. And that the *Valerians* here spoken of are all of the same Species, though they differ so greatly in the Fruit, and often in having their Leaves more cut, is also proved from their dichotomous Stems and annual Roots, and from the Structure of their Leaves, Corollæ, and Seeds. Nor should the Species of *Scorpiurus* and *Medicago* here instanced be either

- Valeriana arvensis præcox humilis, foliis serratis* (T.)
Valeriana arvensis serotina altior, semine turgidior (Mor.)
Valeriana semine umbilicato nudo rotundo (Moris.)
Valeriana semine umbilicato nudo oblongo (Moris.)
Valerianella semine umbilicato hirsuto majore (Moris.)
Valerianella semine umbilicato hirsuto minore (Moris.)
Valerianella Cretica, fructu vesicario (Tourn. Cor.)
Valerianella semine stellato (C. B.)

- * *Scorpioides siliqua campoide hispida* (F. B.)
Scorpioides siliqua cochleata & striata Ulissiponensis (T.)
Scorpioides Bupleuri folio siliquis levibus (Park.)
Scorpioides siliqua crassa. (Boëlii Ger.)

- † *Medicago leguminibus cochleatis, stipulis dentatis, caule diffuso* (H. C.)

S

of

of them parted, although there is so remarkable a Diversity in the Fruit of the Individuals. In the *Medicago** in particular, the Forms of the real Snails, which Nature has imitated in these Plants, are scarce more diversified than is the Fruit of this mimic Species; so that the Botanist, who is studious of Varieties, would hardly find any End to his Labour, of pursuing Nature through the various Shapes which she has so wantonly adopted.

The whole Order of the *Fungi*, to the Scandal of the Science, is still a Chaos, the Botanists not being yet able in these to decide with Certainty what is a Species, and what a Variety.

* <i>Medicago scutellata</i>	<i>Medicago hirsuta</i>
———— orbiculata	———— lupulina
———— echinata	———— spinosa
———— turbinata	———— rugosa
———— coronata	———— polycarpus
———— doliata	———— dicarpus
———— ciliaris	———— Arabica
———— tornata	———— Cretica.

Explanation

Explanation of the TABLES, with some Hints concerning the Manner of studying the Science of Botany by the Help of this Book.

THE first Table is divided into three Columns; the first of which contains the Names of the Genera admitted by *Linnaeus*, alphabetically disposed; the second, the *English* Names where there are any that have been commonly received; and the last, the Names of the Classes and Orders, to which the Genera respectively belong.

The second Table is likewise divided into three Columns; the first of which contains the generic Names that are now out of Use, alphabetically disposed; the second, the *English* Names that have been given to them; and the third, the names of the *Linnaean* Genera, under which they are respectively to be sought in the first Table.

By the Help of these Tables, the Reader will be enabled to find the Class and Order of any Plant he may propose to examine, after he has informed himself of its botanic Name: For if the Name given him be not the same admitted by the Author we have

followed, and consequently not to be met with in the first Table, he will probably find it in the second, which will refer him to the first.

By these Tables, properly used, in Conjunction with the Book itself, it is conceived, that the Reader may arrive not only at an Acquaintance with the Principles of the Science, but even at a practical Knowledge of the Distinctions of Vegetables, much sooner than he could by reading the Descriptions, and inspecting the Figures given by old Writers, whose Collections are either without Method, or disposed according to such Systems as have been exploded; for by what we have laid before him, he will be enabled to consult the Productions of Nature, and compare them with what is delivered in the Book; or, in other Words, to mix the Practice with the Theory; without which the Study of this Science would be dry and tasteless, and the Progress made in it of little Advantage. As we cannot but recommend this useful Amusement to the Reader in the strongest Manner, so we shall attempt to assist him farther, by a few Hints for the methodizing of his Endeavours.

The first thing he should aim at is, to get a thorough Knowledge of the Distinctions

tions of the twenty-four Classes. In order to this, the first Part of this Book should be previously perused, as the Parts of Fructification are therein explained; without which the Classes could not be understood. Then let him gather some of the ordinary Flowers, such as the Blossoms of the Fruit-garden or Kitchen-ground, or the ornamental Flowers of his Borders, and bring them by Turns into his Closet for Examination, chusing first the larger Kinds, and such as naturally expand and discover the Stamina and Pistillum; and when he has accustomed himself to know the Parts of Fructification in these easier Kinds, he may then try such as require being stript of their Covers, or dissected with a Penknife, to discover their inner Parts, or whose Minuteness requires the Assistance of a magnifying Glass for the observing them properly. The double Flowers should be avoided, as being unnatural. Having fixed on the Flower he would first examine, he will, by the Help of the Tables, be informed of the Class it belongs to; then turning to the Chapter of the second Part of the Book, which treats of that Class, let him carefully read over the Character there given of the Class, and compare his flower therewith; a frequent

Practice of this will soon make him retain the Names of the Classes, and their several Distinctions.

When he has arrived thus far, he may begin to try his Strength, by deciding always first himself upon the Class, before he turns to the Book; and he will be now qualified to begin the Study of the Orders, which he may pursue after the same Method as he did the Classes, finding the Orders out first by the Tables, reading their Characters, and comparing them with the Flower, till he has gained a clear Notion of their several Distinctions; after which he should in like manner attempt to declare the Order himself.

These Subdivisions also of the Orders, tho' they are not made Part of the systematic Distribution of Vegetables, are yet well worth his Attention; as in some of the extensive Orders it would be more troublesome to detect the Genus of any Flower, if the Genera contained in the Order were not parcelled out under such convenient Distinctions. By these Divisions, the Reader will be led to decide on any Plant within a very few Genera. And here we must take our Leave of him, and refer the rest of the Work to his own Industry; for though we have laid
down

down the Principles of both generic and specific Distinctions, the former in the second, and the latter in the third Part of this Work, yet it was impossible to include even the Characters of the Genera in a work of this Compass, much less to have entered upon an Enumeration or Description of the several Species.

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Several Species.

T A B L E I.

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Abroma		Polyadelphia, Pentandria
Abrus		Diadelphia, Decandria
Acalypha		Monoecia, Monadelphia
Acanthus	Bears Breech	Didynamia, Angiosper.
Acæna		Tetrandria, Monogynia
Acer	Maple	Polygamia, Monoecia
Achillea	Milfoil	Syngenesia, Polyg. sup.
Achras	Sapota	Hexandria, Monogynia
Achyranthes		Pentandria, Monogynia
Acnida		Dioecia, Pentandria
Aconitum	Wolfsbane	Polyandria, Trigynia
Acorus	Sweet Rush	Hexandria, Monogynia
Acrostichum	Forked Fern	Cryptogamia, Filices,
Actæa	Herb Christoper	Polyandria, Monogynia
Adansonia	Æthiopian Sourgourd	Monadelphia, Polyandr.
Adelia		Dioecia, Monadelphia
Adenantha	Bastard Flower-fence	Decandria, Monogynia
Adiantum	Maiden Hair	Cryptogamia, Filices
Adonis	Bird's Eye	Polyandria, Polygynia
Adoxa	Tuberous Moschatel, or hollow Root	Octandria, Tetragynia
Ægilops		Polygamia, Monoecia
Ægiphila		Tetrandria, Monogynia
Ægopodium	Herb Gerard, Gout- wort, or wild Angelica	Pentandria, Digynia
Ægopricon		Monoecia, Monandria
Æschynomene	Bastard sensitive Plant	Diadelphia, Decandria
Æsculus	Horse Chesnut	Heptandria, Monogynia
Æthusa	Lesser Hemlock, or Fools Parsley	Pentandria, Digynia
Agaricus	Agaric	Cryptogamia, Fungi
Agave	American Aloë	Hexandria, Monogynia
Ageratum	Bast. Hemp Agrimony	Syngenesia, Polyg. æqu.
Agrimonia	Agrimony	Dodecandria, Digynia
Agrostemma	Campion, or wild Lichnis	Decandria, Pentagynia
Agrostis	Bent Grass	Triandria, Digynia
Agyneja		Monoecia, Gynandria

GENERA.	ENGLISH NAMES.	CLASSES and ORDEKS.
Aira	Hair Grass	Triandria, Digynia
Aitonia		Monadelphia, Octandria
Ajuga	Bugle	Didynamia, Gymnosf.
Aizoon		Icosandria, Pentagynia
Albuca		Hexandria, Monogynia
Alcea	Hollyhock, or Rose-mallow	Monadelphia, Polyandr.
Alchemilla	Ladies Mantle	Tetrandria, Monogynia
Aldrovanda		Pentandria, Monogynia
Aletris	Bastard Aloë	Hexandria, Monogynia
Alisma	Water Plantain	Hexandria, Polygynia
Allamanda		Pentandria, Monogynia
Allionia		Tetrandria, Monogynia
Allium	Garlick	Hexandria, Monogynia
Allophyllus		Octandria, Monogynia
Aloë		Hexandria, Monogynia
Alopecurus	Foxtail Grass	Triandria, Digynia
Alpinia		Monandria, Monogynia
Alfina	Chickweed	Pentandria, Monogynia
Alltonia		Polyandria, Monogynia
Alstroemeria		Hexandria, Monogynia
Althæa	Marshmallow	Monadelphia, Polyandr.
Alyssum	Madwort	Tetradynamia, Siliculof.
Amaranthus	Amaranth, or Flower-gentle	Monoecia, Pentandria
Amaryllis	Lily Daffodil	Hexandria, Monogynia
Ambrosia		Monoecia, Pentandria
Ambrosina		Gynandria, Polyandria
Amellus		Syngenesia, Polyg. super.
Amethystea		Diandria, Monogynia
Ammannia		Tetrandria, Monogynia
Ammi	Bishop's Weed	Pentandria, Monogynia
Amomum	Ginger	Monandria, Monogynia
Amorpha	Bastard Indigo	Diadelphia, Decandria
Amygdalus	Almond, or Peach	Icosandria, Monogynia
Amyris		Octandria, Monogynia
Anabasis	Berry-bearing Grass-wort	Pentandria, Digynia
Anacardium	Cashew nut	Enneandria, Monogynia
Anacyclus		Syngenes. Polyg. superfl.
Anagallis	Pimpernel	Pentandria, Monogynia
Anagyris	Stinking Bean Trefoil	Decandria, Monogynia
Anastatica	Rose of Jericho	Tetradynamia, Siliculosa
Anchusa	Bugloss	Pentandria, Monogynia
		Ancistrum

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Ancistrum		Diandria, Monogynia
Andrachne	Bastard Orpine	Monoecia, Gynandria
Andromeda	Marsh Cistus	Decandria, Monogynia
Andropogon		Polygamia, Monoecia
Androsace		Pentandria, Monogynia
Andryala	Downy Sow-thistle	Syngenesia, Polyg. æqu.
Anemone	Wind Flower	Polyandria, Polygynia
Anethum	Dill	Pentandria, Digynia
Angelica		Pentandria, Digynia
Anguria		Monoecia, Diandria
Annona	Custard Apple	Polyandria, Polygynia
Anthemis	Chamomile	Syngenesia, Polyg. super.
Anthericum	Spider-wort	Hexandria, Monogynia
Anthistiria		Triandria, Digynia
Anthoceros		Cryptogamia, Algæ
Anthospermum	Amber Tree	Polygamia, Dioecia
Anthoxanthum	Vernal Grass	Diandria, Digynia
Antholyza		Triandria, Monogynia
Anthyllis	Kidney Vetch, or Lady's Finger	Diadelphia, Decandria
Antichorus		Octandria, Monogynia
Andidesma		Dioecia, Pentandria
Antirrhinum	Snap-Dragon, or Calves-Snout	Dydynamia, Angiosper.
Apactis		Dodecandria, Monogynia
Aphanes	Parsley-piert	Tetrandria, Digynia
Aphyllanthes		Hexandria, Monogynia
Aphyteja		Monadelphia, Triandria
Apium	Parsley	Pentandria, Digynia
Apluda		Polygamia, Monoecia
Apocynum	Dogs-bane	Pentandria, Digynia
Aponogeton		Heptandria, Tetragynia
Aquartia		Tetrandria, Monogynia
Aquilegia	Columbine	Polyandria, Pentagynia
Aquilicia		Pentandria, Monogynia
Arabis	Bastard Tower Mustard	Tetradynamia, Siliquosa
Arachis	Ground Nut	Diadelphia, Decandria
Aralia	Berry-bearing Angelica	Pentandria, Digynia
Arbutus	Strawberry-tree	Decandria, Monogynia
Arctium	Burdock	Syngenesia, Polyg. æqu.
Arctopus		Polygamia, Dioecia

GENERA,	ENGLISH NAMES,	CLASSES and ORDERS,
Arctotis		Syngenesia, Polyg. Necessaria
Arduina	Bastard Lycium	Pentandria, Monogynia
Areca	Areca Nut	Appendix, Palmæ
Arenaria	Sea Chickweed	Decandria, Trigynia
Arethusa		Gynandria, Diandria
Aretia		Pentandria, Monogynia
Argemone	Prickly Poppy	Polyandria, Monogynia
Argophyllum		Pentandria, Monogynia
Aristida		Triandria, Digynia
Aristotelia		Dodecandria, Monogynia
Aristolochia	Birthwort	Gynandria, Hexandria
Arnica		Syngenesia, Polyg. superflua
Arteria		Pentandria, Digynia
Artemisia	Mugwort	Syngenes. Polyg. superfl.
Artocarpus		Monoecia Monandria
Arum	Wake Robin, or Cuckow Pint	Gynandria, Polyandria.
Arundo	Reed	Triandria, Digynia
Afarum	Afarabacca	Dodecandria, Monogyn.
Aclepias	Swallow-wort	Pentandria, Digynia
Ascyrum	St. Peter's-wort	Polyadelphia, Polyandr.
Aspalathus	African Broom	Diadelphia, Decandria
Asparagus	Asparagus, or Spe rge	Hexandria, Monogynia
Asperugo	Wild Buglos, or Goose Grass	Pentandria, Monogynia
Asperula	Woodroof	Tetrandria, Monogynia
Asphodelus	Asphodel, or King's Spear	Hexandria, Monogynia
Asplenium	Spleen-wort, or Milt-waste	Cryptogamia, Filices
Aster	Star-wort	Syngenes. Polyg. superfl.
Astragalus	Liquorice Vetch, or Milk Vetch	Diadelphia, Decandria
Astrantia	Black Masterwort	Pentandria, Digynia
Astronium		Dioecia, Pentandria
Athamanta	Spignel	Pentandria, Digynia
Athanasia		Syngenesia, Polyg. æqu.
Atractylis	Distaff Thistle	Syngenes. Polyg. æqua.
Atragene		Polyandria, Polygynia
Atraphaxis		Hexandria, Digynia
Atriplex	Orach	Polygamia, Dioecia
Atropa	Deadly Nightshade	Pentandria, Monogynia
		Aucuba

T A B L E I. 269

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Aucuba		Monoecia, Tetrandria
Avena	Oats	Triandria, Digynia
Averrhoa		Decandria, Pentagynia
Avicennia		Didynamia, Angiosper
Axyris		Monoecia, Triandria
Ayenia		Gynandria, Pentandria
Azalea	American upright Ho- ney-suckle	Pentandria, Monogynia
B		
Baccharis	Plowman's Spikenard	Syngenefia Polyg. super.
Baeckea		Octandria, Monogynia
Ballota	Black Horehound	Didynamia, Gymnosper.
Baltimora		Syngenef. Polyg. Neces.
Banisteria		Decandria, Trigynia
Bankfia		Tetrandria, Monogynia
Barleria		Didynamia, Angiosper.
Barnadesia		Syngenefia Pol. Equalis
Barringtonia		Monadelphia, Polyandri.
Bartfia		Didynamia, Angiosper.
Bafella	Malabar Nightshade	Pentandria, Trigynia
Baffia		Dodecandria, Monogyn.
Batis		Dioecia, Tetrandria
Bauhinia	Mountain Ebony	Decandria, Monogynia
Befaria		Dodecandria, Monogyn.
Begonia		Monoecia, Polyandria
Bellium		Syngenef. Polyg. super.
Bellis	Daify	Syngenef. Polyg. super.
Bellonia		Pentandria, Monogynia
Berberis	Berberry, or Piperidge- Bush	Hexandria, Monogynia
Bergia		Decandria, Pentagynia
Bessleria		Didynamia, Angiosper
Beta	Beet	Pentandria, Digynia
Betonica	Betony	Didynamia, Gymnosper.
Betula	Birch	Monoecia, Triandria
Bidens	Water Hemp. Agrim.	Syngenef. Polyg. æqual.
Bignonia	Trumpet Flower	Didynamia, Angiosper.
Bifcutella	Buckler Mustard	Tetradynamia, Siliculof.
Biferrula		Diadelphia, Decandria
Bixa	Anotta	Polyandria, Monogynia
Bladhia		Pentandria, Monogynia
Blakea		Dodecandria, Monogyn.
Blafia		Cryptogamia, Algæ
Elaria		Tetrandria, Monogynia
		Blech-

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Blechnum		Cryptogamia, Filices
Blitum	Strawberry-Spinage, or Blise	Monandria, Digynia
Bobartia		Triandria, Digynia
Bocconia		Dodecandria, Monogyn:
Boerhaavia	American Hogweed	Monandria, Monogynia
Boletus		Cryptogamia, Fungi
Bombax	Silk Cotton Tree	Monadelpbia, Polyandr.
Bontia		Didynamia, Angiosper.
Borassus		Appendix, Palma
Borbonia		Diadelphia, Decandria
Borago	Borrage	Pentandria, Monogynia
Bosea	Yerva-mora, or Golden Rod Tree	Pentandria, Digynia
Brabejum	African Almond	Polygamia, Monoecia
Brassica	Cabbage	Tetradynamia, Siliquosa
Brathys		Polyandria, Pentagynia
Briza	Quaking Grass	Triandria, Digynia
Bromelia	Ananas, or Pine Apple	Hexandria, Monogynia
Bromus	Brome Grass	Triandria, Digynia
Brossæa		Appendix, Palmæ
Browallia		Didynamia, Angiosper
Brownæa		Monadelpbia, Enneand.
Brunia		Pentandria, Monogynia
Brunsfelsia		Pentandria, Monogynia
Brucea		Dioecia, Tetrandria
Bryonia	Bryony	Monoecia, Syngenesia
Bryum		Cryptogamia, Musci
Bubon	Macedonian Parsley	Pentandria, Digynia
Bucida		Decandria, Monogynia
Buchnera		Didynamia, Angiosper.
Buddleja		Tetrandria, Monogynia
Bufonia		Tetrandria, Digynia
Bulbocodium		Hexandria, Monogynia
Bumalda		Pentandria, Digynia
Bunias		Tetradynamia, Siliquosa
Bunium	Pig-nut, or Earth-nut	Pentandria, Digynia
Buphthalmum	Ox-eye	Syngenes. Polyg. superfl.
Bupleurum	Hare's ear	Pentandria, Digynia
Burmannia		Hexandria, Monogynia
Bursera		Hexandria, Monogynia
Butomus	Flowering Rush, or Water Gladiolus	Enneandria, Hexagynia
Buxbaumia		Cryptogamia, Musci Buxus

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Buxus	Box Tree	Monoecia, Tetrandria
Byssus		Cryptogamia, Algæ
Byttneria		Pentandria, Monogynia
C		
Cacalia	Alpine Colt's Foot	Syngenesia, Polyg. æqu.
Cactus	Melon Thistle	Icociandria, Monogynia
Cachrys		Pentandria, Digynia
Cæsalpinia	Brailetto	Decandria, Monogynia
Calea		Syngenes. Polyg. æqual.
Calendula	Marygold	Syngenes. Polyg. neces.
Calamus		Hexandria, Monogynia
Calceolaria		Diandria, Monogynia
Calycanthus	Virginian All-spice	Ifocandria, Polygynia
Calla	African Arum	Gynandria, Polyandria
Callicarpa	Johnsonia	Tetrandria, Monogynia
Calligonum		Polyandria, Digynia
Callisia		Triandria, Monogynia
Callitriche	Star-Headed Water-Chickweed	Monandria, Digynia
Calodendrum		Pentandria, Monogynia
Calophyllum		Polyandria, Monogynia
Caltha	Marsh Marygold	Polyandria, Polygynia
Cambogia		Polyandria, Monogynia
Camellia		Monadelpia, Polyand
Cameraria		Pentandria, Monogynia
Campanula	Bell-Flower	Pentandria, Monogynia
Camocladia		Triandria, Monogynia
Camphorosma		Tetrandria, Monogynia
Canarina		Hexandria, Monogynia
Canarium		Dioecia, Pentandria
Canella		Dodecandria, Monogyn
Canna	Indian Flowering Reed	Monandria, Monogynia
Cannabis	Hemp	Dioecia, Pentandria
Capparis	Caper Bush	Polyandria, Monogynia
Capraria		Didynamia, Angiosper.
Capficum	Guinea Pepper	Pentandria, Monogynia
Capura		Hexandria, Monogynia
Cardamine	Lady's Smock	Tetradynamia, Siliquosa
Cardiospermum	Heart Pea	Octandria, Trigynia
Carduus	Thistle	Syngenes. Polyg. æqualis
Carex		Monoecia, Triandria
		Carica

GENERA,	ENGLISH NAMES.	CLASSES and ORDERS.
Carica	Papaw	Dioecia, Decandria
Carissa		Pentandria, Monogynia
Carlina	Carlina Thistle	Syngenes. Polyg. æqua.
Carolinea		Monadelpia, Polyandr.
Caroxylon		Pentandria, Monogynia
Carpesium		Syngenesia, Polyg. super.
Carpinus	Hornbeam	Monoecia, Polyandria
Carthamus	Bastard Saffron	Syngenes. Polyg. æqu.
Carum	Carui, or Carraway	Pentandria, Digynia
Caryocar		Polyandria, Tetraginia
Caryophyllus	Clove Tree	Polyandria, Monogynia
Caryota		Appendix, Palmæ
Cassia	Wild Senna	Decandria, Monogynia
Cassine	Hottentot Cherry	Pentandria, Trigynia
Cassya		Enneandrea, Monogynia
Castilleja		Didynamia, Angiosper
Casuarina		Monoecia, Monandria
Catananche	Candy Lion's Foot	Syngenesia, Polyg. æqu.
Catesbæa	Lily Thorn	Tetrandria, Monogynia
Caturus		Dioecia, Pentandria
Caucalis	Bastard Parsley	Pentandria, Digynia
Ceanothus	New Jersey Tea	Pentandria, Monogynia
Cecropia		Dioecia, Diandria
Cedrela		Pentandria, Monogynia
Celastrus	Staff Tree	Pentandria, Monogynia
Celofia	Cock's Comb	Pentandria, Monogynia
Celfia		Didynamia, Angiosper.
Celtis	Nettle Tree	Polygamia, Monoecia
Cenchrus		Polygamia, Monoecia
Centaurea	Centuary	Syngenesia, Polyg. frustr.
Centella		Monoecia, Tetrandia
Centunculus		Tetrandia, Monogynia
Cephalanthus	Button Wood	Tetrandia, Monogynia
Cerastium	Mouse-Ear Chickweed	Decandria, Pentagynia
Ceratocarpus		Monoecia, Monandria
Ceratonia	Carob Tree, or St. John's Bread.	Polygamia, Polyoecia
Ceratophyl- lum	Horned Pond Weed	Monoecia, Polyandria
Cerbera		Pentandria, Monogynia
Cercis	Judas Tree	Decandria, Monogynia
Cerinthe	Honey-wort	Pentandria, Monogynia
Ceropegia		Pentandria, Monogynia
Cestrum	Bastard Jasmine	Pentandria, Monogynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Chærophyl- lum	Wild Chervil	Pentandria, Digynia
Calcas		Decandria, Monogynia
Chamærops	Dwarf-palm, or Palmeto	Appendix, Palmæ
Chamira		Tetradynamia, Siliquosa
Chara		Monoecia, Monandria
Cheiranthus	Stock July Flower	Tetradynamia, Siliquosa
Chelidonium	Celendine	Polyandria, Monogynia
Chelone		Didynamia, Angiosper.
Chenolea		Pentandria, Monogynia
Chenopodium	Goose Foot, or Wild Orach	Pentandria, Digynia
Cherleria		Decandria, Trigynia
Chiococca		Pentandria, Monogynia
Chionanthus	Snow-drop Tree, or Fringe Tree	Diandria, Monogynia
Chironia		Pentandria, Monogynia
Chlora		Octandria, Monogynia
Chondrilla	Gum Succory	Syngenes. Polyg. æqualis
Chrysanthe- mum	Corn Marigold	Syngenesia, Polyg. super- flua
Chrysitrix		Polygamia, Dioecia
Chryfobalanus	Cocoa Plum	Icosandria, Monogynia
Chryfocoma	Goldy Locks	Syngenes. Polyg. æqualis
Chryfogonum		Syngenes. Polyg. æqualis
Chryfophyl- lum	Star Apple	Pentandria, Monogynia
Chryfospleni- um	Golden Saxifrage	Decandria, Digynia
Cicca		Monoecia, Tetrandria
Cicer	Chich Peas	Diadelphia, Decandria
Cichorium	Succory, or Endive	Syngenesia, Polyg. æqua.
Cicuta	Water Hemlock	Pentandria, Digynia
Cimicifuga		Polyandria, Tetragynia
Chinchona		Pentandria, Monogynia
Cinna		Monandria, Digynia
Cineraria	Sky-Flower	Syngenesia, Polyg. super:
Circæa	Enchantersnightshade	Diandria, Monogynia
Cissampelos		Dioecia, Monadelphia
Cissus		Tetrandria, Monogynia
Cistus	Rock Rose	Polyandria, Monogynia
Citharexylon	Fiddle-Wood	Didynamia, Angiosper.
Citrus	Citron	Polyadelphia, Icosandria
Clathrus		Cryptogamia, Fungi

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Clavaria		Cryptogamia, Fungi
Claytonia		Pentandria, Monogynia
Clematis	Virgin's Bower	Polyandria, Polygynia
Cleome	Bastard Mustard	Tetradynamia, Siliquosa
Cleonia		Didynamia, Gymnosper.
Clerodendrum		Didynamia, Angiosper.
Clibadium		Monoecia, Pentandria
Clethra		Decandria, Monogynia
Cleyera		Polyandria, Monogynia
Cliffortia		Dioecia, Polyandria
Clinopodium	Field Basil	Didynamia, Gymnosper.
Clitoria		Diadelphia, Decandria
Clusia	Balsam Tree	Polygamia, Monoecia
Clutia		Dioecia, Gynandria
Clypeola	Treacle Mustard	Tetradynamia, Siliculosa
Cneorum	Widow wail	Triandria, Monogynia
Cnicus	Blessed Thistle	Syngenesia, Polyg. æqua.
Cochlearia	ScurvyGrass, or Spoon-wort	Tetradynamia, Siliculosa
Cocos	Cocoa-Nut	Palmae
Codia		Octandria, Digynia
Coccoloba		Octandria, Trigynia
Codon		Decandria, Monogynia
Coffea	Coffee-Tree	Pentandria, Monogynia
Coix	Job's Tears	Monoecia, Triandria
Colchicum	Meadow Saffron	Hexandria, Trigynia
Coldenia		Tetrandria, Tetragynia
Collinsonia		Diandria, Monogynia
Columnea		Didynamia, Angiosper.
Colutea	Bladder Senna	Diadelphia, Decandria
Comarum	Marsh Cinquefoil	Icosandria, Polygynia
Combretum		Octandria, Monogynia
Cometes		Tetrandria, Monogynia
Commelina		Triandria, Monogynia
Commerfonia		Pentandria, Pentagynia
Comocladia		Triandria, Monogynia
Conferva		Cryptogamia, Algæ
Conium	Hemlock	Pentandria, Digynia
Connarus		Monadelphia, Decandria
Conocarpus	Button-Tree	Pentandria, Monogynia
Convallaria	Lily of the Valley	Hexandria, Monogynia
Convolvulus	Bind weed	Pentandria, Monogynia
Conyza	Flea-bane	Syngenesia, Polyg. frustr.
Copaifera		Decandria, Monogynia
		Coprosma

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Coprosma		Pentandria, Digynia
Corchorus	Jew's Mallow	Polyandria, Monogynia
Cordia	Sibestan	Pentandria, Monogynia
Coreopsis	Tick-feeded Sunflower	Syngenesia, Polyg. frust.
Coriandrum	Coriander	Pentandria, Digynia
Coriaria	Myrtle leaved Sumach	Dioecia, Decandria
Coris	Heath low Pine	Pentandria, Monogynia
Corispermum	Tickfeed	Monandria, Digynia
Cornucopiæ		Triandria, Digynia
Cornus	Dogwood, or Cornelian Cherry	Tetrandria, Monogynia
Cornutia		Didynamia, Angiosper.
Coronilla	Jointed poded Coluta	Diadelphia, Decandria
Corrigiola		Pentandria, Trigynia
Cortufa	Bear's Ear Sanicle	Pentandria, Monogynia
Corylus	Hazel, or Nut Tree	Monoecia, Polyandria
Corymbium		Syngenesia, Monogamia
Corynocarpus		Pentandria, Monogynia
Corypha		Palmae
Costus		Monandria, Monogynia
Cotula		Syngenes. Polyg. superfl.
Cotyledon	Navel-wort	Decandria, Pentagynia
Crambe	Sea Cabbage	Tetradynamia, Siliquosa
Crameria		Tetrandria, Monogynia
Craneolaria		Didynamia, Angiosper.
Crassula	Lesser Orpine	Pentandria, Pentagynia
Cratægus	Wild Service	Icosandria, Digynia
Cratæva	Garlick Pear	Dodecandria, Monogyn.
Crepis	Bastard Hawkweed	Syngenesia, Polyg. æqual.
Crescentia	Calabash Tree	Didynamia, Angiosper.
Cressa		Pentandria, Digynia
Crinum	Afphodel Lily	Hexandria, Monogynia
Crithmum	Samphire	Pentandria, Digynia
Crocus	Saffron	Triandria, Monogynia
Crotalaria		Diadelphia, Decandria
Croton	Tallow-tree, or Bastard Ricinus	Monoecia, Monadelphia
Crucianella	Petty Madder	Tetrandria, Monogynia
Cruzita		Tetrandria, Digynia
Cucubalus	Berry-bearing Chick weed	Decandria, Trigynia
Cucumis	Cucumber	Monoecia, Syngenesia
Cucurbita	Gourd	Monoecia, Syngenesia
Cuminum	Cumin	Pentandria, Digynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDER.
Cunila		Diandria, Monogynia
Cunonia		Decandria, Digynia
Cupania		Monoecia, Monadelphia
Cupressus	Cypress	Monoecia, Monadelphia
Curatella		Polyandria, Digynia
Curcuma	Turmerick	Monandria, Monogynia
Cuscuta	Dodder	Tetrandria, Digynia
Cussonia		Pentandria, Digynia
Cyanella		Hexandria, Monogynia
Cycas	Sego Palm	Cryptogamia, Filices
Cyclamen	Sowbread	Pentandria, Monogynia
Cymbaria		Didynamia, Angiosper.
Cynanchum		Pentandria Digynia
Cynara	Artichoke	Syngenesia, Polyg. æqua
Cynoglossum	Hound's-Tongue	Pentandria, Monogynia
Cynometra		Decandria, Monogynia
Cynomorium		Monoecia, Monandria
Cynosurus	Dog's-tail Grass	Triandria, Digynia
Cyperus	English Galingale	Triandria, Monogynia
Cypripedium	Ladies Slipper	Gynandria, Diandria
Cyrilla		Pentandria, Monogynia
Cytinus		Gynandria, Dodecandria
Cytisus	Base Tree Trefoil	Diadelphia, Decandria

D

Dactylis	Cock's Foot Grass	Triandria, Digynia
Dais		Decandria, Monogynia
Dalbergia		Diadelphia, Octandria
Dalechampia		Monoecia, Monadelphia
Daphne	Mezereon, or Spurge-Laurel	Octandria, Monogynia
Datisca	Bastard Hemp	Dioecia, Dodecandria
Datura	Thorn Apple	Pentandria, Monogynia
Daucus	Carrot	Pentandria, Digynia
Decumaria		Dodecandria, Monogyn.
Delima		Polyandria, Monogynia
Delphinium	Larkspur	Polyandria, Trigynia
Dentaria	Tooth-wort	Tetradynamia, Siliquosa
Deutzia		Decandria, Trigynia
Dialium		Diandria, Monogynia
Dianthera		Diandria, Monogynia
Dianthus	Pink, or Carnation	Decandria, Digynia
Diapensia		Pentandria, Monogynia

Dictamnus

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Dictamnus	Fraxinella, or white Dittany	Decandria, Monogynia
Didelta		Syngenesia, Polyg. frustr
Digitalis	Fox-glove	Didynamia, Angiosper.
Dilatris		Triandria, Monogynia
Dillenia		Polyandria, Polygynia
Diodia		Tetrandria, Monogynia
Dionæa	Venus's Fly trap	Decandria, Monogynia
Dioscorea		Dioecia, Hexandria
Diosma	African Spirea	Pentandria, Monogynia
Diospyrus	Indian Date Plum	Polygamia, Dioecia
Dirca	Leather wood	Octandria, Monogynia
Dipsacus	Teazel	Tetrandria, Monogynia
Disa		Gynandria, Diandria
Difandra		Heptandria Monogynia
Dodartia		Didynamia, Angiosper.
Dodecas		Dodecandria, Monogynia
Dodecatheon	Meadia	Pentandria, Monogynia
Dodonæa		Octandria, Monogynia
Dolichos		Diadelphia, Decandria
Doræna		Pentandria, Monogynia
Dombeya		Didynamia, Angiosper.
Doronicum	Leopard's Bane	Syngenesia, Polyg. super.
Dorstenia	Conrayerva	Tetrandria, Monogynia
Draba	Whitlow-grafs	Tetradynamia, Siliquos.
Dracæna		Hexandria, Monogynia
Dracocephalum	Dragon's Head	Didynamia, Angiosper. mia
Dracontium	Dragons	Gynandria, Polyandria
Drosera	Sun-dew	Pentandria, Pentagynia
Dryandra		Monadelphia, Enneandr.
Dryas		Icosandria, Polygynia
Drypis		Pentandria, Trigynia
Duranta		Didynamia, Angiosper.
Durio		Polyadelphia, Polyandr.
Duroia		Hexandria, Monogynia

E

Ebenus	Ebony of Crete	Diadelphia, Decandria
Echinophora	Prickly Parsnip	Pentandria, Digynia
Echinops	Globe Thistle	Syngenesia, Polygamia segregata
Echites		Pentandria, Monogynia

T

Echinum

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Echium	Viper's Bugloss	Pentandria, Monogynia
Eclipta		Syngenesia, Polyg. super
Ehrharta		Hexandria, Monogynia
Ehretia		Pentandria, Monogynia
Ekebergia		Decandria, Monogynia
Elæagnus	Wild Olive	Tetrandria, Monogynia
Elæocarpus		Polyandria, Monogynia
Elais		Palmae
Elaeodendrum		Pentandria, Monogynia
Elate		Palmae
Elaterium		Monoecia, Monandria
Elatine	Water-wort	Octandria, Trigynia
Elephantopus	Elephant's Foot	Syngenesia, Polygamia, Segregata
Ellisia		Pentandria, Monogynia
Elymus		Triandria, Digynia
Embothrium		Tetrandria, Monogynia
Empetrum	Black-berried Heath, or Crow berries	Dioecia, Triandria
Epacris		Pentandria, Monogynia
Ephedra	Shrubby Horse-tail	Dioecia, Monadelphia
Epidendrum	Vanilla, or Vanelloe	Gynandria, Diandria
Epigæa	Trailing Arbutus	Decandria, Monogynia
Epilobium	Willow Herb, or French Willow	Octandria, Monogynia
Epimedium	Barren-wort	Tetrandria, Monogynia
Equisetum	Horse-tail	Cryptogamia, Filices
Eranthemum		Diandria, Monogynia
Erica	Heath	Octandria, Monogynia
Erigeron		Syngenes. Polyg. super.
Erinus		Didynamia, Angiosper.
Eriocaulon		Triandria, Trigynia
Eriocephalus		Syngenes. Polyg. neces.
Eriophorum		Triandria, Monogynia
Erithalis		Pentandria, Monogynia
Ervum	Bitter Vetch	Diadelphia, Decandria
Eryngium	Eryngo, or Sea Holly	Pentandria, Digynia,
Erysimum	Hedge Mustard	Tetradynamia, Siliquosa
Erythrina	Coral-tree	Diadelphia, Decandria
Erythronium	Dog's-tooth Violet	Hexandria, Monogynia
Erythoxylon		Decandria, Trigynia
Escallonia		Pentandria, Monogynia
Ethulia		Syngenes. Polyg. æqualis
Euclea		Dioecia, Dodecandria Eugenia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Eugenia		Icofandria, Monogynia
Evolvulus		Pentandria, Tetragynia
Euonymus	Spindle-tree	Pentandria, Monogynia
Eupatorium	Hemp Agrimony	Syngenes. Polyg. æqual.
Euphorbia	Burning Thorny Plant, or Spurge	Dodecandria, Trigynia
Euphrasia	Eyebright	Didynamia, Angiosper.
Eurya		Dodecandria Monogyn,
Exacum		Tetrandria, Monogynia
Excoecaria		Dioecia, Triandria
F		
Fagara		Tetrandria, Monogynia
Fagonia		Decandria, Monogynia
Fagus	Beech	Monoecia, Polyandria
Falkia		Hexandria, Digynia
Ferula	Fennel Giant	Pentandria, Digynia
Ferraria		Gynandria, Triandria
Festuca	Fescue Grass	Triandria, Digynia
Fevillea		Dioecia, Pentandria
Ficus	Fig	Polygamia, Polyoecia
Filago	Cotton Weed	Syngenesia, Polygamia necessaria
Flacourtia		Dioecia, Icofandria
Flagellaria		Hexandria, Trigynia
Fontinalis	Water Moss	Cryptogamia, Musci
Forskohlea		Decandria, Pentagynia
Forstera		Gynandria, Diandria
Fothergilla		Polyandria, Digynia
Fragaria	Strawberry	Icofandria, Polygynia
Frankenia		Hexandria, Monogynia
Fraxinus	Ash	Polygamia, Dioecia
Fritillaria	Fritillary	Hexandria, Monogynia
Fuchsia		Octandria, Monogynia
Fucus	Wrack, or Sea-weed	Cryptogamia, Algæ
Fuirena		Triandria, Monogynia
Fumaria	Fumitory	Diadelphia, Hexandria
Fufanus		Polygamia, Monoecia
G		
Gahnia		Hexandria, Digynia
Galanthus	Snow-drop	Hexandria, Monogynia
		Galax

GENERA,	ENGLISH NAMES.	CLASSES and ORDERS,
Galax		Pentandria, Monogynia
Galaxia		Monadelphia, Triandria
Galega	Goats Rue	Diadelphia, Decandria
Galenia		Octandria, Digynia
Galeopsis	Hedge Nettle	Didynamia, Gymnosper.
Galium	Lady's Bedstraw	Tetrandria, Monogynia
Galopina		Tetrandria, Digynia
Garcinia		Dodecandria, Monogyn
Gardenia	Cape Jasmine	Pentandria, Monogynia
Garidella	Fennel-Flower of Crete	Decandria, Trigynia
Gaultheria		Decandria, Monogynia
Gaura	Virginian Loofestribe	Octandria, Monogynia
Genipa		Pentandria, Monogynia
Genista	Single-seeded Broom	Diadelphia, Decandria
Gentiana	Gentian, or Fell-wort	Pentandria, Digynia
Geoffroya		Diadelphia, Decandria
Geranium	Crane's Bill	Monadelphia, Decandria
Gerardia		Didynamia, Angiosper.
Geropogon		Syngenesia, Polyg. æqua.
Gesneria		Didynamia, Angiosper.
Gethyllis		Dodecandria, Monogyn
Geum	Aven's, or Herb Bennet	Icosandria, Polygynia
Ginora		Doecandria, Monogyn.
Ginkgo		Planta Obscura
Gisokia		Pentandria, Pentagynia
Glabraria		Polyadelphia, Polyandr.
Gladiolus	Corn Flag	Triandria, Monogynia
Glaux	Sea Milk-wort, or Black Salt-wort	Pentandria, Monogynia
Glechoma	Ground Ivy, or Gill	Didynamia, Gymnosper,
Gleditsia	Three-thorned Acacia	Polygamia, Dioecia
Glinus		Dodecandria, Pentagyn.
Globba		Diandria, Monogynia
Globularia	Blue Daisy	Tetrandria, Monogynia
Gloriosa	Superb Lily	Hexandria, Monogynia
Gluta		Gynandria, Pentandria
Glycine	Carolina Kidney-bean- tree	Diadelphia, Decandria
Glycyrrhiza	Liquorice	Diadelphia, Decandria.
Gmelina		Didynamia, Angiosper.
Gnaphalium	Cudweed	Syngenesia, Polyg. super.
Gnetum		Monoecia, Monadelphia
Gnidia		Octandria, Monogynia
Gomozia		Tetrandria, Digynia Gom-

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Gomphrena	GlobeAmaranth	Pentandria, Digynia
Gonocarpus		Tetrandria, Monogynia
Gordonia		Monadelphia, Polyandr.
Gorteria		Syngenesia, Polyg. frustr.
Gossypium	Cotton	Monadelphia, Polyandr.
Gouania		Polygamia, Monoecia
Gratiola	Hedge Hyssop	Diandria, Monogynia
Grewia		Gynandria, Polyandria
Grias		Polyandria, Monogynia
Grielum		Decandria, Pentagynia
Grisea		Octandria, Monogynia
Gronovia		Pentandria, Monogynia
Guaiacum	Lignum Vitæ	Decandria, Monogynia
Guarea		Octandria, Monogynia
Guettarda		Monoecia, Heptandria
Guilandina	Bonduc, or Nickar-tree	Decandria, Monogynia
Gundelia		Syngenesia, Polygamia, segregata
Gunnera		Gynandria, Diandria
Gustavia		Monadelphia, Polyandr.
Gypsophila		Decandria, Digynia
H		
Hæmanthus	Blood Flower	Hexandria, Monogynia
Hæmatoxylum	Logwood	Decandria, Monogynia
Halefia,		Dodecandria, Monogyn.
Haleria	African Fly-honey- suckle	Didynamia, Angiosper.
Haloragis		Octandria, Tetragynia
Hamemelis	Witch Hazel	Tetrandria, Digynia
Hamellia		Pentandria, Monogynia
Hartogia		Tetrandria, Monogynia
Hasselquistia		Pentandria, Digynia
Hebenstretia		Didynamia, Angiosper.
Hedera	Ivy	Pentandria, Monogynia
Hedycaria		Dioecia, Polyandria
Hedyotis		Tetrandria, Monogynia
Hedysarum	French Honey suckle	Diadelphia, Decandria
Heisteria		Decandria, Monogynia
Helenium	Bastard Sunflower	Syngenesia, Polyg. super.
Helianthus	Sun-flower	Syngenesia, Polyg. frustr
Heliconia		Pentandria, Monogynia
Heliicteres	Skrew Tree	Gynandria, Decandria
Heliocarpus		Dodecandria, Digynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Heliophila		Tetradynamia, Siliquosa
Heliotropium	Turn-Sole	Pentandria, Monogynia
Helonias		Hexandria, Trigynia
Helleborus	Black Hellebore	Polyandria, Polygynia
Helvella		Cryptogamia, Fungi
Hemerocallis	Day Lily, or Lily of the Valley	Hexandria, Monogynia
Hemiontis	Mule's Fern	Cryptogamia, Filices
Hemimeris		Didynamia, Angiosper.
Heracleum	Cow Parsnep	Pentandria, Digynia
Hermannia		Monadelphia, Pentandr.
Hermas		Polygamia, Monoecia
Hernandia	Jack in a Box	Monoecia, Triandria
Herniaria	Rupture wort	Pentandria, Digynia
Hesperis	Dame's Violet, Rocket, or Queen's July Flow.	Tetradynamia, Siliquosa
Heuchera		Pentandria, Digynia
Hibiscus	Althea Frutex, or Syrian Mallow	Monadelphia, Polyandr.
Hieracium	Hawkweed	Syngenesia, Polyg. æqua.
Hillia		Hexandria, Monogynia
Hippia		Syngenesia, Polygamia, Necessaria
Hippocratea		Triandria, Monogynia
Hippocrepis	Horseshoe Vetch	Diadelphia, Decandria
Hippomane	Manchineel	Monoecia, Monadelphia
Hippophæ	Sea Buck-thorn	Dioecia, Tetrandria
Hippuris		Monandria, Monogynia
Hiræa		Decandria, Trigynia
Hirtella		Pentandria, Monogynia
Holcus	Indian Millet	Polygamia, Monoecia
Holotheum		Triandria, Trigynia
Hopea		Polyadelphia, Polyandr.
Hordeum	Barley	Triandria, Digynia
Horminum	Pyrenæan Clary	Didynamia, Gymnosper.
Hortonia	Water Milfoil, or Water Violet	Pentandria, Monogynia
Hovenia		Pentandria, Monogynia
Houstonia		Tetrandria, Monogynia
Houtuynia		Polyandria, Polygynia
Hudsonia		Dodecandria, Monogyn.
Hugonia		Monadelphia, Decandria
Humulus	Hop	Dioecia, Pentandria

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Hura	Sand Box-Tree	Monoecia, Monadelphia
Hyacinthus	Hyacinth	Hexandria, Monogynia
Hydnum		Cryptogamia, Fungi
Hydrangea		Decandria, Monogynia
Hydrastis	Yellow Root	Polyandria, Polygynia
Hydrocharis	Frog's-bit	Dioecia, Enneandria
Hydrocotyle	Water Naval-wort	Pentandria, Digynia
Hydrolea		Pentandria, Digynia
Hydrophylax		Tetrandria, Monogynia
Hydrophyl- lum	Water Leaf	Pentandria, Monogynia
Hymenæa	Locust-tree, or Courbaril	Decandria, Monogynia
Hyobanche		Didynamia, Anjiosper.
Hyoscyamus	Henbane	Pentandria, Monogynia
Hyoferis		Syngenesia, Polyg. æqu.
Hypecoum		Tetrandria, Digynia
Hypericum	St. John's Wort	Polyadelphia, Polyand.
Hypnum		Cryptogamia, Musci
Hypochæris		Syngenesia. Polyg æqu.
Hypoxis		Hexandria, Monogynia
Hyssopus	Hyssop	Didynamia, Gymnosper
I		
Jacquinia		Pentandria, Monogynia
Jambolifera		Octandria, Monogynia
Jasione	Sheep Scabious	Syngenesia, Monogamia
Jasminum	Jasmine	Diandria, Monogynia
Jatropha	Cassava	Monoecia, Monadelphia
Iberis	Candy Tuft, or Sciatic Cress	Tetradynamia, Silicu- lofa
Ignatia		Pentandria, Monogynia
Ilex	Holly	Tetrandria, Tetragynia
Illecebrum	Mountain Knot Grass	Pentandria, Monogynia
Illicium		Polyandria, Polygynia
Impatiens	Balsam, or Female Bal- samine	Syngenesia, Monogamia
Imperatoria	Masterwort	Pentandria, Digynia
Indigofera	Indigo	Diadelphia, Decandria
Inocarpus		Decandria, Monogynia
Inula	Elacampane	Syngenesia, Polyg. super.
Ipomoea	Quamoclit	Pentandria, Monogynia
Irefine		Dioecia, Pentandria
Iris	Flower de Luce	Triandria, Monogynia
Isatis	Woad	Tetradynamia, Siliquosa Ischæmum

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Ischæmum		Polygamia, Monoecia
Isnardia		Tetrandria, Monogynia
Isoëtis		Cryptogamia, Filices
Isopyrum		Polyandria, Polygynia
Itea		Pentandria, Monogynia
Iva	Jesuits Bark Tree	Monoecia, Pentandria
Juglans	Wallnut	Monoecia, Polyandria
Juncus	Rush	Hexandria, Monogynia
Jungermannia		Cryptogamia, Algæ
Jungia		Syngenes. Polyg. segreg.
Juniperus	Juniper	Dioecia, Monadelphia
Jussieua		Decandria, Monogynia
Justicia	Malabar Nut	Diandria, Monogynia
Ixia		Triandria, Monogynia
Ixora		Tetrandria, Monogynia
K		
Kalmia	Dwarf American Laurel	Decandria, Monogynia
Kæmpferia		Monandria, Monogynia
Kiggelaria		Dioecia, Decandria
Kleinhovia		Gynandria, Decandria
Knautia		Tetrandria, Monogynia
Knoxia		Tetrandria, Monogynia
Koenigia		Triandria, Trigynia
Krameria		Tetrandria, Monogynia
Kunhia		Pentandria, Monogynia
Kyllinga		Triandria, Monogynia
L		
Lachenalia		Hexandria, Monogynia
Lachnæa		Octandria, Monogynia
Lactuca	Lettuce	Syngenesia, Polyg. æqu.
Laetia		Polyandria, Monogynia
Lagerstroemia		Polyandria, Monogynia
Lagoecia	Bastard Cumin	Pentandria, Monogynia
Lagurus	Hare's Tail Grass	Triandria, Digynia
Lamium	Dead Nettle, or Archangel	Didynamia, Gymnosper.
Lantana	American Viburnum	Didynamia, Angiosper.
Lapsana	Nipple-wort	Syngenesia, Polyg. æqu.
Laserpitium	Lasert-wort	Pentandria, Digynia
Lathræa		Didynamia, Angiosper.
Lathyrus	Chichling Vetch	Diadelphia, Decandria
Lavendula	Lavender	Didynamia, Angiosper.
Lavatera		Monadelphia Polyand. Laugieria

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Laugieria		Pentandria, Monogynia
Laurus	Bay	Enneandria, Monogynia
Lawsonia		Octandria, Monogynia
Leea		Monoecia, Pentandria
Lechea		Triandria Trigynia
Lecythis		Polyandria, Monogynia
Ledum	Marsh Cistus, or wild Rosemary	Decandria, Monogynia
Lemna	Duck Meat	Monoecia, Diandria
Leontice	Lion's Leaf	Hexandria, Monogynia
Leontodon	Dandelion	Syngenes. Polyg. æqualis
Leonurus	Lion's Tail	Didynamia, Gymnosper.
Lepidium	Dittander, or Pepper- wort	Tetradynamia, Siliculosa
Lerchea		Monadelphia, Pentandr.
Leucojum	Greater Snow-drop	Hexandria, Monogynia
Leyfera		Syngenes. Polyg. superfl.
Lichen	Liver-wort	Cryptogamia, Algæ
Licuala		Hexandria, Monogynia
Ligusticum	Lovage	Pentandria, Digynia
Ligustrum	Privet	Diandria, Monogynia
Lilium	Lily	Hexandria, Monogynia
Limeum		Heptandria, Digynia
Limodorum		Gynandria, Diandria
Limonia		Decandria, Monogynia
Limofella	Least Water Plantain	Didynamia, Angiosper.
Lindernia		Didynamia, Angiosper.
Linconia		Pentandria, Digynia
Lindera		Hexandria, Monogynia
Linnaea		Didynamia, Angiosper.
Linum	Flax	Pentandria, Pentagynia
Liparia		Diadelphia, Decandria
Lippia		Didynamia, Angiosper.
Liquidamber	Sweet Gum	Monoecia, Polyandria
Liriodendrum	Tulip Tree	Polyandria, Polygynia
Lisianthus		Pentandria, Monogynia
Lithospermum	Gromwell	Pentandria, Monogynia
Littorella		Monoecia, Tetrandria
Lobelia	Cardinal Flower	Syngenesia, Monogamia
Loeflingia		Triandria, Monogynia
Loefelia		Didynamia, Angiosper.
Lolium	Darnel, or Rye-grass	Triandria, Digynia
Lonchites	Rough Spleen-wort	Cryptogamia, Filices
Lonicera	Honeysuckle	Pentandria, Monogynia
Loofa		Polyandria, Monogynia
		Loranthus

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Loranthus		Hexandria, Monogynia
Lotus	Bird's Foot Trefoil	Diadelphia, Decandria
Ludwigia		Tetrandria, Monogynia
Lunaria	Moon-wort, Sattin Flower, or Honesty	Tetradynamia, Siliculof.
Lupinus	Lupine	Diadelphia, Decandria
Lychnis	Campion	Decandria, Pentagynia
Lycium	Box-thorn	Pentandria, Monogynia
Lycoperdon		Cryptogamia, Fungi
Lycopodium	Wolf's Claw Moss	Cryptogamia, Musci
Lycopsis		Pentandria, Monogynia
Lycopus	Water Horehound	Decandria, Monogynia
Lygeum	Hooded Matweed	Triandria, Monogynia
Lyfimachia	Loofestrife	Pentandria, Monogynia
Lythrum	Willow Herb	Dodecandria, Monogyn
M		
Maba		Dioecia Triandria
Macrocnemum		Pentandria, Monogynia
Magnolia	Laurel-leaved Tulip-tree	Polyandria, Polygynia
Mahernia		Pentandria, Pentagynia
Malachra		Monadelphia, Polyandr.
Malope	Bastard Mallow	Monadelphia, Polyandr.
Malpighia	Barbadoes Cherry	Decandria, Trigynia
Malva	Mallow	Monadelphia, Polyandr.
Mammea	Mammee	Polyandria, Monogynia
Manettia		Tetandria, Monogynia
Mangifera	Mango-tree	Pentandria, Monogynia
Manisuris		Polygamia, Monoecia
Manulea		Didynamia, Angiosper.
Maranta	Indian Arrow-root	Monandria, Monogynia
Marcgravia		Polyandria Polygynia
Marchantia		Cryptogamia Algæ
Margaritaria		Dioecia, Enneandria
Marrubium	Horehound	Didynamia, Gymnosper.
Marfilea		Cryptogamia, Filices
Martynia		Didynamia, Angiosper.
Maffonia		Hexandria, Monogynia
Matricaria	Feverfew	Syngenes. Polyg. super.
Matthiola		Appendix
Mauritia		Appendix
Medeola	Climbing African Asparagus	Hexandria, Trigynia

Medicago

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Medicago	Snail and Moon Trefoil	Diadelphelia, Decandria
Melaleuca		Polyadelphia, Polyandr.
Melampodium		Syngenesia, Polygamia necessaria
Melampyrum	Cow-wheat	Didynamia, Angiosper.
Melanthium		Hexandria, Trigynia
Melastoma	American Gooseberry	Decandria, Monogynia
Melia	Bead-tree	Decandria, Monogynia
Melianthus	Honey Flower	Didynamia, Angiosper.
Melica		Triandria, Digynia
Melicocca		Octandria, Monogynia
Melissa	Baum	Didynamia, Gymnosper.
Melittis	Baum-leaved Archangel or Bastard Baum	Didynamia, Gymnosper.
Melochia		Monadelphia, Pentandr.
Melondinus		Pentandria, Digynia
Melotheria	Small creeping Cucumber	Triandria, Monogynia
Memecylon		Octandria, Monogynia
Menais		Pentandria, Monogynia
Menispermum	Moon Seed	Dioecia, Dodecandria
Mentha	Mint	Didynamia, Gymnosper.
Mentzelia		Polyandria, Monogynia
Menyanthes	Bog-bean, or Marsh Trefoil	Pentandria, Monogynia
Mercurialis	Mercury	Dioecia, Enneandria
Mesembryanthemum	Fig Marygold	Icosandria, Pentagynia
Messerschmidia		Pentandria, Monogynia
Mespilus	Medlar	Icosandria, Pentagynia
Mesua	Indian Rose Chesnut	Monadelphia Polyandria
Michelia		Polyandria, Polygynia
Micropus	Bastard Cudweed	Syngenes. Polyg. neces.
Milium	Millet	Triandria, Digynia
Milleria		Syngenes. Polyg. neces.
Millingtonia		Didynamia, Angiosper.
Mimosa	Sensitive Plant	Polygamia, Monoecia.
Mimulus	Monkey Flower	Didynamia, Angiosper.
Mimusops		Octandria, Digynia
Minuartia		Triandria, Trigynia
Mirabilis	Marvel of Peru	Pentandria, Monogynia
Mitchella		Tetrandria, Monogynia Mitella

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Mitella	Bastard American Sanicle	Decandria, Digynia
Mniarum		Monandria, Digynia
Mnium		Cryptogamia, Musci
Mœhringia	Mountain Chickweed	Octandria, Digynia
Mollugo		Triandria, Trigynia
Moluccella	Molucca Baum	Didynamia, Gymnosper
Momorica	Male Balsam Apple	Monoecia, Syngenesia
Monarda	Oswego Tea	Diandria, Monogynia
Monetia		Tetrandria, Monogynia
Monnieria		Diadelphia, Pentandria
Monotropa		Decandria, Monogynia
Monsonia		Polyadelphia, Dodecand
Montia	Blinks	Triandria, Trigynia
Montinia		Dioecia, Tetrandria
Moræa		Triandria, Monogynia
Morina		Diandria, Monogynia
Morinda		Pentandria, Monogynia
Morisonia		Polyandria, Monogynia
Morus	Mulberry Tree	Monoecia, Tetrandria
Mucor		Cryptogamia, Fungi
Mullera		Diadelphia, Decandria
Munchhausia		Polyadelphia, Polyandr.
Muntingia		Polyandria, Monogynia
Murraya		Decandria, Monogynia
Musa	Plantain-tree	Polyandria, Monoecia
Mussaenda		Pentandria, Monogynia
Mutisia		Syngenesia, Polyg. super
Myagrurn	Gold of Pleasure	Tetradynamia, Siliculosa
Myginda		Tetrandria, Tetragynia
Myofotis	Moufe-ear Scorpion- grafs	Pentandria Monogynia
Myofurus	Moufe-tail	Pentandria, Monogynia
Myrica	Candleberry Myrtle- Gale, or Sweet Willow	Dioecia, Tetrandria
Myriophyl- lum	Water Milfoil	Monoecia, Polyandria
Myrosma		Monandria, Monogynia
Myrsine	African Box-tree	Pentandria, Monogynia
Myroxylon		Decandria, Monogynia
Myrtus	Myrtle	Icofandria, Monogynia
Myristica		Polyandria, Monogynia

GENERA. ENGLISH NAMES. CLASSES and ORDERS.

N

Najas		Dioecia, Monandria
Nama		Pentandria, Digynia
Nandina		Hexandria, Monogynia
Napæa		Dioecia, Monadelphia
Narcissus	Daffodil	Hexandria, Monogynia
Nardus		Triandria, Monogynia
Nauclea		Pentandria, Monogynia
Nepenthes		Gynandria, Tetrandria
Nepeta	Catmint, or Nep	Didynamia, Gymnosper.
Nephelium		Monoecia, Pentandria
Nerium	Oleander, or Rose Bay	Pentandria, Monogynia
Neurada		Decandria, Decagynia
Nicotiana	Tobacco	Pentandria, Monogynia
Nigella	Fennel Flower, or Devil in a Bush	Polyandria, Pentagynia
Nigrina		Pentandria, Monogynia
Nipa		Monoecia, Monandria
Nissolia		Diadelphia, Decandria
Nitraria		Dodecandria, Monogyn.
Nolana		Pentandria, Monogynia
Nyctanthès	Arabian Jasmine	Diandria, Monogynia
Nymphæa	Water Lily	Polyandria, Monogynia
Nyssa	Tupelo Tree	Polygamia, Dioecia

O

Obolaria		Didynamia, Angiosper.
Ochna		Polyandria, Monogynia
Ocimum	Basil	Didynamia, Gymnosper.
Oedera		Syngenesia, Polygamia, segregata
Oenanthe	Water Drop-wort	Pentandria, Digynia
Oenothera	Tree Primrose	Octandria, Monogynia
Olax		Triandria, Monogynia
Oldenlandia		Tetrandria, Monogynia
Olea	Olive	Diandria, Monogynia
Olyra		Monoecia, Triandria
Omphalea		Monoecia, Triandria
Onoclea	Sensible Polypody	Cryptogamia, Filices
Ononis	Rest Harrow	Diadelphia, Decandria
Onopordum	Woolly Thistle	Syngenesia, Polygæqua.
Onosma		Pentandria, Monogynia
Ophioglossum	Adder's Tongue	Cryptogamia, Filices

U

Ophior-

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Ophiorrhiza	Serpent's Tongue	Pentandria, Monogynia
Ophioxylon		Polygamia, Monoecia
Ophira		Octandria, Monogynia
Ophrys	Twyblade	Gynandria, Diandria
Orchis		Gynandria, Diandria
Origanum	Wild Marjorum	Didynamia, Gymnosper.
Orixa		Tetrandria, Monogynia
Ornithogalum	Star of Bethlem	Hexandria, Monogynia
Ornithopus	Bird's Foot	Diadelphia, Decandria
Orobanche	Broom Rape	Didynamia, Angiosper.
Orobus	Bitter Vetch	Diadelphia, Decandria
Orontium	Floating Arum	Hexandria, Monogynia
Ortegia		Triandria, Monogynia
Oryza	Rice	Hexandria, Digynia
Osbeckia		Octandria, Monogynia
Osmites		Syngenesia, Polyg. frustr.
Osmunda	Osmund Royal, or Flow- ering Fern	Cryptogamia, Filices
Osteospermum	Hard seeded Chrysan- themum	Syngenesia, Polygamia necessaria
Osyris	Poet's Cassia	Dioecia, Triandria
Othera		Tetrandria, Monogynia
Othonna	African Ragwort	Syngenesia, Polyg. neces.
Ovieda		Didynamia, Angiosper.
Oxalis	Wood Sorrel	Decandria, Pentagynia

P

Pæderota		Diandria, Monogynia
Pæderia		Pentandria, Monogynia
Pæonia	Pæony	Polyandria, Digynia
Pallasia		Dodecandria, Trigynia
Panax	Ginseng	Polygamia, Dioecia
Pancratium	Sea Daffodil	Hexandria, Monogynia
Pandanus		Dioecia, Monandria
Panicum	Panic Grass	Triandria, Digynia
Papaver	Poppy	Polyandria, Monogynia
Parietaria	Pellitory	Polygamia, Monoecia
Paris	Herb True-love, or One Berry	Octandria, Tetragynia
Parkinsonia		Decandria, Monogynia
Parnassia	Glass of Parnassus	Pentandria, Tetragynia
Parthenium	Bastard Feverfew	Monoecia, Pentandria
Paspalum		Triandria, Digynia

Passe-

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Pafferina	Sparrow-wort	Octandria, Monogynia
Passiflora	Passion Flower	Gynandria, Pentandria.
Pastinaca	Parsnep	Pentandria, Digynia
Patagonula		Pentandria, Monogynia
Pavetta		Tetrandria, Monogynia
Paulinia		Octandria, Trigynia
Pectis		Syngenesia, Polyg. super.
Pedaliium		Didynamia, Angiosper.
Pedicularis	Rattle Coxcomb, or Louse-wort	Didynamia, Angiosper.
Peganum	Wild Syrian Rue	Dodecandria, Monogyn.
Peltaria		Tetradynamia, Siliculosa
Penæa		Tetrandria, Monogynia
Pentapetes		Monadelphia, Dodecand.
Penthorum		Decandria, Pentagynia
Peplis	Water Purflane	Hexandria, Monogynia
Perdicium		Syngenesia, Polyg. super.
Perilla		Didynamia, Gymnosper.
Periploca	Virginian Silk	Pentandria, Digynia
Pergularia		Pentandria, Monogynia
Petesia		Tetrandria, Monogynia
Petiveria	Guinea-hen Weed	Hexandria, Tetragynia
Petrea		Didynamia, Angiosper.
Peucedanum	Hog's Fennel, or Sul- phur-wort	Pentandria, Digynia
Peziza	Cup Mushroom	Cryptogamia, Fungi
Phaca	Bastard Milk Vetch	Diadelphia, Decandria
Phalaris	Canary Grass	Triandria, Trigynia
Phallus	Stink-horns	Cryptogamia, Fungi
Pharnaceum		Pentandria, Trigynia
Pharus		Monoecia, Hexandria
Phascum		Cryptogamia, Musci
Phaseolus	Kidney-bean	Diadelphia, Decandria
Phellandrium		Pentandria, Digynia
Philadelphus	Mock Orange	Icosandria, Monogynia
Phillyrea	Mock Privet	Diandria, Monogynia
Phleum	Cat's-tail Grass	Triandria, Digynia
Phlomis	Jerusalem Sage	Didynamia, Gymnosper.
Phlox	Lychnidea, or bastard Lychnis	Pentandria, Monogynia
Phoenix	Common Palm, or Date Palmæ Tree	
Phormium		Hexandria, Monogynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Phryma		Didynamia, Gymnosper.
Phylica	Bastard Alaternus	Pentandria, Monogynia
Philianthus	Sea-side Laurel	Monoecia, Triandria
Phyllachne		Monoecia, Monandria
Phyllis	Bastard Hare's-ear	Pentandria, Digynia
Phyfalis	Alkekengi, or Winter Cherry	Pentandria, Monogynia
Phyteuma	Rampions	Pentandria, Monogynia
Phytolacca	American Nightshade	Decandria, Decagynia
Picris		Syngenesia, Polyg. æqua.
Pilularia	PepperGrass	Cryptogamia, Filices
Pimpinella	Burnet Saxifrage	Pentandria, Digynia
Pinguicula	Butter-wort	Diandria, Monogynia
Pinus	Pine Tree	Monoecia, Monadelphia
Piper	Pepper	Diandria, Trigynia
Piscidia		Diadelphia, Decandria
Pistacia	Pistacia Nut	Dioecia, Pentandria
Pisonia	Fingrigo	Polygamia, Dioecia
Pistia		Gynandria, Hexandria
Pisum	Pea	Diadelphia, Decandria
Plantago	Plantain	Tetrandria, Monogynia
Platanus	Plane Tree	Monoecia, Polyandria
Plectronia		Pentandria, Monogynia
Plinia		Polyandria, Monogynia
Plukenetia		Monoecia, Monadelphia
Plumbago	Lead-wort	Pentandria, Monogynia
Plumeria	Red Jasmine	Pentandria, Monogynia
Poa		Triandria, Digynia
Podophyllum	Duck's-Foot, or May Apple	Polyandria, Monogynia
Poinciana	Barbadoesflowerfence	Decandria, Monogynia
Polemonium	Greek Valerian	Pentandria, Monogynia
Polyanthes	Tuberose	Hexandria, Monogynia
Polia		Hexandria, Monogynia
Polycarpon		Triandria, Trigynia
Polycnemum		Triandria, Monogynia
Polygala	Milk-wort	Diadelphia, Octandria
Polygonum	Knot-grass	Octandria, Trigynia
Polymnia		Syngenesia, Polyg. neces.
Polypodium	Polypody	Cryptogamia, Filices
Polypreum	Carolina Flax	Tetrandria, Monogynia
Polytrichum	Golden Maiden-hair	Cryptogamia, Musci
Pommereulla		Triandria, Monogynia
Pontederia		Hexandria, Monogynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Populus	Poplar	Dioecia, Octandria
Porana		Pentandria, Monogynia
Porella		Cryptogamia, Musci
Portlandia		Pentandria, Monogynia
Portulaca	Purflane	Dodecandria, Monogyn.
Potamogiton	Pond-weed	Tetrandria, Tetragynia
Potentilla	Cinquefoil	Icofandria, Polygynia
Poterium	Burnet	Monoecia, Polyandria
Pothos		Gynandria, Polyandria
Prasium	Shrubby Hedge-Nettle	Didynamia, Gymnosper.
Prenanthes	Wild Lettuce	Syngenesia, Polyg. æqua.
Premna		Didynamia, Angiosper.
Primula	Primrose	Pentandria, Monogynia
Prinos	Winter Berry	Hexandria, Monogynia
Prockia		Polyandria, Monogynia
Proserpinaca		Triandria, Trygynia
Profopis		Decandria, Monogynia
Protea	Silver-tree	Tetrandria, Monogynia
Prunella	Self heal	Didynamia, Gymnosper.
Prunus	Plum-tree	Icofandria, Monogynia
Pfidium	Guayava, or Bay Plum	Icofandria, Monogynia
Pforalea		Diadelphia, Decandria
Pfychotria		Pentandria, Monogynia
Ptelea	Shrub Trefoil	Tetrandria, Monogynia
Pteris	Brakes, or Female Fern	Cryptogamia, Filices
Pterocarpus		Diadelphia, Decandria
Pteronia		Syngenesia, Polyg. æqua.
Pulmonaria	Lung-wort	Pentandria, Monogynia
Punica	Pomegranate	Icofandria, Monogynia
Pyrola	Winter Green	Decandria, Monogynia
Pyrus	Pear	Icofandria, Pentagynia

Q

Quassia		Decandria, Monogynia
Quercus	Oak	Monoecia, Polyandria
Queria		Tetrandria, Trigynia
Quisqualis		Decandria, Monogynia

R

Rajania		Dioecia, Hexandria
Randia		Pentandria, Monogynia
Ranunculus	Crowfoot	Polyandria, Polygynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Raphanus	Radish	Tetradynamia, Siliquosa
Rauvolfia		Pentandria, Monogynia
Reaumuria		Polyandria, Pentagynia
Renealmia		Monandria, Monogynia
Refeda	Bastard Rocket	Dodecandria, Trigynia
Restio		Dioecia, Triandria
Retzia		Pentandria, Monogynia
Rhacoma		Tetrandria, Monogynia
Rhamnus	Buckthorn	Pentandria, Monogynia
Rheedia		Polyandria, Monogynia
Rheum	Rhubarb	Enneandria, Trigynia
Rhexia		Octandria, Monogynia
Rhinanthus	Elephant's Head	Didynamia, Angiosper.
Rhizophora	Candle of the Indians	Dodecandria, Monogyn.
Rhodiola	Rose Root	Dioecia, Octandria
Rhododendron	Dwarf Rose-bay	Decandria, Monogynia
Rhus	Sumach	Pentandria, Trigynia
Ribes	Currant Tree	Pentandria, Monogynia
Riccia	Marsh Liver-wort	Cryptogamia, Algæ
Richardia		Hexandria, Monogynia
Ricinus	Palma Christi	Monoecia, Monadelphia
Ricotia		Tetradynamia, Siliquosa
Rivina		Tetrandria, Monogynia
Robinia	False Acacia	Diadelphia, Decandria
Roëlla		Pentandria, Monogynia
Rondeletia		Pentandria, Monogynia
Roridula		Pentandria, Monogynia
Rosa	Rose	Icosandria, Polygynia
Rosmarinus	Rosemary	Diandria, Monogynia
Rotala		Triandria, Monogynia
Rottboella		Triandria, Digynia
Royena	African Bladder-nut	Decandria, Digynia
Rubia	Madder	Tetrandria, Monogynia
Rubus	Raspberry	Icosandria, Polygynia
Rudbeckia	Dwarf Sunflower	Syngenesia, Polyg. fruftr.
Ruellia		Didynamia, Angiosper.
Rumex	Dock	Hexandria, Trigynia
Rumphia		Triandria, Mongynia
Ruppia		Tetrandria, Tetragynia
Ruscus	Knee Holly, or Butchers Broom	Dioecia, Syngenesia,
Russelia		Pentandria, Digynia
Ruta	Rue	Decandria, Monogynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
S		
Saccharum	Sugar Cane	Triandria, Digynia
Sagina	Pearl-wort	Tetrandria, Tetragynia
Sagittaria	Arrowhead	Monoecia, Polyandria
Salacia		Gynandria, Triandria
Salicornia	Jointed Glaſs-wort	Monandria, Monogynia
Salix	Willow	Dioecia, Diandria
Salfosa	Glaſs-wort	Pentandria, Digynia
Salvadora		Tetrandria, Tetragynia
Salvia	Sage	Diandria, Monogynia
Samara		Tetrandria, Monogynia
Sambucus	Elder	Pentandria, Trigynia
Samolus	Round-leaved Water-Pimpernel	Pentandria, Monogynia
Samyda		Decandria, Monogynia
Sanguinaria	Puccoon	Polyandria, Monogynia
Sanguisorba	Greater Wild Burnet	Tetrandria, Monogynia
Sanicula	Sanicle	Pentandria, Digynia
Santalum	Saunders	Tetrandria, Monogynia
Santolina	Lavender Cotton	Syngeneſia, Polyg. æqua.
Sapindus	Soap-berry	Octandria, Trigynia
Saponaria	Soap-wort	Decandria, Digynia
Saraca		Diadelphia, Hexandria
Sarracena	Sideſaddle Flower	Polyandria, Monogynia
Sarothra	Baſtard Gentian	Pentandria, Trigynia
Satureja	Savory	Didynamia, Gymnoſper.
Satyrium	Lizard-Flower	Gynandria, Diandria
Saururus	Lizard's Tail	Heptandria, Trigynia
Sauvageſia		Pentandria, Monogynia
Saxifraga	Saxifrage	Decandria, Digynia
Scabioſa	Scabious	Tetrandria, Monogynia
Scabrita		Tetrandria, Monogynia
Scandix	Shepherd's Needle, or Venus's Comb	Pentandria, Digynia
Scaevola		Pentandria, Monogynia
Scheuchzeria	Leſſer Flowering Ruſh	Hexandria, Trigynia
Scheffieldia		Pentandria, Monogynia
Schinus	Indian Maſtick	Dioecia, Decandria
Schmedelia		Octandria, Digynia
Schoenus	Baſtard Cypreſs	Triandria, Monogynia
Schrebera		Pentandria, Digynia
Schwalbea		Didynamia, Angioſper.
Schwenkia		Diandria, Monogynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Scilla	Squill	Hexandria, Monogynia
Scirpus	Rush-grafs	Triandria, Monogynia
Scleranthus	GermanKnot-grafs, or Knawel	Decandria, Digynia
Scolymus	Golden Thistle	Syngenefia, Polyg. æqua.
Scoparia		Tetrandria, Monogynia
Scopolia		Gynandria, Octandria
Scorpiurus	Caterpillars	Diadelphia, Decandria
Scorzonera	Viper-grafs	Syngenes. Polyg. æqualis
Scrophularia	Fig-wort	Didynamia, Angiosper.
Scutellaria	Skull-cap	Didynamia, Gymnosper.
Secale	Rye	Triandria, Digynia
Securidaca		Diadelphia, Octandria
Sedum	Lesser Houfleeck	Decandria, Pentagynia
Seguieria		Polyandria, Monogynia
Selago		Didynamia, Angiosper
Selinum	Milk Parsley	Pentandria, Digynia
Semecarpus		Pentandria, Trigynia
Sempervivum	Houfleeck	Dodecandria, Dodecagy.
Senecio	Groundfel	Syngenefia, Polyg. super.
Septas		Heptandria, Heptagynia
Serapias	Helleborine	Gynandria, Diandria
Seriola		Syngenefia; Polyg. æqual
Seriphium		Syngenefia, Monogamia
Serpicula		Monoecia, Tetrandria
Serratula	Saw-wort	Syngenefia, Polyg. æqua.
Sesamum	Oily Purging Grain	Didynamia, Angiosper.
Seseli	Hartwort of Marfeilles	Pentandria, Digynia
Sesuvium		Icofandria, Trigynia
Sherardia	Little Field Madder	Tetrandria, Monogynia
Sibbaldia		Pentandria, Pentagynia
Sibthorpia		Didynamia, Angiosper.
Sicyos	Singleseededcucumber	Monoecia, Syngenefia
Sida	Indian Mallow	Monadelphia Polyandr.
Sideritis	Iron-wort	Didynamia, Gymnosper
Sideroxylon	Iron-wood	Pentandria, Monogynia
Sigelbeckia		Syngenefia, Polyg. super.
Silene	Viscous Campion	Decandria, Trigynia
Silphium	Bastardchrysanthemum	Syngenefia, Polygamia necessaria
Sinapis	Mustard	Tetradynamia, Siliquosa
Siphonanthus		Tetrandria, Monogynia
Sirium		Tetrandria, Monogynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Sifon	Bastard Stone Parsley	Pentandria, Digynia
Sifymbrium	Water Cresses	Tetradynamia, Siliquosa
Sifyrinchium	Bermudiana	Gynandria, Trigynia
Sium	Water Parsnep	Pentandria, Digynia
Skimmia		Tetrandria, Monogynia
Sloanea	Apeiba of Brasilianians	Polyandria, Monogynia
Smilax	Rough Bindweed	Dioecia, Hexandria
Smyrniun	Alexanders	Pentandria, Digynia
Solandra		Polygamia, Monoecia
Solanum	Nightshade	Pentandria, Monogynia
Soldanella	Soldanel	Pentandria, Monogynia
Solidago	Golden Rod	Syngenesia, Polyg. super.
Sonchus	Sow-Thistle	Syngenes. Polyg. æqualis
Sonneratia		Icosandria, Monogynia
Sophora		Decandria, Monogynia
Sorbus	Service-Tree	Icosandria, Trigynia
Sparganium	Burr-Reed	Monoecia, Triandria
Sparrmania		Polyandria, Monogynia
Spartium	Broom	Diadelphia, Decandria
Spathelia		Pentandria, Trigynia
Spergula	Spurrey	Decandria, Pentagynia
Spermacoce	Button-Weed	Tetrandria, Monogynia
Speranthus	Globe Flower	Syngenesia, Polygamia, segregata
Sphagnum	Bog-mofs	Cryptogamia, Musci
Spigelia	Worm-grafs	Pentandria, Monogynia
Spilanthus		Syngenesia, Polyg. æqua.
Spinacia	Spinach	Dioecia, Pentandria
Spinifex		Polygamia, Monoecia
Spiræa	Spiræa Frutex	Icosandria, Pentagynia
Splachnum		Cryptogamia, Musci
Spondias	Brasilian Plum	Decandria, Pentagynia
Stachys	Base Horehound	Didynamia, Gymnosper.
Stæhelina		Syngenesia, Polyg. æqua.
Stapelia		Pentandria, Digynia
Staphylæa	Bladder-nut	Pentandria, Trigynia
Statice	Thrift or Sea Pink	Pentandria, Pentagynia
Stellaria	Great Chickweed	Decandria, Trigynia
Stellera	German Groundsel	Octandria, Monogynia
Stemodia		Didynamia, Angiosper.
Sterculia		Monoecia, Monadelphia
Steris		Pentandria, Digynia
Stewartia		Monadelphia, Polyandr.
Stipa	Feather-grafs	Triandria, Digynia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Stilago		Gynandria, Triandria
Stilbe		Polygamia, Dioecia
Stillingia		Monoecia, Monadelphia
Stoebe	Bastard Æthiopian Elichrysum	Syngenesia, Polygamia segregata
Stratiotes	Water Soldier	Polyandria, Hexagynia
Struthiola		Tetrandria, Monogynia
Strumpfia		Syngenesia, Monogamia
Strychnus		Pentandria, Monogynia
Styrax	Storax Tree	Dodecandria, Monogyn.
Subularia	Rough-leaved Alysson	Tetradynamia, Siliculosa
Suriana		Decandria, Pentagynia
Swertia	Marsh Gentian	Pentandria, Digynia
Symphonia		Monadelphia, Pentandr.
Symphytum	Comphrey	Pentandria, Monogynia
Symplocas		Polyadelphia, Polyandri
Syringa	Lilac	Diandria, Monogynia
Swietenia	Mahogany Tree	Decandria, Monogynia

T

Tabernæmon- tana		Decandria, Monogynia
Tacca		Dodecandria, Trigynia
Tagetes	African Marygold	Syngenesia, Polyg.super.
Tamarindus	Tamarind Tree	Triandria, Monogynia
Tamarix	Tamarisk	Pentandria, Trigynia
Tamus	Black Bryony	Dioecia, Hexandria
Tanacetum	Tansy	Syngenesia, Polyg.super.
Tarchonan- thus	Shrubby African Flea- bane	Syngenesia, Polygamia, æqualis
Targionia		Cryptogamia, Algæ
Taxus	Yew Tree	Dioecia, Monadelphia
Tectona		Pentandria, Monogynia
Telephium	True Orpine	Pentandria, Trigynia
Terminalia		Polygamia, Monoecia
Ternstroemia		Polyandria, Monogynia
Tetracera		Polyandria, Trigynia
Tetragonia		Icosandria, Pentagynia
Teucrium,	Germander	Didynamia, Gymnosper.
Thalia		Monandria, Monogynia
Thalictrum	Meadow Rue	Polyandria, Polygynia
Thapsia	Deadly Carrot, or Scorching Fennel	Pentandria, Digynia

Thea

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Thea	Tea Tree	Polyandria, Monogynia
Theligonum	Dog's Cabbage	Monoecia, Polyandria
Theobroma	Chocolate Nut	Polyadelphia, Pentandria
Theophrasta		Pentandria, Monogynia
Thefium	Bastard Toad Flax	Pentandria, Monogynia
Thlaspi	Mithridate Mustard Treacle Mustard	Tetradynamia, Siliculosa
Thouinia		Diandria, Monogynia
Thyrallis		Decandria, Monogynia
Thuja	Arbhor Vitæ	Monoecia, Monadelphia
Thunbergia		Didynamia, Angiosper.
Thymbra	Mountain Hyssop	Didynamia, Gymnosper.
Thymus	Thyme	Didynamia, Gymnosper.
Tiarella		Decandria, Digynia
Tilia	Lime Tree	Polyandria, Monogynia
Tillæa	Small Annual Houfleeek	Tetrandria, Monogynia
Tillandsia		Hexandria, Monogynia
Tinus		Enneandria, Monogynia
Toluiifera	Balsam of Tolu Tree	Decandria, Monogynia
Tomex		Tetrandria, Monogynia
Tordylium	Hartwort of Crete	Pentandria, Digynia
Torenia		Didynamia, Angiosper.
Tormentilla	Tormentil	Icofandria, Polygynia
Tournefortia		Pentandria, Monogynia
Tozzia		Didynamia, Angiosper.
Trachelium	Umbelliferous Throat- wort	Pentandria, Monogynia
Tradescantia	Virginian Spider-wort	Hexandria, Monogynia
Tragia		Monoecia, Triandria
Tragopogon	Goat's Beard	Syngenefia, Polyg. æqua.
Trapa	Walter Caltrops	Tetrandria, Monogynia
Tremella		Cryptogamia, Algæ
Trewia		Polyandria, Monogynia
Trianthea	Horfe Purflane	Decandria, Monogynia
Tribulus	Caltrops	Decandria, Monogynia
Trichilia		Decandria, Monogynia
Trichomanes		Cryptogamia, Filices
Trichofanthes	Serpent Cucumber	Monoecia, Syngenefia
Trichostema		Didynamia, Gymnosper.
Tridax	Trailing Starwort of Vera Cruz	Syngenefia, Polygamia, superflua
Trientalis	Winter-green with Chickweed Flowers	Heptandria, Monogynia
Trifolium	Trefoil	Diadelphia, Decandria Triglo-

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Triglochin	Arrow-headed Grass	Hexandria, Trigynia
Trigonella	Fenugreek	Diadelphia, Decandria
Trillium	Herb Truelove of Canada	Hexandria, Trigynia
Trilix		Polyandria, Monogynia
Triopteris		Decandria, Trigynia
Trioesteum	Fever-Root, or False Ipecacuana	Pentandria, Monogynia
Triplaris		Triandria, Trigynia
Tripsacum		Monoecia, Triandria
Triticum	Wheat	Triandria, Digynia
Triumfetta		Dodecandria, Monogyn.
Trollius	Globe Ranunculus	Polyandria, Polygynia
Tropæolum	Indian Crefs	Octandria, Monogynia
Trophis		Dioecia, Tetrandria
Tulbagia		Hexandria, Monogynia
Tulipa	Tulip	Hexandria, Monogynia
Turnera		Pentandria, Trigynia
Turraea		Decandria, Monogynia
Turritis	Tower Mustard	Tetradynamia, Siliquosa
Tussilago	Colt's Foot	Syngenesia, Polyg. super.
Typha	Cat's-tail, or Reedmace	Monoecia, Triandria

V

Vaccinium	Whortle Berry	Octandria, Monogynia
Vahlia		Pentandria, Digynia
Valantia	Cross-wort	Polygamia, Monoecia
Valerian	Valerian	Triandria, Monogynia
Vallea		Polyandria, Monogynia
Vallisneria		Dioecia, Diandria
Vandellia		Didynamia, Angiosper.
Varronia		Pentandria, Monogynia
Vateria		Polyandria, Monogynia
Vatica		Dodecandria, Monogyn.
Valezia		Hexandria, Digynia
Vella	Spanish Crefs	Tetradynamia, Siliculosa
Veratrum	White Hellebore	Polygamia, Monoecia
Verbascum	Mullein	Pentandria, Monogynia
Verbena	Vervain	Diandria, Monogynia
Verbesina		Syngenesia, Polyg. super.
Veronica	Speedwell	Diandria, Monogynia
Viburnum	Pliant Mealy Tree, or Wayfaring Tree	Pentandria, Trigynia

Vicia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Vicia	Vetch	Diadelphia, Decandria
Vinca	Periwinkle	Pentandria, Monogynia
Viola	Violet	Syngenesia, Monogamia
Virecta		Pentandria, Monogynia
Viscum	Mistletoe	Dioecia, Tetrandria
Vifnea		Dodecandria, Trigynia
Vitex	Agnus Castus, or Chaste Tree	Didynamia, Angiosper.
Vitis	Vine	Pentandria, Monogynia
Volkameria		Didynamia, Angiosper.
Ulex	Furze, Whins, or Gorfs	Diadelphia, Decandria
Ulmus	Elm Tree	Pentandria, Digynia
Ulva	Laver	Cryptogamia, Algæ
Uniola	Sea-side Oatsof Carolina	Triandria, Digynia
Unona		Polyandria, Polygynia
Urena	Indian Mallow	Monadelphia, Polyandr.
Unxia		Syngenes. Polyg. superfl.
Urtica	Nettle	Monoecia, Tetrandria
Utricularia	Water Milfoil	Decandria, Monogynia
Uvaria		Polyandria, Polygynia
Uvularia		Hexandria, Monogynia

W

Wachendorfia		Triandria, Monogynia
Waltheria		Monadelphia, Pentandria
Weigela		Pentandria, Monogynia
Weinmannia		Octandria, Digynia
Willichia		Triandria, Monogynia
Wintera		Poliandria, Polygynia
Witsenia		Triandria, Monogynia
Wulfenia		Diandria, Monogynia
Wurmbea		Hexandria, Trigynia

X

Xanthium	Lesser Burdock	Monoecia, Pentandria
Xeranthemum	Austrian sneezewort, or Eternal Flower	Syngenesia, Polygamia, superflua
Ximenia		Octandria, Monogynia
Xylophylla		Pentandria, Trigynia
Xylopia		Gynandria, Polyandria
Xyris		Tetrandria, Monogynia
		Yucca

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Y		
Yucca	Adam's Needle	Hexandria, Monogynia
Z		
Zamia		Cryptogamia, Filices
Zanichellia	Triple-headed Pond-weed	Monoecia, Monandria
Zanonia		Dioecia, Pentandria
Zanthoxylum	Tooth-ach Tree	Dioecia, Pentandria
Zea	Indian, or Turkeywheat	Monoecia, Triandria
Zinnia		Syngenes. Polyg. super.
Zizania		Monoecia, Hexandria
Ziziphora	Syrian Field Basil	Diandria, Monogynia
Zoegea		Syngenesia, Polyg. frust.
Zostera	Grass-wrack	Gynandria, Polyandria
Zygophyllum	Bean Caper	Decandria, Monogynia

T A B L E II.

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
A		
<i>Abies, Tourn.</i>	Fir	<i>Pinus</i>
<i>Abrotanum, Tourn.</i>	Southern Wood	<i>Artemisia</i>
<i>Abſinthium, Tourn. & Vaill. A. G.</i>	Wormwood	<i>Artemisia</i>
<i>Abutilon, Dill. Elth. & Tourn.</i>	Indian Mallow	<i>Sida</i>
<i>Abutilon, Dill. Elth.</i>	Carolina Mallow	<i>Malva</i>
<i>Acacia, Tourn.</i>		<i>Mimosa</i>
<i>Acajou, Tourn.</i>	Cashew Nut	<i>Anacardium</i>
<i>Acarna, Vaill. A. G.</i>	Blessed Thistle	<i>Cnicus</i>
<i>Acetofa, Tourn.</i>	Sorrel	<i>Rumex</i>
<i>Achyraſantha, Dill. Elth.</i>		<i>Achyranthes</i>
<i>Achyronia, Royen.</i>	African Broom	<i>Aspalathus</i>
<i>Achyrophorus, Vaill. A. G.</i>		<i>Hypochoeris</i>
<i>Acinodendron, Lin. gen. pl. ed. prim.</i>	American Gooseberry	<i>Melaſtoma</i>
<i>Acinos, Dill. gen.</i>	Wild, or Stone Baſil	<i>Thymus</i>
<i>Acnide, Mitch.</i>		<i>Acnida</i>
<i>Adhatoda, Tourn.</i>	Malabar Nut	<i>Juſticia</i>
<i>Ægilops, Dill. gen.</i>	Oat Graſs	<i>Bromus</i>
<i>Ageratum, Tourn.</i>		<i>Erinus</i>
<i>Agnanthus, Vaill. A. G.</i>		<i>Cornutia</i>
<i>Agrimonoïdes, Tourn.</i>	Baſtard Agrimony	<i>Agrimonia</i>
<i>Ahouai, Tourn.</i>		<i>Cerbera</i>
<i>Alaternus, Tourn.</i>	False Phyllyrea	<i>Rhamnus</i>
<i>Alcea, Tourn.</i>	Vervain Mallow	<i>Malva</i>
<i>Alchimilla, Tourn.</i>	Ladies Mantle	<i>Alchemilla</i>
<i>Alga, Raj. Ang.</i>	Graſs-wrack	<i>Zoſtera</i>
<i>Algoïdes, Vaill. A. G.</i>		<i>Zannichellia</i>
<i>Alhagi, Tourn.</i>	French Honeyſuckle	<i>Hedysarum</i>
<i>Alkekengi, Tourn.</i>	Winter Cherry	<i>Phyſalis</i>
<i>Alnus, Tourn.</i>	Alder	<i>Betula</i>
<i>Aloïdes, Boer. Lugd.</i>	Water Soldier	<i>Stratiotes</i>
<i>Alpina, Plum.</i>		<i>Alpinia</i>
<i>Alfinaſtrum, Vaill. B. P.</i>		<i>Elatine</i>

Alfine,

GENERIC NAMES. REJECTED.	ENGLISH NAMES.	LINNEÆAN GENERA.
<i>Alfine, Tourn.</i>	Great Chickweed	Stellaria
<i>Alfinella, Dill. gen.</i>		Sagina
<i>Alfinoides, Raj.</i>		Bufonia
<i>Alfinoides, Vaill. B P.</i>		Montia
<i>Alypum, Niss. A. G.</i>	Blue Daisy	Globularia
<i>Alyssoides, Tourn.</i>	Madwort	Alyssum
<i>Amanita, Dill.</i>	Agaric	Agaricus
<i>Amaranthi species, Tourn.</i>		Amaranthus
<i>Amaranthoides, Tourn.</i>	Globe Amaranth	Gomphrena
<i>Amberboi, Vaill.</i>	Sweet oriental Cyanus, called Sweet Sultan	Centaurea
<i>Amethystina, Amman. & Hall.</i>		Amethystea
<i>Ammoides, Boerb.</i>	Bishop's Weed	Ammi
<i>Ampana, Hort. Mal.</i>	Malabar Palm (Male)	Borassus
<i>Anacampseros, Tourn.</i>	Orpine	Sedum
<i>Anacampseros, Lin. gen. pl. edit. prim.</i>	Evergreen African Pur- flane	Portulaca
<i>Anagallidastrum, Mich.</i>		Centunculus
<i>Ananas, Tourn.</i>	Pine Apple	Bromelia
<i>Ananthocyclos, Vaill. A. G. & Dill. Elth.</i>		Cotula
<i>Anapodophyllum, Tourn.</i>	Duck's Foot, or May Apple	Podophyllum
<i>Androsæmum, Tourn.</i>	Tutsan, or Park Leaves	Hypericum
<i>Anemone ranunculus, Dill. gen.</i>	Wind Flower	Anemone
<i>Anemonoides, Dill. gen. & Vaill. A. G.</i>	Wood Anemone	Anemone
<i>Anemonospermos, Com. Hort. Amst.</i>		Arctotis
<i>Angiopteris, Mitch.</i>		Onoclea
<i>Anguina, Trew.</i>	Water Dragons	Calla
<i>Anguina, Mich.</i>	Serpent Cucumber	Trichosanthes
<i>Anguria, Tourn.</i>	Water Melon	Cucurbita
<i>Anonis, Tourn.</i>	Restharrow	Ononis
<i>Anonymos, Gron. virg.</i>		Chelone
<i>Antanifophyllum, Vaill. A. G.</i>	Hogweed	Boerhaavia
<i>Anthyllis, Magn. char.</i>		Cressa
<i>Aparine, Tourn.</i>	Clivers, or Goose Grass	Galium
<i>Aphaca, Tourn.</i>	Yellow Vetchling	Lathyrus
		Aphyl-

GENERIC NAMES. REJECTED.	ENGLISH NAMES.	LINNÆAN. GENERA.
Aphyllon, <i>Mich.</i>	Single flowered Broom Rape	Orobanche
Apios, <i>Boerb.</i>	Knobbed-rooted rice Vetch	Liquo-Glycine
Apocynum, <i>Tourn.</i>	Dog's Bane	Asclepias
Aponogeton, <i>Pont. Anth.</i>	Triple Headed Pond-weed	Zanichellia
Aquifolium, <i>Tourn.</i>	Holly	Ilex
Arachidna, <i>Plumb.</i>	Ground Nut	Arachis
Arachidnoides, <i>Niss. A. G.</i>	Ground Nut	Arachis
Araliastrum, <i>Vaill.</i>	Ginseng	Panax
Arapabaca, <i>Plumb.</i>	Worm Grass	Spigelia
Arctotheca, <i>Vail. A. G.</i>		Arctotis
Arisarum, <i>Tourn.</i>	Friar's Cowl	Arum
Armeniaca, <i>Tourn.</i>	Apricot	Prunus
Aronia, <i>Mitch.</i>	Floating Arum	Orontium
Aruncus, <i>Lin. gen. pl. ed. prim.</i>	Greater Meadow Sweet	Spiræa
Asarina, <i>Tourn.</i>	Snapdragon, with Ground Ivy Leaves	Antirrhinum
Ascyrum, <i>Tourn.</i>	St. Peter's Wort, with great Flowers	Hypericum
Aspergillus, <i>Mich.</i>		Byffus
Asteriscus, <i>Dill. Elth.</i>	Bastard chrysanthemum	Silphium
Asteriscus, <i>Tourn. Vaill. A. G. & Dill. Elth.</i>	Ox Eye	Buphtalum
Asterocephalus, <i>Vaill. A. G.</i>	Scabious	Scabiosa
Asteroides, <i>Tourn. & Vaill. A. G.</i>	Ox Eye	Buphtalum
Asteropterus, <i>Vaill. A. G.</i>	Star-wort	Aster
Astragaloides, <i>Tourn.</i>	Bastard Milkvetch	Phaca
Atractylis, <i>Vaill. A. G.</i>	Distaff Thistle	Carthamus
Aurantium, <i>Tourn.</i>	Orange	Citrus
Aureliana, <i>Lafit.</i>	Ginseng	Panax
Auricula, <i>Urfi, Tourn.</i>	Auricula, or Bear's Ear	Primula
Azederach, <i>Tourn.</i>	Bead Tree	Melia

B

Baccharis, <i>Vaill. A. G.</i>	Lavender Cotton	Santolina
	X	Badi-

GENERIC NAMES. REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Badiaga, <i>Buxb.</i>	River Sponge	Spongia
Ballote, <i>Tourn.</i>	Black Horehound	Ballota
Balsamina, <i>Tourn.</i>	Balsam	Impatiens
Balsamita, <i>Vaill. A. G.</i>	Costmary	Tanacetum
Barba capræ, <i>Tourn.</i>	Greater Meadow sweet	Spiræa
Belladonna, <i>Tourn.</i>	Deadly Nightshade	Atropa
Bellidiastrum, <i>Mich.</i>	Middle Daisy	Doronicum
Bellidioides, <i>Vaill. A. G.</i>	Greater, or Ox-eye Daisy	Chrysanthe- mum
Bellis- Leucanthemum, <i>Mich. gen.</i>	Annual Daisy	Bellis
Benzoë, <i>Boerb.</i>	Benjamin Tree	Laurus
Bermudiana, <i>Tourn. & Dill. Elth.</i>		Sisyrinchium
Bernhardia, <i>Houft. A. A.</i>	Bastard Ricinus	Croton
Bidentis species, <i>Dill. Elth.</i>	Tick-feeded Sun-flower	Coreopsis
Bihai, <i>Plum.</i>	Banana	Musa
Bistorta, <i>Tourn.</i>	Bistort, or Snakeweed	Polygonum
Blairia, <i>Houft. A. A.</i>	Vervain	Verbena
Blattaria, <i>Tourn.</i>	Moth Mullein	Verbascum
Boletus, <i>Mich.</i>		Phallus
Bonarota, <i>Mich.</i>	Rock Germander	Veronica
Bonduc, <i>Plum.</i>	Nickar Tree	Guilandina
Boraginoides, <i>Boerb.</i>	Indian Borage	Borrago
Borbonia, <i>Plum.</i>	Red Bay of Carolina	Laurus
Botrytis, <i>Mich.</i>		Byffus
Bovista, <i>Dill.</i>		Lycoperdon
Bryonioides, <i>Dill. Elth.</i>	Single-seeded cucumber	Sicyos
Bucca-ferrea, <i>Mich.</i>		Ruppia
Buglossum, <i>Tourn.</i>	Bugloss	Anchusa
Bugula, <i>Tourn.</i>	Bugle	Ajuga
Bulbine, <i>Lin. gen. pl. Ed. prim.</i>	Cape Spider-wort	Anthericum
Bulbocastanum, <i>Tourn.</i>	Pig-nut, or Earth-Nut	Bunium
Bupthalmum, <i>Tourn.</i>	Ox-eye of old Authors	Anthemis
Bupleuroides, <i>Boerb.</i>	Bastard Hare's-ear	Phyllus
Bursa Pastoris, <i>Tourn.</i>	Shepherd's Pouch.	Thlaspi

Capeba, *Plum.*

Cissampelos

4

Ca-

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
<i>Cacalianthemum, Dill.</i> <i>Elth.</i>		Cacalia
<i>Cacao, Tourn.</i>	Chocolate Nut	Theobroma
<i>Cainito, Plum.</i>	Star Apple	Chrysothyl- lum
<i>Calaba, Plum.</i>		Calophyllum
<i>Calamintha, Tourn.</i>	Calamint	Melissa
<i>Calamus aromaticus, Pet.</i> <i>gen. & Mich.</i>	Sweet Rush	Acorus
<i>Calceolus, Tourn.</i>	Ladies Slipper	Cypripedium
<i>Calcitrapa, Vaill.</i>	Star Thistle	Centaurea
<i>Calcitrapoides, Vaill.</i>	Thorny Knapweed	Centaurea
<i>Caltha, Tourn. & Vaill.</i> A. G.	Marigold	Calendula
<i>Camara, Plum. & Dill.</i> <i>Elth.</i>	American Viburnum	Lantana
<i>Cameraria, Dill. gen.</i>	Small Water Chickweed, or Blinks	Montia
<i>Camphora, Gronov. diff.</i>	Camphor Tree	Laurus
<i>Camphorata, Tourn.</i>	Stinking Ground Pine	Camphoro- ma
<i>Cannabina, Tourn. cor.</i>	Bastard Hemp	Datisca
<i>Cannacorus, Tourn.</i>	Indian Flowering Reed	Canna
<i>Capnoides, Tourn.</i>	Fumatory	Fumaria
<i>Caprifolium, Tourn.</i>	Honey-suckle	Lonicera
<i>Caprificus, Pont. Anth.</i>	Wild Fig-tree	Ficus
<i>Caraguata, Plum.</i>		Tillandsia
<i>Caraxeron, Vaill. A. G.</i>	Globe Amaranth	Gomphrena
<i>Cardamindum, Tourn.</i>	Indian Cress	Tropæolum
<i>Cardiaca, Tourn.</i>	Mother-wort	Leonurus
<i>Cardispermum, Trant.</i> A. G.	Marigold	Calendula
<i>Cardui species, Tourn.</i>	Woolly Thistle	Onopordum
<i>Carelia, Pont. diff.</i>	Bastard Hemp Agrimony	Ageratum
<i>Carimpana, Hort. Mal.</i>	Malabar Palm (Female)	Borassus
<i>Carlinoïdes, Vaill. A. G.</i>	Carline Thistle	Carlina
<i>Carpobolus, Mich.</i>		Lycoperdon
<i>Carthamoides, Vaill. A. G.</i>	Bastard Saffron	Carthamus
<i>Carui, Tourn.</i>	Caraway	Carum
<i>Caryophyllata, Tourn.</i>	Avens, or Herb Bennet	Geum
<i>Caryophyllodendron,</i> <i>Vaill. A. G.</i>	Clove-tree	Caryophyllus

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNEAN GENERA.
<i>Caryophyllus, Tourn.</i>	Pink, Clove July Flower Sweet William, &c.	<i>Dianthus</i>
<i>Caryophyllus, aromati- cus, Tourn.</i>	Clove Tree	<i>Caryophyl- lus</i>
<i>Casia, Tourn.</i>	Poet's Cassia	<i>Osyris</i>
<i>Cassida, Tourn.</i>	Skull-Cap	<i>Scutellaria</i>
<i>Castanea, Tourn.</i>	Chestnut	<i>Fagus</i>
<i>Castorea, Plum.</i>		<i>Duranta</i>
<i>Catanance, Tourn.</i>	Candy Lion's Foot	<i>Catananche</i>
<i>Cataria, Tourn.</i>	Catmint	<i>Nepeta</i>
<i>Cedrus, Tourn.</i>	Cedar	<i>Juniperus</i>
<i>Ceiba, Plum.</i>	Silk Cotton Tree	<i>Bombax</i>
<i>Centaureum majus, Tour.</i>	Centaury	<i>Centaurea</i>
<i>Centaureum minus, Tour.</i>	Lesser Centaury	<i>Gentiana</i>
<i>Cepa, Tourn.</i>	Onion	<i>Allium</i>
<i>Cerasus, Tourn.</i>	Cherry	<i>Prunus</i>
<i>Ceratocephaloides, Vaill. A. G.</i>		<i>Verbesina</i>
<i>Ceratocephalus, Vaill. A. G.</i>		<i>Bidens</i>
<i>Ceratoides, Tourn. Cor.</i>		<i>Axyris</i>
<i>Cereus, Juss. A. G.</i>	Torch Thistle	<i>Cactus</i>
<i>Cerinthoides, Boerb.</i>	Honey-wort	<i>Cerithe</i>
<i>Cervispina, Dill. gen.</i>	Buckthorn	<i>Rhamnus</i>
<i>Chærophylli species, Tourn.</i>	Wild Chervil	<i>Chærophyt- lum</i>
<i>Chamæbuxus, Tourn.</i>	Low Box	<i>Polygala</i>
<i>Chamæcerafus, Tourn.</i>	Dwarf Cherry, or Up- right Honeyfuckle	<i>Lonicera</i>
<i>Chamædaphne, Buxb. A. R.</i>		<i>Andromeda</i>
<i>Chamædaphne, Mitch.</i>		<i>Mitchella</i>
<i>Chamædrys, Tourn.</i>	Germander	<i>Teucrium</i>
<i>Chamæjasma, Amm.</i>		<i>Stellera</i>
<i>Chamælea, Tourn.</i>	Widow Wail	<i>Cneorum</i>
<i>Chamælinum, Vaill. B P</i>	Least Rupture-wort, or All-feed	<i>Linum</i>
<i>Chamæmelum, Tourn. & Vaill. A. G.</i>	Chamomile	<i>Anthemis</i>
<i>Chamænerion, Tourn.</i>	Rosebay Willow Herb	<i>Epilobium</i>
<i>Chamæpitys, Tourn.</i>	Ground Pine	<i>Teucrium</i>
		<i>Cha-</i>

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNEÆAN GENERA.
Chamærhododendros, <i>Tourn.</i>	Dwarf Rosebay	Rhododen- dron
Chamæriphes, <i>Pont.</i>	Dwarf Palm	Chamærops
Chenopodio-morus, <i>Boer.</i>	Strawberry Spinach, or Blite	Blitum
Christophoriana, <i>Tourn.</i>	Herb Christopher	Actæa
Chrysanthemoides, <i>Tourn.</i> <i>A. G. Dill. Gen. & Elth.</i>	Hard-seeded Chrysan- themum	Osteosper- mum
Chrysocome, <i>Dill. gen.</i>	Goldy Locks	Chrysocoma
Cicuta, <i>Tourn.</i>	Hemlock	Conium
Cicutaria, <i>Tourn.</i>	Great broad-leaved Ba- stard Hemlock	Ligusticum
Cinara, <i>Tourn.</i>	Artichoke	Cynara
Cinnamonum, <i>Herm. H.</i> <i>L. B. & Burm. Zeyl.</i>	Cinnamon Tree	Laurus
Cirsium, <i>Tourn. & Vaill.</i> <i>A. G.</i>	Soft or Gentle Thistle	Carduus
Citreum, <i>Tourn.</i>	Citron	Citrus
Clandestina, <i>Tourn.</i>	Broom Rape with great Purple Flowers, or great Purple Herb- bane	Lathræa
Clematitis, <i>Tourn.</i>	Virgin's Bower	Clematis
Clitorius, <i>Dill. Elth.</i>		Clitoria
Clymenum, <i>Tourn.</i>	Chichling Vetch	Lathyrus
Coa, <i>Plum.</i>		Hippocratea
Codda Panna, <i>Hort. Mal.</i>		Corypha
Coffe, <i>Juss. A. G.</i>	Coffee Tree	Coffea
Colocasia, <i>Boerb.</i>	Great Egyptian Arum	Arum
Colocynthis, <i>Tourn.</i>	Coloquintida, or Bitter Gourd	Cucumis
Coma aurea, <i>Boerb.</i>	Goldy Locks	Chrysocoma
Conocarpodendron, <i>Boer.</i>	Silver Tree	Protea
Convolvulo Tithymalus, <i>Boerb.</i>		Dalechampia
Conyzella, <i>Dill. Gen.</i>		Erigeron
Conyzoides, <i>Dill. Gen.</i>		Erigeron
Conyzoides, <i>Tourn. A. G.</i>		Carpesium
Coral, <i>Dill. Elth.</i>	Coral Tree	Erythrina
Corallo fungus, <i>Vaill.</i> <i>B. P.</i>		Clavaria
Corallodendron, <i>Tourn.</i>	Coral Tree	Erythrina

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNEAN GENERA.
<i>Coralloides, Tour. & Mich.</i>		Clavaria
<i>Coralloides, Dill. Musc.</i>	Liverwort	Lichen
<i>Cordyline, Roy. Lugd.</i>	Adam's Needle	Yucca
<i>Corindum, Tourn.</i>	Heart-feed, or heart pea	Cardiosper- mum
<i>Cornucopioides, Scheuch.</i>		Cornucopiae
<i>Corona imperialis, Tourn.</i>	Crown Imperial	Fritillaria
<i>Corona solis, Vaill. A.G.</i>	Sun-flower	Helianthus
<i>Tourn. & Dill. Elth.</i>		
<i>Coronopus, Tourn.</i>	Buck's horn Plantain	Plantago
<i>Corrigiola, Dill. gen. & Mæhr.</i>	Verticillate knot-grass	Illecebrum
<i>Cortusa, Plum.</i>		Thalia
<i>Corydalis, Dill. gen.</i>	Bladder Fumatory	Fumaria
<i>Cotinus, Tourn.</i>	Venice Sumach	Rhus
<i>Cotula, Tourn.</i>		Anacyclus
<i>Courbaril, Plum.</i>	Locust Tree	Hymenæa
<i>Crepis, Vaill. A. G.</i>	Tangier Sow Thistle	Scorzonera
<i>Crocodilium, Vaill.</i>	Centaury without stems	Centaurea
<i>Crocodilodes, Vaill.</i>	Distaff Thistle	Atractylis
<i>Cruciata, Tourn.</i>	Cross-wort	Valantia
<i>Cucularia, Juss. A. G.</i>	Fumatory with a naked Stalk	Fumaria
<i>Cujete, Plum.</i>	Calabash Tree	Crescentia
<i>Cuminoides, Tourn.</i>	Wild or Bastard Cumin	Lagoecia
<i>Cururu, Plum.</i>		Paullinia
<i>Cyanus, Tourn. & Vaill. A. G.</i>	Blue Bottle	Centaurea
<i>Cyathoides, Mich.</i>	Cup Mushroom	Peziza
<i>Cydonia, Tourn.</i>	Quince Tree	Pyrus
<i>Cynocrambe, Tourn.</i>	Dog's Cabbage	Theligonum
<i>Cynoglossoides, Isnard. A. G.</i>	Borrage	Borrago
<i>Cynomorium, Garc.</i>		Cynometra
<i>Cynorrhinchium, Mitch.</i>		Mimulus
<i>Cyperella, Mich.</i>		Schœnus
<i>Cyperoides, Tour. Scheuc. & Mich.</i>		Carex
<i>Cysticapnos, Boerb.</i>	Bladder Fumatory	Fumaria
D		
<i>Dalea, Lin. gen. pl. Ed. prim.</i>		Pforalea

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
<i>Damaſonium, Tourn. & Vaill. A. G.</i>	Star-headed Water Plantain	Alisma
<i>Dantia, Petit. gen.</i>		Isnardia
<i>Dens Canis, Tourn.</i>	Dog's Tooth Violet	Erythronium
<i>Dens Leonis, Tourn.</i>	Dandelion	Leontodon
<i>Dichotophyllum, Dill. gen.</i>		Ceratophyllum
<i>Diconangia, Mich.</i>		Itea
<i>Dimorphotheca, Vaill. A. G.</i>	Marigold	Calendula
<i>Diototheca, Vaill. A. G.</i>		Morina
<i>Dodonæa, Plum.</i>	Hollywithwing'dleaves	Ilex
<i>Doria, Dill. gen. & Elth.</i>	Golden Rod	Solidago
<i>Dortmanna, Rudb. A. S.</i>	Water Gladiole	Lobelia
<i>Dracunculoides, Boerb.</i>	Blood Flower	Hæmanthus
<i>Dracunculus, Tourn.</i>	Dragons	Arum
<i>Duglaſſia, Houſt. A. A.</i>		Volkameria

E

<i>Echinopus, Tourn. & Vaill. A. G.</i>	Globe Thistle	Echinops
<i>Echinoides, Dill. gen.</i>		Lycopsis
<i>Elate, Muſ. Cliff.</i>	Common Palm, or Date Tree	Phœnix
<i>Elaterium, Boerb.</i>	Wild, Spirting, or Affes Cucumber	Momordica
<i>Elatine, Dill. gen.</i>	Fluellin, or Female Speedwell	Antirrhinum
<i>Elephas, Tourn.</i>	Elephant's Head	Rhinanthus
<i>Elichryſum, Tourn. & Dill. Elth.</i>	Caffidony, Goldylocks, or Eternal Flower	Gnaphalium
<i>Elymus, Mich.</i>		Zizania
<i>Emerus, Tourn.</i>	Scorpion Senna	Coronilla
<i>Enula, Caſalp. & Magnol.</i>	Elecampane	Inula
<i>Ephemerum, Tourn.</i>	Virginian Spiderwort	Tradefcandia
<i>Erebinthus, Mitch.</i>		Vicia
<i>Ereſia, Plum.</i>		Theophrasta
<i>Ericæ ſpecies, Tourn.</i>		Andromeda
<i>Erinacea, Tourn.</i>	Spaniſh hedge hog thorn	Anthyllis
<i>Erinaceus, Dill. & Mich.</i>		Hydnum

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Eriocephalus, <i>Vaill.</i> A. G.	Spear Thistle	Carduus
Eriophorus, <i>Vaill.</i> A. G.	Downy Sow Thistle, or Woolly Hawkweed	Andryala
Erucago, <i>Tourn.</i>	Square-codded Rocket of Montpellier	Bunias
Euonymoides, <i>Isnar.</i> A. G.	Staff Tree	Celastrus
Eupatoriophalacron, <i>Dill.</i> <i>Elth. & Vaill.</i> A. G.		Verbesina
Euphorbium, <i>Isnar.</i> A. G.	Burning Thorny Plant	Euphorbia

F

Faba, <i>Tourn.</i>	Bean	Vicia
Fabago, <i>Tourn.</i>	Bean Caper	Zygophyl- lum
Fagopyrum, <i>Tourn.</i>	Buck Wheat, or Brank	Polygonum
Ferrum equinum, <i>Tourn.</i>	Horshoe Vetch	Hippocrepis
Ficaria, <i>Dill. gen.</i>	Pilewort, or Lesser Ce- landine	Ranunculus
Ficoida, <i>Niff.</i> A. G. <i>Dill. gen. & Elth.</i>		Aizoon
Ficoides, <i>Tourn.</i> A. G.	Fig Marigold	Mesembry- anthemum
Filago, <i>Vaill.</i> A. G. & <i>Tourn.</i>	Cudweed	Gnaphalium
Filipendula, <i>Tourn.</i>	Dropwort	Spiræa
Fluvialis, <i>Vaill.</i> A. G. & <i>Mich.</i>		Naias
Fœniculum, <i>Tourn.</i>	Fennel	Anethum
Fœnum græcum, <i>Tourn.</i>	Fenugreek	Trigonella
Franca, <i>Mich.</i>		Frankenia
Frangula, <i>Tourn.</i>	Black, or Berry-bearing Alder	Rhamnus
Fungoidaster, <i>Mich.</i>		Elvela
Fungoides, <i>Mich.</i>		Elvela
Fungoides, <i>Dill.</i>		Clavaria
Fungoidis species, <i>Vaill.</i> B. P.	Cup Mushroom	Paziza
Fungodis species, <i>Vaill.</i> B. P.		Elvela

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
G		
Gale, <i>Tourn. A. G. & Dill. gen.</i>	Sweet Willow, Gale, or Myrica Dutch Myrtle	
Galeobdolon, <i>Dill. gen.</i>	Yellow Archangel, or dead Nettle	Galeopsis
Galeopsis, <i>Tourn.</i>	Base Horehound	Stachys
Gallium, <i>Tourn.</i>	Ladies Bed-straw, or Cheese Renet	Gallium
Geaster, <i>Mich.</i>		Lycoperdon
Genista, <i>Tourn.</i>	Broom	Spartium
Genista-spartium, <i>Tourn.</i>	Furze, Whins, or Gorse	Ulex
Genistella, <i>Tourn.</i>	Dwarf Broom	Genista
Gerbera, <i>Lin. gen. pl. Ed. prim.</i>		Arnica
Gesnera, <i>Plum.</i>		Gesneria
Geum, <i>Tourn.</i>	Kidney-wort	Saxifraga
Glaucium, <i>Tourn.</i>	Horned Poppy	Chelidonium
Glaucoides, <i>Mich.</i>	Water Purslane	Peplis
Gnaphaloides, <i>Tourn.</i>	Bastard Cudweed	Micropus
Graminifolia, <i>Dill. gen.</i>	Triple-headed Pond- weed	Zannichellia
Granadilla, <i>Tourn. & Dill. Elth.</i>	Passion Flower	Passiflora
Grossularia, <i>Tourn.</i>	Gooseberry	Ribes
Guaicana, <i>Tourn.</i>	Indian Date Plum	Diospyros
Guaiaava, <i>Tourn.</i>	Bay Plum	Pfidium
Guanabanus, <i>Plum.</i>	Custard-Apple	Annona
Guazuma, <i>Plum.</i>	Bastard Cedar of Ja- maica	Theobroma
Guidonia, <i>Plum.</i>		Samyda

H

Hacub, <i>Vaill. A. G.</i>		Gundelia
Harmala, <i>Tourn.</i>	Wild Syrian Rue	Peganum
Hedypnois, <i>Tourn.</i>		Hyoseris
Heisteria, <i>Lin. gen. pl. Ed. prim.</i>		Polygala
Heleniastrum, <i>Vail. A. G.</i>	Bastard Sun-flower	Helenia
Helenium, <i>Vail. A. G.</i>	Starwort	Aster
		Hele-

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Helenium, <i>Morif. Raj.</i> <i>Herm Rivin. Rupp.</i> <i>Knaut. & Vaill.</i>	Elecampane	Inula
Helianthemum, <i>Tourn.</i>	Dwarf Cistus, or Little Sunflower	Cistus
Helichrysoïdes, <i>Vaill. A.</i> P.		Scriphium
Helichrysoïdes, <i>Vail. A.</i> G.		Gnaphalium
Helichrysum, <i>Vaill. A. G.</i>	Cassidony, Goldylocks or, Eternal Flower	Gnaphalium
Helleborine, <i>Tourn.</i>	Bastard Hellebore	Serapias
Helminthotheca, <i>Vaill. A.</i> G.		Picris
Helxine, <i>Lin. gen. pl. Ed.</i> <i>prim.</i>	Buckwheat, or Brank	Polygonum
Henna, <i>Ludw.</i>		Lawsonia
Hepatica, <i>Dill. gen.</i>	Noble Liverwort, or Hepatica	Anemone
Hepatica, <i>Micb.</i>		Marchantia
Herba Paris, <i>Tourn.</i>	True-love or One-berry	Paris
Hermodactylus, <i>Tourn.</i>	Tuberoſe Iris	Iris
Hieracioides, <i>Vaill. A. G.</i>	Bastard Hawkweed	Crepis
Hippocastanum, <i>Tourn.</i>	Horse Chestnut	Æsculus
Hippuris, <i>Dill. gen. &</i> <i>Pont. Antib.</i>		Chara
Horminum, <i>Tourn.</i>	Clary	Salvia
Hyacinthus stellaris, <i>Raj.</i> <i>Meth.</i>	Star Hyacinth	Scilla
Hydroceratophyllon, <i>Vaill. A. G.</i>		Ceratophyl- lum
Hydrophace, <i>Buxb. cent.</i>	Duck Meat	Lemna
Hypericoides, <i>Plum.</i>	St. Peter's Wort	Aſcyrum
Hypocistis, <i>Tourn.</i>	Rape of Cistus	Aſarum
Hypophyllocarpoden- dron, <i>Boerb.</i>		Protea
Hypopitys, <i>Dill. gen.</i>		Monotropa
Hyſterophorus, <i>Vail. A. G.</i>	Bastard Feverfew	Parthenium

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNEAN GENERA.
I		
Jabotapita, <i>Plum.</i>		Ochna
Jacea, <i>Tourn. Dill. gen.</i> & <i>Vaill.</i>	Knapweed	Centaurea
Jacobææ species, <i>Tourn.</i> <i>Vail. A. G.</i>	Ragworts, (sundry, of old Authors)	Solidago
Jacobææ species, <i>Tourn.</i>	Ragworts, (sundry, of old Authors)	Senecio
Jacobæastrum, <i>Vail. A. G.</i>	African Ragwort	Othonna
Jacobæoides, <i>Vail. A. G.</i>	African Ragwort	Othonna
Jalapa, <i>Tourn.</i>	Marvel of Peru	Mirabilis
Jan-raja, <i>Plum.</i>		Rajania
Jasminoides, <i>Niff. A. G.</i>	Bastard Jasmine	Lycium
Icaco, <i>Plum.</i>	Cocoa Plum	Chrysobalanus
Ilex, <i>Tourn.</i>	Evergreen Oak	Quercus
Indigo, <i>Isnard, A. G.</i>	Goat's Rue	Galega
Inga, <i>Plum.</i>		Mimosa
Jonthlaspi, <i>Tourn.</i>	Treacle Mustard	Clypeola
Isora, <i>Plum.</i>	Skrew Tree	Helicteres.
Juncago, <i>Tourn. & Mich.</i>	Arrow-headed Grass	Triglochin
Jussievia, <i>Houft. A. A.</i>		Jatropha
K		
Kali, <i>Tourn.</i>	Glafs-wort	Salsola
Karatas, <i>Plum.</i>	Pine Apple	Bromelia
Katovindel, <i>Hort. Mal.</i>	Palm, or Date Tree	Phœnix
Kæmpfera, <i>Houft. A. A.</i>	Vervain	Verbena
Keratophyton, <i>Boerb.</i>		Lithoxylum
Ketmia, <i>Tourn.</i>	Althæa Frutex, or Syrian Mallow	Hibiscus
Kleinia, <i>Lin. gen. pl. Ed.</i> <i>prim.</i>	Foreign Colt's Foot	Cacalia
Knawel, <i>Dill. gen.</i>	German Knot-grass	Scleranthus
Kodda-pail, <i>Plum.</i>	Water Houseleek of Egypt.	Pistia
L		
Lacryma Job, <i>Tourn.</i>	Job's Tear's	Coix
		Lam-

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Lampfana, <i>Vaill.</i> A. G.	Nipplewort	Lapsana
Lancifia, <i>Pont. diff.</i>		Cotula
Lapathum, <i>Tourn.</i>	Dock	Rumex
Lappa, <i>Tourn. & Vaill.</i> A. G.	Burdock	Arctium
Larix, <i>Tourn.</i>	Larch Tree	Pinus
Laurentia, <i>Mich.</i>		Lobelia
Lauro-cerasus, <i>Tourn.</i>	Laurel	Prunus
Ledum, <i>Mich.</i>		Andromeda
Lens, <i>Tourn.</i>	Lentils	Ervum
Lentibularia, <i>Vaill.</i> A. G. & <i>Dill. gen.</i>	Water Milfoil	Utricularia
Lenticula, <i>Mich. & Dill.</i> <i>gen.</i>	Duck Meat	Lemna
Leontodontoides, <i>Mich.</i> <i>gen.</i>		Hyoseris
Leontopetalon, <i>Tourn.</i>	Lion's Leaf.	Leontice
Lepidocarpodendron, <i>Boerb.</i>		Protea
Leptostachia, <i>Mich.</i>		Phryma
Leucanthemum, <i>Tourn.</i>	Chrysanthemum with white Rays, or Ox- Eye Daisy	Chrysanthe- mum
Leucojum, <i>Tourn.</i>	Stock July Flower, and Wall Flower.	Cheiranthus
Lichen, <i>Dill. Musc.</i>		Marchantia
Lichenastrum, <i>Dill. Musc.</i>		Jungarman- nia
Lichenoides, <i>Dill. Musc.</i>		Lichen
Lilac, <i>Tourn.</i>	Lilac, or Pipe Tree	Syringa
Liliastrum, <i>Tourn.</i>	White Day Lily, St. Bruno's Lily, or Great Savoy Spider-wort.	Hemero- callis
Lilio-asphodelus, <i>Tourn.</i>	Day Lily, or Lily Af- phodel	Hemero- callis
Lilio-hyacinthus, <i>Tourn.</i>	Lily-Hyacinth	Scilla
Lilioanarcissus, <i>Tourn.</i>	Lily-Daffodil	Amaryllis
Lilium convallium, <i>Tourn.</i>	Lily of the Valley	Convallaria
Limnopeuce, <i>Vaill.</i> A. G.		Hippuris
Limodorum, <i>Tourn.</i>	Purple Bird's Nest	Orchis
Limon, <i>Tourn.</i>	Lemon	Citrus
		Limo-

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Limonium, <i>Tourn.</i>	Sea Lavender	Statice
Linagrostis, <i>Mich. & Tourn.</i>	Cotton Grass	Eriophorum
Linaria, <i>Tourn.</i>	Toad Flax	Antirrhinum
Lingua cervina, <i>Tourn.</i>	Hart's Tongue	Asplenium
Linocarpon, <i>Mich.</i>	Least Rupture-wort, or All Seed	Linum
Lirium, <i>Roy.</i>	Lily	Lilium
Lithophyton, <i>Tourn.</i>		Lithoxylon
Lonchitis, <i>Tourn.</i>	Rough Spleen-wort	Polypodium
Luffa, <i>Tourn. A. G. Dill.</i>	Egyptian Cucumber	Momordica
<i>gen. & Elth.</i>		
Lunularia, <i>Mich.</i>		Marchantia
Lupinaster, <i>Buxb.</i>		Trifolium
Lupulus, <i>Tourn.</i>	Hop	Humulus
Luteola, <i>Tourn.</i>	Wild Woad, or Dyer's Weed	Reseda
Lychnidea, <i>Dill. Elth.</i>	Bastard Lychnis	Phlox
Lychni scabiosa, <i>Boerb.</i>		Knautia
Lycogala, <i>Mich.</i>		Mucor
Lycoperdastrum, <i>Mich.</i>		Lycoperdon
Lycoperdoides, <i>Mich.</i>		Lycoperdon
Lycopersicon, <i>Tourn.</i>	Wolf's Peach, or Love Apple	Solanum
Lycopodioides, <i>Dill.</i>		Lycopodium
<i>Musc.</i>		

M

Malachodendron, <i>Mitch.</i>		Stewartia
Malacoides, <i>Tourn.</i>	Bastard Mallow	Malope
Malva, <i>Tourn.</i>	Rose Mallow, or Holly- hock	Alcea
Malvaviscus, <i>Dill. Elth.</i>	Berry-bearing hibiscus	Hibiscus
Malvinda, <i>Dill. Elth.</i>	Indian Mallow, with single Seeds	Sida
Malus, <i>Tourn.</i>	Apple	Pyrus
Mamei, <i>Plum.</i>	Mammee	Mammea
Mancanilla, <i>Plum.</i>	Manchineel	Hippomane
Mangles, <i>Plum.</i>	Pee-kandel of the Indians	Rhizophora
Mangostans, <i>Garc. A. A.</i>	Mangostan	Garcinia

Ma-

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNEAN GENERA.
Manihot, <i>Tourn. & Dill.</i> <i>Eltb.</i>	Cassava	Jatropha
Maurocena, <i>Lin. gen. pl.</i> <i>Ed. prim.</i>	Hottentot Cherry	Cassine
Mays, <i>Tourn.</i>	Indian, or Turkeywheat	Zea
Medica, <i>Tourn.</i>	Snail Trefoil, and Medic or Lucern grafs	Medicago
Melanoschoenus, <i>Mich.</i> <i>gen.</i>	Round black-headed Marsh Rush, or Bog Rush	Schoenus
Melilobus, <i>Mitch.</i>	Three-Thorned Acacia	Gleditsia
Melilotus, <i>Tourn.</i>	Melilot	Trifolium
Melo, <i>Tourn.</i>	Melon	Cucumis
Melocactus, <i>Tourn.</i>	Melon Thistle	Cactus
Melongena, <i>Tourn.</i>	Mad Apple, or Egg Plant	Solanum
Melopepo, <i>Tourn.</i>	Buckler Gourd	Cucurbita
Memecylum, <i>Mich.</i>	Trailing Arbutus	Epigæa
Methonica, <i>Tourn.</i>	Superb Lily	Gloriosa
Meum, <i>Tourn.</i>	Spignel	Athamanta
Michelia, <i>Houft. A. A.</i>		Pontederia
Michelia, <i>Amm. Aët. Pet.</i>		Gmelina
Microleuconymphæa, <i>Boerb.</i>	Frog's Bit	Hydrocharis
Millefolium, <i>Tourn.</i>	Yarrow, or Milfoil	Achillea
Mitra, <i>Houft.</i>		Ophiorrhiza
Mitreola, <i>Lin. gen. pl.</i> <i>Ed. prim.</i>		Ophiorrhiza
Moldavica, <i>Tourn.</i>	Turkey, or Moldavian Baum	Dracocephalum
Molle, <i>Tourn.</i>	Peruvian Mastich	Schinus
Molucca, <i>Tourn.</i>	Molucca Baum	Moluccella
Moly, <i>Boerb.</i>	Moly with Lily Flowers, or Homer's Moly	Allium
Monbin, <i>Plum.</i>	Brasilian Plum	Spondias
Monilifera, <i>Vaill. A. G.</i>	Hard-seeded Chrysan- themum	Osteospermum
Monospermalthæa, <i>Isnar.</i> <i>A. G.</i>		Waltheria
Montia, <i>Houft. A. A.</i>		Heliocarpus
Morocarpus, <i>Rupp.</i>	Blite, or Strawberry Spinach	Blitum
Morsu, ranæ, <i>Tour. A. G.</i>	Frog's Bit.	Hydrocharis Mof-

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Moschatellina, <i>Tourn.</i>	Tuberoſe Moſchatel, or Hollow Root	Adoxa
Mucilago, <i>Mich.</i>		Mucor
Murucuja, <i>Tourn.</i>	Paſſion Flower	Paſſiflora
Muscari, <i>Tourn.</i>	Grape Hyacinth	Hyacinthus
Mufcoides, <i>Mich.</i>		Jungerman- nia
Myofotis, <i>Tourn.</i>	Moſe-ear Chickweed	Ceraſtium
Myofuros, <i>Dill. gen.</i>	Moſe Tail	Myofurus
Myrobatindum, <i>Vaill.</i> A. G.	American Viburnum	Lantana

N

Narciſſo-Leucojum, <i>Tour.</i>	Greater Snow drop	Leucojum
Naſturtium, <i>Tourn.</i>	Crefs	Lepidium
Nelumbo, <i>Tourn.</i>	Indian Water Lily	Nymphæa
Nhandiroba, <i>Plum.</i>		Fevillea
Ninſi, <i>Breyn. diff.</i>	Ginſeng	Panax
Nummularia, <i>Nov. gen.</i>		Holoſteum
Nux, <i>Tourn. & Boerb.</i>	Walnut	Juglans
Nymphoides, <i>Tourn.</i>	Leſſeryellow Water Lily with fringed Flowers	Menyanthes

O

Obeliſcotheca, <i>Vaill. A.</i> G. & <i>Dill. Eltb.</i>	Dwarf Sun-flower	Rudbeckia
Ochruſ, <i>Tourn.</i>	Wild winged Pea	Piſum
Odontitis, <i>Dill. gen.</i>	Red Meadow Eyebright	Euphraſia
Omphalodes, <i>Tourn.</i>	Venus's Navel-wort	Cynogloſſum
Onagra, <i>Tourn.</i>	Tree Primroſe	Oenothera
Onobrychis, <i>Tourn.</i>	Cock's Head, or Saint Foin	Hedysarum
Ophris, <i>Tourn.</i>	Twy Blade	Ophrys
Opulus, <i>Tourn. & Vaill.</i> A. G.	Maſh Elder, or Gelder Roſe	Viburnum
Opuntia, <i>Tourn.</i>	Indian Fig, or Prickly Cactus Pear	
Orchidion, <i>Mitch.</i>		Arethufa
Oreofelinum, <i>Tourn.</i>	Mountain Parſley	Athamanta
Ornithopodium, <i>Tourn.</i>	Bird's Foot	Ornithopus Ornus,

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Ornus, <i>Mich.</i>	Ash	Fraxinus
Orobanchoides, <i>Tourn.</i> A. G.		Monotropa
Ostrya, <i>Mich.</i>	Hornbeam	Carpinus
Oxycoccus, <i>Tourn.</i>	Marsh WhortleBerries, MossBerries, or Moor Berries	Vaccinium
Oxyoides, <i>Garc. A. A.</i>	Sensitive Wood Sorrel	Oxalis
Oxys, <i>Tourn.</i>	Wood Sorrel	Oxalis
P		
Padus, <i>Lin. gen. pl. Ed.</i> <i>prim.</i>	Bird Cherry	Prunus
Paliurus, <i>Tourn.</i>	Christ's Thorn	Rhamnus
Panacea, <i>Mitch.</i>	Ginseng	Panax
Panicastrella, <i>Mich.</i>		Cenchrus
Papaya, <i>Tourn.</i>	Papaw	Carica
Papia, <i>Mich.</i>		Orvala
Paronychia, <i>Tourn.</i>	Mountain Knot-grass	Illecebrum
Partheniastrum, <i>Niff. A.</i> <i>G. Dill. gen. & Elth.</i>	Baltard Feverfew	Parthenium
Patagonica, <i>Dill. Elth.</i>		Patagonula
Pavia, <i>Boerb.</i>	Scarlet Horse Chestnut	Æsculus
Pedicularis species, <i>Tourn.</i>	Yellow Rattle, Cock- comb, or Louse-wort	Rhinanthus
Pelecinius, <i>Tourn.</i>	Clusius's foreign Hat- chet Vetch	Biserrula
Penæa, <i>Plum.</i>	TreeMilk-wort, with a rough Box Leaf	Polygala
Pentagonotheca, <i>Vaill.</i> A. G.	Fingrigo	Pisonia
Pentaphylloides, <i>Tourn.</i>	Cinquefoils, whose Leaves are not quite quinate	Potentilla
Pentapterophyllum, <i>Dill. gen.</i>	Water Milfoil	Myriophyl- lum
Pepo, <i>Tourn.</i>	Pumpion	Cucurbita
Percepier, <i>Dill. gen.</i>	Parsley Piert	Aphanes
Pereskia, <i>Plum. Lin.</i> <i>gen. pl. Ed. prim.</i>	Gooseberry of the Ame- ricans, or Blad Apple	Cactus
Periclymenum, <i>Tourn.</i>	Trumpet Honey suckle	Lonicera
		Per-

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
<i>Persea, Plum.</i>	Avocado, or Avogato Pear	Laurus
<i>Perfica, Tourn.</i>	Peach	Amygdalus
<i>Perficaria, Tourn.</i>	Arse-smart, or Perficaria	Polygonum
<i>Pervinca, Tourn.</i>	Periwinkle	Vinca
<i>Petaſites, Tourn. & Vaill.</i> A. G.	Butterburr, or Peſtilent- wort	Tuffilago
<i>Petilium, Lin. gen. pl.</i> <i>Ed. prim.</i>	Crown Imperial.	Fritillaria
<i>Phalangium, Tourn.</i>	Spider-wort	Anthericum
<i>Phalloboletus, Mich.</i>		Phallus
<i>Phillyreaſtrum, Vaill.</i> A. G.		Morinda
<i>Piloſella, Vaill. A. G.</i>	Creeping Mouſe-ear	Hieracium
<i>Pimpinella, Tourn.</i>	Burnet	Poterium
<i>Pinaſtella, Dill. gen.</i>		Hippuris
<i>Pinguin, Dill. Elth.</i>	Wild Ananas	Bromelia
<i>Pittonia, Plum.</i>		Tournefortia
<i>Plantaginella, Dill. gen.</i>	Leaſt Water Plantain	Limofella
<i>Plantanocephalus, Vaill.</i> A. G.	Button-wood	Cephalanthus
<i>Poliifolia, Buxb. A. R.</i>	Marſh Ciſtus, or Wild Roſemary	Andromeda
<i>Polium, Tourn.</i>	Poley Mountain	Teucrium
<i>Polyacantha, Vaill.</i> A. G.	Cauſaubon's Thistle, ſup- poſed the true Fiſh Thistle or Acarna of Theophraſtus	Carduus
<i>Polygaloides, Dill. gen.</i>	Milk-wort	Polygala
<i>Polygonatum, Tourn.</i>	Solomon's Seal	Convallaria
<i>Polygonifolia, Dill. gen.</i>		Corrigiola
<i>Polygonoides, Tourn.</i>		Calligonum
<i>Polyporus, Mitch.</i>		Boletus
<i>Populago, Tourn.</i>	Marſh Marigold	Caltha
<i>Porophyllum, Vaill.</i> A. G.	Cacalia with perforate Leaves	Cacalia
<i>Porrum, Tourn.</i>	Leek	Allium
<i>Portula, Dill. gen.</i>	Water Purſlane	Peplis
<i>Portulacaſtrum, B. Juſ.</i>	Horſe Purſlane	Trianthema
<i>Potamopithys, Buxb.</i> A. R.		Elatine
<i>Primula veris, Tourn.</i>	Primroſe	Primula

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Provenzalia, <i>Petit. Gen.</i>	Water Dragons	Calla
Pseudoacacia, <i>Tourn.</i>	False Acacia	Robinia
Pseudocyperus, <i>Mich.</i>		Schoenus
Pseudodictamnus, <i>Tourn.</i>	Bastard Dittany	Marrubium
Pseudoruta, <i>Mich.</i>	Three leaved Rue	Ruta
Psyllium, <i>Tourn.</i>	Flea-wort	Plantago
Ptarmica, <i>Tourn.</i>	Sneeze-wort, Bastard Pel litory, or Goose-tongue	Achillea
Pterocephalus, <i>Vail. A.G.</i>	Scabious	Scabiosa
Pterospermadendron, <i>Am</i>		Pentapetes
Pulsatilla, <i>Tourn.</i>	Pasque Flower	Anemone

Q

Quamoclit, <i>Tourn.</i>		Ipomoea
Quinquefolium, <i>Tourn.</i>	Cinquefoil	Potentilla
Quinquina, <i>Cond. A.G.</i>	True Jesuits Bark Tree	Cinchona

R

Radicula, <i>Dill. gen.</i>	Water Radish	Sisymbrium
Radiola, <i>Dill. gen.</i>	Least Rupture-wort, or All Seed	Linum
Ranunculoides, <i>Va. A.G.</i>	Water Crowfoot	Ranunculus
Rapa, <i>Tourn.</i>	Turnep	Brassica
Raphanistrem, <i>Tourn.</i>	Whiteflowered Charlock with jointed Pods.	Raphanus
Rapistrum, <i>Tourn.</i>	Sea Cabbage	Crambe
Rapunculus, <i>Tourn.</i>	Rampions	Phyteuma
Rapuntium, <i>Tourn. & Dill. Elth.</i>	Cardinal Flower	Lobelia
Rhabarbarum, <i>Tourn.</i>	Rhubarb	Rheum
Rhagadioloides, <i>Va. A.G.</i>		Hyoseris
Rhagadiolus, <i>Vaill. A.G. & Tourn.</i>		Lapsana
Rhamnoïdes, <i>Tourn.</i>	Bastard Rhamnus, or Sea Buckthorn	Hippophaë
Rhaponticoides, <i>Vaill.</i>	Centaury	Centaurea
Rhapontium, <i>Vaill.</i>	Centaury	Centaurea
Ribesium, <i>Dill. Elth.</i>	Currant Tree	Ribes
Ricinocarpus, <i>Boer & Bur</i>		Acalypha
Ricinoides, <i>Tourn.</i>	Bastard Ricinus	Croton
Rivina, <i>Plum.</i>		Rivinia

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
<i>Royenia, Houft. A. A.</i>		Loefelia
<i>Rojoc, Plum.</i>		Morinda
<i>Ros folis, Tourn.</i>	Sun-dew	Drofera
<i>Rubeola, Tourn.</i>	Petty Madder	Crucianella
<i>Rudbeckia, Houft. A. A.</i>	Button-tree	Conocarpus
<i>Ruppia, Act. Ang.</i>	Grass Wrack	Zostera
<i>Ruta muraria, Tourn.</i>	Wall-rue, or Tent-wort	Asplenium
S		
<i>Sabina, Boerb.</i>	Savine	Juniperus
<i>Sagitta, D. g. & V. A. G.</i>	Arrow-head	Sagittaria
<i>Salicaria, Tourn.</i>	Willow-herb, or Purple Loofestribe	Lythrum
<i>Salvinia, Mich.</i>		Marfilea
<i>Santolinoides, Vaill. A. G. & Mich. gen.</i>		Anacyclus
<i>Sapota, Plum.</i>	Sapota	Achras
<i>Sassafras, Off.</i>	Sassafras Tree	Laurus
<i>Saururus, Plum.</i>	Lizard's Tail	Piper
<i>Schunda Pana, Hort. Mal.</i>		Caryota
<i>Scirpocyperus, Mitch.</i>	Rush Grass	Scirpus
<i>Scirpoides, Mont.</i>		Carex
<i>Sclarea, Tourn.</i>	Clary	Salvia
<i>Scorodoprasum, Mich.</i>	Great round-headed, or Turkey Garlick	Allium
<i>Scorpioides, Tourn.</i>	Caterpillars	Scorpiurus
<i>Scorzoneroïdes, Va. A. G.</i>	Vipers Grass	Scorzonera
<i>Sebestena, Dill. Elth.</i>	Sebesten	Cordia
<i>Securidaca, Tourn.</i>	The True Hatchet Vetch, or Sickle-wort	Coronilla
<i>Sedi species, Tourn.</i>	Houfeleek	Sempervi- vum
<i>Selaginoides, Dill. Musc.</i>		Lycopodium
<i>Selago, Dill. Musc.</i>	Upright Fir Moss	Lycopodium
<i>Senecionis species, D. Elt.</i>		Erigeron
<i>Senna, Tourn.</i>	Senna of the Shops	Cassia
<i>Seriana, Plum.</i>		Paullinia
<i>Sesamoides, Tourn.</i>	Bastard Rocket	Reseda
<i>Sherardia, Vaill.</i>	Vervain	Verbena
<i>Sherardia, Pont. Epist.</i>		Galenia
<i>Sicyoides, Tourn.</i>	Single-seeded Cucumber	Sicyos
<i>Siliqua, Tourn.</i>	Carob-tree, or St. John's Bread	Ceratonia
	Y z	Sili-

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Siliquastrum, <i>Tourn.</i>	Judas tree	Cercis
Silybum, <i>Vaill. A. G.</i>	Milk Thistle, or Lady's Thistle	Carduus
Sinapi, <i>Tourn.</i>	Mustard	Sinapis
Sinapistrum, <i>Tourn.</i>	Bastard Mustard	Cleome
Siphonanthemum, <i>Amm. Act. Petrop.</i>		Siphonan- thus
Sifarum, <i>Tourn.</i>	Skirret	Sium
Sifyrinchium, <i>Tourn.</i>	Iris with a double Bulb, called Spanish Nut	Iris
Sloana, <i>Plum.</i>	Apeiba of the Brasilians	Sloanea
Solanoides, <i>Tourn. A. G.</i>	American Night-shade	Rivina
Sorgum, <i>Mich.</i>	Indian Millet	Holcus
Spartium, <i>Tourn.</i>	Single-seeded Broom	Genista
Sphondylium, <i>Tourn.</i>	Cow Parsnep	Heracleum
Sphondylococcus, <i>Mitch.</i>	Johnsonia	Callicarpa
Stachyarpagophora, <i>Vaill. A. G.</i>	Cock's comb	Celosia
Staphylodendron, <i>Tourn.</i>	Bladder Nut	Staphylæa
Stellaria, <i>Dill. gen.</i>		Callitriche
Stellaris, <i>Dill. gen.</i>	Yellow Star of Bethlem	Ornithoga- lum
Stœchas, <i>Tourn.</i>	French Lavender	Lavandula
Stramonium, <i>Tou. & Pont.</i>	Thorn Apple	Datura
Stratiotes, <i>Vaill. A. G.</i>	Water Milfoil, or Water Violet	Hottonia
Stratiotes, <i>Dill. gen.</i>	Frog's Bit	Hydrocharis
Struthia, <i>Royen.</i>		Gnidia
Suber, <i>Tourn.</i>	Cork-tree	Quercus
Succisa, <i>Vaill. A. G.</i>	Devil's-bit	Scabiosa
Suillus, <i>Mich.</i>		Boletus
Symphoricarpos, <i>Dill. El.</i>	Shrubby St. Peter's-wort	Lonicera
Syringa, <i>Tourn.</i>	Mock Orange, or syringa	Philadelphus

T

Tamariscus, <i>Tourn.</i>	Tamarisk	Tamarix
Tamnus, <i>Tourn.</i>	Black Bryony	Tamus
Tapia, <i>Plum.</i>	Garlick Pear	Crateva
Taraxaconastrum, <i>V. A. G.</i>		Hyoseris
Taraxaconoides, <i>V. A. G.</i>	Dandelion	Leontodon
Tarchonanthus, <i>Va. Act.</i>	Jesuit's Bark-tree, falsely so called	Iva

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Telephiastrum, <i>Dill. Elt.</i>	African Purslane	Portulaca
Telephioides, <i>T. & D. Elt.</i>	Bastard Orpine	Andrachne
Tenga, <i>Hort. Mal.</i>	Cocoa Nut	Cocos
Terebinthus, <i>Tourn.</i>	Turpentine-tree	Pistacia
Ternatea, <i>Tourn. A. G.</i>		Clitoria
Tetrahit, <i>Dill. gen.</i>	Bastard Hemp	Galeopsis
Thlaspidium, <i>Tourn.</i>	Buckler Mustard	Biscutella
Thymbra, <i>Tourn.</i>	Savory, with verticillate Flowers	Satureja
Thymelæa, <i>Tourn.</i>	Mezereon, or Spurge- Laurel	Daphne
Thyffelinum, <i>Tourn.</i>	Milky Parsley	Selinum
Tinus, <i>Tour. & Vail. A. G.</i>	Laurustinus	Viburnum
Titanokeratophyton, <i>Bo.</i>		Lithoxylon
Tithymaloides, <i>Tourn.</i>	Bastard Spurge	Euphorbia
Tithymaloides (an) <i>Klein Monagr.</i>	Cabbage-tree, or Car- nation-tree	Cacalia
Tithymalus, <i>Tourn.</i>	Spurge	Euphorbia
Tournefortia, <i>Pont. Epif.</i>	Amber-tree	Anthosper- mum
Toxicodendron, <i>Tourn.</i>	Poison-tree	Rhus
Tragacantha, <i>Tourn.</i>	Goat's horn	Astragalus
Tragopogonoides, <i>Vaill. A. G.</i>	Goats-beard with crooked Seeds	Tragopogon
Tragofelinum, <i>Tourn.</i>	Burnet Saxifrage	Pimpinella
Tribuloides, <i>Tourn.</i>	Water Caltrops	Trapa
Trichomanes, <i>Tourn.</i>	English black Maiden- hair	Asplenium
Trifoliastrum, <i>Mich.</i>	WhitefloweredMeadow Trefoil, Honeyfuckle Grass, or DutchClover	Trifolium
Trilopus, <i>Mitch.</i>	Witch Hazel	Hamamelis
Trioiteospermum, <i>Dill. Eltb.</i>	Fever root, Doctor Tin- ker's Weed, or Falfe Ipecacuana	Trioiteum
Trixis, <i>Mitch.</i>		Proserpinaca
Tulipifera, <i>Catesb.</i>	Tulip-tree	Liriodendron
Tuna, <i>Dill. Eltb.</i>	IndianFig, or Prickly Pear	Cactus
Tunica, <i>Dill. Eltb.</i>	Pink	Dianthus

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNEÆAN GENERA.
V		
<i>Valdia, Plum.</i>		Ovieda
<i>Valerianella, Tourn & Vaill.</i>	Lamb's Lettuce, or Corn-Sallad	Valeriana
<i>Vallisneroides, Mich.</i>		Valisneria
<i>Vanilla, Plum.</i>	Vanilla	Epidendrum
<i>Vanrheedia, Plum.</i>		Rheedia
<i>Vesicaria, Rivinus</i>	Heart-feed, or Heart-pea	Cardiospermum
<i>Vesicaria, Tourn.</i>	Madwort with bladdery Pods	Alyssum
<i>Virga aurea, T. & V. A. G.</i>	Golden Rod	Solidago
<i>Virga sanguinea, Dill.</i>	Female Dog-wood, Dog-berry, or Gatter-tree	Cornus
<i>Viscago, Dill. Elth.</i>	Viscous Campion, or Catch-fly	Silene
<i>Viticella, Mitch.</i>		Galax
<i>Viticella, Dill. gen.</i>	Virgin's Bower, or Lady's Bower	Clematis
<i>Vitis Idea, Tourn.</i>	Whortle Berry	Vaccinium
<i>Ulmaria, Tourn.</i>	Meadow-sweet, or of the Meadows	Queen Spiræa
<i>Unifolium, Dill. gen.</i>	One-blade	Convallaria
<i>Volubilis, Dill. Elth.</i>		Ipomoea
<i>Usnea, Dill. Musc.</i>	Tree Moss	Lichen
<i>Uva ursi, Tourn.</i>	Spanish Redwhorts, or Bearberries	Arbutus
<i>Vulneraria, Tourn.</i>	Kidney Vetch, or Lady's Finger	Anthyllis
X		
<i>Xeranthemoides, D. Elth.</i>		Xeranthemum
<i>Xiphium, Tourn.</i>	Bulbous Iris	Iris
<i>Xylon, Lin. gen. pl. Ed. pr.</i>	Silk Cotton-tree	Bombax
<i>Xylon, Tourn.</i>	Cotton	Gossypium
<i>Xylosteum, Tourn.</i>	Fly Honeyfuckle	Lonicera
Z		
<i>Zacintha, Va. A. G. & T.</i>	Wart Succory	Lapsana
<i>Zanonia, Plum.</i>		Commelina
<i>Ziziphus, Tourn.</i>	Jujube-tree	Rhamnus

A P P E N D I X.

A TABLE, containing such English Names of Plants as have been most generally received, whether Specific or Generic ; and shewing the Titles of the Genera under which they are severally ranged in the LINNÆAN System.

N. B. The *English* Titles are distinguished by the *Roman* Characters, and the *LINNÆAN* by the *Italic*.—The *Latin* Names in common Use, such as *Anemone*, *Ranunculus*, &c. are omitted in this List, being to be found in the first Table.

A	
Abele, <i>Populus</i>	Ale-cost, <i>Tanacetum</i>
Abelmosk, <i>Hibiscus</i>	Ale-hoof, <i>Glechoma</i>
Acacia, <i>Mimosa</i>	Alexanders, <i>Smyrnum</i>
Acacia, false, <i>Robinia</i>	Alkali, <i>Salicornia</i>
Acacia, German, <i>Prunus</i>	Alkanet, <i>Lithospermum</i>
Acacia, three thorned, <i>Gleditsia</i>	Alkekengi, <i>Physalis</i>
Acajou, <i>Anacardium</i>	All-good, <i>Chenopodium</i>
Aconite, <i>Aconitum</i>	All-heal, Clowns, <i>Stachys</i>
Aconite, Winter, <i>Helleborus</i>	All-heal, Hercules's, <i>Pastinaca</i>
Adam's Apple, <i>Citrus</i>	All-heal, Hercules's, <i>Heracleum</i>
Adam's Needle, <i>Yucca</i>	All-seed, <i>Linum</i>
Adder's-wort, <i>Polygonum</i>	All-spice, <i>Myrtus</i>
Adder's Tongue, <i>Ophioglossum</i>	Alligator Pear, <i>Laurus</i>
Adragant, Gum, see <i>Tragacanth</i>	Almond, <i>Amygdalus</i>
Agaric, <i>Agaricus</i>	Almond, African, <i>Brabejum</i>
Agnus castus, <i>Vitex</i>	Almond, Ethiopian, <i>Brabejum</i>
Agrimony, <i>Agrimonia</i>	Aloe, American, <i>Agave</i>
Agrimony, Bastard, <i>Agrimonia</i>	Aloe, Water, <i>Stratiotes</i>
Agrimony, Hemp, <i>Eupatorium</i>	Althæa frutex, <i>Hibiscus</i>
Agrimony, Bastard Hemp, <i>Age-</i>	Alysson, Roughleaved, <i>Sabularia</i>
<i>ratum</i>	Amaranth, <i>Amaranthus</i>
Agrimony, Naked-headed Hemp	Amaranth, Globe, <i>Gomphrena</i>
<i>Verbena</i>	Amber Tree, <i>Anthospermum</i>
Agrimony, Water Hemp, <i>Bidens</i>	Amellus of Virgil, <i>Aster</i>
Ague Tree, <i>Laurus</i>	Amomum, Plinii, <i>Solanum</i>
Alaternus, Bastard, <i>Phyllica</i>	Amomum, German, <i>Sison</i>
Alder, <i>Betula</i>	Ananas, <i>Bromelia</i>
Alder, Black or Berry-bearing,	Ananas, Wild, <i>Bromelia</i>
<i>Rhamnus</i>	Anemone, Wood, <i>Anemone</i>
	Angelica, Berry-bearing, <i>Aralia</i>
	An-

- Angelica, Wild, *Ægopodium*
 Angelica Tree, *Aralia*
 Anise, *Pimpinella*
 Anotta, *Bixa*
 Apeiba of the Brafilians, *Sloanea*
 Apple, *Pyrus*
 Apple, Adam's, *Citrus*
 Apple, Blad, *Cactus*
 Apple, Custard, *Annona*
 Apple, Love, *Solanum*
 Apple, Mad, *Solanum*
 Apple, Male Balsam, *Momordica*
 Apple May, *Podophyllum*
 Apple, Pine, *Bromelia*
 Apple, Purple, *Annona*
 Apple, Soap, *Sapindus*
 Apple, Sour, *Annona*
 Apple, Star, *Chrysophyllum*
 Apple Sugar, *Annona*
 Apple, Sweet, *Annona*
 Apple, Thorn, *Datura*
 Apple, Water, *Annona*
 Apricot, *Prunus*
 Arbor Vitæ, *Thuja*
 Arbutus, Trailing *Epigæa*
 Archangel, *Lamium*
 Archangel, Baum-leav'd *Melittis*
 Archangel, Yellow, *Galeopsis*
 Arrowhead, *Sagittaria*
 Arrow-headed Grass, *Triglochin*
 Arrow-root, Indian, *Maranta*
 Arse-smart, *Polygonum*
 Artichoke, *Cynara*
 Artichoke, Jerusalem, *Helianthus*
 Arum, African, *Calia*
 Arum, Floating, *Orentium*
 Asarabacca, *Asarum*
 Ash, *Fraxinus*
 Ash, Mountain, *Sorbus*
 Ash, Poison, *Rhus*
 Asparagus, Climbing African
 Medeola
- Asp, or Aspen Tree, *Populus*
 Asphodel, *Asphodelus*
 Asphodel, African, *Anthericum*
 Asphodel, Lily, *Hemerocallis*
 Asphodel, Lily, *Crinum*
 Asses Cucumber, *Momordica*
 Atamaasco Lily, *Amaryllis*
 Avens, *Geum*
 Avocado Pear, *Laurus*
 Avogato, Pear, *Laurus*
 Auricula, *Primula*
 Auricula, Borrage-leav'd, *Ver-
 basicum*
 Ax-vetch, see Hatchet-vetch
 Azarole, *Cratægus*
 Azerira, *Prunus*
- B
- Balauftine, *Punica*
 Balm, see Baum
 Balm of Gilead *
 Balm of Gilead, false, *Dracoco-
 phalon*
 Balsam, *Impatiens*
 Balsam of Tolu, *Toluifera*
 Balsam Apple, Male, *Momordica*
 Balsam Tree, *Clusia*
 Balsam Tree, *Pistacia*
 Balsam Tree, *Copaisera*
 Balsamine, Female, *Impatiens*
 Bambu Cane, *Arundo*
 Banana, *Musa*
 Bane-berries, *Aëta*
 Banian Tree, *Ficus*
 Bark, True Jesuits's, *Cinchona*
 Bark, False Jesuit's, *Iva*
 Bark, Ilathera, *Clusia*
 Bark, Winter's, *Laurus*
 Barley, *Hordeum*
 Barren-wort, *Epimedium*
 Base-tree, Trefoil, *Cytisus*
 Basil, *Ocimum*

* This is the *Balsamum Syriacum Rutæ folio* of Caspar Bauhin, and seems to be omitted by Linnaeus.

- Basil, Field, *Clinopodium*
 Basil, American Field, *Monarda*
 Basil, Syrian Field, *Ziziphora*
 Basil, Stone, *Thymus*
 Basil, Wild, *Thymus*
 Batchelor's Buttons, *Lychnis*
 Batchelor's Pear, *Solanum*
 Baum, *Melissa*
 Baum, Baitard, *Melittis*
 Baum, Moldavian, *Dracocephalum*
 Baum, Molucca, *Moluccella*
 Baum, Turkey, *Dracocephalum*
 Bay, *Laurus*
 Bay, Loblolly, *Gordonia*
 Bay, Rose, *Nerium*
 Bay, Dwarf Rose, *Rhododendrum*
 Bay, Mountain Rose, *Rhododendrum*
 Bay, Sweet-flowering, *Magnolia*
 Bay Plum, *Psidium*
 Bead Tree, *Melia*
 Bean, *Vicia*
 Bean, Bog, *Menyanthes*
 Bean, French, *Phaseolus*
 Bean, Kidney, *Phaseolus*
 Bean Tree, Kidney, *Glycine*
 Bean Tree of America, *Erythrina*
 Bean Tree, Binding, *Mimosa*
 Bean Caper, *Zygophyllum*
 Bean Trefoil, *Cytisus*
 Bean Trefoil, Stinking, *Anagyris*
 Bear-berries, *Arbutus*
 Bear-bind, *Convolvulus*
 Bear's-breech, *Acanthus*
 Bear's-ear, *Primula*
 Bear's-ear, Sanicle, *Cortusa*
 Bear's-foot, *Helleborus*
 Beard, Old Man's, *Clematis*
 Beech, *Fagus*
 Beet, *Beta*
 Bee-flower, *Ophrys*
 Behen, White, *Cucubalus*
 Bell-flower, *Campanula*
 Bells, Canterbury, *Campanula*
 Bells, Coventry, *Campanula*
 Bells, Hair, *Hyacinthus*
 Bell-Pepper, *Capsicum*
 Belladonna Lily, *Amaryllis*
 Belvidere, *Chenopodium*
 Belly-ach-weed, *Jatropha*
 Benjamin Tree, *Laurus*
 Bennet, Herb, *Geum*
 Berberry, *Berberis*
 Bermudiana, *Sisyrinchium*
 Betony, *Betonica*
 Betony, Paul's, *Veronica*
 Betony, Water, *Scrophularia*
 Big, *Hordeum*
 Bilberry, *Vaccinium*
 Bindweed, *Convolvulus*
 Bindweed, Black, *Tomus*
 Bindweed, Rough, *Smilax*
 Birch, *Betula*
 Birch of Jamaica, *Pistacia*
 Bird cherry, *Prunus*
 Bird Pepper, *Capsicum*
 Bird's Eye, *Adonis*
 Bird's Foot, *Ornithopus*
 Bird's Foot Trefoil, *Lotus*
 Bird's Nest, *Ophrys*
 Bird's Nest, Purple, *Orchis*
 Birth-wort, *Aristolochia*
 Bishop's-weed, *Anni*
 Bistort, *Polygonum*
 Bitter-gourd, *Cucumis*
 Bitter-sweet, *Solanum*
 Bitter-vetch, *Ervum*
 Bitter-vetch, *Orobus*
 Bitter-vetch, Jointed podded, *Ervum*
 Bitter-wort, *Gentiana*
 Blackberry, *Rubus*
 Blad Apple, *Cactus*
 Bladder Nut, *Staphylæa*
 Bladder Nut, African, *Royena*
 Bladder Nut, Laurel leaved, *Ilex*
 Bladder Senna, *Colutea*
 Bladder Senna, Jointed podded, *Coronilla*
 Blessed Thistle, *Cnicus*
 Blinks,

- Blinks, *Montia*
 Blite, *Blitum*
 Blite, *Amaranthus*
 Blood-flower, *Hæmanthus*
 Blood-wood, *Hæmatoxylon*
 Blood-wort, *Rumex*
 Blue bottle, *Centaurea*
 Bogbean, *Menyanthes*
 Bogberries, *Vaccinium*
 Bogwhorts, *Vaccinium*
 Bonduc, *Guilandina*
 Bonnet Pepper, *Capsicum*
 Bore-cole, *Brassica*
 Borrage, *Borrago*
 Bottle-flower, *Centaurea*
 Box, *Buxus*
 Box, African, *Myrsine*
 Box, Low, *Polygala*
 Boxthorn, *Lycium*
 Brakes, *Pteris*
 Bramble, *Rubus*
 Brank, *Polygonum*
 Brank, Urfine, *Acanthus*
 Brasiletto, *Cæsalpina*
 Break-stone, *Saxifraga*
 Break-stone, Parsley, *Aphanes*
 Briar, Sweet, *Rosa*
 Briar, Wild, *Rosa*
 Brimstone-wort, *Peucedanum*
 Bristol, Flower of, *Lychnis*
 Broccoli, *Brassica*
 Brooklime, *Veronica*
 Broom, *Spartium*
 Broom, African, *Aspalathus*
 Broom, Dyer's, *Genista*
 Broom, Dwarf, *Genista*
 Broom, Single seeded, *Genista*
 Broom, Rape, *Orobanchè*
 Broom Rape, with great Purple
 Flowers, *Lathræa*
 Brown-wort, *Scrophularia*
 Brown-wort, *Prunella*
 Bryony, *Bryonia*
 Bryony, Black, *Tamus*
 Buckler, Mustard, *Biscutella*
 Bucks-horn Plantain, *Plantago*
 Bucks-horn, Warded, *Cochlearia*
 Buck-thorn, *Rhamnus*
 Buck-thorn, Sea, *Hippophaë*
 Buck-wheat, *Polygonum*
 Bugbane, see Bogbean
 Bugle, *Ajuga*
 Buglofs, *Anchusa*
 Buglofs, Small wild, *Asperugo*
 Buglofs, Viper's, *Echium*
 Bullace Tree, *Chrysohyllum*
 Bullace Tree, *Prunus*
 Burdock, *Arctium*
 Burdock, Lesser, *Xanthium*
 Burnet, Garden, *Poterium*
 Burnet, Greater wild, *Sanguisorba*
 Burnet, Saxifrage, *Pimpinella*
 Burning thorny Plant, *Euphorbia*
 Burr Reed, *Sparganium*
 Butcher's Broom, *Ruscus*
 Butter Burr, *Tussilago*
 Butter-wort, *Pinguicula*
 Button Tree, *Conocarpus*
 Button Weed, *Spermacoce*
 Button Wood, *Cephalanthus*
- C
- Cabbage, *Brassica*
 Cabbage, Dog's, *Theligonum*
 Cabbage, Sea, *Crambe*
 Cabbage Tree, *Cacalia*
 Calabash, *Cucurbita*
 Calabash Tree, *Crescentia*
 Calamint, *Melissa*
 Calamint, Water, *Mentha*
 Cale, *Brassica*
 Cale, Sea, *Crambe*
 Caltrops, *Tribulus*
 Caltrops, Water, *Trapa*
 Calve's Snout, *Antirrhinum*
 Cammock, *Ononis*
 Campeachy Wood, *Hæmatoxylon*
 Camphor Tree, *Laurus*
 Champion, *Angrostema*
 Champion, *Lychnis*
- Champion

- Campion, Viscous, *Silene*
 Canary-grass, *Phalaris*
 Candle of the Indians, see Kandel
 Candleberry Myrtle, *Myrica*
 Candy Carrot, *Athamanta*
 Candy Lion's Foot, *Catananche*
 Candy Tuft, *Iberis*
 Candy Tuft Tree, *Iberis*
 Cane or Reed, *Arundo*
 Cane, Sugar, *Saccharum*
 Canterbury Bells, *Campanula*
 Caper-bush, *Capparis*
 Caper, Bean, *Zygophyllum*
 Caraway, *Carum*
 Cardinal-flower, *Lobelia*
 Carlisle Thistle, *Carlina*
 Carnation, *Dianthus*
 Carnation, Spanish, *Poinciana*
 Carnation Tree, *Cacalia*
 Carob Tree, *Ceratonia*
 Carrot, *Daucus*
 Carrot, Candy, *Athamanta*
 Carrot, Deadly, *Thapsia*
 Carui, *Carum*
 Cashew-nut, *Anacardium*
 Cassava, *Jatropha*
 Cassia, Poet's, *Osyris*
 Cassidony, *Gnaphalium*
 Cassiobury Bush, *Cassine*
 Catchfly, *Silene*
 Catmint, *Nepeta*
 Cat's-foot, *Glechoma*
 Cat's-foot Mountain, *gnaphalium*
 Cat's-tail, *Typha*
 Caterpillars, *Scorpiurus*
 Cauliflower, *Brassica*
 Cedar, *Juniperus*
 Cedar of Jamaica, Bastard,
Theobroma
 Cedar, White, *Cupressus*
 Cedar of Busaco, *Cupressus*
 Cedar of Libanus, *Pinus*
 Celandine, *Chelidonium*
 Celandine, Lesser, *Ranunculus*
 Celandine, Tree, *Bocconia*
 Celeriac, *Apium*
 Celery, *Apium*
 Centaurey, *Centaurea*
 Centaury, Lesser, *Gentiana*
 Ceterach, *Asplenium*
 Chamomile, *Anthemis*
 Chardon, *Cynara*
 Charlock, *Sinapi*
 Charlock, White-flowered,
 with jointed Pods, *Raphanus*
 Chaste Tree, *Vitex*
 Cheese Rennet, *Galium*
 Cherry, *Prunus*
 Cherry, Barbadoes, *Malpighia*
 Cherry, Bird, *Prunus*
 Cherry, Cornelian, *Cornus*
 Cherry, Dwarf, *Lonicera*
 Cherry, Hottentot, *Cassine*
 Cherry, Winter, *Physalis*
 Cherry, Winter, *Solanum*
 Cherry of the Alps, *Lonicera*
 Cherry Laurel, *Prunus*
 Chervil, Garden, *Scandix*
 Chervil, Wild, *Chærophyllum*
 Chestnut, *Fagus*
 Chestnut, Horse, *Æsculus*
 Chestnut, Indian Rose, *Mesua*
 Chick Pease, *Cicer*
 Chiches, *Cicer*
 Chichling Vetch, *Lathyrus*
 Chickweed, *Alfina*
 Chickweed, African, *Mollugo*
 Chickweed, Berry-bearing,
Cucubalus
 Chickweed, Great, *Stellaria*
 Chickweed Mountain, *moehringia*
 Chickweed, Mouseear, *Cerastium*
 Chickweed, Small water, *Montia*
 China Root, *Smilax*
 China, Rose, *Hibiscus*
 Chinquapin, *Fagus*
 Chocolate-nut, *Theobroma*
 Christmas Rose, *Helleborus*
 Christopher, Herb, *Actæa*
 Christ's-Thorn, *Rhamnus*

Chry.

- Chrysanthemum, Bastard, *Silphium*
 Chrysanthemum, Hard-seeded, *Osteospermum*
 Ciboules, *Allium*
 Cicely, Sweet, *Scandix*
 Cinnamon Tree, *Laurus*
 Cinnamon, White, *Laurus*
 Cinquefoil, *Potentilla*
 Cinquefoil, Marsh, *Comarum*
 Cistus, Marsh, *Ledum*
 Cistus, Lesser Marsh, *Andromeda*
 Cistus, Nettle-leaved, *Turnera*
 Cistus, Rape of, *Asarum*
 Citron, *Citrus*
 Citrul, *Cucurbita*
 Cives, *Allium*
 Clary, *Salvia*
 Clary, Pyrænean, *Horminum*
 Clivers, *Galium*
 Clove July Flower, *Dianthus*
 Clove Tree, *Caryophyllus*
 Clover, *Trifolium*
 Clover, Dutch, *Trifolium*
 Clown's, Allheal, *Stachys*
 Clown's Wound-wort, *Stachys*
 Cob-nut, *Corylus*
 Cock's-comb, *Celosia*
 Cock's-comb, *Pedicularis*
 Cock's-comb, yellow *Rhinanthus*
 Cock's-head, *Hedysarum*
 Cocoa-nut, *Cocos*
 Cocoa-plumb, *Chrysobalanus*
 Codlin Tree, *Pyrus*
 Codlins and Cream, *Epilobium*
 Coffee Tree, *Coffea*
 Cole-seed, *Brassica*
 Cole-rape, *Brassica*
 Cole-wort, *Brassica*
 Cole-wort, Sea, *Crambe*
 Cole-wort, Sea, *Convolvulus*
 Coloquintida, *Cucumis*
 Colt's-foot, *Tussilago*
 Colt's-foot, Alpine, *Cacalia*
 Colt's-foot, Foreign, *Cacalia*
 Columbine, *Aquilegia*
 Columbine Feathered, *Thalictrum*
 Colutea, Jointed-podded, *Coronilla*
 Comphry, *Symphytum*
 Confound, Greater, *Symphytum*
 Confound, Lesser, *Bellis*
 Confound, Middle, *Ajuga*
 Confound, Royal, *Delphinium*
 Confound, Saracen's *Solidago*
 Confound, the True Saracen's, *Senecio*
 Contrayerva, *Dorstenia*
 Contrayerva of Hernandez, *Passiflora*
 Convall, Lily, *Convallaria*
 Coral Tree, *Eribrina*
 Coriander, *Coriandrum*
 Cork Tree, *Quercus*
 Corn, Indian, *Zea*
 Corn Flag, *Gladiolus*
 Corn Marigold, *Chrysanthemum*
 Corn Parsley, *Sison*
 Corn Rocket, *Bunias*
 Corn Rose, *Papaver*
 Corn Sallad, *Valeriana*
 Cornel Tree, *Cornus*
 Cornelian Cherry, *Cornus*
 Costmary, *Tanacetum*
 Cotton, *Gossypium*
 Cotton, Lavender, *Santolina*
 Cotton Tree, Silk, *Bombax*
 Cotton Grass, *Eriophorum*
 Cotton Weed, *Filago*
 Coventy Bells, *Campanula*
 Courbaril, *Hymenæa*
 Cowslip, *Primula*
 Cowslip, American, *Dodecatheon*
 Cowslip, Jerusalem, *Pulmonaria*
 Cowslip, Mountain, *Pulmonaria*
 Cow's Lung-wort, *Verbascum*
 Cow Parsnep, *Heraclium*
 Cow Weed, *Chærophylum*
 Cow Wheat, *Melampyrum*
 Coxcomb, see Cock's comb
 Crab Tree, *Pyrus*

D

- Crake-berries, *Empetrum*
 Cranberries, *Vaccinium*
 Crane's Bill, *Geranium*
 Creeper, Virginian, *Hedera*
 Crefs, *Lepidium*
 Crefs, Indian, *Tropæolum*
 Crefs, Sciatica, *Iberis*
 Crefs, Spanish, *Vella*
 Crefs, Swine's, *Cochlearia*
 Crefs, Wall, *Turritis*
 Crefs, Warded, *Cochlearia*
 Crefs, Water, *Sisymbrium*
 Cross, Winter, *Erysimum*
 Cross, Jerufalem, *Lychnis*
 Cross, Knights, *Lychnis*
 Cross, Scarlet, *Lychnis*
 Cross-wort, *Valantia*
 Crowberries, *Empetrum*
 Crow-foot, *Ranunculus*
 Crown Imperial, *Fritillaria*
 Cuckow-flower, *Cardamine*
 Cuckow Pint, *Arum*
 Cucumber, *Cucumis*
 Cucumber, Asses, *Momordica*
 Cucumber, Egyptian, *Momordica*
 Cucumber, Serpent, *trichosanthes*
 Cucumber, Single-seeded, *Sicyos*
 Cucumber, Small creeping, *Me-
lotbria*
 Cucumber, Spirting, *Momordica*
 Cucumber, Wild, *Momordica*
 Cudweed, *Gnaphalium*
 Cudweed, Bastard, *Micropus*
 Cullions, *Orchis*
 Cullions, Soldier's, *Orchis*
 Cumin, *Cuminum*
 Cumin, Bastard, *Lagæcia*
 Cumin, Wild, *Lagæcia*
 Cup Mushroom, *Peziza*
 Currant Tree, *Ribes*
 Cushion Ladies, *Saxifraga*
 Cushion, Sea, *Statice*
 Custard, Apple, *Annona*
 Cypress, *Cupressus*
 Cypress, Summer, *Chenopodium*
 Daffodil, *Narcissus*
 Daffodil, Lily, *Amaryllis*
 Daffodil, Lily, *Panocratium*
 Daffodil, Sea, *Panocratium*
 Daify, *Bellis*
 Daify, Blue, *Globularia*
 Daify, Globe, *Globularia*
 Daify, Greater, *Chrysanthemum*
 Daify, Middle, *Doronicum*
 Daify, Ox-eye, *Chrysanthemum*
 Dame's Violet, *Hesperis*
 Damson Tree, *Prunus*
 Damson Tree, *Chrysofhyllum*
 Dandelion, *Leontodon*
 Dane-wort, *Sambucus*
 Darnel, *Lolium*
 Date Plum, Indian, *Diospyros*
 Date Tree, *Phœnix*
 Day Lily, *Hemerocallis*
 Dead Nettle, *Lamium*
 Dead Nettle, Yellow, *Galeopsis*
 Deadly Carrot, *Fbapsia*
 Deadly Nightshade, *Atropa*
 Devil in a Bush, *Nigella*
 Devil's Bit, *Scabiosa*
 Devil's Bit, Yellow, *Leontodon*
 Dewberry Bush, *Rubus*
 Dier's Broom, *Genista*
 Dier's Weed, *Reseda*
 Dier's Weed, *Genista*
 Dill, *Anethum*
 Distaff Thistle, *Atractylis*
 Distaff Thistle, *Cacthamus*
 Dittander, *Lepidium*
 Dittany, *Origanum*
 Dittany, Bastard, *Marrubium*
 Dittany, White, *Dictamnus*
 Dock, *Rumex*
 Doctor Tinker's Weed, *Triosteum*
 Dodder, *Cuscuta*
 Dodder of Thyme, *Cuscuta*
 Dog's Bane, *Apocynum*
 Dog's Bane, *Asclepias*

Dog

- | | |
|---|--|
| Dog Berry, <i>Cornus</i> | Eryngo, <i>Eryngium</i> |
| Dog's Cabbage, <i>Theligonum</i> | Eschalot, <i>Allium</i> |
| Dog's Rue, <i>Scrophularia</i> | Eternal Flower, <i>Xeranthemum</i> |
| Dog's Stones, <i>Orchis</i> | Eternal Flower, <i>Gnaphalium</i> |
| Dog's Tooth, or Dog's Tooth | Eternal Flower, <i>Gomphrena</i> |
| Violet, <i>Erythronium</i> | Evergreen, <i>Aizoon</i> |
| Dogwood, <i>Cornus</i> | Evergreen, <i>Sempervivum</i> |
| Dogwood of Jamaica, <i>Erythrina</i> | Everlasting, <i>Xeranthemum</i> |
| Double Tongue, <i>Ruscus</i> | Everlasting, <i>Gomphrena</i> |
| Dove's Foot, <i>Geranium</i> | Everlasting, <i>Gnaphalium</i> |
| Dragons, <i>Dracontium</i> | Euonymus, Climbing, <i>Celastrus</i> |
| Dragons, <i>Arum</i> | Euonymus, Bastard, <i>Kiggellaria</i> |
| Dragon's Head, <i>Dracocephalum</i> | Euonymus, Bastard, <i>Celastrus</i> |
| Dragon's Water, <i>Calla</i> | Eye-bright, <i>Euphrasia</i> |
| Dragon's Wort, <i>Artemisia</i> | |
| Dragon, Gum, see Tragacanth | F |
| Dragon, Wild, <i>Artemisia</i> | Farting Tree, <i>Hura</i> |
| Drop-wort, <i>Spiræa</i> | Faufel Nut, <i>Areca</i> |
| Drop-wort, Hemlock, <i>Oenanthe</i> | Felwort, <i>Gentiana</i> |
| Drop-water, <i>Oenanthe</i> | Felon-wort, <i>Solanum</i> |
| Duck's-meat, <i>Lemna</i> | Fennel, <i>Anethum</i> |
| Duck's-meat, Starry, <i>Callitriche</i> | Fennel, Hog's, <i>Peucedanum</i> |
| Duck's-foot, <i>Podophyllum</i> | Fennel, Scorching, <i>Thapsia</i> |
| Dwale, <i>Atropa</i> | Fennel, Sea, <i>Crithmum</i> |
| | Fennel Flower, <i>Nigella</i> |
| E | Fennel Flower of Crete, <i>Garidella</i> |
| Ebony, Cretan, <i>Ebenus</i> | Fennel Giant, <i>Ferula</i> |
| Ebony, False, <i>Poinciana</i> | Fenugreek, <i>Trigonella</i> |
| Ebony of the Alps, <i>Cytisus</i> | Fern, Common Male, <i>Polypodium</i> |
| Ebony, Mountain, <i>Bauhinia</i> | Fern, Common Female, |
| Edders, <i>Arum</i> | <i>Polypodium</i> |
| Egg Plant, <i>Solanum</i> | Fern, Flowering, <i>Osmunda</i> |
| Eglantine, <i>Rosa</i> | Fern, Common, or True Mule's, |
| Elder Tree, <i>Sambucus</i> | <i>Asplenium</i> |
| Elder, Marsh, <i>Viburnum</i> | Fern, Mule's, <i>Hemionitis</i> |
| Elecampane, <i>Inula</i> | Fern, Sweet, <i>Scandix</i> |
| Elecampane, Bastard, <i>Helenia</i> | Feverfew, <i>Matricaria</i> |
| Elemi Tree, Gum, <i>Pistacia</i> | Feverfew, Bastard, <i>Parthenium</i> |
| Elephant's Foot, <i>Elephantopus</i> | Fever-root, <i>Triocheum</i> |
| Elephant's Head, <i>Rhinanthus</i> | Fever-weed, <i>Eryngium</i> |
| Elichrysum, Bastard Ethiopian | Fiddle-wood, <i>Citharexylum</i> |
| <i>Stoebe</i> | Field Basil, <i>Clenopodium</i> |
| Elm, <i>Ulmus</i> | Field Basil, American, <i>Monarda</i> |
| Enchanter's Nightshade, <i>Circæa</i> | Field Basil, Syrian, <i>Ziziphora</i> |
| Endive, <i>Cichorium</i> | Fig, <i>Ficus</i> |
| | Fig, Indian, <i>Cactus</i> |

- Fig, Infernal, *Argemone*
 Fig, Pharoah's, *Ficus*
 Fig, Pharoah's, *Musa*
 Fig, Marigold, *Mesembryanthemum*
 Fig Tree, Cochineal, *Caëtus*
 Fig-wort, *Scrophularia*
 Filberd, *Corylus*
 Fingrigo, *Pisonia*
 Finochia, *Anethum*
 Fir, *Pinus*
 Fir Moss, Upright, *Lycopodium*
 Fish Thistle, *Carduus*
 Flag, or Flag-flower, *Iris*
 Flag, Corn, *Gladiolus*
 Flag, Sweet-scented, *Acorus*
 Flax, *Linum*
 Flax, Carolina, *Polyprenum*
 Flax, Toad, *Antirrhinum*
 Fleabane, *Conyza*
 Fleabane, Marsh, *Inula*
 Fleabane, Middle, *Inula*
 Fleabane, Shrubby African, *Tarhonanthus*
 Fleabane Tree, *Tarhonanthus*
 Flea-wort, *Plantago*
 Flix-weed, *Sisymbrium*
 Flower of Bristol, *Lychnis*
 Flower of constantinople, *Lychnis*
 Flower, Gentle, *Amaranthus*
 Flower of an Hour, *Hibiscus*
 Flower de Luce, *Iris*
 Flower-fence of Barbadoes, *Poinciana*
 Flower-fence, Bastard, *Adenantha*
 Fluellin, *Antirrhinum*
 Fly Honeyfuckle, *Lonicera*
 Fly Honeyfuckle, African, *Hal-leria*
 Fly Bane, *Silene*
 Fly-wort, *Silene*
 Fool's Parsley, *Æthusa*
 Fool's Stones, *Orchis*
 Four o'Clock Flower, *Mirabilis*
 Fox Glove, *Digitalis*
 Fox Tail Grass, *Alopecurus*
 Frankincense Jew's, *Styrax*
 Frankincense Tree, *Pinus*
 Fraxinella, *Dictamnus*
 French Bean, *Phaseolus*
 French Honeyfuckle, *Hedysarum*
 Fresh Water Soldier, *Stratiotes*
 Fryer's Cowl, *Arum*
 Fringe Tree, *Chionanthus*
 Fritillary, *Fritillaria*
 Fritillary Coxcomb, *Stapelia*
 Frog's Bit, *Hydrocharis*
 Fuller's Thistle, *Dipsacus*
 Fumatory, *Fumaria*
 Furze, *Ulex*
 Fustic Tree, *Morus*
- G
- Gale, or Sweet Gale, *Myrica*
 Galingale, *Cyperus*
 Garavances, *Cicer*
 Garlick, *Allium*
 Garlick Pear, *Crateva*
 Gatter Tree, *Cornus*
 Gelder Rose, *Viburnum*
 Gelder Rose, Currant-leav'd, *Spiræa*
 Gelder Rose, Virginian, *Spiræa*
 Gentian, *Gentiana*
 Gentian, Bastard, *Sarothra*
 Gentianella, *Gentiana*
 Gentle, Flower, *Amaranthus*
 Gerard, Herb, *Ægopodium*
 Germander, *Teucrium*
 Germander, Rock, *Veronica*
 Germander, Water, *Teucrium*
 Gilead, False Baum of, *Dracocephalum*
 Gill, *Glechoma*
 Gilly-flower, see July-flower
 Ginger, *Amomum*
 Ginseng, *Panax*
 Gladiole, Water, *Butomus*
 Gladiole, Water, *Lobelia*
 Gladwin, Stinking, *Iris*

- Glasf-wort, *Salsola*
 Glasf-wort, Berry-bearing, *Anabasis*
 Glasf-wort, Jointed, *Salicornia*
 Globe Amaranth, *Gomphrena*
 Globe Daify, *Globularia*
 Globe Flower, *Sphaeranthus*
 Globe Ranunculus, *Trollius*
 Globe Thistle, *Echinops*
 Goat's Beard, *Tragopogon*
 Goat's Rue, *Galega*
 Goat's Stones, greater, *Satyrium*
 Goat's Stones, lesser, *Orchis*
 Goat's Thorn, *Astragalus*
 Gold of Pleasure, *Myagrurn*
 Golden Cups, *Ranunculus*
 Golden Lung-wort, *Hieracium*
 Golden Maidenhair, *Polytrichum*
 Golden Mouse-ear, *Hieracium*
 Golden Rod, *Solidago*
 Golden Rod Tree, *Bosia*
 Golden Samphire, *Imula*
 Golden Saxifrage, *Chrysofplenium*
 Golden Thistle, *Scolymus*
 Goldy Locks, *Chrysocoma*
 Goldy Locks, *Gnaphalium*
 Good Henry, *Chenopodium*
 Gooseberry, *Ribes*
 Gooseberry, American, *Melastoma*
 Gooseberry of the Americans, *Cactus*
 Gooseberry of Barbadoes, *Cactus*
 Goose-foot, *Chenopodium*
 Goose Grass, *Galium*
 Goose Grass, great, *Asperugo*
 Goose Tongue, *Achillea*
 Go to bed at Noon, *Tragopogon*
 Gorse, *Ulex*
 Gourd, *Cucurbita*
 Gourd, Bitter, *Cucumis*
 Gourd, Ethiopian, Sour, *Adansonia*
 Gourd Tree, Indian, *Crescentia*
 Gout wort, *Ægopodium*
 Grace, Herb of, *Ruta*
 Grain, Oily Purging, *Sesamum*
 Grain, Scarlet, *Quercus*
 Grain, Scarlet, *Cactus*
 Grape, *Vitis*
 Grape, Mangrove, *Polygonum*
 Grape, Sea-side, *Polygonum*
 Grape, Hyacinth, *Hyacinthus*
 Grass of Parnassus, *Parnassia*
 Grass Vetch, Crimfon, *Lathyrus*
 Grass, Wrack, *Zostera*
 Gravel-bind, *Convolvulus*
 Greek Valerian, *Polemonium*
 Green-weed, *Genista*
 Grim the Collier, *Hieracium*
 Gromwell, or Gromil, *Lithospermum*
 Gromwell, German, *Stellera*
 Ground Ivy, *Glechoma*
 Ground Nut, *Arachis*
 Ground Pine, *Teucrium*
 Ground Pine, Stinking, *Camphorosma*
 Groundsel, *Senecio*
 Groundsel Tree, *Baccharis*
 Groundsel Tree with a Ficoides Leaf, *Cacalia*
 Guava, see Guayava
 Guava, French, *Cassia*
 Guayava, *Psidium*
 Gum Elemi Tree, *Pistacia*
 Gum Succory, *Chondrilla*
 Gum Tragacanth, *Astragalus*
 Gum, Sweet, *Liquidamber*

H

- Hairbells, *Hyacinthus*
 Hare's-ear, *Bupleurum*
 Hare's-ear, Bastard, *Phyllis*
 Hare's Lettuce, *Sonchus*
 Hart's horn Plantain, *Plantago*
 Hart's-tongue, *Asplenium*
 Hart-wort, *Seseli*
 Hart-wort of Crete, *Tordylium*
 Hart

Hartwort, Shrubby, of Ethiopia <i>Bupleurum</i>	Hemlock, Great broad-leaved Bastard, <i>Ligusticum</i>
Hart-wort of Marseilles, <i>Seseli</i>	Hemlock, Lesser, <i>Æthusa</i>
Hatchet Vetch, True, <i>Coronilla</i>	Hemlock, Water, <i>Cicuta</i>
Hatchet Vetch, Clufius's Foreign, <i>Biferrula</i>	Hemlock Drop-wort, <i>Oenanthe</i>
Hawk-weed, <i>Hieracium</i>	Hemp, <i>Cannabis</i>
Hawk-weed, Bastard <i>Crepis</i>	Hemp, Bastard, <i>Datisca</i>
Hawk-weed, Trailingcrooked seeded, <i>Hyoseris</i>	Hemp, Bastard, <i>Galeopsis</i>
Hawk-weed, Woolly, <i>Andryala</i>	Hemp Agrimony, <i>Eupatorium</i>
Hawthorn, or Haw, <i>Cratægus</i>	Hemp Agrimony, Bastard, <i>Ageratum</i>
Hawthorn, Black American, <i>Viburnum</i>	Hemp Agrimony, Naked-headed, <i>Verbena</i>
Hay, Burgundian, <i>Medicago</i>	Hemp Agrimony, Water, <i>Bidens</i>
Hazel, or Hazel Nut, <i>Corylus</i>	Henbane, <i>Hyoscyamus</i>
Hazel, Witch, <i>Hamamelis</i>	Henbane, Yellow, <i>Nicotiana</i>
Hazel, Witch, <i>Ulmus</i>	Henweed, Guinea, <i>Petiveria</i>
Heart Pea, <i>Cardiospermum</i>	Hepatica, <i>Anemone</i>
Heart Seed, <i>Cardiospermum</i>	Hep Tree, <i>Rosa</i>
Heart's Ease, <i>Viola</i>	Herb Bane, <i>Orobanche</i>
Heath, <i>Erica</i>	Herb Bane, Great Purple, <i>Lathraea</i>
Heath, Berry-bearing, <i>Empetrum</i>	Herb Bennet, <i>Geum</i>
Heath, Black-berried, <i>Empetrum</i>	Herb Christopher, <i>Actæa</i>
Heath, Mountain, <i>Saxifraga</i>	Herb Gerard, <i>Ægopodium</i>
Heath, Low Pine, <i>Coris</i>	Herb of Grace, <i>Ruta</i>
Heath, Pease, <i>Orobus</i>	Herb Mastick, <i>Satureia</i>
Hedge, Hog, <i>Medicago</i>	Herb Paris, <i>Paris</i>
Hedge Hog Thistle, <i>Cactus</i>	Herb Paris of Canada, <i>Trillium</i>
Hedge Hog Thorn, Spanish, <i>Anthyllus</i>	Herb Robert, <i>Geranium</i>
Hedge Hyssop, <i>Gratiola</i>	Herb Trinity, <i>Viola</i>
Hedge Mustard, <i>Erysimum</i>	Herb Truelove, <i>Paris</i>
Hedge Nettle, <i>Galeopsis</i>	Herb Truelove of Canada, <i>Trillium</i>
Hedge Nettle, Shrubby, <i>Prasium</i>	Herb Two-pence, <i>Lysimachia</i>
Hellebore, <i>Helleborus</i>	Herb, Blessed, <i>Geum</i>
Hellebore, Bastard, <i>Serapias</i>	Herb, Saint Bartholomew's, <i>Ilex</i>
Hellebore, Black, <i>Helleborus</i>	Herb, Willow, <i>Epilobium</i>
Hellebore, Fennel-leaved Black <i>Adonis</i>	Herb, Willow, <i>Lythrum</i>
Hellebore, White, <i>Veratrum</i>	Herb, Willow, <i>Lysimachia</i>
Helleborine, <i>Serapias</i>	Hercules's Allheal, <i>Pastinaca</i>
Helmet-flower, <i>Aconitum</i>	Hercules's Allheal, <i>Heracleum</i>
Hemlock, <i>Conium</i>	Hercules's Club, <i>Zanthoxylon</i>

Z

Hic-

- Hiccory Nut, *Juglans*
 High Taper, *Verbascum*
 Hind-berry, *Rubus*
 Hog Plumb-tree, *Spondias*
 Hog's Fennel, *Peucedanum*
 Hogweed of the Americans,
 Boerhaavia
 Hollow Root, *Adoxa*
 Holly, *Ilex*
 Holly, Knee, *Ruscus*
 Holly, Sea, *Eryngium*
 Hollyhock, *Alcea*
 Holy Thistle, *Cnicus*
 Honesty, *Lunaria*
 Hone-wort, *Sison*
 Honey-flower, *Melianthus*
 Honey Locust, *Gleditsia*
 Honeyfuckle, *Lonicera*
 Honeyfuckle, African Fly, *Hal-*
 leria
 Honeyfuckle, American Up-
 right, *Azalea*
 Honeyfuckle, French, *hedysarum*
 Honeyfuckle Grass, *Trifolium*
 Honey-wort, *Cerinthe*
 Hop, *Humulus*
 Hop-tree, *Ilex*
 Horehound, *Marrubium*
 Horehound, Base, *Stachys*
 Horehound, Bastard *Sideritis*
 Horehound, Black, *Ballota*
 Horehound, Stinking Marth
 Bastard, *Glechoma*
 Horehound, Water, *Lycopus*
 Hornbeam, *Carpinus*
 Horns, *Medicago*
 Horse Chestnut, *Æsculus*
 Horse Purslane, *Trianthema*
 Horse Radish, *Cochlearia*
 Horse shoe Vetch, *Hippocrepis*
 Horse-tail, *Equisetum*
 Horse-tail, Shrubby, *Ephedra*
 Horse-tongue, *Ruscus*
 Hottentot Cherry, *Cassine*
 Hound's-tongue, *Cynoglossum*
 Houseleek, *Semper-vivum*
 Houseleek, Lesser, *Sedum*
 Houseleek, Small-annual, *Tillæa*
 Houseleek, Water, of Egypt,
 Pistia
 Hyacinth, *Hyacinthus*
 Hyacinth, African Blue umbel-
 lated, *Crinum*
 Hyacinth, Lily, *Scilla*
 Hyacinth, Peruvian, *Scilla*
 Hyacinth, Starry, *Scilla*
 Hyssop, *Hyssopus*
 Hyssop, Hedge, *Gratiola*
 Hyssop, Mountain, *Thymbra*
- I
- Jacinth, *Hyacinthus*
 Jack in a Box, *Hernandia*
 Jack by the Hedge, *Erysimum*
 Jacob's Ladder, *Polemonium*
 Jacobæ Lily, *Amaryllis*
 Jalap, *Mirabilis*
 Jasmine, *Jasminum*
 Jasmine, Arabian, *Nyctanthes*
 Jasmine, Bastard, *Cestrum*
 Jasmine, Bastard, *Lycium*
 Jasmine, Ilex-leaved, *Lantana*
 Jasmine, Fennel-leaved, *Ipomoea*
 Jasmine, Persian, *Syringa*
 Jasmine, Red, *Plumeria*
 Jasmine, Scarlet, *Bignonia*
 Jasmine, Yellow, *Bignonia*
 Jericho, Rose, of *Anastatica*
 Jersey, Thea, New, *Ceanothus*
 Jerusalem Artichoke, *Helianthus*
 Jerusalem Cowslip, *Pulmonaria*
 Jerusalem Cross, *Lycnis*
 Jerusalem, Oak, *Chenopodium*
 Jerusalem Sage, *Phlomis*
 Jerusalem, Sage of, *Pulmonaria*
 Jassamine, see Jasmine
 Jesuits Bark-tree, True, *Cin-*
 chona
 Jesuits Bark-tree, False, *Iva*
 Jew's Frankincense, *Styrax*
 Jew's Mallow, *Corchorus*

Plathera, Bark, <i>Clusia</i>	Kidney Vetch, <i>Anthyllis</i>
Immortal Eagleflower, <i>Impatiens</i>	Kidney-wort, <i>Saxifraga</i>
Immortal flower, <i>Gomphrena</i>	King's Spear, <i>Asphodelus</i>
Indian God Tree, <i>Ficus</i>	Knapweed, <i>Centaurea</i>
Indian Shot, <i>Canna</i>	Knapweed, Thorny, <i>Centaurea</i>
Indigo, <i>Indigofera</i>	Knawel, <i>Scleranthus</i>
Indigo, Bastard, <i>Amorpha</i>	Knee Holly, <i>Ruscus</i>
Infernal, Fig, <i>Argemone</i>	Knee Holm, <i>Ruscus</i>
Job's Tears, <i>Coix</i>	Knight's Cross, <i>Lychnis</i>
Johnsonia, <i>Callicarpa</i>	Knot Berries, <i>Rubus</i>
Jonquill, <i>Narcissus</i>	Knot Grass, <i>Polygonum</i>
Ipecacuana, Bastard, <i>Asclepias</i>	Knot Grass, German, <i>Scleranthus</i>
Ipecacuana, False, <i>Triosteum</i>	Knot Grass, mountain, <i>Illecebrum</i>
Iris, Uvaria, <i>Aletris</i>	Knot Grass, Verticillate, <i>Illecebrum</i>
Iron-wood, <i>Sideroxylum</i>	
Iron-wort, <i>Sideritis</i>	

L

Judas-tree, <i>Cercis</i>	Laburnum, <i>Cytisus</i>
Jujube-tree, <i>Rhamnus</i>	Ladder to Heaven, <i>Convallaria</i>
July-flower, Clove, <i>Dianthus</i>	Ladder, Jacob's, <i>Polemonium</i>
July-flower, Queen's, <i>Hesperis</i>	Lady's Bedstraw, <i>Galium</i>
July-flower, Stock, <i>Cheiranthus</i>	Lady's Bower, <i>Clematis</i>
Juniper, <i>Juniperus</i>	Lady's Comb, <i>Scandix</i>
Jupiter's Beard, <i>Anthyllis</i>	Lady's Cushion, <i>Saxifraga</i>
Jupiter's Beard, American, <i>Amorpha</i>	Lady's Finger, <i>Anthyllis</i>
Jupiter's Distaff, <i>Salvia</i>	Lady's Mantle, <i>Alchemilla</i>
Ivy, <i>Hedera</i>	Lady's Seal, <i>Tamus</i>
Ivy, Bindweed-leaved, <i>Menispermum</i>	Lady's Slipper, <i>Cypripedium</i>
Ivy, Ground, <i>Glechoma</i>	Lady's Smock, <i>Cardamine</i>
Ivy-tree of America, <i>Kalmia</i>	Lady's Traces, Triple, <i>Ophrys</i>

K

Kale, Sea, <i>Crambe</i>	Lakeweed, <i>Polygonum</i>
Kali, <i>Salifolia</i>	Lamb's Lettuce, <i>Valeriana</i>
Kali, Egyptian, <i>Mesembryanthemum</i>	Larch-tree, <i>Pinus</i>
Kali, Sal, <i>Salicornia</i>	Lark's Heel, <i>Delphinium</i>
Kandel of the Indians, <i>Rhizophora</i>	Lark's Spur, <i>Delphinium</i>
Kelp, <i>Salicornia</i>	Lafer wort, <i>Laserpitium</i>
Kermes, <i>Quercus</i>	Lavender, <i>Lavandula</i>
Kidney Bean, <i>Phaseolus</i>	Lavender, Sea, <i>Statice</i>
Kidney Bean-tree of Carolina, <i>Glycine</i>	Lavender Cotton, <i>Santolina</i>
	Laurel, <i>Prunus</i>
	Laurel, Alexandrian, <i>Ruscus</i>
	Laurel, Dwarf, of America, <i>Kalmia</i>
	Laurel, Flax-leaved, <i>Daphne</i>
	Laurel, Sea-side, <i>Phyllanthus</i>
	Laurel, Spurge, <i>Daphne</i>

- Laurustinus, *Viburnum*
 Lauſkraut, *Delphinium*
 Lead-wort, *Plumbago*
 Leather-wood, *Dirca*
 Leek, *Allium*
 Lemon, *Citrus*
 Lemon, Water, *Passiflora*
 Lentils, *Ervum*
 Lentisk, *Pistacia*
 Lentisk, African, *Schinus*
 Lentisk, Peruvian, *Schinus*
 Leopard's Bane, *Doronicum*
 Lettuce, *Lactuca*
 Lettuce, Hare's, *Sonchus*
 Lettuce, Lamb's, *Valeriana*
 Lettuce, Wild, *Prenanthes*
 Life, Tree of *Thuja*
 Life, Wood of, *Guaiacum*
 Life Everlasting, *Gnaphalium*
 Lignum, Aloes, *Cordia*
 Lignum Vitæ, *Guaiacum*
 Lilac, *Syringa*
 Lily, *Lilium*
 Lily, African Searlet, *Amaryllis*
 Lily, Asphodel, *Crinum*
 Lily, Atamaſco, *Amaryllis*
 Lily, Belladonna, *Amaryllis*
 Lily, St. Bruno's, *Hemerocallis*
 Lily, Conval, *Convallaria*
 Lily, Day, *Hemerocallis*
 Lily, Guernſey, *Amaryllis*
 Lily Jacobæa, *Amaryllis*
 Lily, Japan, *Amaryllis*
 Lily, May, *Convallaria*
 Lily, Mexican, *Amaryllis*
 Lily, Perſian, *Fritillaria*
 Lily, Superb, *Glorioſa*
 Lily, Water, *Nymphæa*
 Lily, Leſſer Yellow Water, with
 fringed Flowers, *Menyanthes*
 Lily, Zeylon, *Amaryllis*
 Lily, Asphodel, *Hemerocallis*
 Lily, Daſſodil, *Amaryllis*
 Lily, Daſſodil, *Pancreatium*
 Lily, Hyacinth, *Scilla*
 Lily, Thorn, *Cateſbæa*
 Lily of the Valley, *Convallaria*
 Lime, *Citrus*
 Lime Brook, *Veronica*
 Lime-tree, *Tilia*
 Linden-tree, *Tilia*
 Lion's-foot, Candy, *Catananche*
 Lion's-leaf, *Leontice*
 Lion's-tail, *Leonurus*
 Lipplehout, *Caffine*
 Liquorice, *Glycyrrhiza*
 Liquorice, Wild, *Astragalus*
 Liquorice, Wild, *Capraria*
 Liquorice, Wild, *Glycine*
 Liquorice, Vetch, *Astragalus*
 Liquorice Vetch, Knobbed-
 rooted, *Glycine*
 Live-ever, *Sedum*
 Live-long, *Sedum*
 Liver-wort, *Lichen*
 Liver-wort, Marſh, *Riccia*
 Liver-wort, Noble, *Anemone*
 Lizard's-tail, *Saururus*
 Lizard's-tail, *Piper*
 Loblolly Bay, *Gordonia*
 Locker Gowlans, *Trollius*
 Locuſt, *Meliantbus*
 Locuſt, *Ceratonia*
 Locuſt, Baſtard, *Hymenæa*
 Locuſt-tree, *Hymenæa*
 Locuſt-tree, *Robinia*
 Locuſt-tree, Honey, *Gleditſca*
 Logwood, *Hæmatoxylon*
 London Pride, *Saxifraga*
 Loofe-ſtrife, *Lyſmachia*
 Loofe-ſtrife, podded, *Epilobium*
 Loofe-ſtrife, Purple, *Lythrum*
 Loofe-ſtrife, Spiked, *Lythrum*
 Loofe-ſtrife, Yellow Virginian,
Gaura
 Lords and Ladies, *Arum*
 Lotus, or Lote-tree, *Celtis*
 Lotus, ſuppoſed, of Homer, *Dio-
 ſpyros*
 Lotus, Honey, *Trifolium*
 Lovage, *Ligultiſicum*
 Love, Tree of, *Cercis*

- Love Apple, *Solanum*
 Love in a Mist, *Passiflora*
 Love lies a bleeding, *Amaranthus*
 Loufe-wort, *Pedicularis*
 Loufe-wort, Yellow, *Rhinanthus*
 Lucern Grass, *Medicago*
 Lung-wort, *Pulmonaria*
 Lung-wort, Cow's, *Verbascum*
 Lung-wort, Golden, *Hieracium*
 Lupine, *Lupinus*
 Lust-wort, *Drosera*
 Lychnidea, *Phlox*
 Lychnis, Bastard, *Phlox*
 Lychnis, Wild, *Agrostema*
- M
- Mace, Reed, *Typha*
 Mad Apple, *Solanum*
 Madder, *Rubia*
 Madder, Little Field, *Sberardia*
 Madder, Petty, *Crucianella*
 Mad-wort, *Alyssum*
 Mad-wort, German, *Asperugo*
 Mahaleb, *Prunus*
 Maho-tree, *Hibiscus*
 Maiden-hair, *Adiantum*
 Maiden-hair, English black, *Asplenium*
 Maiden-hair, Golden, *Polytrichum*
 Maiden-hair, White, *Asplenium*
 Maiden Plum, *Chrysoalanus*
 Malabar Nut, *Justicia*
 Male Balsam Apple, *Momordica*
 Mallow, *Malva*
 Mallow Bastard, *Malope*
 Mallow, Jew's, *Corchorus*
 Mallow, Indian, *Sida*
 Mallow, Indian, *Urena*
 Mallow, Marsh, *Althæa*
 Mallow, Rose, *Alcea*
 Mallow, Syrian, *Hibiscus*
 Mallow, Tree, *Lavatera*
 Mallow, Variedleav'd, *Lavatera*
 Mallow, Venetian, *Lavatera*
 Mallow, Vervain, *Malva*
- Mallow, Yellow, *Sida*
 Mammee, *Mammea*
 Mammee, Sapota, *Achras*
 Manchineel-tree, *Hippomane*
 Mandrake, *Mandragora*
 Mango-tree, *Mangifera*
 Mangostan, or Mangosteent,
Garcinia
 Mangrove Grape, *Polygonum*
 Mangrove-tree of America,
Rhizophora
 Manihot, *Jatropha*
 Maple, *Acer*
 Maracock, *Passiflora*
 Marigold, *Calendula*
 Marigold, African, *Tagetes*
 Marigold, Corn, *Chrysanthemum*
 Marigold, Fig, *Mejembryanthemum*
 Marigold, French, *Tagetes*
 Marigold, Marsh, *Caltha*
 Marjoram, common, or sweet,
Origanum
 Marjoram, Bastard, *Origanum*
 Marjoram, Pot, *Origanum*
 Marjoram, Spanish, *Urtica*
 Marjoram, Wild, *Origanum*
 Marjoram, Winter sweet, *Origanum*
 Marsh-Mallow, see Mallow
 Martagon, *Lilium*
 Marvel of Peru, *Mirabilis*
 Marum, Common, *Satureia*
 Marum, Pennyroyal-scented,
Melissa
 Marum, Syrian or Cretan, *Origanum*
 Master-wort, *Imperatoria*
 Master-wort, Black, *Astrantia*
 Mastick, Herb, *Satureia*
 Mastich, Indian, *Schinus*
 Mastich, Peruvian, *Schinus*
 Mastich-tree, *Pistachia*
 Mastich-tree, Indian, *Schinus*
 Mastich Thyme, *Satureia*
 Mastich Thyme, *Thymus*

- Matfellow, *Centaurea*
 Mat-weed, Hooded, *Lygeum*
 Maudlin, *Achillea*
 May Apple, *Podophyllum*
 May Bush, *Cratægus*
 May Lily, *Convallaria*
 May Weed, *Anthemis*
 Mays, *Zea*
 Meadia, *Dodecatheon*
 Meadow Rue, *Thalictrum*
 Meadow Saffron, *Colchicum*
 Meadow Saxifrage, *Peucedanum*
 Meadow-sweet, *Spiræa*
 Meadow-sweet, Greater, *Spiræa*
 Meadow, Queen of the, *Spiræa*
 Mealy-tree, Pliant, *Viburnum*
 Medic, *Medicago*
 Medic, Bastard, *Medicago*
 Medic, Sea, *Medicago*
 Medic, Vetch, *Hedysarum*
 Medic, Vetchling, *Hedysarum*
 Medlar, *Mespilus*
 Medusa's Head, *Euphorbia*
 Melancholy Thistle, *Carduus*
 Melancholy-tree, *Nyctanthes*
 Melilot, *Trifolium*
 Melilot Trefoil, *Trifolium*
 Melon, *Cucumis*
 Melon, Water, *Cucurbita*
 Melon-Thistle, *Cactus*
 Mercury, *Mercurialis*
 Mercury, English, *Cbenopodium*
 Mezereon, *Daphne*
 Meu, *Athamanta*
 Mignonette, *Reseda*
 Milfoil, *Achillea*
 Milfoil, Water, *Hottonia*
 Milfoil, Water, *Miriophyllum*
 Milfoil, Water, *Utricularia*
 Milk Vetch, *Astragalus*
 Milk Vetch, Bastard, *Phaca*
 Milk Wood, *Bignonia*
 Milk-wort, *Polygala*
 Milk-wort, *Euphorbia*
 Milk-wort, Sea, *Glaux*
 Millet, *Panicum*
 Millet-grass, *Milium*
 Millet, Indian, *Holcus*
 Milt-waste, *Asplenium*
 Mint, *Mentha*
 Mint, Cat, *Nepeta*
 Mistletoe, *Viscum*
 Mithridate Mustard, *Thlaspi*
 Mithridate Mustard, Bastard, *Iberis*
 Mock Orange, *Philadelphus*
 Mock Privet, *Phillyrea*
 Moldavian Baum, *Dracocephalum*
 Molucca Baum, *Moluccella*
 Moly with Lily-flowers, or Homer's, *Allium*
 Money-wort, *Lyfimachia*
 Monk's-head, *Leontodron*
 Monk's-hood, *Aconitum*
 Monk's Rhubarb, *Rumex*
 Monster, *Fritillaria*
 Moon Seed, *Menispermum*
 Moon Trefoil, *Medicago*
 Moon-wort, *Lunaria*
 Moor Berries, *Vaccinium*
 Moschatel, Tuberoſe, *Adoxa*
 Moss-tree, *Lichen*
 Moss, Upright Fir, *Lycopodium*
 Moss, Water, *Fontinalis*
 Moss-berries, *Vaccinium*
 Moth Mullein, *Verbascum*
 Mother of Thyme, *Thymus*
 Mother-wort, *Leonurus*
 Mouse-ear, *Hieracium*
 Mouse-ear, Creeping, *Hieracium*
 Mouse-ear, Golden, *Hieracium*
 Mouse-earchickweed, *Cerastium*
 Mouse-ear Scorpion-grass, *Myosotis*
 Mouse-tail, *Myosurus*
 Mug-wort, *Artemiſia*
 Mulberry-tree, *Morus*
 Mulberry Blite, *Blitum*
 Mule Fairchild's, *Dianthus*
 Mule-

Mule-wort, *Hemionitis*
 Mule's Fern, *Hemionitis*
 Mullein, *Verbascum*
 Mullein, Moth, *Verbascum*
 Mushrooms, *Agaricus*
 Mushrooms, Cup, *Peziza*
 Musk Seed, *Hibiscus*
 Mustard, *Sinapis*
 Mustard, Bastard, *Cleome*
 Mustard, Buckler, *Biscutella*
 Mustard, Hedge, *Erysimum*
 Mustard, Mithridate, *Thlaspi*
 Mustard, Bastard Mithridate,
Iberis
 Mustard, Tower, *Turritis*
 Mustard, Bastard Tower, *Arabis*
 Mustard, Treacle, *Clypeola*
 Mustard Treacle, *Thlaspi*
 Myrtle, *Myrtus*
 Myrtle, Candleberry, *Myrica*
 Myrtle, Dutch, *Myrica*

N

Naked Ladies, *Colchicum*
 Naples, Star of, *Ornithogalum*
 Narcissus, Third, of Matthiolum,
Pancratium
 Naseberry-tree, *Sloanea*
 Navel-wort, *Cotyledon*
 Navel-wort, Bastard, *Crassula*
 Navel-wort, False, *Crassula*
 Navel-wort, Venus's, *Cynoglossum*
 Navel-wort, Water, *Hydrocotyle*
 Navew, *Brassica*
 Nectarine, *Amygdalus*
 Nep, *Nepeta*
 Nettle, *Urtica*
 Nettle, Dead, *Lamium*
 Nettle, Hedge, *Galeopsis*
 Nettle, Shrubby Hedge, *Prasium*
 Nettle-tree, *Celtis*
 Nickar-tree, *Guilandina*
 Nightshade, *Solanum*
 Nightshade, American, *Phyto-*
lacca

Nightshade, American, *Rivina*
 Nightshade, Bastard, *Rivina*
 Nightshade, Deadly, *Atropa*
 Nightshade, enchanter's, *Circæa*
 Nightshade, Malabar, *Basella*
 Nightshade, Three-leaved,
Trillium
 Nipple-wort, *Lapsana*
 Noli me tangere, *Impatiens*
 Noli me tangere, *Momordica*
 None so pretty, *Saxifraga*
 Nonfuch, *Lychnis*
 Nose-bleed, *Achillea*
 Nut-tree, *Corylus*
 Nut Bladder, *Staphylæa*
 Nut, Cashew, *Anacardium*
 Nut, Chocolate, *Theobroma*
 Nut, Cob, *Corylus*
 Nut, Cocoa, *Cocos*
 Nut, Earth, *Bunium*
 Nut, Faufel, *Areca*
 Nut, Ground, *Arachis*
 Nut, Hazel, *Corylus*
 Nut, Malabar, *Justicia*
 Nut, Pease Earth, *Lathyrus*
 Nut, Physic, *Jatropha*
 Nut, Physic, *Croton*
 Nut, Pig, *Bunium*
 Nut, Pistacia, *Pistacia*
 Nut, Purging, *Croton*
 Nut, Purging, *Jatropha*
 Nut, Spanish, *Iris*
 Nut, Walnut, *Juglans*

O

Oak, *Quercus*
 Oak, Dwarf, *Teucrium*
 Oak of Cappadocia, *Ambrosia*
 Oak of Jerusalem, *Chenopodium*
 Oak, Poison, *Rhus*
 Oats, *Avena*
 Oats, Seaside of Carolina, *Uniola*
 Oats, Wild-bearded, *Bromus*
 Oat-grass, *Bromus*
 Oil Nut, *Ricinus*
 Oil Seed, *Ricinus*

- Oil-tree, *Ricinus*
 Oily Purging Grain, *Sesamum*
 Okra, *Hibiscus*
 Old Man's Beard, *Clematis*
 Old Man's Head, *Dianthus*
 Oleander, *Nerium*
 Oleaster, *Elæagnus*
 Olive, *Olea*
 Olive, Spurge, *Daphne*
 Olive, Wild, *Elæagnus*
 Olive, Wild, of Barbadoes,
Bontia
 One Berry, *Paris*
 One Blade, *Convallaria*
 Onion, *Allium*
 Onion, Sea, *Scilla*
 Orange, *Citrus*
 Orange, Mock, *Philadelphus*
 Origany, *Origanum*
 Oroonoka, *Nicotiana*
 Orpine, *Sedum*
 Orpine, Bastard, *Adrachne*
 Orpine, Lesser, *Crassula*
 Orpine, True, of Imperatus,
Telephium
 Orrach, *Atriplex*
 Orrach, Berry-bearing, *Blitum*
 Orrach, Creeping-shrubby,
Atraphaxis
 Orrach, Wild, *Chenopodium*
 Osier, *Salix*
 Osmund Royal, *Osmunda*
 Ox-eye, *Buphtalmum*
 Ox eye of old Authors, *Anthemis*
 Ox-eye Daisy, *Chrysanthemum*
 Ox-lips, *Primula*
 Ox-tongue, *Picris*
 Oswego Tea, *Monarda*
- P
- Pæony, *Pæonia*
 Pagils or Paigles, *Primula*
 Painted Ladies, *Dianthus*
 Painted Lady Pease, *Lathyrus*
- Palm, Common or Greater, or
 Date-tree, *Phœnix*
 Palm, Lesser or Dwarf, *Chamæ-
 rops*
 Palm, The Cocoa Nut, *Cocos*
 Palm, The Faufel Nut, *Areca*
 Palm, Malabar, called Ampana
 and Carimpana, *Borassus*
 Palm, Wild Malabar, called
 Katou Indel, *Elate*
 Palm, Mountain, with largest
 Leaves, called Codda Pan-
 na, *Corypha*
 Palm with ringed Stems, called
 Todda Panna, *Cycas*
 Palm with bipinnate Leaves call-
 ed Schunda Panna, *Caryota*
 Palma Christi, *Ricinus*
 Palmetto, *Chamærops*
 Panic, *Panicum*
 Panic-grass, *Panicum*
 Pansies, *Viola*
 Papaw-tree, *Carica*
 Papaw-tree of North America,
Annona
 Paraguay Tea, *Ilex*
 Park-leaves, *Hypericum*
 Parsley, *Apium*
 Parsley, Bastard, *Caucalis*
 Parsley, Corn, *Sison*
 Parsley, Fool's, *Æthusa*
 Parsley, Macedonian, *Bubon*
 Parsley, Milky, *Selinum*
 Parsley, Mountain, *Athamanta*
 Parsley, Stone, *Bubon*
 Parsley, Bastard Stone, *Sison*
 Parsley, Wild, *Sison*
 Parsley, Wild, of America, *Car-
 diospermum*
 Parsley, Break-stone, *Aphanes*
 Parsley Piert, *Aphanes*
 Parsnep, *Pastinaca*
 Parsnep, Cow's, *Heracleum*
 Parsnep, Prickly, *Echinophora*
 Parsnep, Water, *Sium*
- Par-

- Parnassus, Grafs of, *Parnassia*
 Pasque-flower, *Anemone*
 Passion-flower, *Passiflora*
 Patience, *Rumex*
 Paul's Betony, *Veronica*
 Pea, *Pisum*
 Pea, Chich, *Cicer*
 Pea, Chichling, *Lathyrus*
 Pea, Earth-nut, *Lathyrus*
 Pea, Everlasting, *Lathyrus*
 Pea, Heart, *Cardiospermum*
 Pea, Heath, *Orobus*
 Pea, Painted Lady, *Lathyrus*
 Pea, Pigeon, *Cytisus*
 Pea, Sweet-scented, *Lathyrus*
 Pea, Tangier, *Lathyrus*
 Pea, Winged, *Lotus*
 Pea, Wild Winged, *Pisum*
 Pea, Wood, *Orobus*
 Peach, *Amygdalus*
 Peach, Wolf's, *Solanum*
 Pear, *Pyrus*
 Pear, Avocado, Avocado, or
 Alligator, *Laurus*
 Pear, Batchelor's, *Solanum*
 Pear, Garlick, *Crateva*
 Pear, Prickly, *Cactus*
 Pellitory, *Parietaria*
 Pellitory, Bastard, *Achillea*
 Pellitory, Double, *Achillea*
 Pellitory of Spain, *Anthemis*
 Pellitory of Spain, False, *Chry-*
 santhemum
 Pellitory-tree, *Zanthoxylum*
 Pellitory of the Wall, *Parietaria*
 Penny-royal, *Mentha*
 Penny-royal, Virginian, *Satureia*
 Penny-wort, Marsh, *Hydrocotyle*
 Penny-wort, Wall, *Cotyledon*
 Penny-wort, Water, *Hydrocotyle*
 Penguin, *Bromelia*
 Pentstemon, *Chelone*
 Peony, see Pæony
 Pepper, *Piper*
 Pepper, Barbary, *Capsicum*
 Pepper, Bell, *Capsicum*
 Pepper, Bird, *Capsicum*
 Pepper, Bonnet, *Capsicum*
 Pepper, Guinea, *Capsicum*
 Pepper, Jamaica, *Myrtus*
 Pepper, Indian, *Capsicum*
 Pepper, Long, *Piper*
 Pepper, Poor Man's, *Lepidium*
 Pepper, Wall, *Sedum*
 Pepper, Water, *Polygonum*
 Pepper-grafs, *Pilularia*
 Pepper-pot, *Capsicum*
 Pepper-tree, *Vitis*
 Pepper-wort, *Lepidium*
 Percepier, *Aphanes*
 Periwinkle, *Vinca*
 Persicaria, *Polygonum*
 Persimon Plum, see Pishamin
 Pestilent-wort, *Tussilago*
 Petroseline Wortle, *Apium*
 Petty Madder, *Crucianella*
 Petty Whin, *Ononis*
 Pharaoh's Fig, *Musa*
 Pharaoh's Fig, *Ficus*
 Pheasant's Eye, *Adonis*
 Phyllyrea False, *Rhamnus*
 Phu, *Valeriana*
 Physic, Nut, *Jatropha*
 Physic, Nut, *Croton*
 Physic, Pork, *Phytolacca*
 Pick-tooth, *Daucus*
 Pigeon, Pea, *Cytisus*
 Pig Nut, *Bunium*
 Pig Nut, *Juglans*
 Pile-wort, *Ranunculus*
 Pimento, *Myrtus*
 Pimpernel, *Anagallis*
 Pimpernel, Water, *Veronica*
 Pimpernel, Round-leaved Wa-
 ter, *Samolus*
 Pimpernel, Yellow, of the
 Woods, *Lyfimachia*
 Pimpillo, *Cactus*
 Pinafler, *Pinus*
 Pine-tree, *Pinus*

Pine,

- Pine, Ground, *Teucrium*
 Pine, Stinking Ground, *Camphorosma*
 Pine, Heath low, *Coris*
 Pine-apple, *Bromelia*
 Pine-apple, Wild, *Bromelia*
 Pine-apple, Wild, *Renealmia*
 Pink, *Dianthus*
 Pink, Indian, *Ipomoea*
 Pink, Indian, *Lonicera*
 Pink, Sea, *Statice*
 Pinpillow, see Pimpillo
 Pipe-tree, *Syringa*
 Pipe-tree, Pudding *Cassia*
 Piperidge Bush, *Berberis*
 Pippen, *Pyrus*
 Piquets, *Dianthus*
 Pishamin Plum, *Diospyros*
 Pifs-a-bed, *Leontodon*
 Pistacia Nut, *Pistacia*
 Pistacia-tree, Black Virginian, *Hamamelis*
 Pistacia, Hazel-leaved, *Hamamelis*
 Pitch-tree, *Pinus*
 Pitchumon-plum, see Pishumin
 Plaintain-tree, see Plantain
 Plane-tree, *Platanus*
 Plane-tree, False, *Acer*
 Plant, Burningthorny, *Euphorbia*
 Plant, Egg, *Solanum*
 Plant, Humble, *Mimosa*
 Plant, Sensitive, *Mimosa*
 Plant, Bastard sensitive, *Æschynomene*
 Plantain, *Plantago*
 Plantain, Buck's-horn, *Plantago*
 Plantain, Hartshorn *Plantago*
 Plantain, Water, *Alisma*
 Plantain, Least Water, *Limosella*
 Plantain, Star-headed Water, *Alisma*
 Plantain Shot, *Canna*
 Plantain-tree, *Musa*
 Pliant Mealy-tree, *Viburnum*
 Plowman's Spikenard, *Baccharis*
 Plowman's Spikenard, *Conyzæ*
 Plum-tree, *Prunus*
 Plum, American Black, *Chrysebalanus*
 Plum, Bay, *Psidium*
 Plum, Brasilian, *Spondias*
 Plum, Cocoa, *Chrysebalanus*
 Plum, Hog, *Spondias*
 Plum, Indian Date, *Diospyros*
 Plum, Maiden, *Chrysebalanus*
 Plum, Pishamin, Persimon, or Pitchumon, *Diospyros*
 Pocoon, see Puccoon
 Pockwood, *Guaiacum*
 Poet's Cassia, *Osyris*
 Poet's Rosemary, *Osyris*
 Poison Ash, *Rhus*
 Poison-berry, *Cestrum*
 Poison-bush, *Euphorbia*
 Poison Oak, *Rhus*
 Poison Tree, *Rhus*
 Poison Wood, *Rhus*
 Poke, Virginian, *Phytolacca*
 Poley Mountain, *Teucrium*
 Poley-grass, *Lytbrum*
 Polypody, *Polypodium*
 Pomegranate, *Punica*
 Pompion, *Cucurbita*
 Pond-weed, *Potamogeton*
 Pond-weed, Triple-headed, *Zannichellia*
 Poor Man's Pepper, *Lepidium*
 Poplar, *Populus*
 Poppy, *Papaver*
 Poppy, Horned, *Chelidonium*
 Poppy, Prickly, *Argemone*
 Poppy, Spatling *Cucubalus*
 Pork, Physic, *Phytolacca*
 Potatoe, *Solanum*
 Potatoe, Indian, *Dioscorea*
 Potatoe, Spanish, *Convolvulus*
 Prick Madaræ, *Sedum*
 Prick Wood, *Euonymus*
 Primrose, *Primula*
 Primrose, Night, *Oenothera*
 Primrose, Peerless, *Narcissus*
 Prim.

Primrose-tree, *Oenothera*
 Princes Feather, *Amaranthus*
 Privet, *Ligustrum*
 Privet, Evergreen, *Rhamnus*
 Privet, Mock, *Phillyrea*
 Puccoon, *Sanguinaria*
 Pudding-grais, *Mentha*
 Pudding-Pipe-tree *Cassia*
 Pumpkin, see Pompion
 Pumpkin, see Pompion
 Purging Grain, Oily, *Sesamum*
 Purging Nut, *Croton*
 Purging Nut, *Jatropha*
 Purging Thorn, *Rhamnus*
 Purple Apple, *Annona*
 Purslane, *Portulaca*
 Purslane Horse, *Trianthema*
 Purslane, Sea, *Atriplex*
 Purslane, Water, *Peplis*
 Purslane, Tree Sea, *Atriplex*

Q

Quamoclit, *Ipomœa*
 Queen of the Meadows, *Spirœa*
 Queen's July-flower, *Hesperis*
 Queen's Violet, *Hesperis*
 Quick, *Cratægus*
 Quicken, *Sorbus*
 Quickbeam-tree, *Sorbus*
 Quince-tree, *Pyrus*

R

Radish, *Raphanus*
 Radith, Horse, *Cochlearia*
 Radith, Water, *Sisymbrium*
 Ragged Robin, *Lychnis*
 Ragwort, Common, *Senecio*
 Ragwort, African, *Othonna*
 Ragworts, Sundry, of old Au-
 thors, *Senecio*
 Ragworts, Sundry, of old Au-
 thors, *Solidago*
 Rampions, Horned, *Phyteuma*
 Rampions, Crested, *Lobelia*

Rampions, Common Esculent,
Campanula
 Rampions with scabious Heads,
Jasione
 Ramsons, *Allium*
 Ranunculus, Globe, *Trollius*
 Rape, *Brassica*
 Rape, Broom, *Orobanche*
 Rape, Cole, *Brassica*
 Rape of Cistus, *Ajarum*
 Raspberry, *Rubus*
 Rattle, *Pedicularis*
 Rattle, Yellow, *Rhinanthus*
 Rattle snake Root, Senegaw,
Polygala
 Rattlesnake Root, Dr. Witts,
Prenanthes
 Rattlesnake Weed, *Eryngium*
 Redbud, *Cercis*
 Red Whorts, Spanish, *Arbutus*
 Reddish, see Radish
 Reed, *Arundo*
 Reed, Burr, *Sparganium*
 Reed, Indian-flowering, *Canna*
 Reed Mace, *Typha*
 Rennet, Cheese, *Galium*
 Rest Harrow, *Ononis*
 Rhamnus, Bastard, *Hippophaë*
 Rhubarb, *Rheum*
 Rhubarb, Monks, *Rumex*
 Rib-wort, *Plantago*
 Rice, *Oryza*
 Ricinus, Bastard, *Croton*
 Roane-tree, *Sorbus*
 Robert, Herb, *Geranium*
 Rocambole, *Allium*
 Roch Germander, *Veronica*
 Rock Rose, *Cistus*
 Rocket, *Brassica*
 Rocket, Bastard, *Reseda*
 Rocket, Corn, *Bunias*
 Rocket, Marsh, *Sisymbrium*
 Rocket, Sea, *Bunias*
 Rocket Square-codded, of
 Montpelier, *Bunias*
 Rocket,

- Rocket, Water, *Sisymbrium*
 Rocket, Winter, *Sisymbrium*
 Rocket or Dame's, Violet,
Hesperis
 Rod, Aaron's, *Solidago*
 Rod, Golden, *Solidago*
 Rod-tree, Golden, *Bosca*
 Rod, Shepherd's, *Dipsacus*
 Root, Indian Arrow, *Maranta*
 Root, China, *Smilax*
 Root, False China, *Senecio*
 Root, Fever, *Trioesteum*
 Root, Hollow, *Adoxa*
 Root, Rose, *Rhodiola*
 Root, Snake, *Aristolochia*
 Root, Snake, black or Wild of
 America, *Aetæa*
 Root, Dr. Witts's Rattlesnake,
Prenanthes
 Root, Senegaw Rattlesnake, *Po-
 lygala*
 Root, Sweet, *Glycyrrhiza*
 Rose, *Rosa*
 Rose, China, *Hibiscus*
 Rose, Christmas, *Helleborus*
 Rose, Corn, *Papaver*
 Rose, Gelder, *Viburnum*
 Rose, Gelderland, *Viburnum*
 Rose, Virginian Gelder, *Spiræa*
 Rose, Martinico, *Hibiscus*
 Rose, Rock, *Cistus*
 Rose of Jericho, *Anastatica*
 Rose Bay, *Nerium*
 Rose Bay Dwarf, *Rhododendron*
 Rose Bay, Mountain, *Rhododen-
 drum*
 Rose Bay Willowherb, *Epilobium*
 Rose Mallow, *Aleca*
 Rose Root, *Rhodiola*
 Rosemary, *Rosmarinus*
 Rosemary, Poet's, *Oxyris*
 Rosemary, Wild, *Ledum*
 Rosemary, Lesser wild, *Anáro-
 meda*
 Rue, *Ruta*
 Rue, Dog's, *Scrophularia*
 Rue, Goat's, *Galega*
 Rue, Meadow, *Thalictrum*
 Rue, Wall, *Asplenium*
 Rue, Wild Syrian, *Peganum*
 Rupture-wort, *Herniaria*
 Rupture-wort, Least, *Linum*
 Rush, *Juncus*
 Rush, Flowering, *Butomus*
 Rush, Lesser flowering, *Scheuch-
 zeria*
 Rush, Round, black-headed
 Marsh or Bog, *Schoenus*
 Rush, Sweet, *Acorus*
 Rush-grafs, *Scirpus*
 Ruyschiana, *Dracocephalon*
 Rye, *Secale*
 Rye, Wild, *Hordeum*
 Rye-grafs, *Hordeum*
- S
- Saffron, *Crocus*
 Saffron, Bastard, *Carthamus*
 Saffron, Meadow, *Colchicum*
 Sage, *Salvia*
 Sage, Wild, *Teucrium*
 Sage, Indian Wild, *Lantana*
 Sage, Wood, *Teucrium*
 Sage of Jerusalem, *Pulmonaria*
 Sage of Jerusalem, *Phlomis*
 Sage-tree, *Phlomis*
 Saint Bartholomew's Herb, *Ilex*
 Saint Bruno's Lily, *Hemerocallis*
 Saint John's Bread, *Ceratonia*
 Saint John's-wort, *Hypericum*
 Saint Peter's-wort, *Aseyrum*
 Saint Peter's-wort, *Hypericum*
 Saint Peter's-wort, Shrubby,
Lonicera
 Saintfoin, *Hedysarum*
 Sallad, Corn, *Valeriana*
 Salkali, *Salicornia*
 Sallow, *Salix*
 Salfafy *Tragopogon*

- Salt-wort, *Salicornia*
 Salt-wort, Black, *Glaux*
 Samphire, *Crithmum*
 Samphire, Golden, *Inula*
 Sandbox-tree, *Hura*
 Sanders, see Saunders
 Sanicle, *Sanicula*
 Sanicle, *Saxifraga*
 Sanicle, American Bastard, *Mi-
tella*
 Sanicle, Bear's-ear, *Cortusa*
 Sappodillo-tree, *Sloanea*
 Sapota, *Achras*
 Sapota Mammee, *Achras*
 Saracen's Confound, *Solidago*
 Saracen's Confound, The true, *Senecio*
 Saracen's Wound-wort, *Solidago*
 Saracen's Wound-wort, The
true, *Senecio*
 Sassafras-tree, *Laurus*
 Sassafras, see Sassafras
 Sattin-flower, *Lunaria*
 Sattin, White, *Lunaria*
 Sauce alone, *Erysimum*
 Savin, *Juniperus*
 Savin-tree, Indian, *Bauhinia*
 Saunders, *Santalum*
 Savory, *Satureia*
 Savoys, *Brassica*
 Saw-wort, *Serratula*
 Saxifrage, *Saxifraga*
 Saxifrage, Burnet, *Pimpinella*
 Saxifrage, golden, *Chrysothrix*
 Saxifrage, Meadow, *Peucedanum*
 Scabious, *Scabiosa*
 Scabious, Sheep's, *Fasione*
 Scallion, *Allium*
 Scammony, Syrian, *Convolvulus*
 Scammony of Montpellier, *Cy-
nanchum*
 Sciatica Cress, The true, *Lepi-
dium*
 Sciatica Cress, *Iberis*
 Scorching Fennel, *Thapsia*
 Scorpion-grass, *Scorpiurus*
 Scorpion-grass, Mouse-ear,
Myofotis
 Scorpion Senna, *Coronilla*
 Scorpion's, Thorn, *Ulex*
 Screw-tree, see Skrew-tree
 Scull-cap, see Skull-cap
 Scurvy-grass, *Cochlearia*
 Sea Weed, *Fucus*
 Sebesten, *Cordia*
 Sedum Pyramidal, *Saxifraga*
 Seed, Heart, *Cardiospermum*
 Self-heal, *Brunella*
 Self-heal, *Sanicula*
 Senna of the Shops, *Cassia*
 Senna, Bastard, *Cassia*
 Senna, Bastard, *Colutea*
 Senna, Jointed-podded
Bladder, *Coronilla*
 Senna, Scorpion, *Coronilla*
 Senna, Wild, *Cassia*
 Senegaw Rattle-snake Root, *Po-
lygala*
 Sengreen, *Sempervivum*
 Sensitive Plant, *Mimosa*
 Sensitive Plant, Bastard, *Eschy-
nomene*
 Septfoil, *Tormentilla*
 Sermountain, *Laserpitium*
 Serpent-Cucumber, *Trichosanthes*
 Serpent's Tongue, *Ophioglossum*
 Service-tree, *Sorbus*
 Service, Maple-leaved, *Crata-
gus*
 Service, Wild, *Cratægus*
 Setfoil, see Septfoil
 Setwall, see Zedoary
 Setwall, Garden, *Valeriana*
 Setter-wort, *Helleborus*
 Shaddock, *Citrus*
 Shallot, see Eschalot
 Shave-grass, *Equisetum*
 Sheep Scabious, *Fasione*
 Shepherd's Needle, *Scandix*
 Shepherd's Pouch, *Tblaspi*
 Shepherd's

- Shepherd's Rod, *Dipsacus*
 Shepherd's Staff, *Dipsacus*
 Shot, Indian, *Canna*
 Shot, Plantain, *Canna*
 Sickle-wort, *Coronilla*
 Side saddle Flower, *Sarracena*
 Silk Cotton-tree, *Bombax*
 Silk, Virginian, *Periploca*
 Silver Bush, *Anthyllis*
 Silver-tree, *Protea*
 Silver-weed, *Potentilla*
 Simpla Nobla, *Phyllis*
 Simpler's Joy, *Verbena*
 Skirret, *Sium*
 Skull-cap, *Scutellaria*
 Skrew-tree, *Helicteres*
 Sloe-tree, *Prunus*
 Smallage, *Apium*
 Snails, *Medicago*
 Snail Clover, *Medicago*
 Snail Trefoil, *Medicago*
 Snakeweed, *Polygonum*
 Snake Root, *Aristolochia*
 Snake, Root, Black or Wild of
 America, *Aëtaea*
 Snap-tree, *Justicia*
 Snap Dragon, *Antirrhinum*
 Snap Dragon of America, *Ruellia*
 Sneeze-wort, *Achillea*
 Sneeze-wort, Austrian, *Xeran-*
 themum
 Snowball-tree, *Viburnum*
 Snowberry-bush, *Lonicera*
 Snowdrop, *Galanthus*
 Snowdrop, Greater, *Leucojum*
 Snowdrop-tree, *Chionanthus*
 Soap Apple, *Sapindus*
 Soap Berry, *Sapindus*
 Soap-wort, *Saponaria*
 Soldanel, *Soldanella*
 Soldanel of the Shops, *Convol-*
 vulus
 Soldier, Water, *Stratiotes*
 Soldier, Fresh Water, *Stratiotes*
 Soldier's Cullions, *Orchis*
 Solomon's Seal, *Convallaria*
 Solomon's Seal, Penfylvanian,
 Uvularia
 Sorgo, *Holcus*
 Sorrel, *Rumex*
 Sorrel, Indian Red, *Hibiscus*
 Sorrel, Indian White, *Hibiscus*
 Sorrel, Wood, *Oxalis*
 Sorrel-tree, *Andromeda*
 Sorrowful-tree, *Nyctanthes*
 Sour Gourd, Æthiopian, *Adan-*
 sonia
 Sour Soap, *Annona*
 Southernwood, *Artemisia*
 South-sea Tea, *Ilex*
 Sow bread, *Cyclamen*
 Sow Thistle, *Sonchus*
 Sow Thistle, *Prenanthes*
 Sow Thistle, Downy, *Andryala*
 Sow Thistle, Tangier, *Scorzonera*
 Sparrow-grafs, see Asparagus
 Sparrow-wort, *Passerina*
 Sparrow-wort, Targus's, *Stellera*
 Spatling Poppy, *Cucubalus*
 Spear-wort, *Ranunculus*
 Speerage, see Asparagus
 Speedwell, *Veronica*
 Speedwell, Female, *Antirrhinum*
 Spice Wood, *Laurus*
 Spice, All, *Myrtus*
 Spider-wort, *Anthericum*
 Spider-wort, Great Savoy, *He-*
 merocallis
 Spider-wort, Virginian, *Tradef-*
 cantia
 Spignel, *Athamanta*
 Spignel, Wild, *Sejeli*
 Spike-grafs, Winged, *Stipa*
 Spikenard, Indian, or True *
 Spikenard, Bastard French, *Nar-*
 duſ
 Spike-

* Unknown.

Spikenard, Celtic, <i>Valeriana</i>	Star-wort, Traling, of Vera Cruz, <i>Tridax</i>
Spikenard, False, <i>Lawandula</i>	Star-wort, Yellow, <i>Inula</i>
Spikenard, Plowman's, <i>Baccharis</i>	Star-wort, Yellow, <i>Bupbthalmum</i>
Spikenard, Plowman's, <i>Conyza</i>	Staves Acre, <i>Delphinium</i>
Spikenard, Wild, <i>Afarum</i>	Stich-wort, <i>Stellaria</i>
Spinach, <i>Spinacia</i>	Stink-horns, <i>Phallus</i>
Spinach, Strawberry, <i>Blitum</i>	Stock, <i>Cheiranthus</i>
Spindle-tree, <i>Euonymus</i>	Stock July-flower, <i>Cheiranthus</i>
Spindletree, Climbing, <i>Celastrus</i>	Stock, Dwarf Annual, <i>Hesperis</i>
Spindle-tree, Bastard, <i>Kiggellaria</i>	Stock, Virginian, <i>Hesperis</i>
Spindle-tree, Bastard, <i>Celastrus</i>	Stone, Crop, <i>Sedum</i>
Spiræa Frutex, <i>Spiræa</i>	Stone-Crop-tree, <i>Chenopodium</i>
Spiræa, African, <i>Diosma</i>	Sone Parsley, <i>Bubon</i>
Spirting Cucumber, <i>Momordica</i>	Stone Parsley, Bastard, <i>Sison</i>
Spleen-wort, <i>Asplenium</i>	Storax-tree, <i>Styrax</i>
Spleen-wort, Rough, <i>Lonchitis</i>	Storax- Liquid, <i>Liquidambar</i>
Spleen-wort, Rough, <i>Polypodium</i>	Strawberry, <i>Fragaria</i>
Spoon-wort, <i>Cochlearia</i>	Strawberry, Barren, <i>Potentilla</i>
Sponge, <i>Spongia</i>	Strawberry, Barren, <i>Fragaria</i>
Sponge-tree, <i>Mimosa</i>	Strawberry, Blite, <i>Blitum</i>
Spurge, <i>Euphorbia</i>	Strawberry Spinach, <i>Blitum</i>
Spurge, Bastard, <i>Euphorbia</i>	Strawberry-tree, <i>Arbutus</i>
Spurge Laurel, <i>Daphne</i>	Succory, <i>Cichorium</i>
Spurge Olive, <i>Daphne</i>	Succory, Gum, <i>Chondrilla</i>
Spurrey, <i>Spergula</i>	Succory, Wart, <i>Lapsana</i>
Squash, <i>Cucurbita</i>	Sugar Cane, <i>Saccharum</i>
Squill, <i>Scilla</i>	Sulphur-wort, <i>Peucedanum</i>
Squill, Lesser White, <i>Panocratium</i>	Sultan-flower, <i>Centaurea</i>
Staff-tree, <i>Celastrus</i>	Sumach, <i>Rhus</i>
Staff, Shepherd's, <i>Dipsacus</i>	Sumach, Myrtle-leaved, <i>Coriaria</i>
Stag's-horn-tree, <i>Rhus</i>	Sumach, Tanner's or Currier's <i>Coriaria</i>
Star of Alexandria, <i>Ornithogalum</i>	Sundew, <i>Drosera</i>
Star Apple, <i>Chrysophyllum</i>	Sun-flower, <i>Helianthus</i>
Star of Bethlehem, <i>Ornithogalum</i>	Sun-flower, Bastard, <i>Helenium</i>
Star of Constantinople, <i>Ornithogalum</i>	Sun-flower, Dwarf, <i>Rudbeckia</i>
Star Hyacinth, <i>Scilla</i>	Sun-flower, Dwarf, <i>Tetragonotheca</i>
Star of Naples, <i>Ornithogalum</i>	Sun-flower, Little, <i>Cistus</i>
Star Thistle, <i>Centaurea</i>	Sun-flower, Tickseeded, <i>Coreopsis</i>
Star-wort, <i>Aster</i>	Sun-flower, Willow-leaved, <i>Helenium</i>
Star-wort, Bastard, <i>Bupbthalmum</i>	Superb Lily, <i>Gloriosa</i>
	Swallow-wort, <i>Asclepias</i>

Sweet

- Sweet, Briar, *Rosa*
 Sweet Cicely, *Scandix*
 Sweet Gum, *Liquidambar*
 Sweet John, *Dianthus*
 Sweet Root, *Glycyrrhiza*
 Sweet Sop, *Annona*
 Sweet Sultan, *Centaurea*
 Sweet Weed, *Capraria*
 Sweet William, *Dianthus*
 Sweet William of Barbadoes, *Ipomœa*
 Swine's Crefs, *Cochlearia*
 Sycamore, *Ficus*
 Sycamore, False, *Acer*
 Syringa, commonly called, *Philadelphus*
- T
- Tacamahaca, *Populus*
 Tallow-tree, *Croton*
 Tamarind-tree, *Tamarindus*
 Tamarisk, *Tamarix*
 Tansey, *Tanacetum*
 Tansey, Wild, *Potentilla*
 Tare, *Vicia*
 Taragon, *Artemisia*
 Tarton-raire, *Daphne*
 Tea-tree, *Thea*
 Tea, False, *Ilex*
 Tea, New Jersey, *Ceanothus*
 Tea, Oswego, *Monarda*
 Tea, Paraguay, *Ilex*
 Tea, South-sea, *Ilex*
 Teasel, *Dipsacus*
 Tent-wort, *Asplenium*
 Thistle, *Carduus*
 Thistle, Blessed, *Cnicus*
 Thistle, Carline, *Carlina*
 Thistle, Distaff, *Atractylus*
 Thistle, Distaff, *Carthamus*
 Thistle, Fish, *Carduus*
 Thistle, Fuller's, *Dipsacus*
 Thistle, Gentle, *Carduus*
 Thistle, Globe, *Echinops*
 Thistle, Golden, *Scolymus*
 Thistle, Hedge-hog, *Cactus*
 Thistle, Holy, *Cnicus*
 Thistle, Ladies, *Carduus*
 Thistle, Melancholy, *Carduus*
 Thistle, Melon, *Cactus*
 Thistle, Milk, *Carduus*
 Thistle, Soft, *Carduus*
 Thistle, Sow, *Sonchus*
 Thistle, Sow, *Prenanthes*
 Thistle, Downy Sow, *Andryala*
 Thistle, Star, *Centaurea*
 Thistle, Torch, *Cactus*
 Thistle, Woolly, *Onopordon*
 Thorn, Black, *Prunus*
 Thorn-Box, *Lycium*
 Thorn, Christ's, *Rhamnus*
 Thorn, Egyptian, *Mimosa*
 Thorn, Evergreen, *Mespilus*
 Thorn, Goat's, *Astragalus*
 Thorn, Lily, *Catesbœa*
 Thorn, Purging, *Rhamnus*
 Thorn, Scorpion's, *Ulex*
 Thorn, Spanish Hedge-hog, *Anthyllis*
 Thorn, White, *Cratægus*
 Thorn, Apple, *Datura*
 Thorny Plant, Burning, *Euphorbia*
 Thorough Wax, *Bupleurum*
 Three Faces under a Hood, *Viola*
 Three-leav'd Grass, *Trifolium*
 Thrift, *Statice*
 Throat-wort, *Campanula*
 Throat-wort, Blue umbelliferous, *Trachelium*
 Thyme, *Thymus*
 Thyme, Dodder of, *Cuscuta*
 Thyme, Mastick, *Satureia*
 Tickseed, *Corispermum*

Tills,

- Tills, *Ervum*
 Tinker's Weed, Doctor, *Triosteum*
 Toad Flax, *Antirrhinum*
 Tobacco, *Nicotiana*
 Tolu-tree, Balsam of, *Toluisera*
 Tomatoes, *Solanum*
 Tooth-ach-tree, *Zanthoxylum*
 Tooth-pick, *Daucus*
 Tooth-wort, *Dentaria*
 Tooth-wort, *Plumbago*
 Torch Thistle, *Cactus*
 Tormentil, *Tormentilla*
 Touch me not, *Impatiens*
 Touch me not, *Momordica*
 Tower Mustard, *Turritis*
 Tower Mustard, Bastard, *Arabis*
 Tragacanth, Gum, *Astragalus*
 Tragus's Sparrow-wort, *Stellera*
 Traveller's Joy, *Clematis*
 Treacle Mustard, *Clypeola*
 Treacle Mustard, *Thlaspi*
 Tree Moss, *Lichen*
 Trefoil, *Trifolium*
 Trefoil, Bean, *Cytisus*
 Trefoil, Stinking Bean, *Anagyris*
 Trefoil, Bird's-foot, *Lotus*
 Trefoil, Marsh, *Menyanthes*
 Trefoil, Moon, *Medicago*
 Trefoil, Shrub, *Ptelea*
 Trefoil of Montpellier, Shrub,
Lotus
 Trefoil, Snail, *Medicago*
 Trefoil, Thorny, of Candia,
Fagonia
 Trefoil Tree, *Cytisus*
 Trefoil, Base-tree, *Cytisus*
 Trinity-herb, *Viola*
 Triple Ladies Traces, *Ophrys*
 True-love, *Paris*
 True-love of Canada, *Trillium*
 Trumpet-flower, *Bignonia*
 Tuberose, *Polyanthes*
 Tulip, *Tulipa*
 Tulip, African, *Hæmanthus*
 Tulip, Chequer'd, *Fritillaria*
 Tulip-flower, *Bignonia*
 Tulip-tree, *Liriodendrum*
 Tulip-tree, Laurel-leaved,
Magnolia
 Tun Hoof, *Glechoma*
 Tupelo-tree, *Nyssa*
 Turbith, Arabian or True *
 Turbith Indian, or of the
 Shops, *Convolvulus*
 Turbith, Garganic, *Thapsia*
 Turk's Cap, *Lilium*
 Turk's Head, *Cactus*
 Turk's Turban, *Ranunculus*
 Turnep, *Brassica*
 Turnep, French, *Brassica*
 Turmerick, *Curcuma*
 Turnsole, *Heliotropium*
 Turpentine-tree, *Pistacia*
 Tutian, *Hypericum*
 Twopence, Herb, *Lyfimachia*
 Tway Blade, *Ophrys*
 Twy Blade, *Ophrys*

V

- Valerian, *Valeriana*
 Valerian, Greek, *Polemonium*
 Vanilla, or Vaneloe, *Epidendrum*
 Venus's Comb, *Scandix*
 Venus's Looking-glass, *Cam-*
panula
 Venus's Navel-wort, *Cynoglof-*
sum
 Vervain, *Verbena*
 Vervain Mallow, *Malva*
 Vetch, *Vicia*
 Vetch, Ax, see Hatchet Vetch
 Vetch, Bitter, *Ervum*
 Vetch, Bitter, *Orobus*
 Vetch, Jointed Podded Bitter,
Ervum

* Unknowen.

- Vetch, Chichling, *Lathyrus*
 Vetch Crimson Grass, *Lathyrus*
 Vetch, Hatchet, *Coronilla*
 Vetch, Clufius's foreign Hat-
 chet, *Biserrula*
 Vetch, Horse-shoe, *Hippocrepis*
 Vetch, Kidney, *Anthyllis*
 Vetch, Liquorice, *Astragalus*
 Vetch, Knobbed-rooted Liquo-
 rice, *Glycine*
 Vetch, Milk, *Astragalus*
 Vetch, Bastard Milk, *Phaca*
 Vetch, Venetian, *Orobus*
 Vetch, Medic, *Hedysarum*
 Vetchling, *Hedysarum*
 Vetchling, Medic, *Hedysarum*
 Vetchling, Yellow, *Lathyrus*
 Viburnum, American, *Lantana*
 Vine, *Vitis*
 Vine, Black, *Tamus*
 Vine, Climbing five-leaved, of
 Canada, *Hedera*
 Vine, Spanish Arbor, *Ipomoea*
 Vine, White, *Bryonia*
 Violet, *Viola*
 Violet, Bulbous, *Galanthus*
 Violet, Calathian, *Gentiana*
 Violet, Dame's, *Hesperis*
 Violet, Dog's Tooth, *Erythronium*
 Violet, Queen's, *Hesperis*
 Violet, Water, *Hottonia*
 Viper's Bugloss, *Echium*
 Viper's Grass, *Scorzonera*
 Virgin's Bower, *Clematis*
 Vitæ, Arbor, *Thuja*
 Vitæ, Lignum, *Guaiacum*
 Umbrella-tree, *Magnolia*
- W
- Wake Robin, *Arum*
 Wall-flower, *Cheiranthus*
 Walnut, *Juglans*
 Walnut, Jamaica, *Hura*
- Wall-wort, *Sambucus*
 Wanhom, *Kæmpferia*
 Wart Succory, *Lapsana*
 Wart-wort, *Euphorbia*
 Wart-wort, *Heliotropium*
 Wart-wort, *Lapsana*
 Water-leaf, *Hydrophyllum*
 Water Soldier, *Stratiotes*
 Wayfaring-tree, *Viburnum*
 Weld, *Reseda*
 Wheat, *Triticum*
 Wheat, Buck, *Polygonum*
 Wheat, Cow, *Mylampyrum*
 Wheat, French, *Polygonum*
 Wheat, Indian, *Zea*
 Wheat, Turkey, *Zea*
 Whin, *Ulex*
 Whin, Petty, *Ononis*
 White Beam-tree, *Cratægus*
 White Leaf-tree, *Cratægus*
 White Sattin, *Lunaria*
 White, Wood, *Bignonia*
 Whitlow Grass, *Draba*
 Whitlow *Grass, Rue-leaved,
 Saxifraga
 Whortle Berry, *Vaccinium*
 Whortle Berry, African, *Royena*
 Whorts, Black, *Vaccinium*
 Whorts, Bog, *Vaccinium*
 Whorts, Red, *Vaccinium*
 Whorts, Spanish Red, *Arbutus*
 Wicken-tree, *Sorbus*
 Widow Wail, *Cneorum*
 Willow, *Salix*
 Willow French, *Epilobium*
 Willow, Spiked, of Theophras-
 tus, *Spiræa*
 Willow, Sweet, *Myrica*
 Willow, Herb, *Epilobium*
 Willow, Herb, *Lythrum*
 Willow, Herb, *Lyfimachia*
 Willow Herb, Rosebay, *Epilo-
 bium*
 Wind-flower, *Anenome*

- | | |
|--|---|
| Wind Seed, <i>Arctotis</i> | Worm-feed, <i>Chenopodium</i> |
| Winged Spiked Grass, <i>Stipa</i> | Worm-wood, <i>Artemisia</i> |
| Winter Berry, <i>Prinos</i> | Wormwood, Wild, <i>Parthenium</i> |
| Winter Bloom, <i>Azalea</i> | Wortle, Petroseline, <i>Apium</i> |
| Winter Cherry, <i>Physalis</i> | Would, <i>Reseda</i> |
| Winter Cherry, <i>Solanum</i> | Wound-wort of Achilles, <i>Achillea</i> |
| Winter Green, <i>Pyrola</i> | Wound-wort, Clown's, <i>Stachys</i> |
| Winter Green, Ivy-flowering, | Wound-wort, Saracen's, <i>Solidago</i> |
| <i>Kalmia</i> | Wound-wort, Saracen's, the |
| Winter Green, with Chickweed | true, <i>Senecio</i> |
| Flowers, <i>Trientalis</i> | Wrack, <i>Fucus</i> |
| Winter's Bark, <i>Laurus</i> | Wrack, Grass, <i>Zostera</i> |
| Witch Hazel, <i>Hamamelis</i> | |
| Witch Hazel, <i>Ulmus</i> | Y |
| Woad, <i>Isatis</i> | |
| Woad, Wild, <i>Reseda</i> | Yams, <i>Dioscorea</i> |
| Wolf's Bane, <i>Aconitum</i> | Yapon, <i>Ilex</i> |
| Wolf's Bane, Winter, <i>Helleborus</i> | Yarrow, <i>Achillea</i> |
| Wolf's Peach, <i>Solanum</i> | Yellow Weed, <i>Reseda</i> |
| Woodbind, <i>Lonicera</i> | Yerva Mora, <i>Bosca</i> |
| Woodbind, Spanish, <i>Ipomoea</i> | Yew-tree, <i>Taxus</i> |
| Wood of Life, <i>Guaiacum</i> | |
| Wood Anemone, <i>Anemone</i> | Z |
| Wood Sorrel, <i>Oxalis</i> | |
| Woodroof, <i>Asperula</i> | Zedoary, round, <i>Kempferia</i> |
| Woodwaxen, <i>Genista</i> | Zedoary, long, <i>Amomum</i> |
| Worm-Grass, <i>Spigelia</i> | Zerumbith, <i>Amomum</i> |

P L A T E I.

P A R T S O F T H E F L O W E R.

- Fig. 1. **A** Flower with its Corolla, Pistillum, and Stamina (page 1, 2) *a*, the Petals of the Corolla (p. 5) *b*, the Germen; *c*, the Style; *d*, the Stigma; (p. 12) *e*, the Filaments; *f*, the Antheræ (p. 11)
- Fig. 2. The Calyx, Pistillum and Stamina, separate from the Corolla (p. 2) *a*, the Perianthium (p. 3) *b*, the Germen; *c*, the Style; *d*, the Stigma (p. 12) *e*, the Filaments; *f*, the Antheræ bursting and discharging the Pollen; *g*, an Anthera before it has burst (p. 11.)
- Fig. 3. A Flower whose Corolla is monopetalous: *a*, the Corolla (p. 5) *b*, the Perianthium (p. 3)
- Fig. 4. A polypetalous Corolla: *a*, the Ungues; *b*, the Laminæ (p. 8)
- Fig. 5. A *Narcissus* issuing from its Spatha: *a*, the Flower *b*, the Spatha (p. 4)
- Fig. 6. An Amentum (p. 4)
- Fig. 7. The Fructification of a *Moss*; *a*, the Calyptra (p. 4)
- Fig. 8. A *Fungus*: *a*, the Volva (p. 4)
- Fig. 9. A *Grass*: *a*, the Gluma; *b*, the Arista (p. 4)
- Fig. 10. A Compound Umbel: *a*, the Universal Umbel; *b*, the Umbellulæ, or partial Umbels (p. 18) *c*, the Universal Involucrum; *d*, the partial Involucra (p. 3)
- Fig. 11. A Bractæa accompanying the Flowers of the *Tilia*: *a*, the Bractæa (p. 4)
- Fig. 12. *a*, the Pollen seen with a Microscope (p. 11) *b*, an elastic Vapour discharged from it (p. 13)





F I L I A

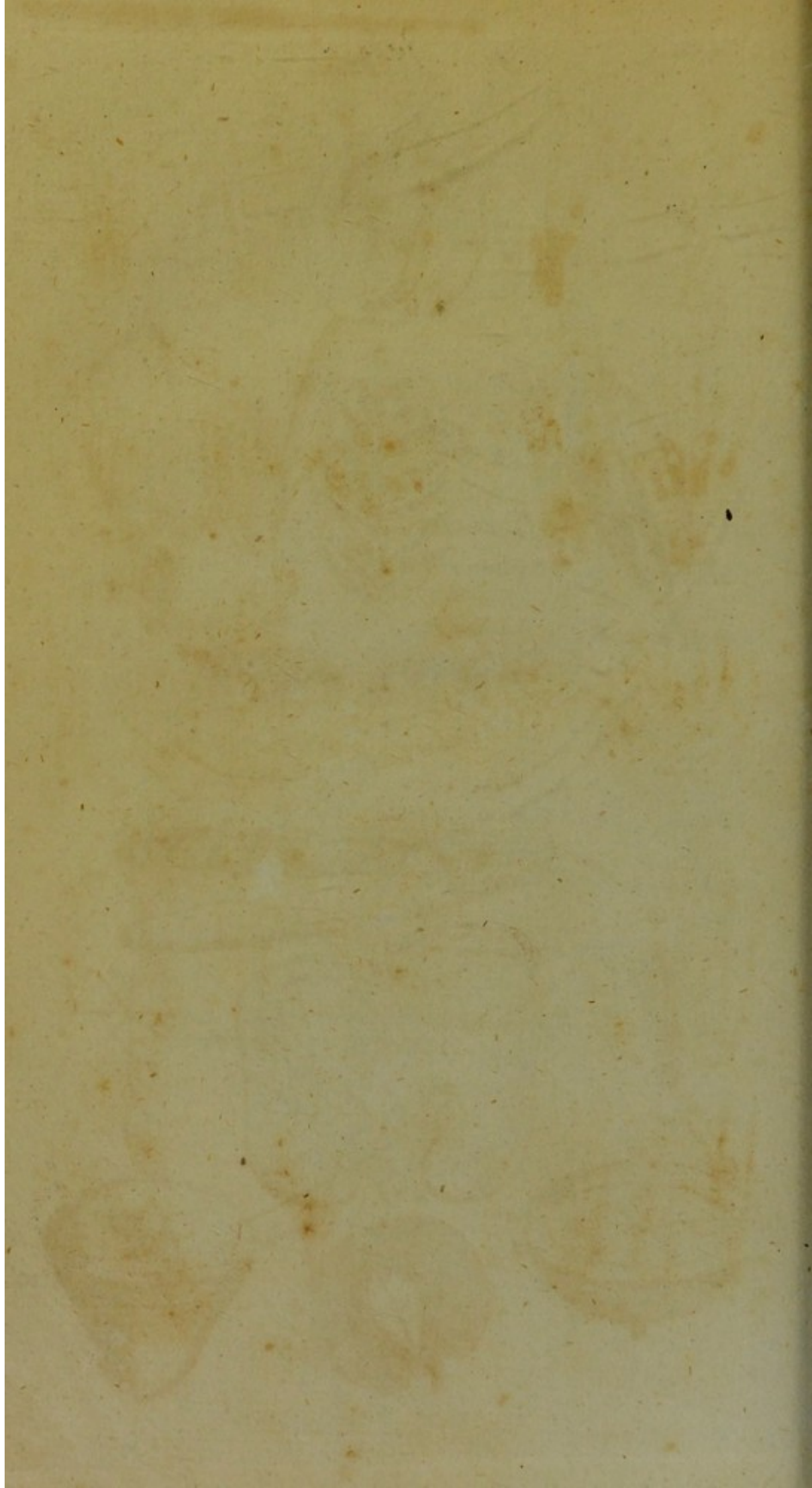
F I L I A

P L A T E II.

P A R T S O F T H E F R U I T .

- Fig. 1. **A** Capsule: *a*, the Valvules (p. 14)
- Fig. 2. *a*, A Receptacle of Seeds (p. 17)
- Fig. 3. A Strobilus (p. 15)
- Fig. 4. A winged Seed: *a*, the Seed; *b*, the Wing (p. 16)
- Fig. 5. A Legumen: *a*, the upper Suture, along which runs the Receptacle of the Seeds (p. 15)
- Fig. 6. A Siliqua: *a*, *b*, the two Sutures to which the Seeds are fastened alternately (p. 14)
- Fig. 7. A seed crowned with a Pappus: *a*, the Seed; *b*, the Stipes of the Pappus (p. 16) *c*, a hairy Pappus; *d*, a Feathery Pappus (p. 44)
- Fig. 8. The Seed of a *Bean* split in two: *a*, the Cotyledons; *b*, the Corculum; *c*, the Rostellum; *d*, the Plumula; *e*, the Hilum (p. 16)
- Fig. 9. A Drupa: *a*, the Nucleus, or Stone; *b*, the Pulp (p. 15)
- Fig. 10. A Pomum: *a*, the Capsule; *b*, the Pulp (p. 15)
- Fig. 11. A Berry: *a*, the Seeds; *b*, the Pulp (p. 15)
- Fig. 12. A Seed crowned with a Calyculus: *a*, the Seed; *b*, the Calyculus (p. 16. 44)





A 2 4

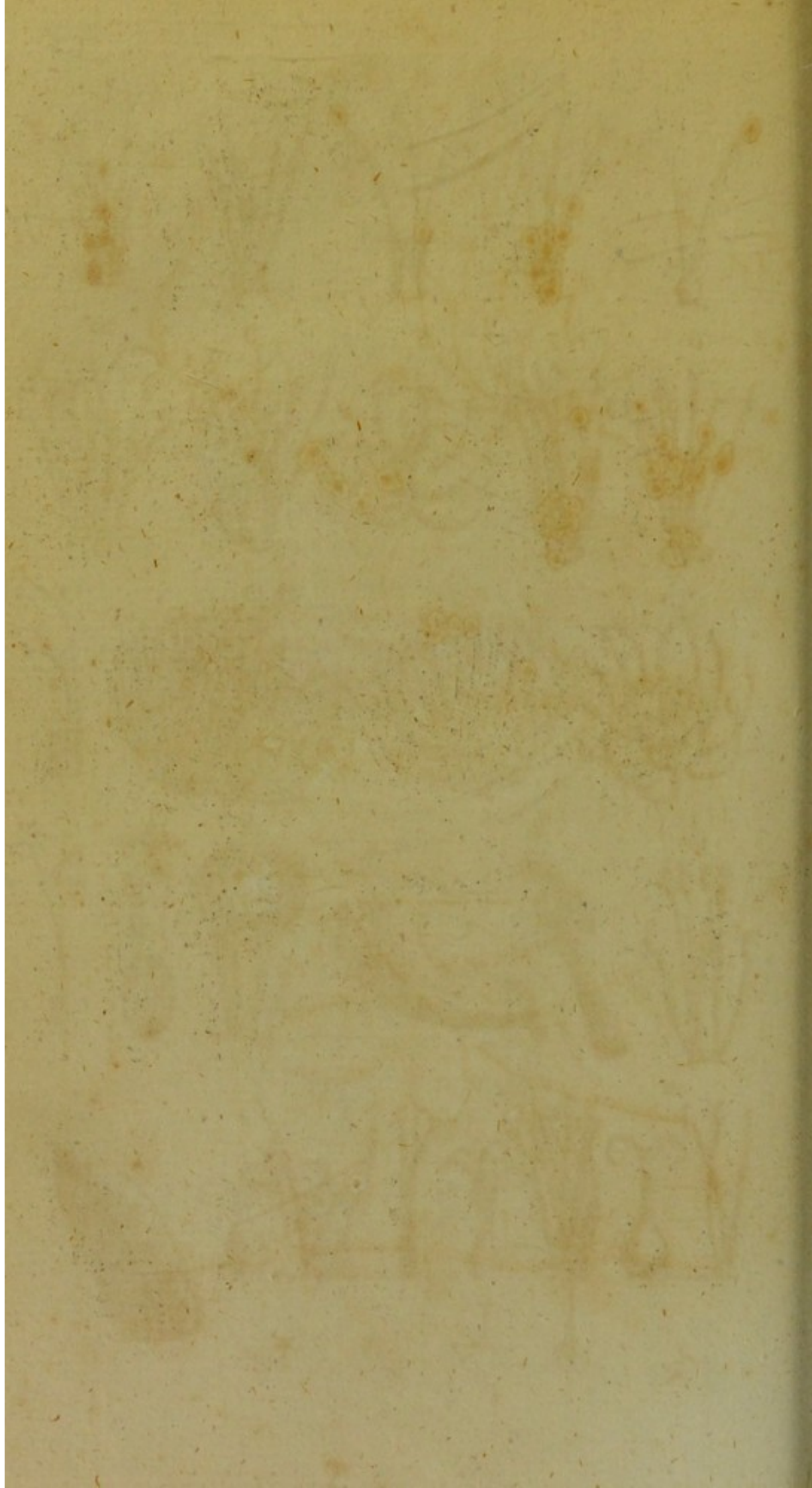
P L A T E III.

C L A S S E S.

FIG. CLASS.

1. **M**Onandria (p. 78, 90)
2. **M**Diandria (p. 78, 91)
3. Triandria (p. 78, 92)
4. Tetrandria (p. 78, 94)
5. Pentandria (p. 78, 96)
6. Hexandria (p. 78, 100)
7. Heptandria (p. 78, 102)
8. Octandria (p. 78, 103)
9. Enneandria (p. 78, 104)
10. Decandria (p. 78, 105)
11. Dodecandria (p. 79, 107)
12. Icosandria (p. 80, 108)
13. Polyandria (p. 80, 110)
14. Didynamia (p. 80, 112)
15. Tetradynamia (p. 81, 117)
16. Monadelphia (p. 81, 120)
17. Diadelphia (p. 82, 123)
18. Polyadelphia (p. 82, 130)
19. Syngenesia (p. 82, 131)
20. Gynandria (p. 83, 138)
21. Monoecia (p. 83, 141)
22. Dioecia (p. 83, 144)
23. Polygamia (p. 84, 147)
24. Cryptogamia (p. 84, 150)





P E T E R

Notes

1. A. A. (1871)

2. A. A. (1872)

3. A. A. (1873)

4. A. A. (1874)

5. A. A. (1875)

6. A. A. (1876)

7. A. A. (1877)

P L A T E IV.

R O O T S.

Fig. 1. **A** Squamose Bulb (p. 214)

Fig. 2 A solid Bulb (p. 214)

Fig. 3. Transverse Section of a Tunicate
Bulb (p. 214.)

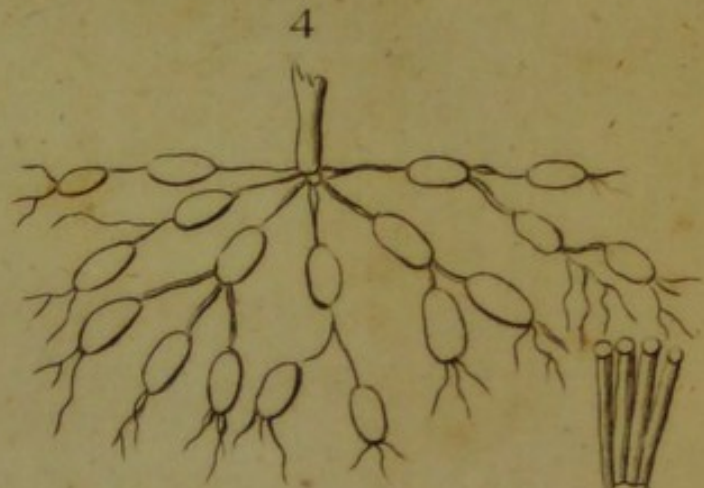
Fig. 4. A pendulous Tuberosse Root of the
Filipendula (p. 214)

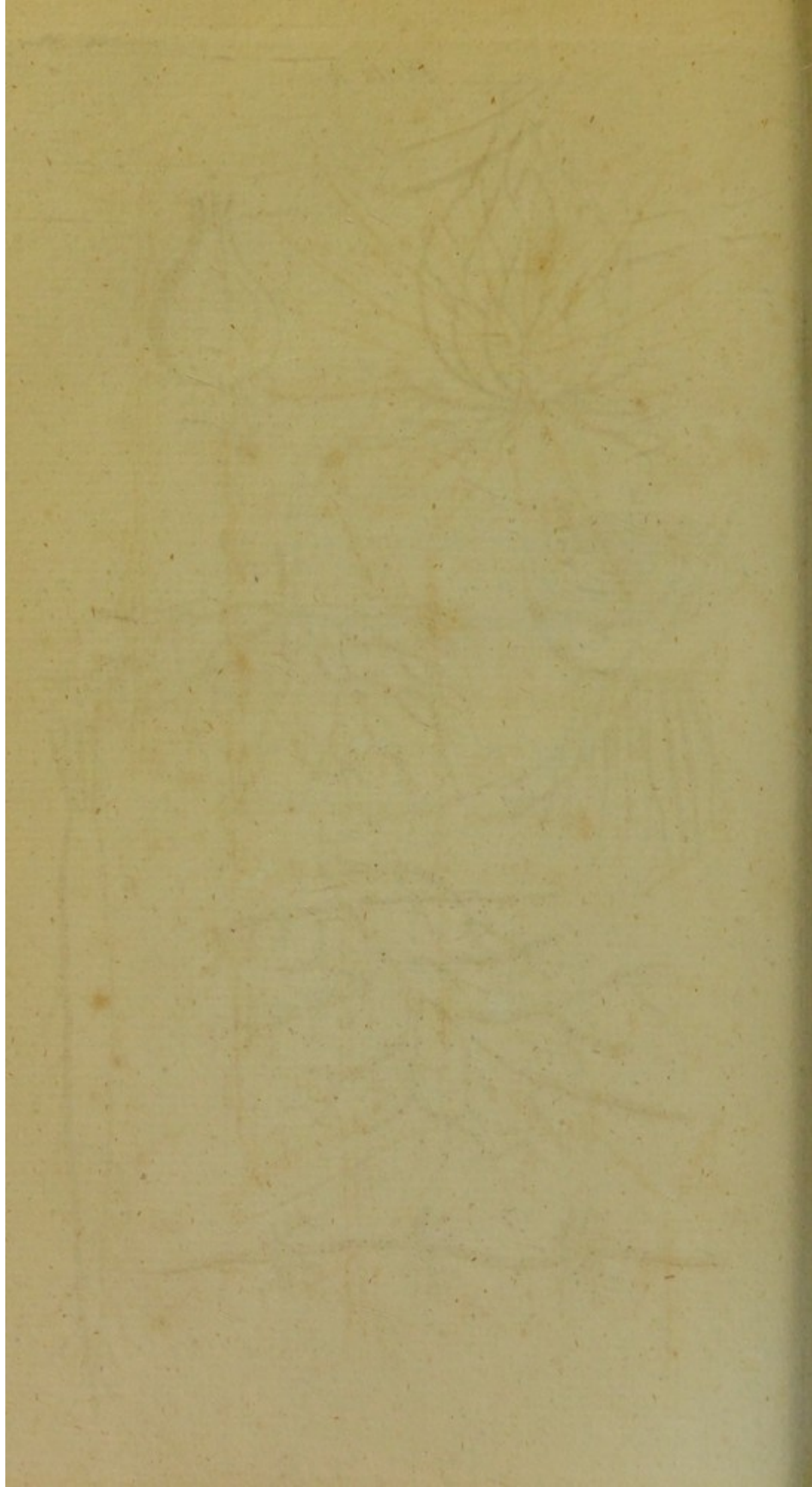
Fig. 5. A Ramose Root (p. 178)

Fig. 6. A Fusiform Root (p. 178)

Fig. 7. A Repent Root (p. 178)

Plate 4.





P L A T E V

PLATE V

Fig. 1. A. *Spinosus* Caim (p. 181)

Fig. 2. A. *Spinosus* Caim (p. 181)

Fig. 3. A. *Spinosus* Caim (p. 181)

Fig. 4. A. *Spinosus* Caim (p. 181)

Fig. 5. A. *Spinosus* Caim (p. 181)

Fig. 6. A. *Spinosus* Caim (p. 181)

Fig. 7. A. *Spinosus* Caim (p. 181)

Fig. 8. A. *Spinosus* Caim (p. 181)

P L A T E V.

T R U N K.

Fig. 1. **A** Squamose Culm (p. 184)

Fig. 2. A Repent Stem (p. 181)

Fig. 3. A Frons (p. 187) see also the
Note at p. 67.

Fig. 4. A Volubile Stem (p. 180)

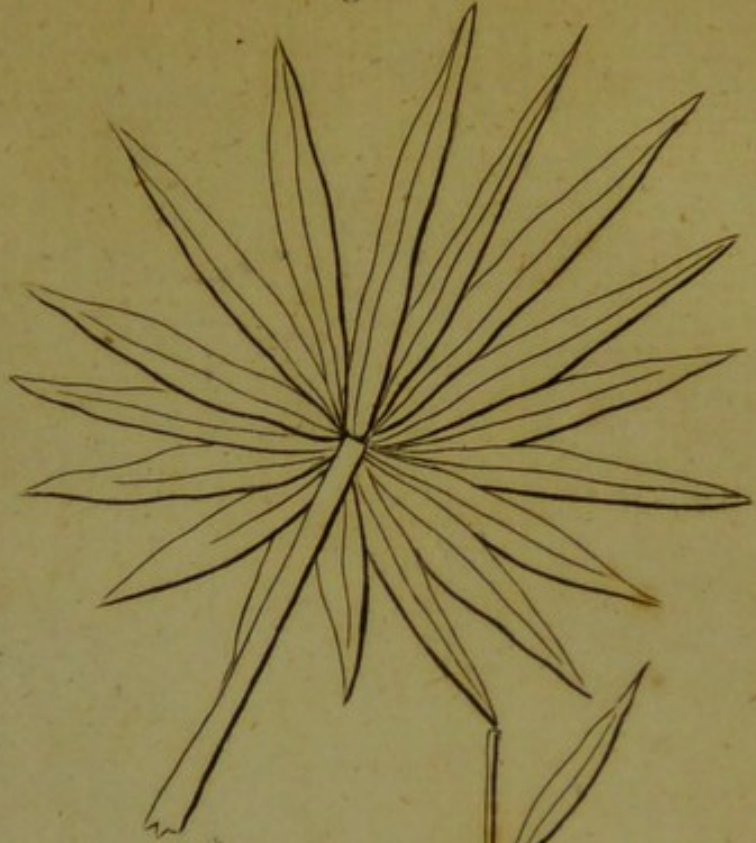
Fig. 5. An Articulate Culm (p. 183)

Fig. 6. A Scapus (p. 184)

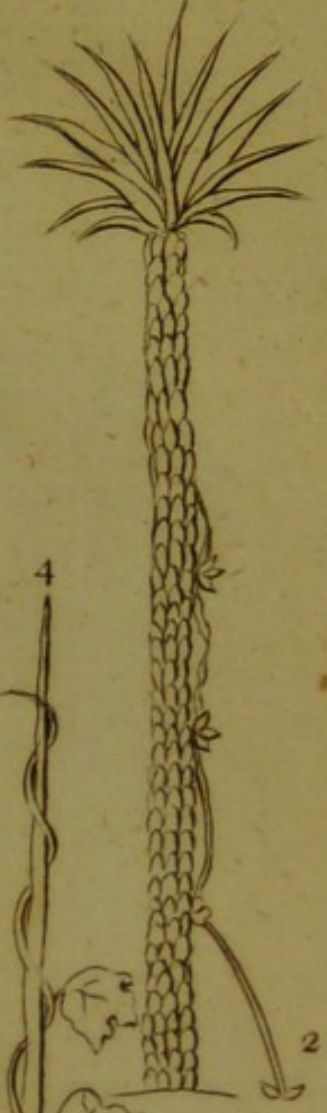
Fig. 7. A Dichotomus Stem (p. 183)

Fig. 8. A Brachiate Stem (p. 182)

3



1



4



5

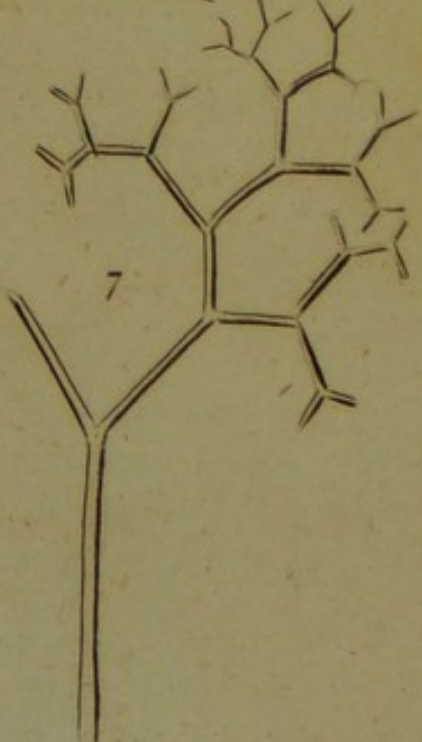


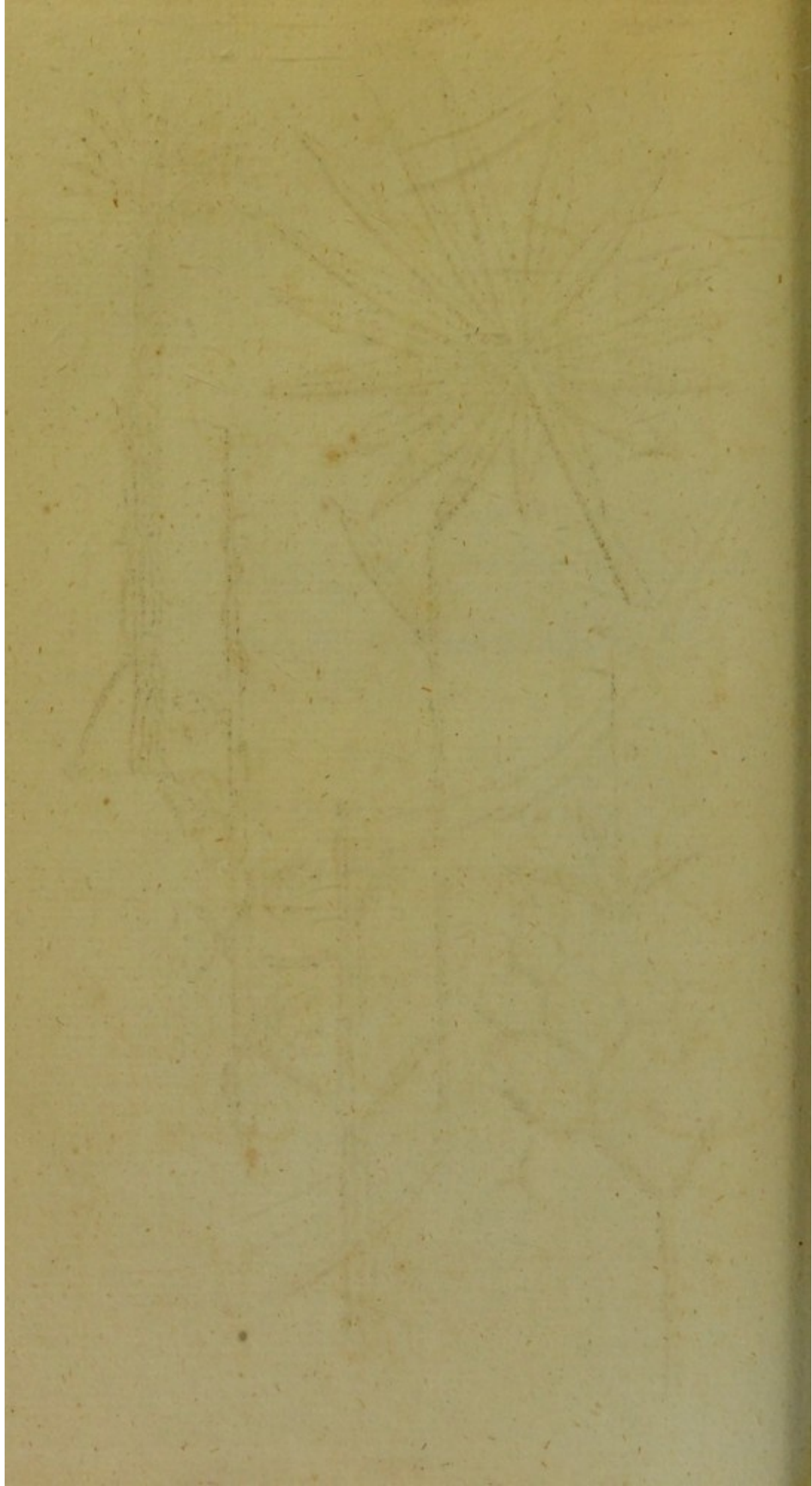
8

6



7





P. L. T. H. V. L. A. W. I. N. G.

Simplex Libris

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P L A T E VI. LEAVES.

S I M P L E L E A V E S .

FIG

- 1 Orbiculate (p. 188)
- 2 Subrotund (p. 188)
- 3 Ovate (p. 188)
- 4 Oval (p. 188)
- 5 Oblong (p. 189)
- 6 Lanceolate (p. 189)
- 7 Linear (p. 190)
- 8 Subulate (p. 190)
- 9 Reniform (p. 190)
- 10 Cordate (p. 191)
- 11 Lunulate (p. 191)
- 12 Triangular (p. 190)
- 13 Sagittate (p. 191)
- 14 Cordato-sagittate *
- 15 Hastate (p. 191)
- 16 Fissa (p. 191)
- 17 Trilobe (p. 192)
- 18 Præmorse (p. 193)
- 19 Lobate (p. 192)
- 20 Quinquangular (p. 190)
- 21 Erofe (p. 195)
- 22 Palmate (p. 192)
- 23 Pinnatifid (p. 192)
- 24 Laciniate (p. 192)
- 25 Sinuate (p. 192)
- 26 Dentato-sinuate †
- 27 Retrorfum-sinuate ‡
- 28 Partite (p. 192)
- 29 Repand (p. 194)
- 30 Dentate (p. 194)

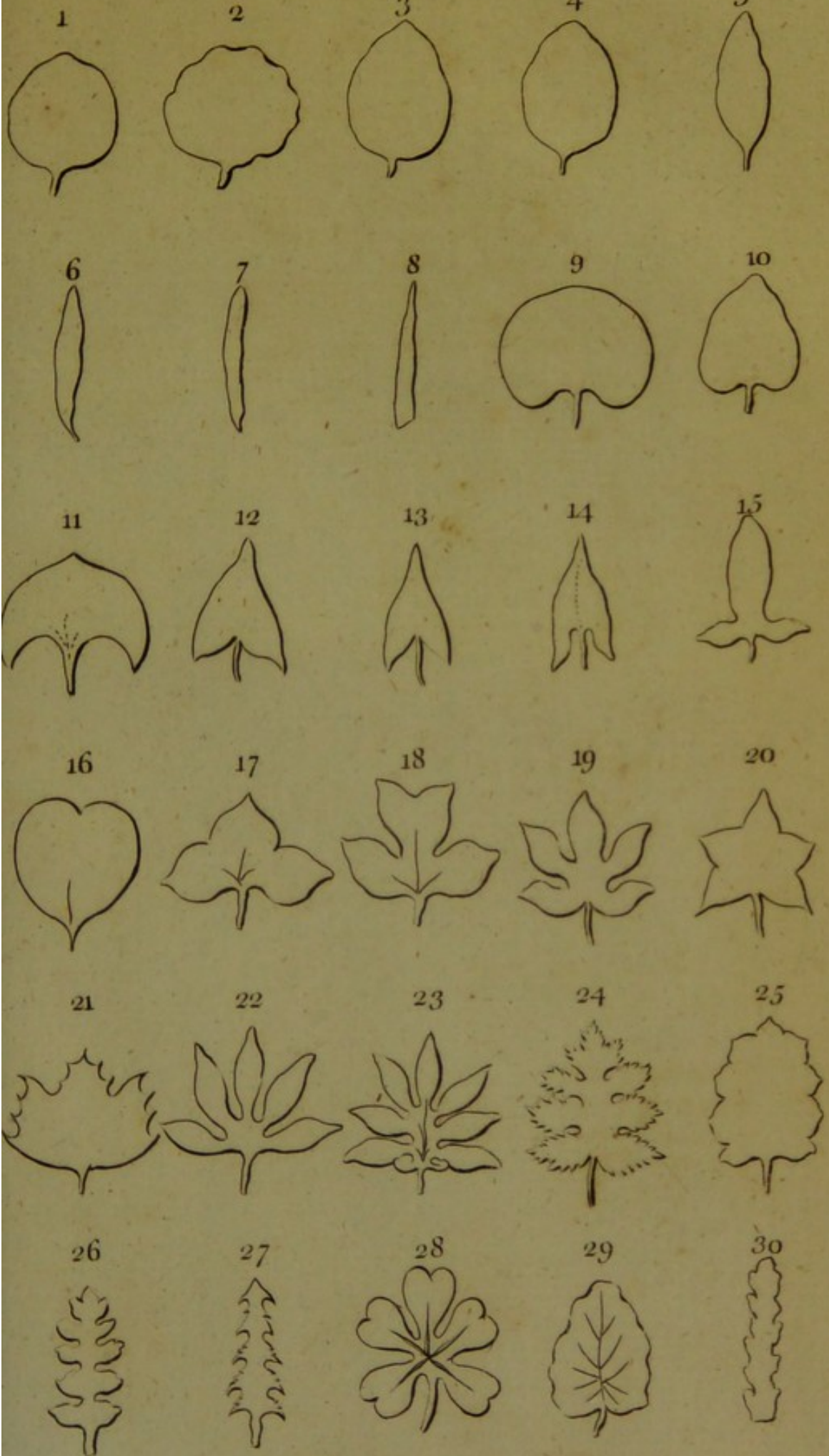
* Partaking of both Heart and Arrow-shape.

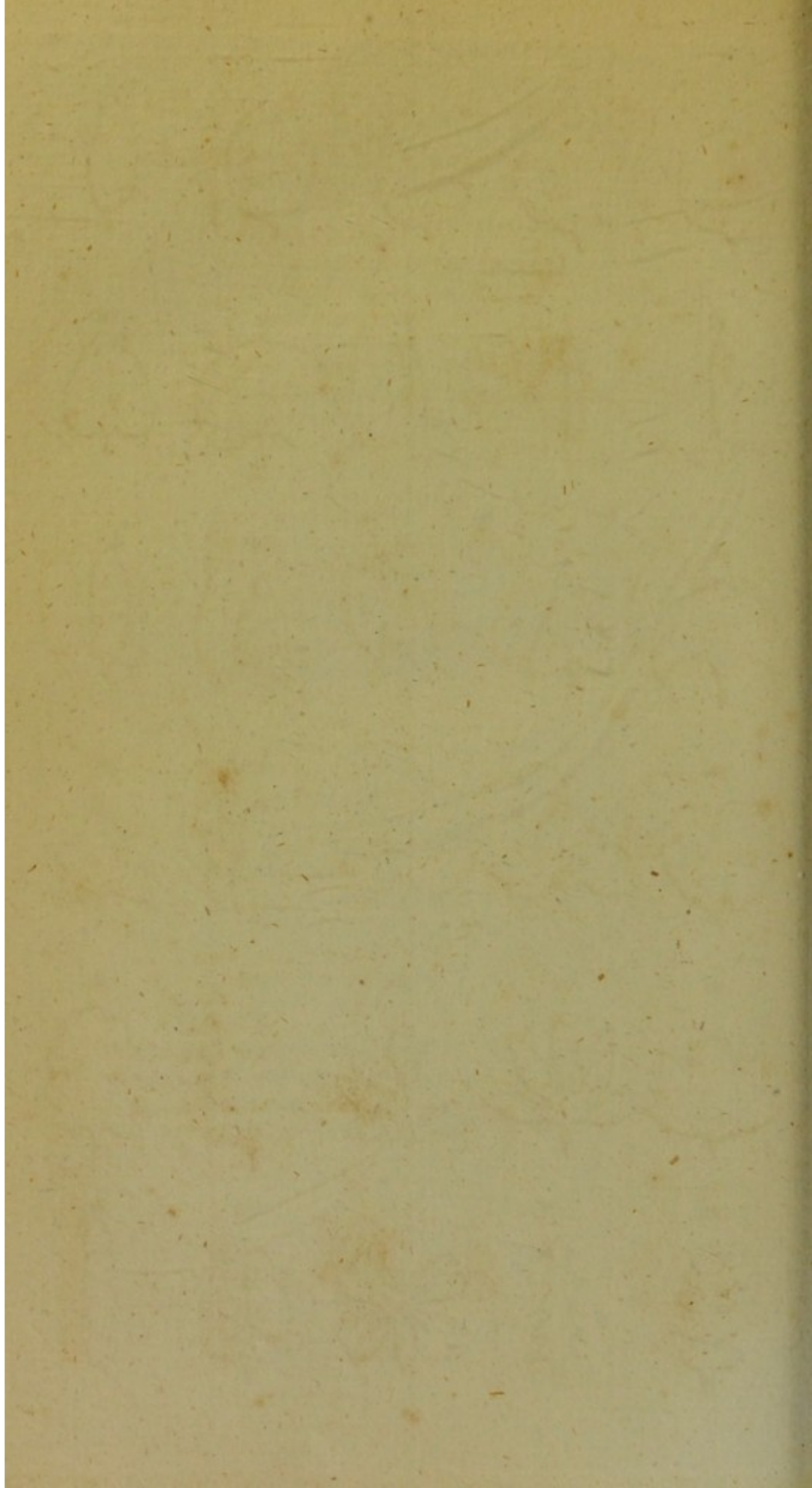
† Partaking of the indented and the hollowed.

‡ Hollowed backwards.

The explanation of these Terms were omitted in the Chapter of Simple Leaves.

Plate 6.





P L A T E VII. LEAVES.

S I M P L E L E A V E S *Continued.*

FIG.

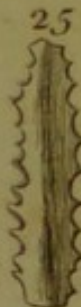
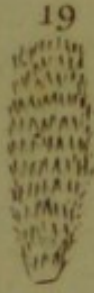
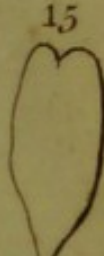
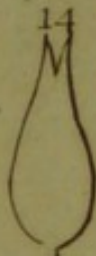
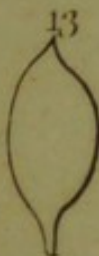
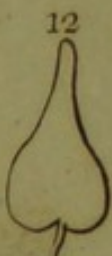
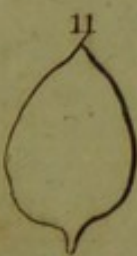
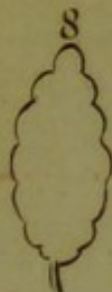
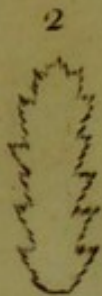
- 1 **S**errate (p. 194)
- 2 **S** Duplicato-ferrate (p. 194)
- 3 Duplicato-crenate (p. 194)
- 4 Cartilagineous (p. 195)
- 5 Acutely-crenate (p. 194)
- 6 Obtusely-crenate (p. 194)
- 7 Plicate (p. 197)
- 8 Crenate (p. 194)
- 9 Crisp (p. 197)
- 10 Obtuse (p. 193)
- 11 Acute (p. 193)
- 12 Acuminate (p. 193)
- 13 Obtuse with an Acumen *
- 14 Acutely-emarginate †
- 15 Cuneiform-emarginate ††
- 16 Retuse (p. 193)
- 17 Pilose (p. 196)
- 18 Tomentose (p. 196)
- 19 Hispid (p. 196)
- 20 Ciliate (p. 195)
- 21 Rugose (p. 197)
- 22 Venose (p. 197)
- 23 Nervose (p. 198)
- 24 Papillose (p. 196)
- 25 Linguiiform (p. 199)
- 26 Acinaciform (p. 199)
- 27 Dolabriform (p. 199)
- 28 Deltoid (p. 190)
- 29 Triquetrous (p. 200)
- 30 Canaliculate (p. 199)

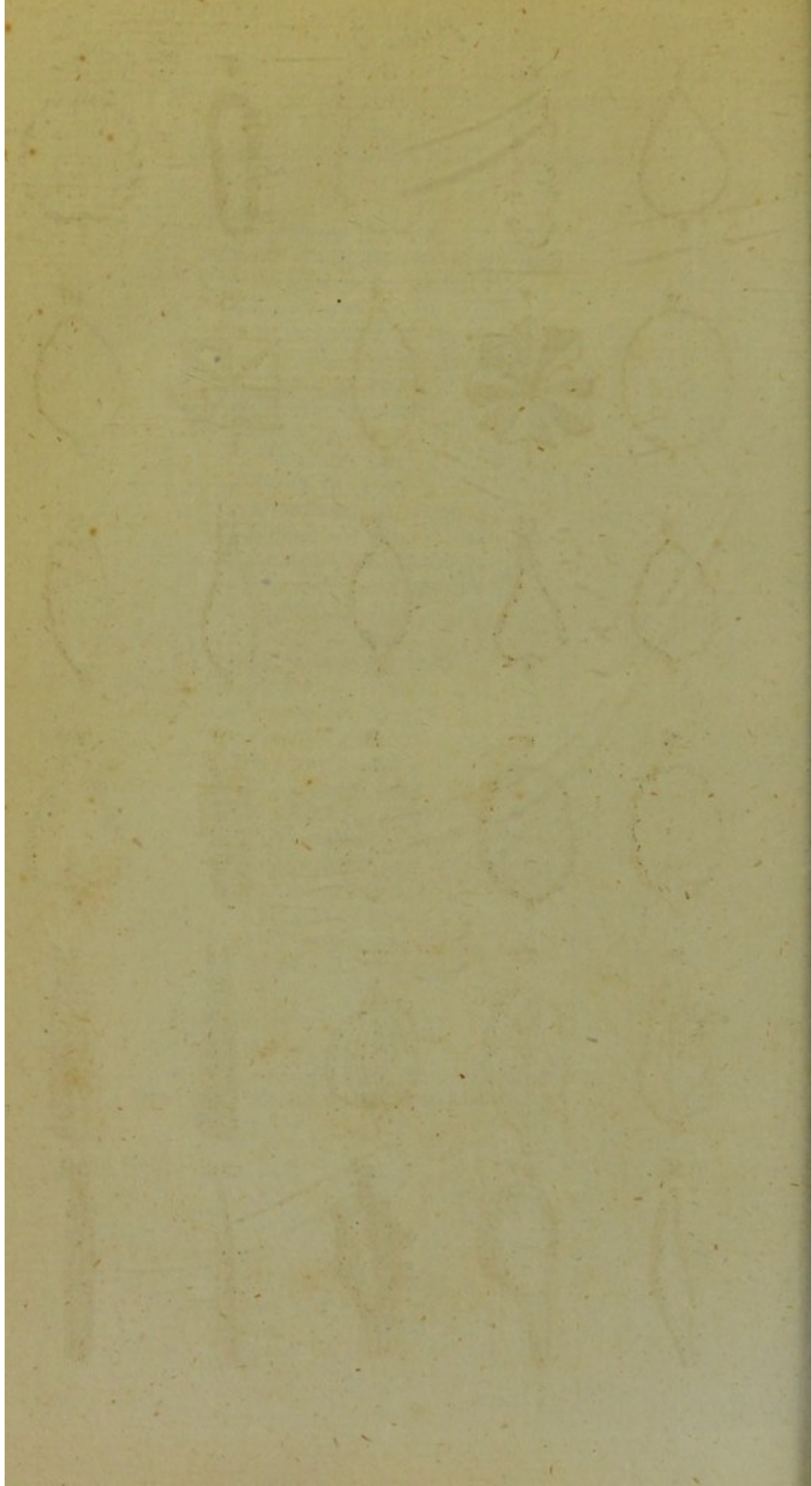
* Blunt with a point.

† Sharply Nicked.

†† Wedge-shaped and nicked. The explanation of these Terms were omitted in the Chapter of Simple Leaves.

Plate 7.





PART VII LEA 23

STUDY LEA 23

1. (a) and (b) (1923)

COMPANIES LEA 23

2. (a) and (b) (1923)

3. (a) and (b) (1923)

4. (a) and (b) (1923)

5. (a) and (b) (1923)

6. (a) and (b) (1923)

7. (a) and (b) (1923)

8. (a) and (b) (1923)

9. (a) and (b) (1923)

10. (a) and (b) (1923)

11. (a) and (b) (1923)

12. (a) and (b) (1923)

13. (a) and (b) (1923)

14. (a) and (b) (1923)

15. (a) and (b) (1923)

16. (a) and (b) (1923)

17. (a) and (b) (1923)

18. (a) and (b) (1923)

19. (a) and (b) (1923)

20. (a) and (b) (1923)

21. (a) and (b) (1923)

22. (a) and (b) (1923)

23. (a) and (b) (1923)

24. (a) and (b) (1923)

25. (a) and (b) (1923)

26. (a) and (b) (1923)

27. (a) and (b) (1923)

28. (a) and (b) (1923)

29. (a) and (b) (1923)

30. (a) and (b) (1923)

31. (a) and (b) (1923)

32. (a) and (b) (1923)

33. (a) and (b) (1923)

34. (a) and (b) (1923)

35. (a) and (b) (1923)

36. (a) and (b) (1923)

37. (a) and (b) (1923)

38. (a) and (b) (1923)

39. (a) and (b) (1923)

40. (a) and (b) (1923)

41. (a) and (b) (1923)

42. (a) and (b) (1923)

43. (a) and (b) (1923)

44. (a) and (b) (1923)

45. (a) and (b) (1923)

46. (a) and (b) (1923)

47. (a) and (b) (1923)

48. (a) and (b) (1923)

49. (a) and (b) (1923)

50. (a) and (b) (1923)

PLATE VIII. LEAVES.

SIMPLE LEAVES *Continued.*

FIG.

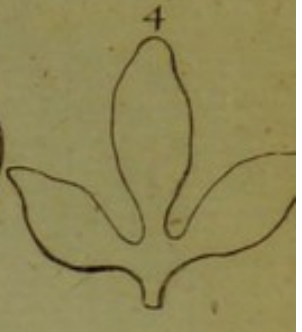
- 1 **S**ulcate (p. 200)
- 2 **S**teretes (p. 198)

COMPOUND LEAVES.

- 3 Binate
 - 4 Ternate, with the Foliioles sessile
 - 5 Ternate, with the Foliioles petiolate
 - 6 Digitate
 - 7 Pedate (p. 202)
 - 8 Pinnate with an odd one (p. 201)
 - 9 ——— abrupt (p. 201)
 - 10 ——— alternately (p. 201)
 - 11 ——— interruptedly (p. 201)
 - 12 ——— cirrhose (p. 201)
 - 13 ——— conjugate (p. 202)
 - 14 ——— decurvately (p. 201)
 - 15 ——— articulately (p. 201)
 - 16 Lyrate * (p. 192)
 - 17 Biternate (p. 202)
 - 18 Bipinnate (p. 202)
 - 19 Triternate (p. 202)
- } (p. 201
Digitate)

* This belongs to the Simple Leaves.

Plate 8.



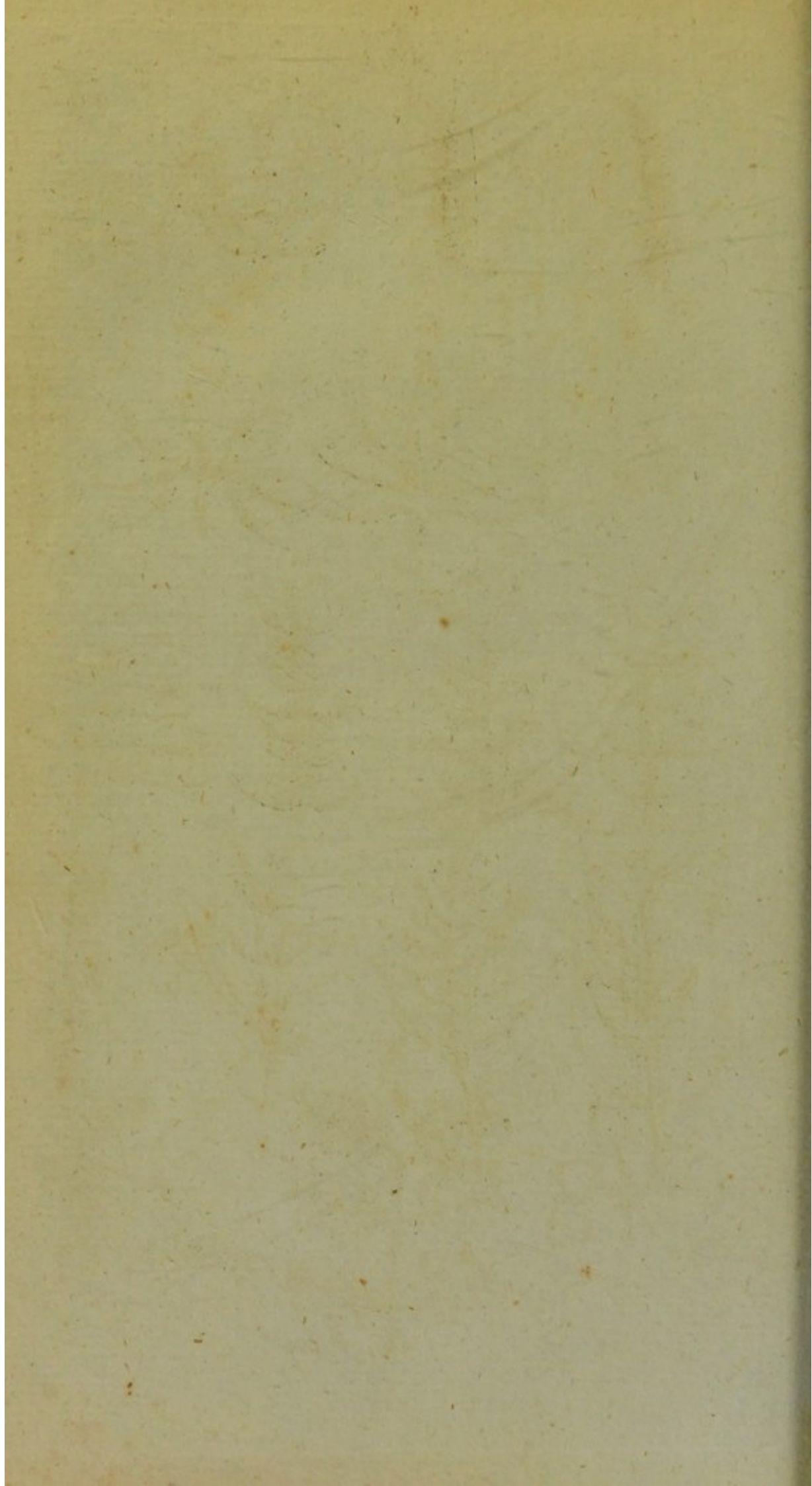


PLATE IX. L. 1848

Compositae

1. *Helianthus*

2. *Helianthus*

3. *Helianthus*

4. *Helianthus*

5. *Helianthus*

6. *Helianthus*

7. *Helianthus*

8. *Helianthus*

9. *Helianthus*

10. *Helianthus*

11. *Helianthus*

12. *Helianthus*

13. *Helianthus*

14. *Helianthus*

15. *Helianthus*

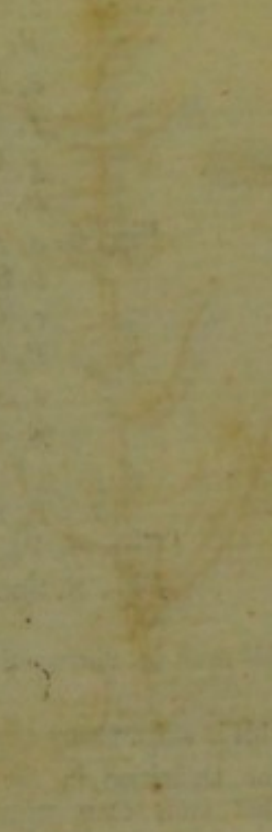
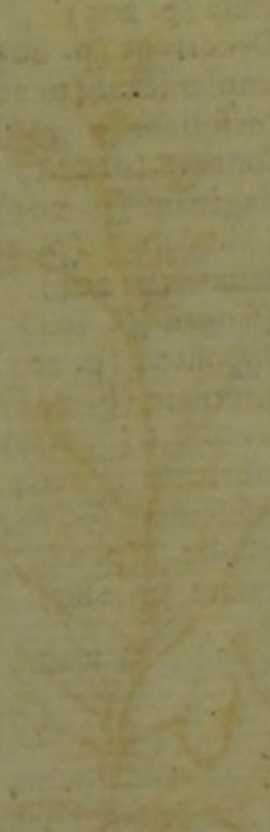
16. *Helianthus*

17. *Helianthus*

18. *Helianthus*

19. *Helianthus*

20. *Helianthus*



Bb x

PLATE IX. LEAVES.

COMPOUND LEAVES *Continued.*

- Fig. 1. **T**ripinnate abrupt (p. 202)
Fig. 2. **T** ——— with an odd one (p. 201)

DETERMINATE LEAVES.

- Fig. 3. *a*, Inflex (p. 206)
b, Erect (p. 206)
c, Patent (p. 206)
d, Horizontal (p. 206)
e, Reclined (p. 206)
f, Revolute (p. 206)

- Fig. 4. *a*, Seminal (p. 203)
b, Cauline (p. 203)
c, Rameous (p. 203)
d, Floral * (p. 203)

- Fig. 5. *a*, Peltate (p. 205)
b, Petiolate (p. 205)
c, Sessile (p. 205)
d, Decurrent (p. 205)
e, Amplexicaul (p. 205)
f, Perfoliate (p. 206)
g, Connate (p. 205)
b, Vaginant (p. 205)

- Fig. 6. *a*, Articulate † (p. 201)
b, Stellate (p. 204)
c, Quatern (p. 204)
d, Opposite ‡ (p. 204)
e, Alternate (p. 204)
f, Acerose § (p. 190)
g, Imbricate (p. 204)
b, Fasciculate (p. 204)

- Fig. 7. Parabolic || (p. 189)

- Fig. 8. Spatulate (p. 189)

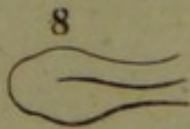
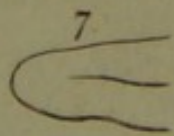
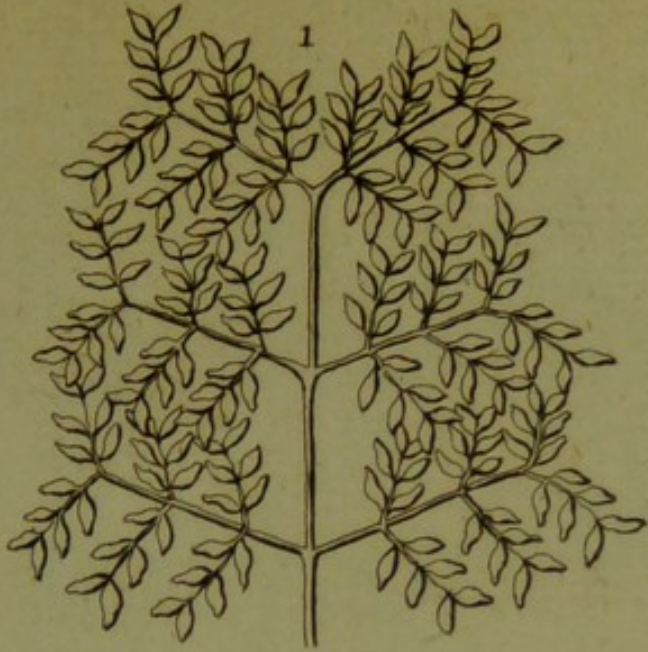
* This must be distinguished from the Bractex, or floral Leaf in Plate I. Fig. 11.

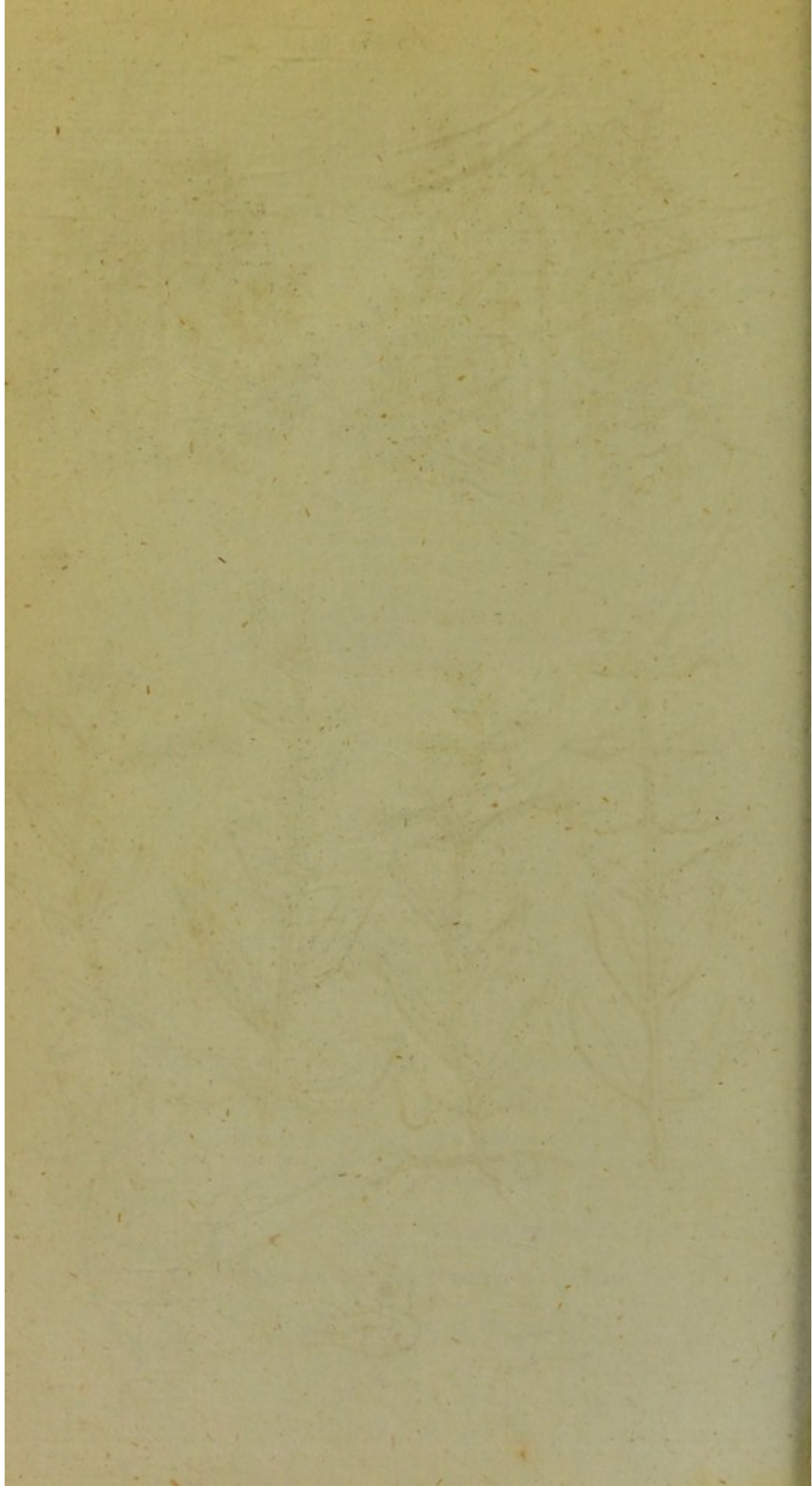
† This is a compound Leaf.

‡ The Definition in the Page cited, confines this Term to Leaves in Pairs that cross each other; but by this Figure, taken from LINNÆUS, it appears to be applicable also to Leaves in Pairs that are not so circumstanced.

§ The Definition of this has been given amongst the simple Leaves, though it stands more properly here.

|| This and Fig 8. are simple Leaves omitted in their Place.





P I A T E X

F U C C I A

Fig. 1. a. **A** Cilia (p. 207)

b. Siphon (p. 207, 217)

c. Coenocyst (p. 208, 220)

Fig. 2. a. Tubularia (p. 208, 220)

b. Branches differing from the tubularia (p. 208)

c. Tubularia

Fig. 3. a. Simple spines (p. 208, 220)

b. Triple spines

Fig. 4. a. Simple Acetabulum (p. 208, 220)

b. Triple Acetabulum (p. 208, 220)

Fig. 5. a. Opposite Coenocyst (p. 208, 220)

b. The Axilla (p. 208, 220)

PLATE X.

FULCRA.

Fig. 1. *a*, **A** Cirrhus (p. 208)

b, Stipulæ (p. 207, 217)

c, Concave Glandules (p. 208, 230)

Fig. 2. *a*, Pedicellate * Glandules (p. 208, 230)

Fig. 3. *a*, Bractææ differing from the Leaves (p. 208)

b, The Leaves.

Fig. 4. *a*, Simple Spines (p. 208, 229)

b, A Triple Spine.

Fig. 5. *a*, Simple Aculei (p. 208, 229)

b, Triple Aculei, or Forks (p. 229)

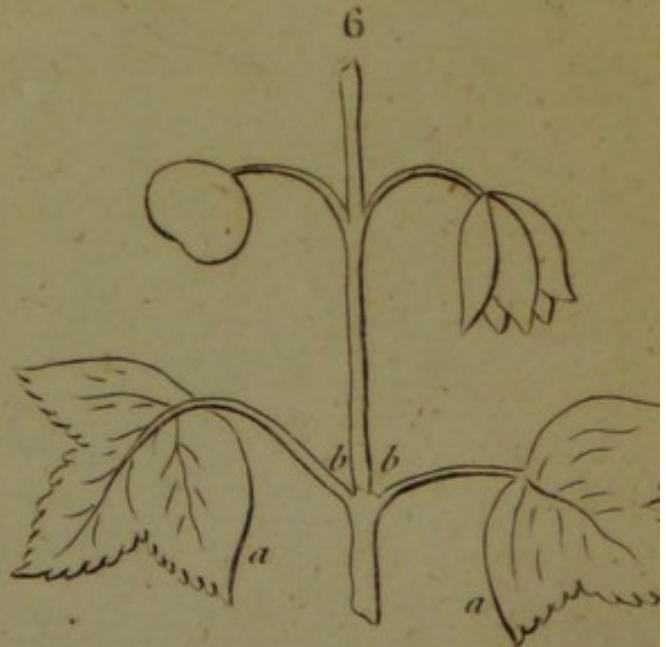
Fig. 6. *a*, Opposite Leaves (p. 204) †

b, The Axillæ (p. 184, 233)

* Such as are born on Pedicells, or little Footstalks.

† See the Note on Plate IX. Fig. 6. *d*.

Plate 10.



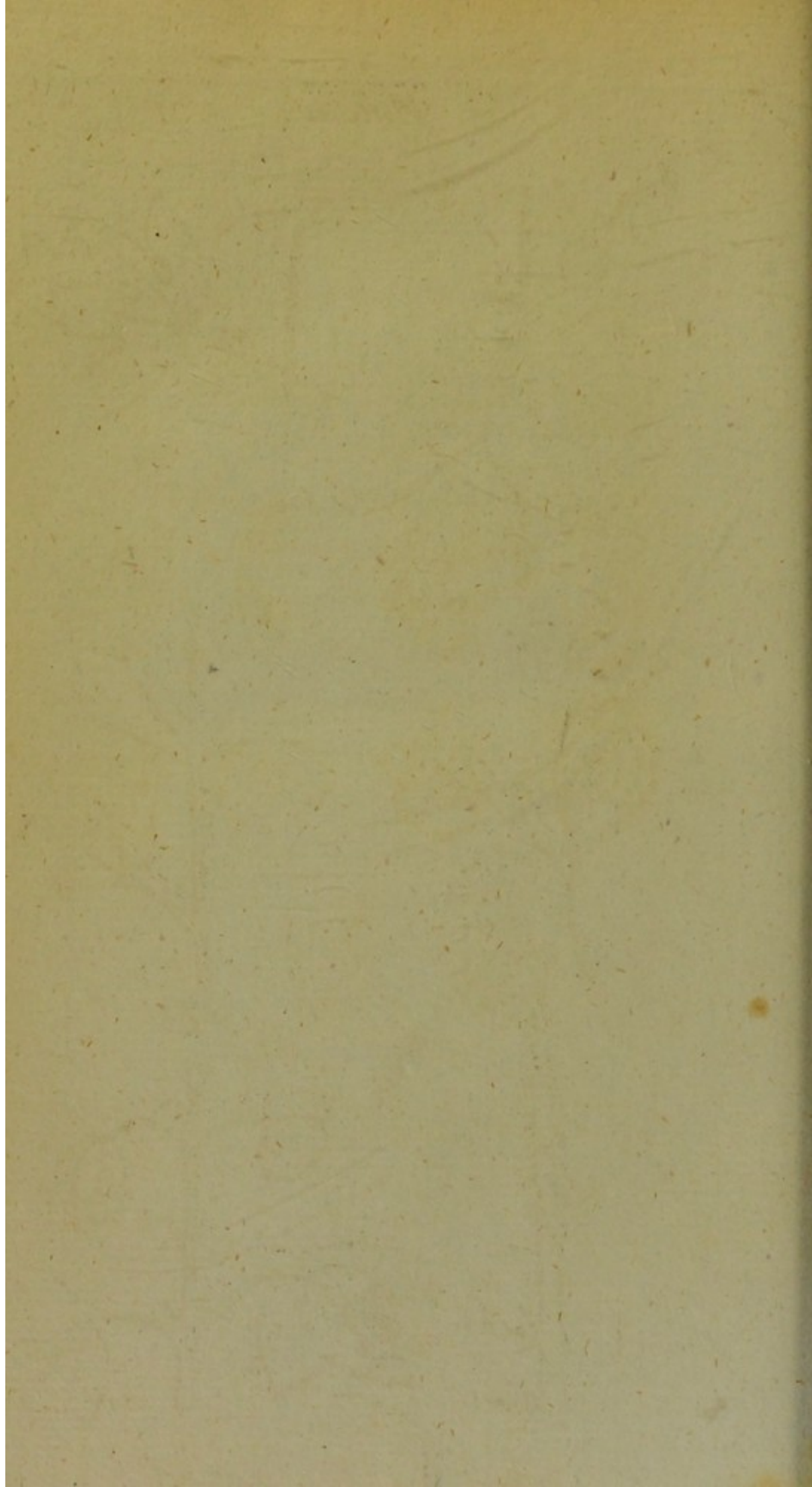


PLATE XI

FOSSILS



1. *Brachymeris (Brachymeris) ...*

2. *Brachymeris (Brachymeris) ...*

3. *Brachymeris (Brachymeris) ...*



4. *Brachymeris (Brachymeris) ...*

5. *Brachymeris (Brachymeris) ...*

6. *Brachymeris (Brachymeris) ...*



7. *Brachymeris (Brachymeris) ...*

8. *Brachymeris (Brachymeris) ...*

9. *Brachymeris (Brachymeris) ...*

10. *Brachymeris (Brachymeris) ...*

11. *Brachymeris (Brachymeris) ...*

12. *Brachymeris (Brachymeris) ...*

13. *Brachymeris (Brachymeris) ...*

14. *Brachymeris (Brachymeris) ...*

15. *Brachymeris (Brachymeris) ...*

16. *Brachymeris (Brachymeris) ...*

17. *Brachymeris (Brachymeris) ...*

PLATE XI.

FOLIATION.

FIG.

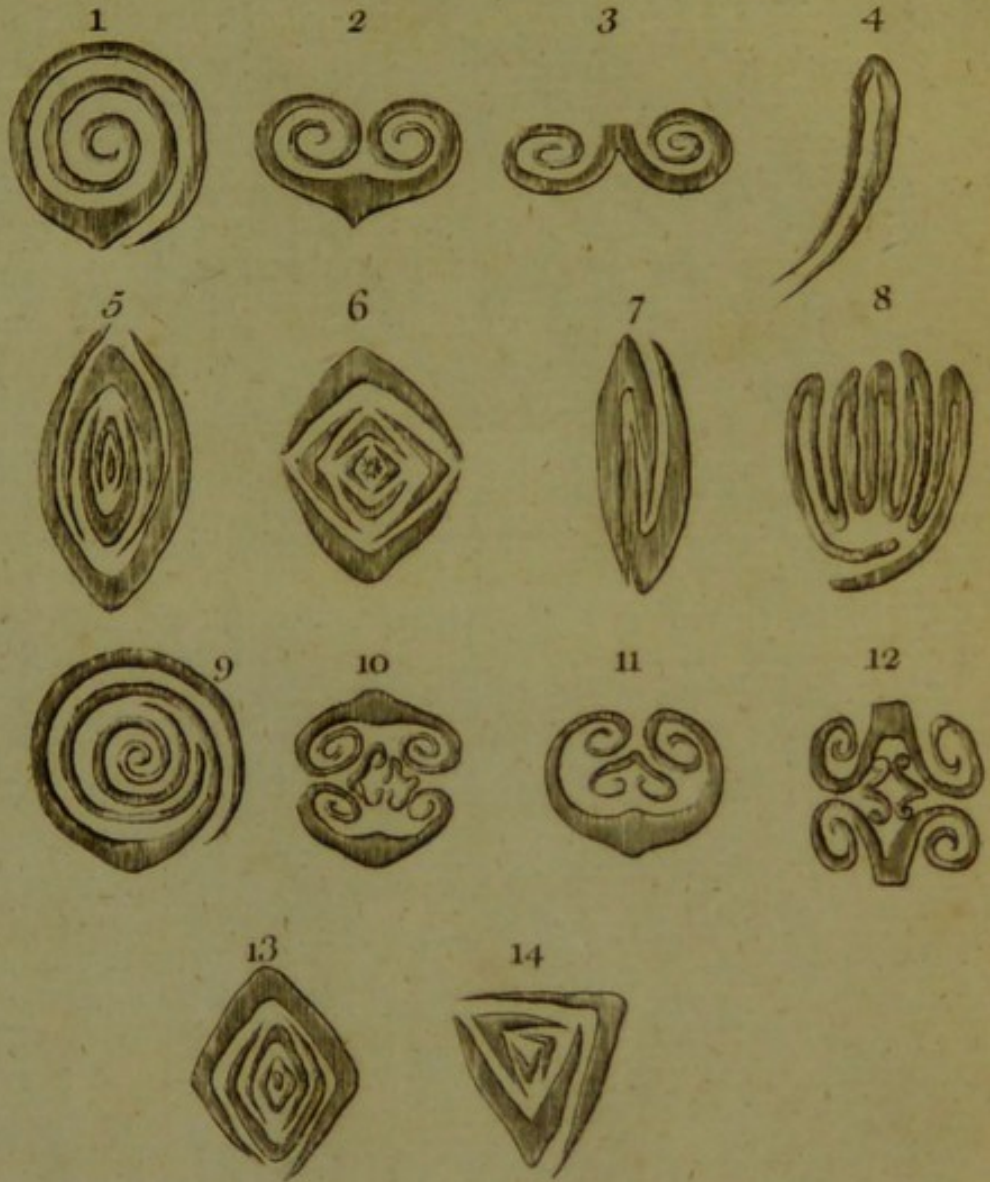
- | | | |
|----|--------------------|---------------------|
| 1 | Convolute | (p. 222) |
| 2 | Involute | (p. 221) |
| 3 | Revolute | (p. 221) |
| 4 | Conduplicate | (p. 223) |
| 5 | Equitant | (p. 223) |
| 6 | Imbricate | (p. 222) |
| 7 | Obvolute | (p. 222) |
| 8 | Plicate | (p. 223) |
| 9 | Convoluta * | (p. 222) |
| 10 | Involute opposite | } (p. 221 involute) |
| 11 | ———— alternate | |
| 12 | Revolute opposite | (p. 222) |
| 13 | Equitant ancipit † | } (p. 223 equitant) |
| 14 | ———— triquetrous ‡ | |

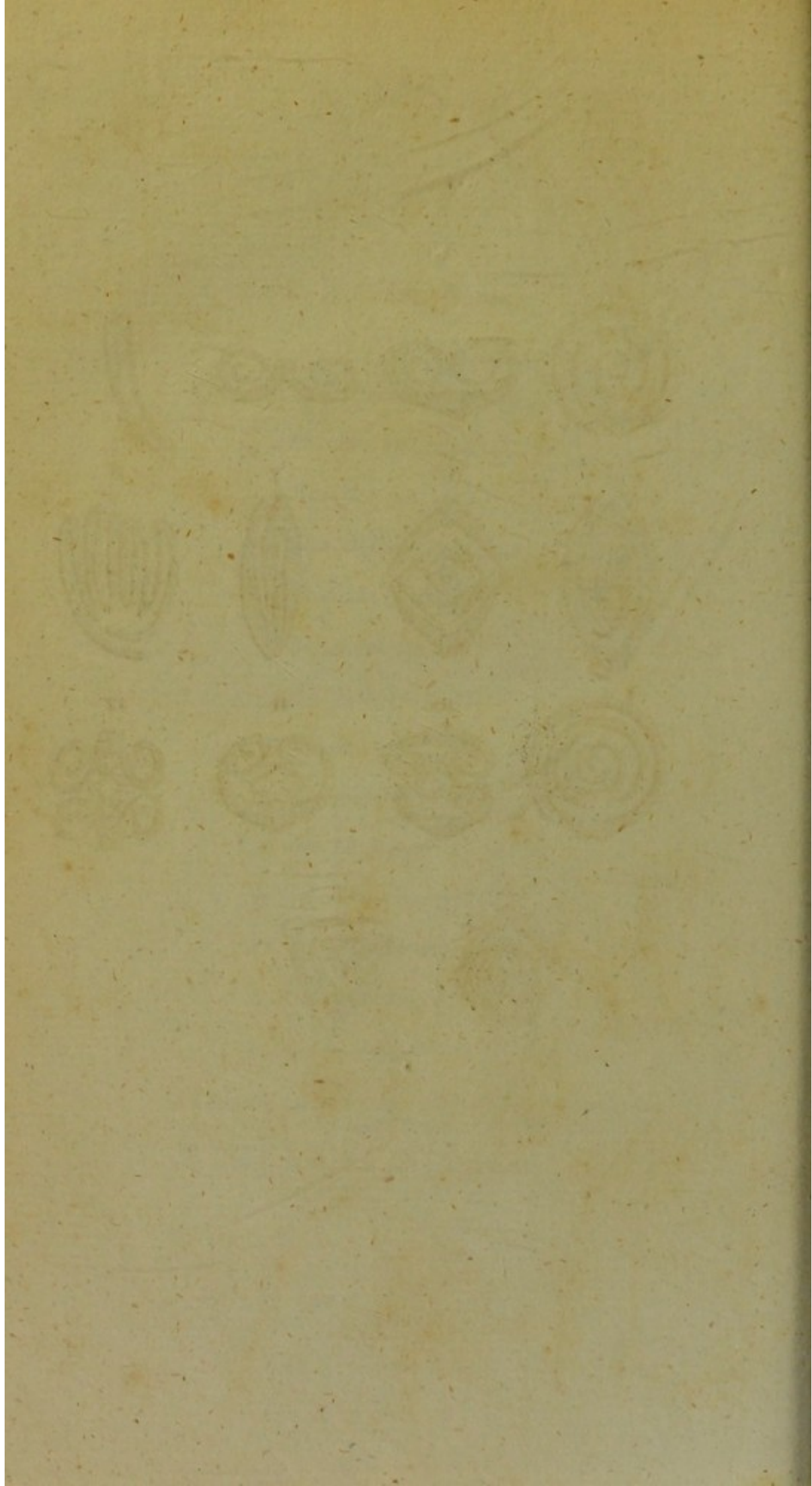
* More than one Leaf convolute. Fig. 1. is a single Convolution.

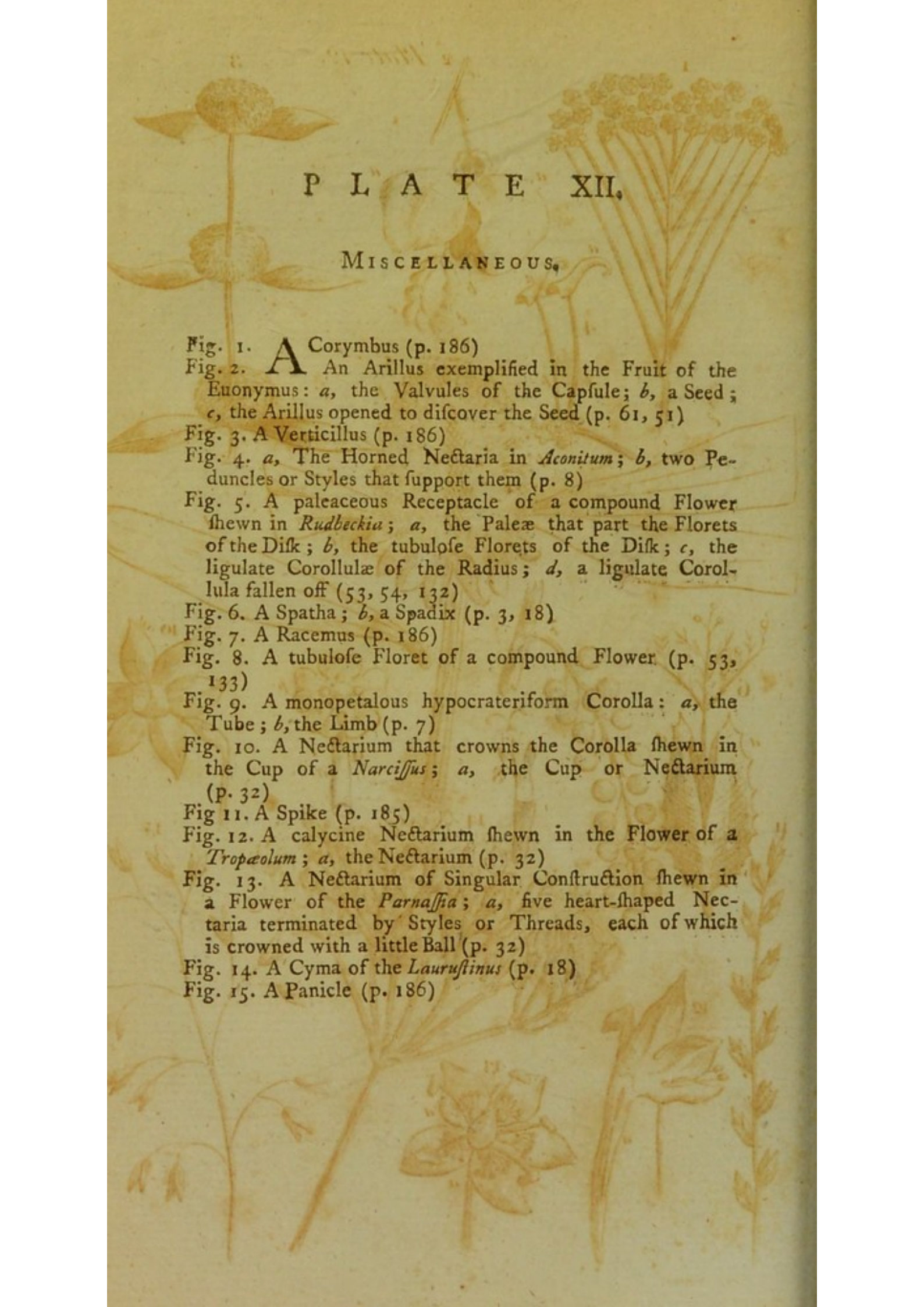
† Equitant with two prominent Angles. See the Difference in Fig. 5, which has not those Angles.

‡ Equitant three Ways, so as to form a Triangle.

Plate II.



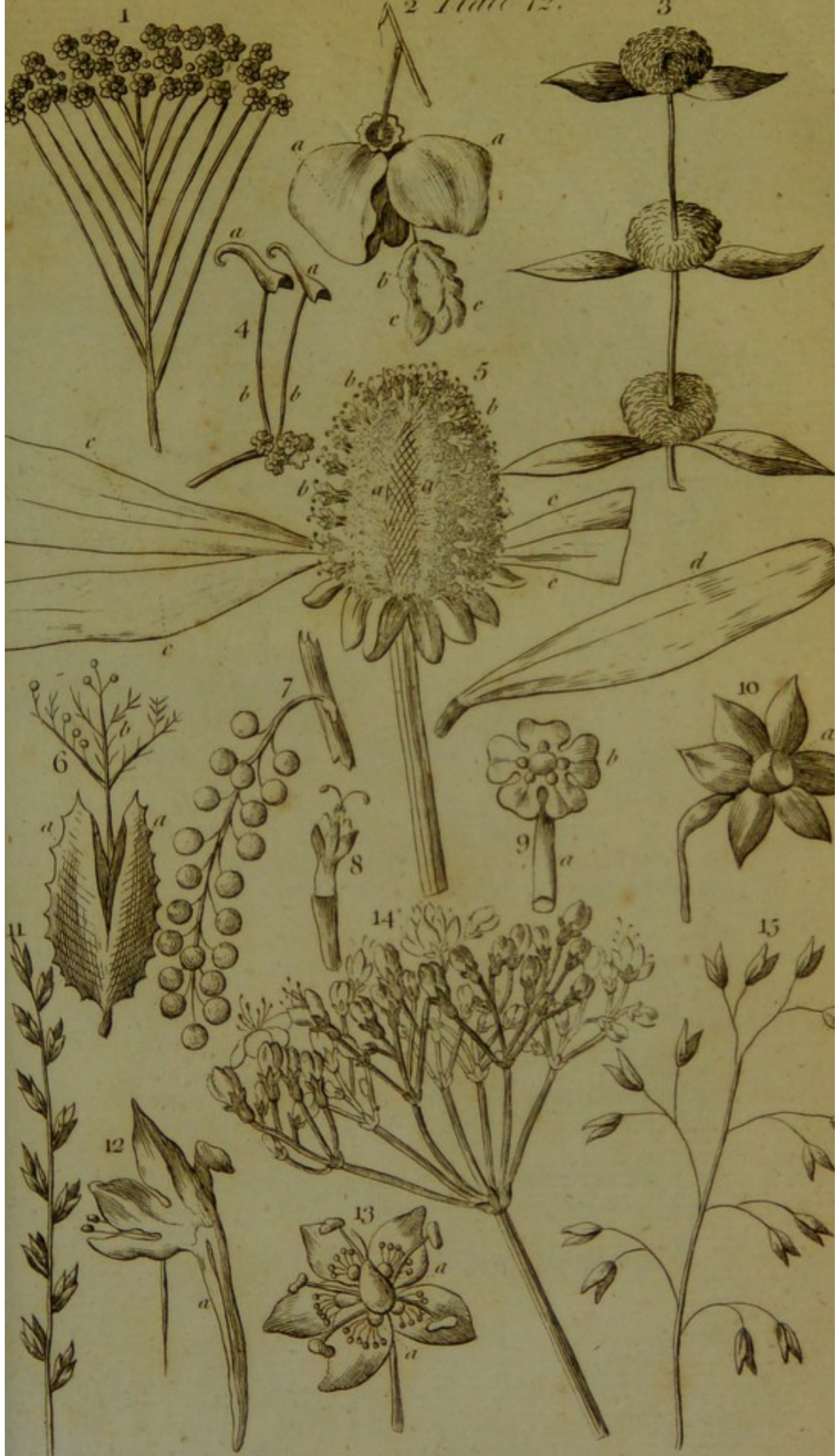


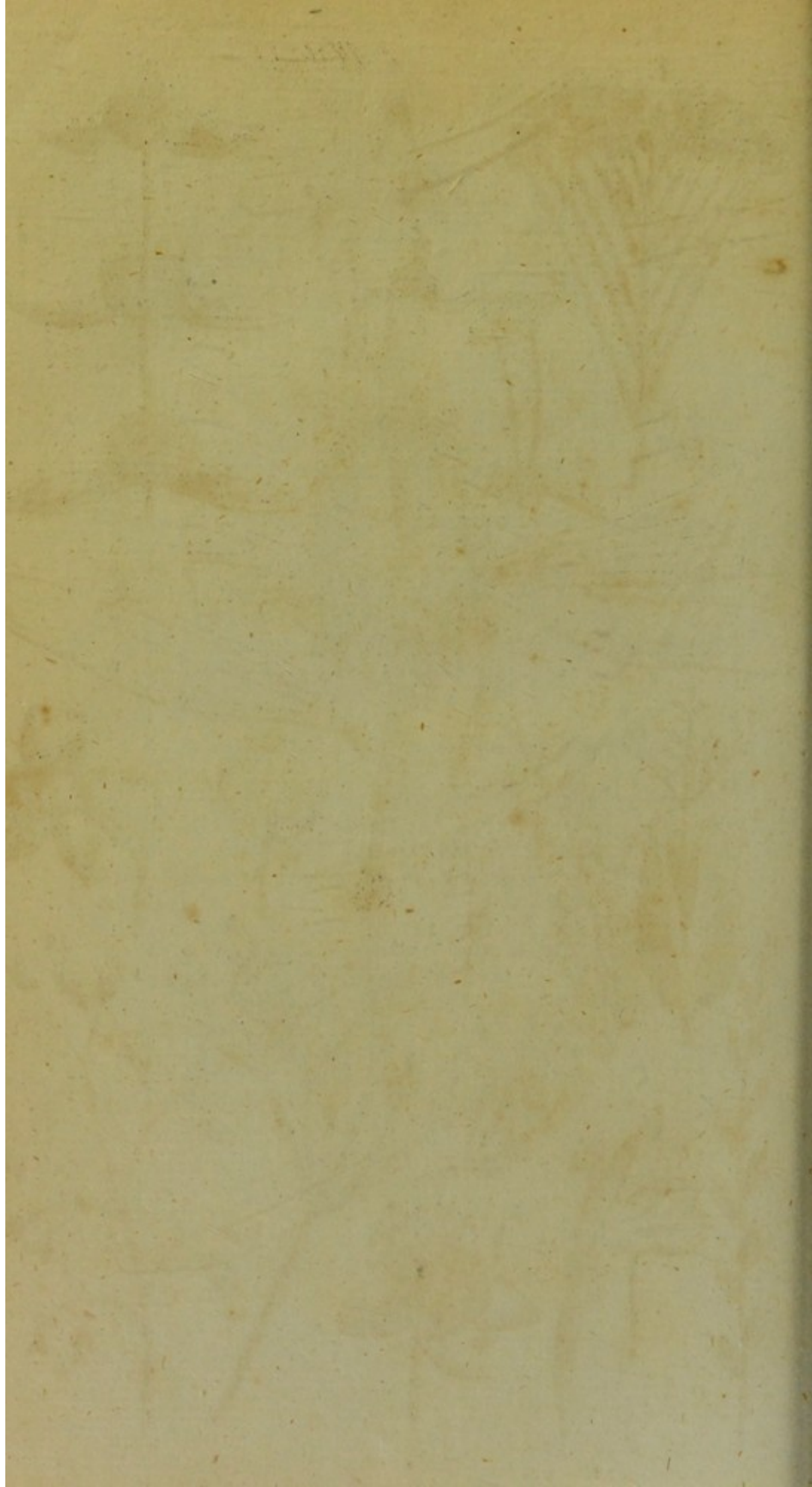


P L A T E XII,

MISCELLANEOUS,

- Fig. 1. **A** Corymbus (p. 186)
Fig. 2. An Arillus exemplified in the Fruit of the
Euonymus: *a*, the Valvules of the Capsule; *b*, a Seed;
c, the Arillus opened to discover the Seed (p. 61, 51)
Fig. 3. A Verticillus (p. 186)
Fig. 4. *a*, The Horned Nectaria in *Aconitum*; *b*, two Pe-
duncles or Styles that support them (p. 8)
Fig. 5. A paleaceous Receptacle of a compound Flower
shewn in *Rudbeckia*; *a*, the Paleæ that part the Florets
of the Disk; *b*, the tubulose Florets of the Disk; *c*, the
ligulate Corollulæ of the Radius; *d*, a ligulate Corol-
lula fallen off (53, 54, 132)
Fig. 6. A Spatha; *b*, a Spadix (p. 3, 18)
Fig. 7. A Racemus (p. 186)
Fig. 8. A tubulose Floret of a compound Flower (p. 53,
133)
Fig. 9. A monopetalous hypocateriform Corolla: *a*, the
Tube; *b*, the Limb (p. 7)
Fig. 10. A Nectarium that crowns the Corolla shewn in
the Cup of a *Narcissus*; *a*, the Cup or Nectarium
(p. 32)
Fig. 11. A Spike (p. 185)
Fig. 12. A calycine Nectarium shewn in the Flower of a
Tropæolum; *a*, the Nectarium (p. 32)
Fig. 13. A Nectarium of Singular Construction shewn in
a Flower of the *Parnassia*; *a*, five heart-shaped Nec-
taria terminated by Styles or Threads, each of which
is crowned with a little Ball (p. 32)
Fig. 14. A Cyma of the *Laurustinus* (p. 18)
Fig. 15. A Panicle (p. 186)





A N

E X P L A N A T I O N

O F

B O T A N I C T E R M S,

According to the Sexual System of LINNÆUS.

Of various Kinds of ROOTS, the TRUNK,
BRANCHES, LEAVES, and FRUCTIFICATION,
in their natural Order.

R A D I X the R O O T*,

An Organ by which a Plant receives its Nourishment.

DURATION.

- 1 **A** NNUA, annual, that dies in one Year.
- 2 **B** iennis, biennial, that dies in the Space of two Years.
- 3 **P** erennis, perennial, that regerminates several Years successively.

FIGURE.

- 4 **F** ibrosa, fibrous, consisting entirely of Filaments.
- 5 **R** amosa, ramous, subdivided into branchy Fibres.
- 6 **F** usiformis, spindle-shaped, simple, and gradually lessening downward.
- 7 **P** ræmorfa, bitten, or gnawed.
- 8 **R** epens, creeping horizontally, and putting forth Radicles downward, and shooting upwards.
- 9 **A** rticulata, jointed, divided into Joints.
- 10 **D** entata, toothed, having rows of Knobs like Teeth.
- 11 **G** lobosa, round, (158) Roots springing from the Sides of others.
- 12 **T** uberosa, tuberous, consisting of fleshy bodies connected by slender Fibres.

* Vide Page 177.

- 13 Fascicularis, bunched, fleshy Roots sessile, connected at the Base (150)
- 14 Palmata, handed, fleshy lobate Roots, like Fingers (184)
- 15 Bulbosa, furnished with a Bulb (655)
- 16 Granulata, granulated, round fleshy Roots like Seeds.

TRUNCUS the TRUNK or STEM,

The Organ which supports the Branches, Leaves, and Fructification.

KINDS.

- 17 Caulis, a Stem, which elevates the Fructification and Leaves.
- 18 Culmus, a Straw, properly the Trunk of Grasses.
- 19 Scapus, a Stalk, elevating the Fructification and not the Leaves.
- 20 Stipes, a Trunk that expands itself into a Leaf.

DURATION.

- 21 Herbaceous, herb-like, that perishes every Year, an annual Stem, not woody.
- 22 Suffruticosus, suffruticous, half-shrubby, the Root permanent, and the Branches sometimes withering.
- 23 Fruticosus, shrubby, with perennial Stalks arising from the Root, that are woody.
- 24 Arboreus, tree-like, with a single woody Stem from the same Root.
- 25 Solidus, solid, without internal Pores.
- 26 Inanis, pithy, filled with a spongy Substance.
- 27 Fistulosus, fistulous, hollow like a Pipe.

DIRECTION.

- 28 Erectus, erect, rising nearly to a perpendicular Direction.
- 29 Strictus, straight, perpendicular without Flexure.
- 30 Rigidus, hard, not easily bent.
- 31 Laxus, loose, easily bent.
- 32 Obliquus, awry, in a Direction neither perpendicular nor horizontal.
- 33 Ascendens, rising upwards, with a Curve like an Arch.
- 34 Declinatus, declined, bending downwards archways.
- 35 Incurvatus, incurvate, bending inwards.
- 36 Nutans, nodding, the Top or Head bent downwards.
- 37 Diffusus, diffuse, with spreading Branches.
- 38 Procumbens, procumbent, lying on the Ground.
- 39 Stoloniferus, producing Shoots or Runners from the Root.
- 40 Sarmmentosus, thread like, producing Roots from the Joints.
- 41 Repens, creeping, trailing on the Ground, and here and there producing Roots.
- 42 Radicans, rooting, striking Root laterally and fixing to other Bodies.

- 43 Geniculatus, jointed, divided by Knots or round Swellings.
 44 Flexuosus, waved, bent backwards and forwards from Bud to Bud.
 45 Scandens, climbing, generally by the Support of some other Body.
 46 Volubilis, twining, growing round some other body in a spiral ascending Direction.
 Dextrorsum, twining from the Right to the Left.
 Sinistrorsum, twining from the Left to the Right.

FIGURE.

- 47 Teres, round, cylinder-shaped without Angles.
 48 Semiteres, half-round, semicylindrical.
 49 Compressus, flattened, with two opposite Sides flat.
 50 Anceps, two-edged, flattened with two opposite Sides sharp.
 51 Angulatus, angulated, having three or more Angles formed by as many intermediate longitudinal Cavities.
 Acutangulus, sharp-angled.
 Obtusangulus, obtusely-angled.
 52 Triqueter, three-sided, having three Sides that are quite flat.
 53 Trigonus, Tetragonus, &c. three-cornered, four-cornered &c. having three, four, or more prominent Angles lengthways.
 54 Nudus, naked, without Leaves or other Covering.
 55 Aphyllus, without Leaves.
 56 Foliatus, leafy, furnished with Leaves.
 57 Vaginatus, sheathed, surrounded with a Sheath, formed by the Base of the Leaf.
 58 Squamosus, squamous, covered with Scales.
 59 Imbricatus, imbricate, covered with Leaves or Scales placed like Tiles, or the Scales of Fishes.

SURFACE.

- 60 Suberosus, fuberous, the outward Bark soft, but elastic like Cork.
 61 Rimosus, rimous, the outward Bark full of Cracks and Fissures.
 62 Tunicatus, tunicated, coated with Skins or Membranes.
 63 Lævis, smooth, free from Protuberances or Inequalities.
 64 Striatus, striate, marked with small Lines.
 65 Sulcatus, sulcate, furrowed with deep hollow Lines.
 66 Glaber, slippery, smooth and glossy like Glass.
 67 Scaber, scabrous, covered with rough Prominences.
 68 Muricatus, muricated, covered with sharp Points or Prickles.
 69 Tomentosus, tomentose, covered with Down.
 70 Lanatus, woolly.
 71 Villosus, villous, covered with soft Hair.
 72 Pilosus, pilose, covered with long Hairs that are thinly placed.

- 73 Hispidus, hispid, covered with stiff Hairs or Bristles.
 74 Aculeatus, aculeate, armed with Prickles, 378.
 75 Spinosus, spinous, armed with Thorns, 384.
 76 Urens, stinging, armed with Stings, 391.
 77 Stipulatus, stipulate, having stipula, 291.
 78 Membranatus, membranated, flat like a thin pellucid Leaf.
 79 Bulbiferus, bearing Bulbs, 655.

COMPOSITION.

- 80 Enodis, without Knots or Joints, the Thickness uniform.
 81 Simplicissimus, very simple, with few or no Branches.
 82 Simplex, simple, that rises uniform and regular to the Top.
 83 Integer, intire, undivided.
 84 Articulatus, jointed.
 85 Prolifer, proliferous, sending forth Branches only from the
 Appex.
 86 Dichotomus, branched always by two, forked.
 87 Brachiatus, brachiate, branching opposite, the upper Pair
 crossing the next below.
 88 Subramosus, subramous, having few lateral Branches.
 89 Ramosus, ramous, having many lateral Branches.
 90 Ramosissimus, many Branches, subdivided without Order,
 in all Directions.
 91 Virgatus, virgated, with many slender Twigs.
 92 Paniculatus, paniculated, whose Branches are variously sub-
 divided.
 93 Fastigiatus, fastigiata, Branches arising from a Centre to
 an equal Height.
 94 Patens, spreading, 134.
 95 Divaricatus, divaricate, Branches forming an obtuse Angle
 from the Trunk, 105.

RAMI PARTES CAULIS,

The Branches Part of the Stem.

- 96 Alterni, alternate, when they come out single and follow in
 gradual Order, 115.
 97 Distichi, distichous, in two Rows.
 98 Sparsi, sparsed, scattered without Order, 118.
 99 Conferti, crowded, 119.
 100 Oppositi, opposite, 126.
 101 Verticillati, verticillate, Branches surrounding the Stem, or
 at the Joints, like the Rays of a wheel.
 102 Erecti, erect, upright, perpendicular.
 103 Coarctati, close together, almost touching towards the Top.
 104 Divergentes, divergent, Branches growing from the Trunk
 at Right Angles like Rays from a Centre.
 105 Divaricati, divaricate, Branches shooting from the Trunk,
 so as to make an obtuse Angle.

- 106 Deflexi, deflex, bending downwards archwise.
 107 Reflexi, reflex, bending back towards the Trunk.
 108 Retroflexi, retroflex, bending backward and forward towards the Trunk.
 109 Fulcrati, fulcrate, having Props or Supports.

THE LEAVES,

The Organs by which Plants are put in Motion.

THEIR PLACE.

- 110 Radicale, radical, springing from the Root.
 111 Caulinum, cauline, springing from the Stem.
 112 Rameum, rameous, growing on the Branches.
 113 Axillare, axillary, placed at the Insertion of the Branch.
 114 Florale, floral, placed near the Flower, and are commonly smaller.

SITUATION.

- 115 Alterna, alternate, when they come out single, and follow in a gradual Order.
 116 Disticha, distichous, disposed in two opposite Rows, though inserted on all Sides.
 117 Bifaria, bifarious, inserted only on two opposite Sides of a Branch or Middle Rib.
 118 Sparsa, sparsed, scattered in no certain Order.
 119 Conferta, confert, crowded together.
 120 Imbricata, imbricate, lying over one another like Scales of Fishes.
 121 Fasciculata, fasciculate, growing in Bunches from one Point.
 122 Gemina, Trina, &c. two, three, or more together from the same Point.
 123 Confluentia, confluent, growing together or running into one another at the Base.
 124 Approximata, approximate, mutually approaching each other.
 125 Remota, remote, placed at some Distance from each other.
 126 Opposita, opposite, growing opposite, but in such a Manner that each Pair crosses the other above and below.
 127 Decussata, decussated, where the Pairs cross each other in a regular manner.
 128 Verticillata, verticillate, whorled, where three or more Leaves surround the Stem.
 129 Ternata, Quaterna, &c. three or four together, &c. according to the number of Leaves surrounding each Joint.

DIRECTION.

- 130 Erectum, erect, upright, perpendicular.
 131 Strictum, straight, quite perpendicular without Flexure or bending.
 132 Rigidum, rigid, stiff, not easily bent.

- 133 Adpressum, adprest, the Disk of the Leaf pressed towards the Stem.
- 134 Patens, patent, spreading, making an acute Angle with the Stem.
- 135 Horizontale, horizontal, growing from the Stem at Right Angles.
- 136 Affurgens, affurgent, bending upwards, 33.
- 137 Inflexum, inflex, bending inwards towards the Stem.
- 138 Reclinatum, reclinate, bending downwards archwise, the Apex ascending.
- 139 Recurvatum, recurvate, bent backwards in the Form of an Arch, the convex Side upwards.
- 140 Revolutum, revolute, rolled back in Form of a Scroll.
- 141 Dependens, dependent, hanging with the Point downwards.
- 142 Obliquum, oblique, the Base looking upwards, the Apex to the Horizon.
- 143 Verticale, vertical, Leaves so situated that the Base is perpendicular to the Apex.
- 144 Refupinatum, resupinate, when the lower Disk of the Leaf looks upwards.
- 145 Submersum, submersed, sunk under the Surface of the Water.
- 146 Natans, natant, floating on the Surface of the Water.
- 147 Radicans, radican, striking Root.

INSERTION.

- 148 Petiolatum, petiolate, having a Petiole or Footstalk, 290.
- 149 Peltatum, peltate, having the Footstalk inserted into the Disk of the Leaf.
- 150 Sessile, sessile, sitting immediately on the Stem without a Footstalk.
- 151 Adnatum, adnate, the upper Disk of the Leaf adhering to the Stem by an Attachment of its Base.
- 152 Coadunata, coadunate, several growing together at their Base.
- 153 Decurrens, decurrent, where the Base of a sessile Leaf is elongated and runs down the Stem,
- 154 Amplexicaule, amplexicaul, embracing the Stem with its Base.
- 155 Perfoliatum, perfoliate, where the Base of the Leaf entirely surrounds the Stem, or when the Stalk grows through the Centre of the Leaf.
- 156 Connata, connate, where two opposite Leaves grow together at their Bases.
- 157 Vaginans, vaginant, where the Base of the Leaf forms a tubular Sheath that surrounds the Stem.

FIGURE.

- 158 Subrotundum, subrotund, almost round, nearly circular.

- 159 Obiculatum, orbiculate, of a circular Figure.
 160 Ovatum, ovate, egg-shaped.
 161 Ovale, oval, the Shape of an Egg when both ends are equal.
 162 Oblongum, oblong, twice the Length of its Breadth.
 163 Parabolicum, parabolic, like the smaller End of an Egg.
 164 Cuneiforme, cuneiform, wedge-shaped, tapering from the
 Apex to the Base.
 165 Spatulatum, spatulate, rounded at the Apex, and narrower
 and linear at the Base.
 166 Rotundatum, rotundate, rounded, or with Angles in a Circle.
 167 Lanceolatum, lanceolate, oblong, and tapering towards
 both Extremities.
 168 Ellipticum, elliptical, an Oval whose Ends are equal.
 169 Lineare, linear, every where of the same Breadth.
 170 Accerosum, acerose, linear, and permanent, like Chaff,
 or the Leaves of Pines.

ANGLES.

- 171 Integrum, entire, undivided, without Divisions.
 172 Triangulare, triangular, &c. three-angled, &c.
 173 Deltoideum, deltoid, a Leaf whose angles are formed like
 the Greek Delta.
 174 Rhombeum, rombus-shaped, an irregular four-sided Figure
 resembling the Ace of Diamonds.

SINUSES.

- 175 Trapeziforme, trapeziform, a Figure of four unequal Sides.
 176 Cordatum, cordate, heart-shaped.
 177 Reniforme, reniform, kidney-shaped.
 178 Lunatum, lunate, shaped like a half Moon.
 179 Sagittatum, sagittate, arrow-shaped.
 180 Hastatum, hastate, spear-shaped.
 181 Runcinatum, runcinate, like the Teeth of a great Saw
 whose Serratures are bent downwards.
 182 Panduriforme, panduriform, fiddle-shaped.
 183 Fissum, slit, divided into linear Partitions.
 184 Lobatum, lobate, divided into Lobes.
 185 Bilobum, Trilobum, &c. two and three-lobed, &c. accord-
 ing to the Number of Lobes.
 186 Partitum, partite, divided almost to the Base; the Number
 of Divisions are expressed by the Terms *Bipartite*, *Tri-*
partite, &c.
 187 Palmatum, palmate, divided like a Hand.
 188 Lyratum, lyrate, lyre-shaped, with transverse Divisions
 broadest at the Apex, the lower ones gradually less and
 more distant.
 189 Pinnatifidum, pinnatifid, deeply divided into transverse,
 lateral, oblong Segments.

- 190 Sinuatum, sinuate, divided into lateral Hollows.
 191 Laciniatum, laciniate, divided into Segments.
 192 Squarrosus, squarrose, divided into elevated Segments,
 not plane or parallel, as in the Calyx of some syngene-
 fious Plants.

MARGIN.

- 193 Integerrimum, very entire, without any Incision.
 194 Crenatum, crenate, where the Margin is notched at Right
 Angles to the Centre without inclining to either Ex-
 tremity.
 195 Serratum, ferrate, sawed, Notches like the Teeth of a
 Saw, inclining all the same Way, either towards the
 Point, or Base.
 196 Ciliatum, ciliate, where Bristles are arranged in a parallel
 Order on the Margin of the Leaf, like Eye-lashes.
 197 Dentatum, dentate, toothed, Points Like Teeth protrud-
 ing from the Margin of the Leaf, at some Distance
 from each other.
 198 Spinosum, spinose, where the Margin is armed with sharp
 Spines.
 199 Cartilagineum, cartilagineous, where the Margin is hard
 and tough.
 200 Repandum, repand, where the Margin is waved.
 201 Lacerum, lacerate, where the Margin is variously divided,
 as if torn.
 202 Erosus, erose, where the Margin is sinuate, is if gnawed
 with Teeth.
 203 Membranaceum, membranaceous, where the Margin is
 thin and pellucid.
 204 Dædaleum, dedalous, where the Margin has many various
 Windings and Turnings.

APEX.

- 205 Obtusum, obtuse, where the Point is rounded.
 206 Emarginatum, emarginate, where the Apex is notched.
 207 Retusum, retuse, terminating in an obtuse Hollow.
 208 Præmorsus, premorse, where the Termination appears as
 if bitten off.
 209 Truncatum, truncate, terminating in a Line as if cut off.
 210 Acutum, acute, terminating in a sharp Angle.
 211 Acuminatum, acuminate, terminating in a sharp Point.
 212 Cuspidatum, cuspidate, terminating in a Point like a Spear.
 213 Mucronatum, mucronate, terminating in a small Prickle.
 214 Cirrhosum, cirrhose, terminating in a Clasper or Tendril,

SURFACE.

- 215 Nudum, naked, without Hairs or Excrescences.
 216 Glabrum, smooth, slippery.
 217 Nitidum, glossy, smooth, and shining.
 218 Lucidum, lucid, bright, reflecting Light.
 219 Coloratum, coloured, of a Colour different from Green.
 220 Nervosum, nervous, with Nerves extended from the Base to the Apex.
 221 Trinerve, where three Nerves join at the Base and Apex.
 222 Triplinerve, where three Nerves are each divided into three more above the Base.
 223 Trinervatum, where three Nerves run into each other at the Base.
 224 Enerve, without Nerves, opposite to nervous.
 225 Lineatum, lined, with depressed Nerves or hollow Lines.
 226 Sulcatum, furrowed, with deep Lines.
 227 Venosum, veined, with Veins many Ways.
 228 Rugosum, rugose, wrinkled, shrivelled, rough.
 229 Bullatum, studded, bladdery, alternately convex and concave.
 230 Lacunosum, where the Disk of the Leaf is depressed into deep Cavities between the Veins that run parallel from the Disk to the Margin.
 231 Avene, without Veins.
 232 Punctatum, punctate, with hollow scattered Punctures.
 233 Papillosum, papillose, covered with fleshy Punctures.
 234 Papulosum, papulose, covered with vascular Punctures.
 235 Viscidum, viscid, covered with a viscid Humour.
 236 Villosum, villous, covered with soft Hairs.
 237 Tomentosum, downy covered with downy Hairs.
 238 Sericeum, silky, covered with soft silky Hairs.
 239 Lanatum, woolly, covered with woolly Hairs.
 240 Barbatum, bearded, Hairs growing in Tufts.
 241 Pilosum, pilous, covered with long Hairs that appear distinctly.
 242 Scabrum, rough, covered with rigid Punctures raised above the Surface.
 243 Hispidum, hispid, covered with hard Bristles.
 244 Aculeatum, prickly, covered with sharp Prickles (378)
 245 Strigosum, strigous, armed with lance-shaped Prickles (167)

EXPANSION.

- 246 Planum, plane, with a flat equal Surface.
 247 Canaliculatum, channelled, a deep Channel or Furrow, running lengthways.
 248 Concavum, concave, when the Disk is arched from the Margin, and forms a Hollow.

- 249 Convexum, convex, opposite to concave: these two Terms arise from the same Cause, the Margin being too tight for the Expansion of the Disk; therefore if a Leaf is concave on one Side, it is convex on the other.
- 250 Cucullatum, hollowed, when the Sides of a Leaf press together at the Base, and expand towards the Apex.
- 251 Plicatum, plaited, folded in sharp Flexures from the Disk to the Margin.
- 252 Undatum, waved, the Flexures or Folds being obtuse from the Disk to the Margin.
- 253 Crispum, curled, where the Margin is plaited, but the Folds do not reach to the middle Rib of the Disk.

SUBSTANCE.

- 254 Membranaceum, skinny, pellucid, without any fleshy Substance.
- 255 Scariosum, of a dry parched Substance, that sounds when touched.
- 256 Gibbum, gouty, when both Sides of a Leaf is bunched out by a copious Quantity of Pulp.
- 257 Teres, cylindrical, or pillar-shaped.
- 258 Depressum, more pulpy in the Disk, and flatted towards the Sides.
- 259 Compressum, more flatted in the Disk, and pulpy towards the Sides.
- 260 Carinatum, carinate, the lower Part of the Disk prominent lengthwise.
- 261 Compactum, compact, of a solid Substance.
- 262 Tubulosum, tubulous, the Inside hollow without Pith.
- 263 Pulposum, pulpy, of a fleshy pulpy Substance.
- 264 Carnosum, fleshy, the Inside of a solid Pulp.
- 265 Triquetrum, triquetrous, three-cornered lengthwise.
- 266 Anceps, two-angled or edged lengthwise.
- 267 Lingulatum, Tongue-shaped, linear, fleshy, the lower Side convex.
- 268 Ensiforme, sword-shaped, doubled-edged, gradually lessening from the Base to the Point.
- 269 Subulatum, subulate, linear at the Base, and smaller towards the Point.
- 270 Acinaciforme, scymitar-shaped, fleshy, and compressed, one Side convex sharp, the other straight and thicker.
- 271 Dolabriforme, hatchet-shaped, compressed and half round, gibbous outward, the Edge sharp, the lower part rounded.

DURATION.

- 272 Deciduum, deciduous, finished, and falling off in one Summer.
- 273 Caducum, cadent, falling off, short Duration, not abiding through the Summer.

274 *Perfistens*, persisting, abiding, lasting or remaining more than one Summer.

275 *Perenne*, perennial, continuing green many Years.

276 *Sempervirens*, evergreen, green at all Times of the Year.

COMPOSITION.

277 *Articulatum*, articulate, a Leaf having a little Leaf growing out of its Point.

278 *Conjugatum*, conjugate, winged, the little Leaves or Wings coming by Pairs.

279 *Digitatum*, digitate, a single Foot-stalk connecting the little Leaves at its Top.

280 *Binatum*, *Ternatum*, *Quinatum*, &c. terminating by two, three, or five little Leaves or Folioles.

281 *Pedatum*, *Pedate*, like the Toes of the Feet, the Foot-stalk dividing Sideways obliquely, and connecting many Folioles.

282 *Pinnatum*, pinnate, winged, a simple Foot-stalk connecting many little Leaves sidewise.

283 *Bijugum* (thus *Trijuga*, *Quadrijuga*, *Quinquejuga*, *Sejuga*, &c.) winged, but the little Leaves coming by Pairs, and are four, six, eight, ten, twelve, &c.

Cum impari, winged, not terminating in Pairs, but with an odd Foliole.

Abrupte pinnatum, abruptly winged, terminating without a tendril, or an odd Foliole.

Cirrosum, *Cirrhous*, terminating in a Tendril or Clasper, (292)

Foliolis oppositis, (126) the little Leaves growing opposite.

Foliolis alternis, (115) the little Leaves growing alternate.

—— *ruptis*, the little Leaves alternately smaller, broken.

—— *Decursivis*, the Foot-stalks of the little Leaves running down the middle Rib, or *Rachi* (153)

DECOMPOSITION.

284 *Bigeminum*, the Foot-stalk forked by twos (86), connecting many little Leaves.

285 *Biternatum*, doubled by threes (280)

286 *Bipinnatum*, double winged (282)

TRIPLE COMPOSITION.

287 *Tergeminum*, tripple-budded.

288 *Triternatum*, Three times three.

289 *Tripinnatum*, three Ways winged.

FULCRA, PROPS.

Supports for the better sustaining the different Parts of Plants.

290 *Petiolus*, a Foot-stalk that sustains the Leaf.

291 *Stipula*, a Scale at the Base of the Footstalk which it supports.

- 292 Cirrhus, Claspers, or Tendrils, growing like Threads, in a spiral Form, which takes hold of Plants, or any other Body near it.
- 293 Pubes, a downy Hair in all Plants.
- 294 Arma, armed with Points, to keep off Animals from hurting them.
- 295 Bractea, floral Leaves, the Face and Texture different from other Leaves.
- 296 Pedunculus, the Foot-stalk or Prop that sustains the Fructification.

PETIOLUS, FOOT-STALK of the LEAF.

FIGURE.

- 297 Linearis, (169) linear, every where the same breadth.
- 298 Alatus, winged, spread out at the Sides.
- 299 Clavatus, clubbed, thickened towards the Point.
- 300 Membranaceous, flat, thin, and generally pellucid.
- 301 Teres, (257) rounded like a Cylinder, pillar-shaped.
- 302 Semiteres (48) half-rounded, like a split Column.
- 303 Triqueter (52) three-sided.

MAGNITUDE.

- 304 Brevissimus, very short, when the Length of the Footstalk is not equal to the Length of the Leaf.
- 305 Brevis, short, not quite so long as the Leaf.
- 306 Mediocris, of the Length of the Leaf.
- 307 Longus, longer than the Leaf.
- 308 Longissimus, something longer than the Leaf.

INSERTION.

- 309 Infertus, inserted, joined.
- 310 Adnatus, (151) adhering to.
- 311 Decurrens, (153) running down the Branch.
- 312 Amplexicaulis, (154) embracing the Stalk with its Base.
- 313 Appendiculatus, a leafy Appendage adhering to the Base of a Leaf.

DIRECTION.

- 314 Erectus (130) upright.
- 315 Patens (134) spreading.
- 316 Assurgens (136) bending upwards in a Kind of Arch.
- 317 Recurvatus (139) bent backwards.

SURFACE.

- 318 Glaber (216) smooth.
- 319 Aculeatus (244) prickly.
- 320 Nudus (215) naked.
- 321 Articulatus (84) jointed.
- 322 Spinescens, hard, and sharp.

STIPULÆ, APPENDAGES to the LEAF.

- 323 Geminæ, two and two, by Pairs,

- 324 Solitariae, single scattered.
 325 Laterales, inserted in the Sides.
 326 Extrafoliaceae, on the Outside, below the Base of the Petiole.
 327 Intrafoliaceae, on the Inside, above the Base of the Petiole.
 328 Oppositifoliae, opposite, placed on the Sides at the Base of the Leaf.
 329 Caducae, (273) falling off, withering before the Leaf.
 330 Deciduae, (272) falling annually.
 331 Persistentes, abiding after the Leaf falls off.
 332 Spinescentes, (322) hard and sharp, like a Spine or Prickle.
 333 Sessiles, (150) squat, having no Foot-stalk.
 334 Adnatæ, (151) adhering to the Branch by an attachment of its upper Surface.
 335 Decurrentes, (153) running down the Branch.
 336 Vaginantes, (157) surrounding the Stem like a Sheath.
 337 Subulatae, (269) awl-shaped.
 338 Lanceolatae, (167) lance-shaped.
 339 Sagittatae, (179) arrow-shaped.
 340 Lunatae, (178) moon-shaped.
 341 Erectae, (130) upright.
 342 Patentæ, (134) spreading.
 343 Interrigimæ, (193) entire.
 344 Serratae, (195) sawed.
 345 Ciliatae, (196) lashed like the Eye.
 346 Dentatae, (197) toothed.
 347 Fissae, (183) split.
- C I R R H U S, a TENDRIL OF CLASPER.
- 348 Axillaris, (113) at the Insertion of the Branch.
 349 Foliaris, sitting on a Leaf.
 350 Petiolaris, growing on the Footstalk of the Leaf, (290)
 351 Peduncularis, (296) growing on the Footstalk of the Flower.
 352 Simplex, undivided.
 353 Trifidus, divided in three Parts.
 354 Multifidus, divided in many Parts.
 355 Convolutus, twisting in the same Direction as the Sun, in Rings.
 356 Revolutus, revolute, rolled back in half spiral Rings.
- P U B E S, DOWN OR PUBESCENCE.
- 357 Pili, excretory Ducts, long distinct Hairs.
 358 Lana, Wool, curled Hairs and thick.
 359 Barba, bearded Tufts of parallel Hairs.
 360 Tomentum, Down, Hairs scarcely conspicuous.
 361 Strigae, strong hard flat Hairs.
 362 Setae, Bristles, rigid round Hairs.
 363 Simplicæ, single, not divided.
 364 Hamosae, hooked, by which they easily adhere to Animals.

392 AN EXPLANATION OF

- 365 Ramosæ, f. *Furcatæ*, subdivided into little Branches or forked.
 366 Plumosæ, feathery, composed of fine Down, or Hairs.
 367 Stellatæ, starry, disposed cross-wise.
 368 Hami, Hooks, Prickles with recurved Points.
 369 Glochides, Prickles with the Points turned back, having many Teeth.
 370 Glandula, Glands, little Teats for throwing out the excrementitious Humour of Plants; these are either *Sessiles*, squat; *Stipitata*, having a Foot-stalk; or, *Porus*, having a Pore, often perforating a Leaf.
 371 Utriculus, little Vessels replete with secretory Liquor.
 372 Foliacei, inserted in the Leaves.
 373 Petiolares, (350) inserted in the Foot-stalk of the Leaf.
 374 Pedunculares, (351) inserted in the Foot-stalk of the Flower.
 375 Stipulares, (291) inserted in the Stipula.
 376 Viscositas, a Humour of a clammy Quality.
 377 Glutinofitas, a Humour whose Quality is of a lubricating slippery Nature.

A R M A, A R M S.

- 378 Aculei, sharp Prickles fixed in the Bark of Plants.
 379 Recti, straight, without bending.
 380 Incurvi, bent inwards.
 381 Recurvi, bent outwards.
 382 Furcæ, Prickles divided into many Forks.
 383 Bifidæ, & Trifidæ, by two, and three, or according to the Number of Divisions.
 384 Spina, a Spine, a Prickle fixed in the Wood of the Trunk, or Branch.
 385 Terminalis, terminating the Branch.
 386 Axillaris, (113) growing from the Infertion of the Branch.
 387 Calycina, growing on the Cup.
 388 Foliaris, (349) growing on the Leaf.
 389 Simplex, (363) single.
 390 Divisa, divided at the Point.
 391 Stimuli, Stings, that make inflammatory Punctures, which go off with an Itching.

B R A C T Æ, F L O R A L L E A V E S.

- 392 Coloratæ, (219) coloured.
 393 Caducæ, (273) falling off with the Flower.
 394 Decidua, (272) falling off.
 395 Persistentes, (274) abiding.
 396 Coma, a Bractæ, terminating the Stalk above the Flower, distinguished by its Magnitude or Colour,

PEDUN

PEDUNCULUS, FOOT-STALK of a FLOWER.

397 *Partialis*, in some Flowers growing from the common Foot stalk.

398 *Communis*, a Foot-stalk common to many Flowers.

399 *Pedicellus*, a little Foot-stalk proper to Flowers that have a common Foot-stalk, (398)

400 *Scapus*, a Peduncle rising from the Root resembling a Stalk.

PLACE.

401 *Radicalis*, (110) springing from the Root.

402 *Caulinus*, (111) springing from the Stem.

403 *Rameus*, (112) growing from the Branch.

404 *Petiolaris*, (350) growing from the Petiole.

405 *Cirrhiferus*, (292) growing from the Tendril or Clasper.

406 *Terminalis*, (385) terminating the Branch.

407 *Axillaris*, (113) at the Infertion of the Branch or Leaf.

408 *Oppositifolius*, (328) having opposite Leaves.

409 *Lateriflorus*, (325) flowering at the Sides.

410 *Intrafoliaceus*, (327) within the Leaves.

411 *Extrafoliaceus*, (326) on the Outside of the Leaves.

SITUATION.

412 *Alterni*, (115) alternate.

413 *Sparsi*, (118) scattered.

414 *Oppositi*, (126) opposite.

415 *Verticillati*, (128) in Circles round the Stem.

NUMBER.

416 *Solitarius*, (324) single.

417 *Geminatus*, (323) by twos.

418 *Umbellula fessilis*, many Peduncles from the same Centre, produced of the same Height.

DIRECTION.

419 *Adpressus*, (133) pressed towards the Stem.

420 *Erectus*, (130) upright.

421 *Patens* (134) spreading.

422 *Cernuus*, the Point looking downwards.

423 *Refupinatus*, (144) looking upwards.

424 *Declinatus*, (34) bent downwards archwise.

425 *Nutans*, (36) nodding, hanging downward.

426 *Flaccidus*, slender, weak, when the Weight of a proper Flower makes it hang downwards.

427 *Ascendens*, (33) rising upwards archwise.

428 *Pendulus*, hanging loose.

429 *Strictus*, (29) straight.

430 *Flexuosus*, bending from one Flower to another.

431 *Retrofractus*, bent backward and forward, as if broken.

432 *Uniflorus*, *Biflorus*, *Triflorus*, &c. *Multiflorus*, one Flower, two Flowers, three Flowers, &c. many Flowers according to the Number of Flowers growing on the Foot-stalk.

STRUCTURE.

STRUCTURE.

- 433 Teres (47) round, like a Cylinder.
 434 Triqueter, (52) three-sided.
 435 Tetragonus, (53) four-angled.
 436 Filiformis, thread-shaped, every where of equal Thickness.
 437 Attenuatus, lessening gradually in Thickness towards the Point.
 438 Clavatus, clubbed, thick towards the Point, (299)
 439 Incrassatus, gradually thickening upwards.
 440 Nudus, (215) naked.
 441 Squamosus, (58) scaly.
 442 Foliatus, (56) leafy.
 443 Bracteatus, (295) furnished with floral Leaves.
 444 Genuculatus (43) jointed.
 445 Articulatus, (84) knotted.

INFLORESCENTIA, INFLORESCENCE.

Is the Manner by which Flowers are joined to the Plant by the Peduncle or Foot-stalk.

- 446 Verticillus, whorled, many Flowers growing round the Stalk in a Circle.
 447 Sessiles, squat, without any manifest Foot-stalk.
 448 Pedunculatus, a Peduncle elevating the Flowers.
 449 Nudus, (450) (451) opposite to the following.
 450 Involucratu, (520) furnished with an Involucrum.
 451 Bracteatus, (443) having floral Leaves.
 452 Confertus, Foot-stalks crowded together.
 453 Distans, the Foot-stalks distant.
 454 Capitulum, a Head, Flowers collected into a Globe or Head.
 455 Subrotundum, (456) nearly of a globular Figure, almost round.
 456 Globosum, globular, perfectly round.
 457 Dimidiatum, halved, like a Globe cut into two Parts.
 458 Foliosum, leafy, Leaves intermixed with the Flowers.
 459 Nudum, naked, without Leaves or Bristles.
 460 Fasciculus, bunched, a Flower growing in Bunches.
 461 Spica, sessile Flowers growing alternate on a common Peduncle.
 462 Simplex, a single Spike, undivided.
 463 Composita, many little Spikes growing from the common Peduncle.
 464 Glomerata, many little Spikes crowded together.
 465 Ovata, (160) Egg-shaped.
 466 Ventricosa, (256) swollen, gouty.
 467 Cylindrica, pillar-shaped.
 468 Interrupta, Spikes alternately smaller.
 469 Imbricata, (120) scaled.

- 470 Articulata, (84) knotted, jointed.
 471 Ramosa, branching variously.
 472 Linearis, (169) linear of equal Width, lengthwise.
 473 Ciliata, (196) lashed.
 474 Foliacea, leafy.
 475 Comosa, terminating in little Leaves.
 476 Corymbus, (461) a Kind of Spike, whose Flowers are furnished with Foot-stalks, so proportioned to their Situation, as to elevate all the Flowers of the Spike to the same Height.
 477 Thyrsus, (489) a Kind of crowded Panicle of an ovate Form.
 478 Racemus, a Bunch of Flowers, the Peduncles coming at the Sides.
 479 Simplex, undivided.
 480 Compositus, divided into many.
 481 Unilateralis, all the Flowers growing on one Side.
 482 Secundus, the Flowers all bending to one Side.
 483 Pedatus, (281) the Foot-stalk coming on one Side like the Toes of the Feet.
 484 Conjugatus, (278) joined by twos.
 485 Erectus, (130) upright.
 486 Laxus, (31) loose, not closely connected.
 487 Nudus, (459) naked.
 488 Foliatus, (56) leafy.
 489 Panicula, Flowers scattered on Peduncles that are divided in different Forms.
 490 Simplex, always few Flowers.
 491 Composita, many Florets coming together.

FRUCTIFICATIO, FRUCTIFICATION.

Temporary Parts of Vegetables called the Generation.

- 492 Calyx, a Flower Cup, is the Termination of the outer Bark of the Plant, present in the Fructification.
 493 Perianthium, a Flower Cup, whose Station is close to the Fructification.
 494 Fructificationis, when it includes the Stamina and Germen.
 495 Floris, containing the Stamina without the Germen.
 496 Fructus, containing the Germen without the Stamina.
 497 Proprium, without Respect to the Flower.
 498 Monophyllum, consisting of one Leaf.
 499 Polyphyllum, consisting of many Leaves.
 500 2—5 Fidum, (183) divided into two, three, four, or five Divisions.
 501 2—5 Partitium, (186) divided almost to the Base from two to five.
 502 Integrum, entire, (171) undivided.
 503 Tubulosom, (262) tube shaped.

- 504 Patens, (134) spreading.
 505 Reflexum, the Parts bent backwards.
 506 Inflatum, puffed out like a Bladder.
 507 Abbreviatum, shorter than the Tube of the Corolla.
 508 Obtusum, (205) the Divisions rounded.
 509 Acutum, (210) the Divisions sharp.
 510 Spinofum, (75) bearing Spines.
 511 Aculeatum, (244) bearing Prickles.
 512 Superum, when the Germen is below the Receptacle.
 513 Inferum, when the Germen is above the Receptacle.
 514 Commune, a common Calyx, containing many Florets
 as in compound Flowers.
 515 Imbricatum, scaled, various Scales lying over one another,
 516 Squarrosom, with Scales pointing many Ways.
 517 Scariosum, having Scales; their Margins are membra-
 naceous, hard, dry, and sounding when touched.
 518 Turbinatum, top-shaped, like an obverse Cone.
 519 Calyculatum, when a lesser Calyx is added, and encircles
 the Base of the larger one.
 520 Involucrum, a Kind of Calyx standing remote from the
 Flower.
 521 Universale, in umbelliferous Plants, standing under the
 universal Umbel.
 522 Partiale, an Involucrum, standing under the partial Umbel.
 523 Proprium, always under the Flower.
 524 Gluma, a Husk, a Cup belonging to Grasses, whose Flowers
 it embraces with the Valves folded over.
 525 Uniflora, when it embraces one Flower.
 526 Multiflora, when it includes many Flowers.
 527 Univalvis, when there is constantly but one Scale.
 528 Bivalvis, when there are two Valves.
 529 Multivalvis, when there are many Scales or more than two,
 530 Colorata, (219) coloured.
 531 Glabra, (216) smooth.
 532 Hispida, (243) covered with hard Hairs.
 533 Mutica, without Point, or Arista.
 534 Arista, an Awl shaped Beard growing on the Husk.
 535 Terminalis terminating and fixed to the Top of the Husk.
 536 Dorsalis, fixed on the Outside of the Husk.
 537 Recta, growing perpendicular,
 538 Tortilis, twisted.
 539 Genuculata, (43) jointed.
 540 Recurvata, (139) recurved.
 541 Amentum, ex Receptaculo, (635) a Catkin proceeding
 from a common Receptacle, resembling the Chaff of
 Corn.

- 542 Spatha, a Sheath, a Kind of Cup burffing out lenghtwife.
 543 Univalvis, of one Valve, opening on one Side.
 544 Dimidiata, halved, the inner one covering the Fruct a-
 tion on one Side, and the outer one on the other.
 545 Calyptra, a Veil, or Hood, covering the Antheræ, in
 Mosses.
 546 Recta, straight, every where equal.
 547 Obliqua, oblique, bent on one Side.
 548 Volva, a membranaceous Calyx belonging to the Fungi.
 549 Approximata, close to the Head.
 550 Remota, at some Distance from the Head.
 551 Corolla, the Termination of the inner Bark, present in
 the Flower.
 552 Petalum, a Petal, a Part of the Corollæ when divided
 into many.
 553 Tubus, a Tube, the lower Part of a Flower with one
 Petal.
 554 Unguis, a Claw, the lower Part of a polypetalous Flower
 by which it is fixed to the Receptacle.
 555 Limbus, the upper Part of a monopetalous Flower ex-
 panded.
 556 Lamina, the upper spreading Part of a polypetalous
 Flower.
 Monopetala, vel Polypetala, &c. from one to many Petals,
 or according to the Number.
 557 Regularis, of an equal Figure, the Size of all the Parts
 proportioned to one another.
 558 Irregularis, when the Limb and other Parts are dispro-
 portionate.
 559 Inæqualis, when the different Sizes of the Parts do not
 correspond but in Proportion to one another.
 560 Globosa, globe-shaped.
 561 Campanulata, bell-shaped.
 562 Infundibuliformis, funnel-shaped.
 563 Rotata, wheel-shaped.
 564 Hypocrateriformis, falver-shaped.
 565 Ringens, gaping, irregular, with two Lips.
 Galea, the upper Lip gaping.
 Labium, instead of gaping, the lower Lip stands forwards.
 566 Faux, the Jaws gaping between the Divisions of the Co-
 rollæ, where the Tube terminates.
 567 Personata, (565) gaping, but shut between the Lips with
 a Palate.
 568 Cruciata, having four equal spreading Petals.
 569 Concava, (248) hollow.
 570 Patens, (134) spreading.

- 571 Papilionacea, butterfly-shaped, irregular. *Carina*, the Keel, the lower Petal often in Form of a Boat. *Vexillum*, the Standard, or upper Petal ascending. *Alæ*, the Wings, standing single on each Side.
- 572 Composita, compound Flowers, having many Florets in a common Perianthium, above the common Receptacle.
- 573 Ligulata, tongue-shaped, Florets whose Limb is plane, and expanded outward.
- 574 Tubulosa, Florets that are all tubular and equal.
- 575 Radiata, when the Florets are tubular in the Disk, and radiate and ligulate in the Margin.
- 576 Nectarium, Honey-pores, that part of the Flower bearing Honey.
- 577 Proprium, properly so called, as a distinct Part from the Petal.
- 578 Petalinum, when inserted into the Petal.
- 579 Stamen, the male Organ of Generation furnished with a Viscus, designed for the Preparation of the Pollen.
- 580 Filamentum, Threads, the Part that elevates, and is connected to the Antheræ.
- 581 *Æqualia*, equal, when they are all of an equal Length.
- 582 *Inæqualia*, unequal, when some are long, and others short.
- 583 *Connata*, when joined in one Body, but their Number, Figure, and Infertion expressed.
- 584 *Anthera*, that Part of the Flower big with the Pollen, which it emits when come to maturity.
- 585 *Distinctæ*, not cohering.
- 586 *Connatæ*, joined by the Sides into one Body.
- 587 *Pollen*, Powder, of the Antheræ, destined for the Impregnation of the Germen, and bursting in a viscous Humour, into fine Atoms, is by a prolific Blast scattered on the Stigma.
- 588 *Pistillum*, a viscous Humour adhering to the Fruit for the Reception of the Pollen, and is the female Organ of Generation.
- 589 *Germen*, the immature Rudiment of the Fruit within the Flower.
- 590 *Superum*, when included in the Corollæ.
- 591 *Inferum*, when below the Corollæ.
- 592 *Stylus*, that Part of the Pistillum which elevates the Stigma from the Germen.
- 593 *Stygma*, the female Uterus, at the Top of the Pistil, furnished with a moist Humour.
- 594 *Pericarpium*, the Womb of the plant big with the Seeds, which it emits when mature.

- 595 *Capfula*, a hollow *Pericarpium*, which cleaves or opens in some determinate Manner.
- 596 *Valvula*, an Opening, a Part of a *Capfule* or outer Cover to the Fruit.
- 597 *Loculamentum*, a Kind of arched Cell for the Lodgement of the Seeds.
- 598 *Diffepimentum*, Partitions of the Fruit, which divide the *Pericarpium* into Cells.
- 599 *Bicapsularis*, two *Capfules*, *Tricapsularis*, &c. three *Capfules*, or according to the Number.
- 600 *Bilocularis*, &c. two Cells, &c. according to the Number.
- 601 *Tricocca*, a *Capfule* with three protuberant Knobs, which divide into three Cells.
- 602 *Didyma*, a *Capfule* with two gibbous Knobs, which divide into two Cells.
- 603 *Siliqua*, a *Pericarpium* of two Valves, in which the Seeds are fixed alternately to the opposite Sutures.
- 604 *Compreffa*, flatted, the oppofite Sides coming nearly together.
- 605 *Torulofa*, brawny Protuberances, when the *Pericarpium* is bunched out by the Seeds.
- 606 *Articulata*, interrupted by arched joints.
- 607 *Parallelum Diffepimentum*, the Width, or Diameter of the Diffepiment to which the Valves adhere.
- 608 *Transverfum Diffepimentum*, Diffepiments running cross-wife.
- 609 *Legumen*, a *Pericarpium* of two Valves, the Seeds fixed to one Suture only.
- 610 *Isthmus Interceptum*, Pods with various Cross-divifions, forming diftinct Cells.
- 611 *Folliculus*, a *Pericarpium* of one Valve, gaping length-wife on one Side, without the Seeds being fixed to the Suture.
- 612 *Drupa*, a pulpy *Pericarpium*, without Valves, containing a Stone or Nut (633).
- 613 *Succulenta*, containing a pulpy Humour.
- 614 *Sicca*, oppofite the foregoing, dry.
- 615 *Pomum*, an Apple, a flefhy *Pericarpium* without Valves, containing a *Capfule*.
- 616 *Bacca*, a Berry, a pulpy *Pericarpium* without Valves, containing naked Seeds.
- 617 *Nidulantia*, Seeds neftling in the Pulp of a Berry.
- 618 *Strobilus*, a *Pericarpium* formed from an *Amentum*, with hard Scales lying over each other, as in the Pine Tree.

- 619 Semen, Seed, the Rudiment of a new Plant; are known according to the Number, Figure, Superficies, and Consistence.
- 620 Hilum, the Eye, an external Scar of the Seed, where it has been fixed to the Fruit or Receptacle.
- 621 Corculum, the Essence of a new Plant within the Seed.
- 622 Plumula, Part of the Corculum, the ascending scaly Part of the Plant.
- 623 Rostellum, the descending Part of the Corculum that forms the Root.
- 624 Cotyledon, the side Lobes of the Seed of a porous Substance, and perishing.
- 625 Corona a Crown, a little Cup adhering to the Top of the Seed, by which it flies.
- 626 Pappus, a downy feathered Cup, adhering to the Top of the Seed, by which it flies.
- 627 Stipitatus, a Kind of thread-like Trunk, elevating the Down, and connecting it with the Seeds.
- 628 Capillaris, Hairs undivided.
- 629 Plumosus, having feathery Hairs.
- 630 Cauda, a Thread terminating the Seed.
- 631 Hamus, a hooked Seed adhering to Animals.
- 632 Ala, a membranaceous Wing, fixed to the Seed.
- 633 Nux, a Nut, a Seed covered with a bony epidermis, having one, two, or more Cells.
- 634 Arillus, the proper exterior Coat of a Seed that falls off spontaneously, and is either cartilaginous, or succulent.
- 635 Receptaculum, the Base, by which the Parts of Fructification are connected.
- 636 Commune, containing many Flowers and Fruit.
- 637 Punctatum, a Receptacle marked with hollow Punctures.
- 638 Pilosum (241) hairy.
- 639 Paleaceum, chaffy Scales which distinguish the Florets.
- 640 Planum (246) plain, a flat Surface.
- 641 Convexum (249) the Disk elevated.
- 642 Conicum, cone-shaped, rounded and lessening towards the Point.
- 643 Subulatum (269) awl-shaped.
- 644 Compositus-flos, a compound Flower, with the Receptacle spread out and entire, the Florets sessile.
- 645 Aggregatus-flos, an aggregate Flower, the Receptacle enlarged, and the Florets on little Peduncles.
- 646 Umbella, an Umbel, a Receptacle which from a common Centre, runs out into thread-shaped Footstalks of proportionate Lengths.

- 647 Simplex, when the Foot-stalks proceed from one and the same Centre of the Receptacle.
- 648 Composita, when every Foot-stalk of the general Umbel produces a partial Umbel.
- 649 Universalis, composed of many simple Umbels.
- 650 Partialis, a little Umbel, a Part supported by the universal Umbel.
- 651 Prolifera, an Umbel more than decomposed.
- 652 Cyma, a Receptacle producing many Foot-stalks from the same Centre, that are of unequal Lengths, the partial ones irregular on long fastigate Peduncles.
- 653 Rachis, a thread-shaped Receptacle, the Flowers adhering to it lengthwise, and forming a Spike.
- 654 Spadix, a Receptacle of a Palm, produced within a Spatha or Sheath, divided into Branches that bear the Fruit.
- 655 Bulbus, is an Hybernacle placed on the descending Caudex, and contains the Rudiment of the Plant and Leaf that perishes.
- 656 Solidus, a solid fleshy Bulb, without any internal Divisions.
- 657 Tunicatus, Bulbs having Coats lying over each other like the Onion.
- 658 Squamatus, Bulbs consisting of imbricated Scales, as in the Lily.
- 659 Caulinus, Bulbs growing on the Stalk of the Plant.
- 660 Gemma, a Bud, is an Hybernacle of the Future Plant with its Leaves.
- 661 Petiolaris, inclosing the Rudiment of the Leaves.
- 662 Stipularis, inclosing the Stipula.
- 663 Corticalis, consisting of cortical Squamæ.
- 664 Foliaris, containing the Leaf and not the Flowers.
- 665 Floralis, containing the Flowers and not the Leaf.
- 666 Communis, containing both the Leaf and the Flowers.
- 667 Vernatio, the Position of the Leaf within the Bud.
- 668 Conduplicata, when the parallel Sides of a Leaf approach.
- 669 Convoluta, rolled together in a spiral Form.
- 670 Involuta, rolled inwards spirally from the lateral Margins.
- 671 Revoluta, rolled spirally backwards from the lateral Margins.
- 672 Obvoluta, rolled together, one Margin embracing the other alternately.
- 673 Equitantia, when the Sides of the Leaves lie parallel, the outward one embracing the inner one.
- 674 Imbricata, a parallel straight Surface, lying over each other.

- 675 Plicata, plaited, when their Complication is in Plaits lengthwise.
- 676 Reclinata, reclined, reflexed downward towards the Petiole.
- 677 Spiralia, spiral, twisted in transverse Plaits, so that the Apex becomes the Centre.
- 678 Æstivatio, the Complication of the Corollæ, before the unfolding of the Flower.
- 679 Convoluta, rolled together, (669)
- 680 Imbricata, (674) imbricate.
- 681 Conduplicata, (668) when the parallel Sides of the Leaf approach.
- 682 Valvata, having Valves.
- 683 Inæqualvis, with unequal Valves.
- 684 Somnus, Sleep, the Change that Leaves of Plants undergo in the Night.
- 685 Connivens, when the upper Disk of two opposite Leaves or Foliolæ are pressed together so as to appear one Leaf.
- 686 Includens, when the Leaves are alternate, and in the Night press against the Stalk, so as to include it.
- 687 Circumseprens, when Leaves growing in an horizontal Position, erect themselves in the Night, by clasping together in the Form of a Funnel
- 688 Muniens, when the Leaves have foot-stalks spreading horizontally, become dependent in form of an hollow Arch.
- 689 Conduplicans, doubling, when the Foliolæ lightly approach each other with their upper Disk, so that both are covered.
- 690 Involvens, when the Points of the upright Foliolæ are pressed together, and form a Cavity between.
- 691 Divergens, when the Base of the Foliolæ approach, and the Points are spreading.
- 692 Dependens, when the Foliolæ hang downwards.
- 693 Invertens, when the Foliolæ hang down, and are at the same Time inverted.
- 694 Imbricans, the Foliolæ imbricated, (120)
MENSURA, their MEASURE.
- 695 Linearis, linear, the twelfth Part of an Inch.
- 696 Unguicularis, the Length of a Nail.
- 697 Policaris, the Length of the outward Joint of the Thumb.
- 668 Palmaris, the Width of the Hand.

- 699 Spithamæus, a Span, the Length between the Point of the Thumb and fore Finger.
- 700 Dodrantalis, nine Inches, the Space between the Point of the Thumb, and little Finger, when extended.
- 701 Pedalis, a Foot, the Space from the bending of the Elbow to the Base of the Thumb.
- 702 Orgyialis, a Fathom, or six Feet, the Height of a Man, or the Space between the extreme Points of the Fingers, when the Arms are extended.

A

G L O S S A R Y;

EXPLAINING THE

TECHNICAL TERMS

I N

B O T A N Y:

I N A L P H A B E T I C A L O R D E R.

A

- A** Breviatum *perianthium*, shortened, when the Cup is shorter than the Tube of the Flower.
- Abortiens *flos*, barren Flowers, such as produce no Fruit.
- Abruptum *folium pinnatum*, winged Leaves ending without either Foliole or Cirrus.
- Acaulis, without Stalk or Stem.
- Acerosum *folium*, chaffy Leaves, when they are linear and abiding, as in Pinus, Abies, and Juniperus.
- Acicularis, Needle-shaped, as in Scirpus acicularis.
- Acinaciforme, Falchion or Scimitar-shaped, as in Mesembryanthemum acinaciforme.
- Acini, the small Berries which compose the Fruit of a Mulberry or Bramble.
- Acotyledones, Plants whose Seeds have no Cotyledons or seminal Leaves.
- Aculei, Prickles, fixed in the Rind or Surface of the Bark.
- Aculeatus *caulis*, a Stalk or Stem furnished with Prickles.
- Acuminatum *folium*, a Leaf ending in a Point.
- Acutum *folium*, Leaves terminating in an acute Angle.
- Adnatum *folium*, the Disk of the Leaf pressing close to the Stem of the Plant.
- Adpressa *folia*, the Disk of the Leaf pressed towards the Stem.
- Ascendens *caulis*, a Stalk or Branch inclining upwards.
- Adversum *folium*, when the Sides of the Leaf are turned towards the South.
- Aggregatus *flos*, an Assemblage of Flowers coming in Clusters.
- Aggregatæ,

- Aggregatæ, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Ala, a Wing, the Side Petals of a papilionaceous Blossom, or a Membrane added to a Seed, Stalk, &c.
- Alatus *petiolus*, when the Foot-stalk of a Leaf is winged with Membranes.
- Alburnum, the white Substance that lies between the inner Bark and the Wood of Trees.
- Algæ, Flags, one of the seven Families of Plants.
- Alterni Rami *folia*, when they come out singly, and follow in gradual Order.
- Amentaceæ, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*, bearing Catkins.
- Amentum, a Catkin.
- Amplexicaule *folium*, embracing the Stalk when the Base of the Leaf embraces the Stem sideways.
- Anceps *caulis*, double-edged, when a Stalk is compressed, and forms two opposite acute Angles.
- Androgyna, Plants bearing male and female Flowers on the same Root.
- Angulatus *caulis*, angulated Stalks.
- Angustifolia, narrow-leaved.
- Angiospermia, the second Order in the Class *Didynamia* of *Linnaeus*; containing Plants whose Seeds are covered with a Capsule.
- Annua *radix*, an annual Root; that which lives but one Year.
- Anthera, the Summit of the Stamina bearing the Pollen, and is a Part of the Principal male Organ of Generation.
- Apertura, an Aperture, opening in some Species of Anthera.
- Apetalus *flos*, having no Petals or Corolla.
- Apex, the Top, or Summit.
- Aphyllus *caulis*, destitute of Leaves.
- Apophysis, an Excrescence from the Receptacle of the Musci.
- Appendiculatus *petiolus*, a little Appendage hanging from the Extremity of the Foot-stalk.
- Aproximata *folia*, Leaves growing near each other.
- Arbor, a Tree.
- Arbustiva, a Copse of Shrubs or Trees, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Arcuatum *legumen*, arched, a Pod that is curved or bent.
- Arillus, the proper exterior Coat of a Seed that falls off spontaneously.
- Arista, the Beard of Corn or Grasses.
- Arma, Arms, Weapons, one of the seven Kinds of Fulcra of Plants.

- Articulatus caulis*, Culmus, having Knots or Joints.
Articulus culmi, the straight Part of the Stalk between the two Joints.
Asperifolia, rough-leaved Plants, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
Affurgentia folia, first bent down, but rising erect towards the Apex.
Attenuatus pedunculus, when the Foot-stalk grows smaller towards the Flower.
Auctus calyx, augmented, having a Series of distinct Leaves, shorter than its own, that surround its Base.
Avenia folia, Leaves which have no visible Veins.
Auriculatum folium, an Ear-shaped Leaf, when the Leaf towards the Base has a Lobe on each Side.
Axillaria folia, growing out of the Angles formed by the Branches and the Stem.

B

- Bacca*, a Berry; or a pulpy Pericarpium without Valves, in which the Seeds are naked.
Barba, a Beard, a Species of Pubescence, sometimes on the Leaves of Plants, as on the *Mesembryanthemum barbatum*.
Barbatum folium, when a Bunch of strong Hairs terminate the Leaves.
Bicornes, Plants whose Antheræ have the Appearance of two Horns. Likewise an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
Biennis radix, a Root which continues to vegetate two Years.
Bifaria folia, a Leaf pointing two ways.
Biferæ plantæ, flowering twice a Year.
Bifidum folium, divided or cloven into two Parts.
Biflorus pedunculus, bearing two Flowers on a Foot-stalk.
Bigeminum folium, a forked Foot-stalk, with two little Leaves on the Apex of each Division.
Bijugum folium, a winged Leaf, bearing two Pair of Foliola.
Bilabiata corolla, a Corolla with two Lips.
Bilobum folium, a Leaf consisting of two Lobes.
Binata folia, a digitate Leaf, consisting of two Foliola.
Bipartitum folium, a Leaf divided into two Segments.
Bipinnatum folium, doubly winged, when the Foliolæ of a pinnate Leaf are pinnate.
Biternatum folium, when there are three Foliolæ on a Petiole, and each Foliolæ is ternate; as in *Epimedium*.
Bivalve pericarpium, consisting of two Valves, as in the *iliqua* and *Legumen*.

Brachiatus

- Brachiatus *caulis*, branching in Pairs; each Pair standing at right Angles with those above and below.
- Brachium, the Arm, tenth Degree in the *Linnaean* Scale for measuring Plants, being twenty-four Parisian Inches.
- Bractea, a floral Leaf, these are generally of a different Shape, and Colour from the other Leaves of the Plant, and are always seated near the Fructification.
- Bracteatus, having a Bractea growing out of it.
- Bulbiferus *caulis*, a stalk bearing Bulbs, as in a Species called *Lilium bulbiferum*.
- Bulbosa *radix*, a bulbous Root, and is either Squamosa, scaly, as in *Lilium*; tunicata, coated, as in *Cepæ*; duplicate, double, as in *Fritillaria*; or Solida, as in *Tulipa*.
- Bullatum *folium*, when the Surface of the Leaf rises above Veins, so as to appear like Blisters.

C

- Caducus *calyx*, to fall off; a Term signifying the shortest Time of Duration, falling off at the first opening of the Flower.
- Calamariæ, a Reed, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Calcarium *nectarium*, a kind of Nectarium resembling a Spur, as in the *Delphinium*.
- Caliculatus *calyx*, a little Calyx added to a larger one, as in the *Coreopsis*, *Leontice*, &c.
- Calycanthemis, a *calyx*, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Calyptra, a Veil, in Mosses, where it is placed over the Antheræ.
- Calyx, a Flower Cup of which there are the following Kinds, viz. Perianthium, Involucrum, Amentum, Spatha, Gluma, Calyptra, and Volva.
- Campanacei, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Campanulata *corolla*, Bell-shaped Flowers.
- Canaliculatum *folium*, Leaves having a deep Channel running from the Base to the Apex.
- Candelares, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Capillaceum *folium*, Capillary, exemplified in the *Ranunculus aquatilis*.
- Capillaris *pappus*, hairy Down, as in *Hieracium*, and *Sonchus*.
- Capillus, Hair, the first Degree of the *Linnaean* Scale for measuring

- furing Plants, the Diameter of a Hair, and the twelfth Part of a Line.
- Capitati *flores*, Flowers collected into Heads, as in *Mentha aquatica*, and *Thymus serpyllum*.
- Capitulum, a little Head, a species of Inflorescentia, in which the Flowers are connected into close Heads on the Tops of the Peduncles as in *Gomphrena*.
- Capreolus, a tendril, see *Cirrhus*.
- Capsula, a Capsule, a hollow Pericarpium, which cleaves or parts in some determinate Manner, and consists of *Valvula Dissepimentum*, *Columella*, and *Loculamentum*.
- Carina, the Keel of a Boat, or Ship, the lower Petal of the papilionaceous Corolla.
- Carinatum *folium*, when the Back of a Leaf resembles the Keel of a Ship.
- Cariophyllæus *flos*, Clove-tree, or Flowers growing in the Manner of Carnations.
- Carnosum *folium*, a fleshy Leaf, as in *Sedum dasycyllum*.
- Cartilagineum *folium*, a Leaf whose Brim is furnished with a Margin of different Substance from the Disk.
- Caryophylli, Carnations or Pinks, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Catenulata *scabrities*, Species of glandular Roughness, hardly visible to the naked Eye, resembling little Chains on the Surface of some Plants.
- Caudex, the Stem of a Tree.
- Caulescens, having a Stalk or Stem.
- Caulina *folia*, Leaves growing immediately on the Stem.
- Caulis, a Stem, a Species of *Truncus*.
- Cernuus, nodding, or hanging down its Head.
- Cespitosa, Plants which produce many Stems from one Root, and form a Surface of Turf or Sod.
- Ciliatum, whose Margin is guarded by parallel Bristles, formed like the Eye-lash.
- Circinalea *folia*, a Hoop or Ring, a Term of Foliation, expressive of the Leaves within the Gemma being rolled spirally downward.
- Circumscissa *capsula*, cut transversely, as in *Anagallis*.
- Cirrhiferus *pedunculis*, a Peduncle bearing a Tendril, as in *Vitis*.
- Cirrhosum *folium*, a Leaf that terminates in a Tendril, as in *Gloriosa*.
- Cirrhus, a Clasper, or Tendril, one of the Fulcra of Plants.
- Classis, a Class, is defined by *Linnaeus* to be an Agreement of several Genera in the Parts of Fructification, according to the Principles of Nature distinguished by Art.

Clavatus

- Clavatus petiolus, pedunculus*, when the Foot-stalk of the Leaf or Flower is Club-shaped, tapering from the Base to its Apex.
- Clavicula*, a little Key, a Tendril.
- Clausa corolla*, when the Neck of the Corolla is close shut in with Valves.
- Coadunatae*, to gather together, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Coarctati rami*, close together, opposed to *Divaricatus*.
- Cochleatum legumen*, a Pod like the Shell of a Snail, as in *Medicago*.
- Coloratum folium*, coloured, when Leaves which are generally green, are of a different Colour.
- Columnella*, a little Column, the Substance that passes through the Capsule, and connects the several Partitions and Seeds.
- Columniferi*, Pillar-shaped, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Coma*, a Bush, or Head of Hair, a Species of *Fulcra*, composed of large *Bractæ*, which terminates the Stalk as in *Lavandula*, *Salvia*, &c.
- Communis gemma*, regards the Contents of the *Gemma*, containing both Flower and Fruit.
- Communis calyx*, when a Cup contains both Receptacle and Flower.
- Comosæ*, a Head of Hair, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Comosa radix*, the Fibres which put forth at the Base of a bulbous Root, resembling a Head of Hair.
- Compactum folium*, when the Leaf is of a compact and solid Substance.
- Completus flos*, having a *Perianthium* and *Corolla*.
- Compositus caulis*, a Compound Stem, diminishing as they ascend.
- Compositum folium*, when the Petiole bears more than one Leaf, of which are the following Species, viz. *Articulatum*, *Digitatum*, *Conjugatum*, *Pedatum*, *Pinnatum*, *Decompositum*, *Supra-decompositum*.
- Compositi*, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Compressus caulis, folium*, a Leaf resembling a Cylinder compressed on the opposite Sides.
- Concavum folium*, hollowed, the Margin forms an Arch with the Disk.
- Conceptaculum*, Conceptacle or Receiver, a *Pericarpium* of a single Valve, which opens on the Side lengthways, and has not the Seeds fastened to it.
- Conduplicatum folium*, doubled together, when the Sides of the Leaf are parallel, and approach each other.

Conferti

- Conferti rami*, Branches crowded together.
- Confertus verticillus, flos, et folia*, when Flowers and Leaves are formed into Whorles round the Stalk and crowded together.
- Confluentia folia*, to flow together, as in the pinnated Leaf, when the Pinnæ run into one another.
- Conglobatus flos*, when Flowers are collected into globular heads.
- Conglomeratus flos*, Flowers irregularly crowded together.
- Congesta umbella*, Flowers collected into a spherical Shape, as in the *Allium*.
- Conica scabrities*, a Species of Setaceous Scabrities, scarce visible to the naked Eye, on the Surface of Plants, formed like Cones.
- Coniferæ*, Plants bearing Cones, such as *Pinus*, *Cupressus*, &c. an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Conjugatum*, to join or couple together, a Species of pinnate Leaf, where the *Folioles* come by Pairs.
- Connatum*, to grow together, when two opposite Leaves unite at their Base, so as to have the Appearance of one Leaf.
- Connivens corolla*, when the Apices of the Petals converge, so as to close the Flower, as in *Trollius Europæus*.
- Conniventes antheræ*, approaching or inclining together.
- Continuatum folium*, continued, when the Leaf appears to be a Continuation of the Substance of the Stalk.
- Contorti*, to twist, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Contrariæ valvulæ*, Valves are termed *Contraria*, when the *Dissepimentum* is placed transversely between them.
- Convexum folium*, a Leaf rising from the Margin to the Centre of the Leaf.
- Convolutus cirrhus*, a Tendril twining with the same Direction with the Sun's Motion.
- Convolutum folium*, a Term in Foliation, when the Leaf is rolled up like a Scroll of Paper.
- Conus*, see *Strobilus*.
- Corculum*, the Heart and Essence of the Seed.
- Cordatum folium*, the Heart-shaped Leaf.
- Cordiformus*, shaped like a Heart.
- Corolla*, a Wreath or Crown, one of the seven Parts of Fructification.
- Corollula*, a little *Corolla*.
- Corona seminis*, a Crown adhering to many Kinds of Seeds serving them as Wings, which enables them to disperse.
- Coronariæ* an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Coronula*, a little Crown.

- Cortex, the outer Rind or Bark of Vegetables.
- Corydales, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Corymbus is a Kind of Spike, the Flowers of which have each its proper Pedicellus, or partial Foot-stalk raised to a proportional Height, as in *Spirea opulifolia*.
- Cotyledon, a Side-lobe of the Seed, of a porous Substance, and perishable, or seminal Leaves.
- Crenatum *folium*, a notched Leaf, when the Margin is cut into Angles that point towards neither of the Extremities, obtusely crenate, when the Angles are rounded, or acutely crenate, when the Angles are pointed.
- Crispum *folium*, a curved Leaf, when the circumference becomes larger than the Disk admits of.
- Cristatus *flos*, when the Flower has a tufted Crest, as in *Polygala*.
- Cruciformes *flores*, Cross-shaped Flowers, consisting of four Petals, disposed in the Form of a Cross, as in the Class *Tetradynamia* of *Linnaeus*.
- Cryptogamia, hidden Marriages, the twenty-fourth Class of the *Linnaean* System.
- Cubitus, a Cubit, the ninth Degree of the *Linnaean* Scale for measuring Plants, from the Elbow to the Extremity of the middle-finger, or seventeen Parisian Inches.
- Cucullatum *folium*, Leaves rolled up lengthways, in Form of a Cone, as in *Geranium cucullatum*, &c.
- Cucurbitaceæ, Gourds, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Culminæ, the Top or Crown of any thing, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Culmas, a Reed or Straw, the proper Stem or Trunk of a Grass.
- Cuspidatum *folium*, a Leaf whose Apex resembles the Point of a Spear or Lance.
- Cuneiform *folium*, a Wedge-shaped Leaf.
- Cyathiformis *corolla*, Flowers of the Form of a Cup.
- Cylindræa *spica*, a Spike of Flowers in Form of a Cylinder.
- Cyma, that runs into long fastigate Peduncles, proceeding from the same universal Centre but with irregular partial ones.
- Cymosus *flos*, see *Cyma*.
- Cymosæ, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.

D

- Dædaleum *folium*, a Leaf whose Texture is remarkably beautiful and exquisitely wrought.
- Debilis *caulis*, a weak, feeble Stalk.

Decagynia

- Decagynia, ten Females, the fifth Order in the tenth Class ;
Flowers that have ten Styli.
- Decandria, ten Males, the tenth Class of *Linnaeus*.
- Decaphyllus *calyx*, a Calyx consisting of ten Leaves.
- Deciduum *folium*, Leaves that fall off in Winter.
- Declinatus *caulis*, a Stalk bending towards the Earth.
- Decomposita *folia*, when a Petiole, once divided connects many Folioles.
- Decumbens, to lie down.
- Decurrens *folium*, running down, when the Base of a sessile Leaf extends itself downwards along the Stem, beyond the proper Base or Termination of the Leaf.
- Decursive, *folium pinnatum*, when the Bases of the Foliole are continued along the Sides of the Petiolus.
- Decussata *folia*, to divide, when Leaves grow in Pairs, and opposite, each Pair being opposite alternately.
- Deflexus *ramus*, a Branch bent a little downwards.
- Deflorata *stamina*, having shed or discharged the Farina fecundans.
- Defoliatio, the Time in Autumn when Plants shed their Leaves.
- Deltoides *folium*, a Leaf formed like the Greek Delta, as in *Mesembryanthemum deltoides*.
- Demersum *folium*, in aquatic Plants, Leaves sunk below the Surface of the Water.
- Dentroides *surculus*, Shrub-like, a Subdivision of the Surculus in the Genus Hypnum.
- Dentatum *folium*, Leaves having horizontal Points of the same Consistence of the Leaf, and standing at a little Distance from each other.
- Denudatae, to be stripped naked, an Order of Plants in the *Fragmenti methodi naturalis* of *Linnaeus*.
- Dependens *folium*, to hang down, Leaves pointing towards the Ground.
- Depressum *folium*, pressed down, when the Sides rise higher than the Disk.
- Diadelphia, two Brotherhoods, the seventeenth Class in the sexual System.
- Diandria, two Males, the second Class in the sexual System.
- Dichotomus *caulis*, forked Stalks, when the Divisions come by two and two.
- Dicotyledones, when the Seeds have two Cotyledons that are the Placenta of the embryo Plant, and afterwards the Seed Leaves.
- Didyma *anthera*, Twins, when Anthera come by twos on each Filament.
- Didynamia, the Superiority of two, the fourteenth Class in the sexual System.

- Difformia folia*, different Forms, when Leaves on the same Plant come of different Forms.
- Diffusus caulis*, when the Branches of the Stalk spread different Ways.
- Digitatum folium*, fingered, when the Apex of a Petiole connects many Folioles.
- Digynia*, two Females, the second Order in each of the first thirteen Classes except the ninth.
- Dimidiatum*, halved.
- Dioccia*, the twenty-second Class in the sexual System.
- Dipetala corolla*, Flowers consisting of two Petals, as in *Circæa*, and *Comelina*.
- Diphyllus calyx*, a Calyx consisting of two Leaves, as in the *Papaver* and *Fumaria*.
- Discus*, a Disk, the middle Part of a radiate compound Flower.
- Disperma*, Plants producing their Seeds by twos, as in the *Umbellatæ*.
- Dissectum folium*, Leaves cut into *Lacinia*, or Divisions.
- Dissepimentum*, Partitions of the Fruit, which divide the *Pericarpium* into Cells.
- Diffiliens siliqua*, Pods that burst with Elasticity.
- Distans verticillus*, when the Whorles of Flowers, in verticillate Plants stand at a great Distance from one another.
- Disticha folia*, in two Rows, when Leaves all respect two Sides of the Branches only.
- Divaricata rami*, Branches standing wide from each other in different Directions.
- Divergentes rami*, widening gradually.
- Dodecandria*, twelve Males, the eleventh Class in the sexual System.
- Dodrans*, the seventh Degree in the *Linneæan* Scale for measuring the Parts of Plants, or nine Parisian Inches.
- Dodrantalis*, nine Inches.
- Dolabriforme folium*, a Leaf resembling an Ax, as in *Mesembryanthemum dolabriforme*.
- Dorsalis arista*, an Awne, or Beard, fixed to the Back or external Part of the *Gluma*.
- Drupa*, a pulpy *Pericarpium*, without Valves, containing a Stone, as in the Plum and Peach.
- Drupaceæ*, an Order of Plants in the *Fragmenta methodi naturalis* of *Linneus*.
- Dumosæ*, a Bush, an Order of Plants in the *Fragmenta methodi naturalis* of *Linneus*.
- Duplicata radix*, a double Root, a Species of bulbous Root, consisting of two solid Bulbs, as in some Species of *Orchis*.
- Dupli-

Duplicato *serratum folium*, sawed double, with lesser Teeth within the greater.

E

- Ebracteatus *racemus*, without a Bractea, or floral Leaf.
 Ecaudata *corolla*, without a Tail or Spur, as in Antirrhinum, cymbalaria.
 Echinatum *pericarpium*, Pods beset with Prickles, like a Hedgehog.
 Efflorescentia, the precise Time when a Plant shews its first Flowers.
 Emarginatum *folium*, when the Apex of a Leaf terminates in a Notch; the same may be applied to Petala, and Stigma.
 Enervium *folium*, Leaves having no apparent Nerves.
 Enneandria, nine Males, the ninth Class in the sexual System.
 Enneapetala *corolla*, a Flower consisting of nine Petals.
 Enodis *caulis, culmus*, Stalks and Straws, having no Knots or Joints.
 Enfatae, Plants having sword-shaped Leaves, an Order of Plants in the Fragmenta methodi naturalis of *Linnaeus*.
 Ensisforme *folium*, Leaves shaped like a two-edged Sword, tapering towards the Point.
 Equitantia *folia*, riding, when the Sides of the Leaves approach in such a Manner as the outer embrace the inner.
 Erectus *caulis, ramus, folium*, upright, perpendicular.
 Erosum *folium*, gnawed, when the Leaf is sinuate, and the Margin appears as if it were gnawed or bitten.
 Exserta *stamina*, standing forth, when the Stamina appear above the Corolla.
 Exstipulatus, without Stipulae.
 Exsuccum *folium*, when the Substance of the Leaf is dry.
 Extrafoliaca *stipulae*, Stipula, growing on the Outside of the Leaves.

F

- Fartum *folium*, stuffed, opposed to Tubulosum.
 Fasciculata *folia*, bundled, Leaves growing in Bunches.
 Fascicularis *radix*, bundled, tuberous Roots growing in Bundles.
 Fasciata *planta*, when many Stalks grow together lie a Faggot or Bundle.
 Fastigiati *pedunculi*, Pedunculi pointed at the Apex.
 Fauces, the Jaws or Chops.
 Femina *planta*, a Plant bearing female Flowers on the same Root only.
 Fibrosa *radix*, a fibrous Root.
 Filamentum, a Thread, applied to the thread-like Part of the Stamina.

Filices,

- Filices**, Ferns, one of the Seven Divisions of the Vegetable Kingdom, and an Order of Plants in the Fragmenta method⁷ naturalis of *Linnaeus*.
- Filiform filamentum**, Thread-shaped Stamina.
- Fimbriata petala**, a fringed Petal, as in *Menyanthus*.
- Fissum folium**, a Leaf split or cloven half way down.
- Fistulosus caulis**, a piped or hollow Stem.
- Flabellatum folium**, a Fan-shaped Leaf.
- Flaccidus pedunculus**, the Foot-stalk of a Flower that is feeble and slender.
- Flagellum**, a Twig, or Shoot, like a Whip, or Thong.
- Flexuosus caulis**, a Stalk, having many Turnings or Bendings, taking a different Direction at every Joint.
- Floralia folia**, floral Leaves that immediately attend the Flower.
- Floralis gemma**, Flower-buds.
- Flos**, a Flower.
- Flosculus**, a little Flower.
- Foliaceæ glandulae**, Glands growing on the Leaves.
- Foliaris cirrhus**, a Tendril growing from a Leaf.
- Foliaris gemmatio**, Leaf-buds.
- Foliatio plantæ**, the Complication of the Leaves, whilst folded within the Gemma, or Bud.
- Foliatus caulis**, a leafy Stalk.
- Foliifera gemma**, a Bud producing Leaves.
- Foliolum**, a little Leaf, one of the single Leaves, which together constitute a compound Leaf.
- Foliosum capitulum**, covered with Leaves amongst the Flowers or Tops of the Plant.
- Folium** a Leaf.
- Fornicatum petalum**, vaulted or arched, as in the upper Lip of the Flowers in the Class *Didynamia*.
- Frequens planta**, Plants growing frequently, or commonly, every where.
- Frondescencia**, the Season of the Year when the Leaves of Plants are unfolded.
- Frondosus cortex**, a Species of Trunk composed of a Branch and a Leaf blended together, as is frequently united with the Fructification.
- Fructescencia**, the Time of the Year when a Plant scatters its ripe Seeds.
- Fructificatio**, the Temporary Part of a Vegetable appropriated to Generation, terminating the old Vegetable, and beginning the new.
- Frustranea polygamia**, to no purpose, the third Order of the Class *Syngenesia*.
- Frutex**, a Shrub.
- Fruticosus caulis**, a shrubby Stalk.
- Fuga.

- Fugacissima petala*, Petals that are fleeting, and of short Duration.
- Fulcratus caulis*, Branches having Props, see *Fulcrum*.
- Fulcrum*, a Prop, or Support.
- Fungi*, a Kind of Mushroom, one of the seven Families of Plants, an order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Furcata*, Forked.
- Fusiform radix*, a spindle-shaped Root.

G

- Galea*, a Helmet, applied to the Corolla of the Class *Gynandria*, as in *Orchis*.
- Galeatum labium*, the Lip of a Flower shaped like a Helmet.
- Geminæ stipulæ*, *Stipula* growing in Pairs.
- Geminatus pedunculus*, double Foot stalks growing from the same Point.
- Gemma*, a Bud, an *Hibernaculum* on the ascending *Caudex*.
- Gemnatio*, a young Bud.
- Gemniparus*, bearing Buds.
- Genera Plantarum*, Genera of Plants, the second Subdivision in the *Linnaean* System; it comprehends an Assemblage of Species, similar in their Parts of Frustrification, under the same Class and Order.
- Geniculatus caulis culmus, pedunculus*, a jointed Stalk, Straw, or Foot-stalk of a Flower.
- Genicula*, little Joints.
- Germen*, a Sprout or Bud, the Base of the *Pistillum*, the Rudiment of the Fruit yet in embryo.
- Gibbum folium*, bunching out, or gouty.
- Glaber*, smooth, having an even Surface.
- Gladiata siliqua*, a sword-shaped Pod.
- Glandulæ*, a Gland or secretory Vessel.
- Glandulifera scabrities*, a Kind of bristly Roughness on the Surface of some Plants, on which there are minute Glands at the Extremity of each Bristle.
- Glareosis locis*, gravelly Places, where Plants delight in Gravel.
- Glaucophyllus*, a blueish, or azure-coloured Leaf.
- Globosa radix*, a round Root.
- Globularis scabrities*, a Species of glandular Roughness, scarce visible to the naked Eye, the small Grains of which are exactly globular.
- Glochoides*, the small Points of the Pubes of Plants. *Linnaeus* applies this Term, only to the *Hami Triglochoids*, with three hooked Points.
- Glomerata spica*, Flowers crowded together in a globular Form.
- Gluma,

- Gluma, a Husk, or Chaff, a Species of Calyx peculiar to Corn and Grasses.
- Glutinofitas, like Glue or PASTE.
- Gramina, Grasses, one of the seven Families of the vegetable Kingdom.
- Granulata *radix*, Roots consisting of many little Knobs, like Seeds of Grain, attached to one another by small Strings, as in *Saxifraga granulata*.
- Gymnospermia, naked seeded, the first Order of the Class *Didynamia*.
- Gynandria, when the male and female Parts are joined together, the twentieth Class in the *Linnean* System.

H

- Habitualis *character*, the Character or Description of a Plant, taken from its Habit, which consists in the Placentatio, Radicatio, Ramificatio, Foliatio, Stipulatio, Pubescentia, Inflorescentia.
- Habitus, the external Appearance; *Linnaeus* defines it, the Conformity or Affinity that the Congeners of Vegetables have to one another, in Placentation, Radification, &c.
- Hamosa *seta*, hooked Bristles.
- Hastatum *folium*, Leaves resembling the Head of a Spear or Halbert.
- Hemisphericus *calyx*, half round, or half a Sphere.
- Heptandria, seven Males, the seventh Class of the sexual System.
- Herba, an Herb; according to *Linnaeus*, it is the Part of the Vegetable which arises from the Root; it is terminated by the Fructification, and comprehends the Stem, Leaf, Props, and Hibernacula.
- Herbaceæ *plantæ*, are perennial Plants, which annually perish down to the Root.
- Herbaceus *caulis*, Stalks that dry annually.
- Hermaphroditus *flos*, Flowers that contain both Sexes, as Anthera, and Stigma.
- Hesperidæ, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Hexagonus *caulis*, a Stalk with six Angles.
- Hexandria, the sixth Class in the sexual System, which produce hermaphrodite Flowers, with six Stamina of equal Length.
- Hexagynia, an Order of Plants that produce six Styles.
- Hexapetala *corolla*, Flowers consisting of six Petals.
- Hexaphyllis *calyx*, a Flower cup consisting of six Leaves.
- Hians *corolla*, a monopetalous Flower that is gaping.
- Hirsutus, rough, hairy.
- Hispidus *caulis*, a Stalk covered with strong fragile Bristles.

- Holeraceæ, Pot Herbs, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
 Horizontalis *flos*, Flowers growing with their Disk parallel to the Horizon.
 Hybernaculum, Winter-lodge, the Part of a Plant that incloses and secures the Embryo from external Injuries.
 Hybrida, a Bastard, a monstrous Production of two Plants of different Species, like the Mule in the animal Creation.
 Hypocrateriformis *corolla*, a monopetalous Flower shaped like a Cup or Salver.

I

- Icofandria, the twelfth Class in the sexual System.
 Imberbis *corolla*, a Flower without a Beard.
 Imbricatus, tiled, when the Scales of a Stalk, or Flower Cup, lie over one another in the Manner of Tiles upon a House.
 Immutatæ, unaltered.
 Impar, odd, applied to a pinnated Leaf terminating in an odd Lobe.
 Inequalis *corolla*, an unequal Flower.
 Inanis *caulis*, hollow or empty Stalks.
 Incanum *folium*, Leaves covered with whitish Down.
 Incisum *folium*, Leaves cut into irregular Segments.
 Incompletus *flos*, imperfect Flowers without Petals.
 Incrassatus *pedunculus*, Foot-stalks of Flowers that increase in Thickness as they approach the Flowers.
 Incumbens *anthera*, Anthera which are affixed to the Filament Sideways.
 Incurvatus *caulis*, a Stalk bowed towards the Earth.
 Indivisum *folium*, an entire undivided Leaf.
 Inerme *folium*, unarmed, a Leaf without Bristles or Prickles.
 Inferus *flos*, Flowers whose Receptacle are situated below the Germen.
 Inflatum *perianthium*, a Calyx puffed out like a Bladder.
 Inflexa *folia*, to bend inwards towards the Stem.
 Inflorescentia, Inflorescence, signifies the various Modes in which Flowers are joined to the Plant by the Pedunculus.
 Infundibuliformis *corolla*, a monopetalous Flower shaped like a Funnel.
 Insertus *petiolus*, a Foot-stalk inserted into the Stem.
 Integrum *folium*, an entire or undivided Leaf.
 Integerrimum *folium*, an entire Leaf, whose Margin is destitute of Incisions or Serratures.
 Interfoliaceus *pedunculus*, Flower-stalks arising from between opposite Leaves.

Interrup-

- Interruptum folium pinnatum*, when the large Folioles of a winged Leaf are interrupted alternately by Pairs of smaller ones.
Interrupta spica, a Spike of Flowers, interrupted or broken by small Clusters of Flowers between the larger ones.
Intorsio, writhing or twisting.
Intrafoliaceæ stipulæ, Stipulæ growing on the Inside of the Leaves of the Plant.
Inundata loca, this Term is applied by *Linnaeus* to such Places that are overflowed only in Winter.
Involucellum, a partial Involucrum.
Involucrum, a Cover, the Calyx of the umbelliferous Plants standing at a Distance from the Flower.
Involuta folio, rolled in, Leaves when their lateral Margins are rolled spirally inwards on both Sides.
Irregularis flos, irregular Flowers of deformed Shapes.
Juba, a Crest of Feathers.
Julus, a Katkin.

L

- Labiatus flos*, a lipped Flower.
Lacerum folium, a Cleft or Fissure, Leaves whose Margin is cut into Segments, as if rent or torn.
Laciniæ, Segments or Incisions.
Laciniatum folium, a Leaf cut into irregular Incisions.
Lactescentia, milky, those Plants are called milky, whose Juices are white, yellow, or red.
Lacunosum folium, Leaves that are deeply furrowed, by the Veins being sunk below the Surface.
Lacustris planta, Plants which grow in Lakes of Water.
Lamina, a thin Plate, the upper expanded Part of a polypetalous Flower.
Lana, Wool, a Species of Pubescence, which covers the Surface of Plants.
Lanatum folium, a woolly Leaf.
Lanceolatum folium, a lance-shaped Leaf.
Laterales flores, Flowers coming from the Sides.
Laxus caulis, loose, weak, slender.
Legumen, Pulse, a Pericarpium of two Valves, in which the Seeds are fixed along one Suture only.
Lenticularis scabrities, a Species of glandular Scabritis, in the form of Lentils.
Leprosus, spotted like a Leopard, exemplified in *Lichen*.
Lævis caulis, smooth, having an even Surface.
Liber the inner Rind or Bark of a Plant.
Lignosus caulis, a woody Stem.
Lignum, Wood.

- Ligulatus flos*, when the Petals, tubulated at the Base, are plane linear towards the Middle, and widest at the Extremity, in form of a Bandage.
- Liliaceæ*, like a Lily, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Limbus*, a Border, the upper expanded Part of a monopetalous Flower.
- Linea*, a Line, the second Degree in the Linnæan Scale for measuring Plants, the twelfth Part of an inch.
- Lineare folium*, a narrow Leaf, whose opposite Margins are almost parallel, as in *Pinus*.
- Lineatum folium*, Leaves whose Superficies are marked with parallel Lines, running lengthways.
- Lingulatum folium*, a Leaf shaped like a Tongue.
- Lobatum folium*, when Leaves are divided to the Middle into Parts that stand wide from each other, and have their Margins convex.
- Loculamentum*, a Cell, the Divisions of that Species or Pericarpium called a Capsula.
- Locus foliorum*, the particular Part of the Plant to which the Leaf is affixed.
- Lomentaceæ*, Bean Meal, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Longiusculus*, longish.
- Longum perianthium*, when the Tube of the Calyx is equal in Length to that of the Corollæ.
- Lucidum folium*, clear, shining.
- Lunatum folium*, Moon-shaped Leaves, when they are round and hollowed at the Base like a Half Moon.
- Lunulate*, shaped like a Crescent.
- Luridæ*, pale, wan, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Luxurians flos*, a luxuriant Flower.
- Lyratum folium*, Leaves shaped like a Harp or Lyre.

M

- Marcescens corolla*, Flowers withering on the Plant.
- Margo folii*, the Margin or Edge of the Leaf.
- Mas planta*, Male Plants, see Class Dioecia.
- Masculus flos*, Male Flowers, containing Antheræ, but no Stigma.
- Medulla*, Marrow, the Pith or Heart of a Plant.
- Membranaceum folium*, when Leaves have no distinguishable Pulp between their Surfaces.
- Membranatus caulis*, a Stalk covered with thick Membranes.
- Monadelphia

- Monadelphia, one Brother, the sixteenth Class in the sexual System.
- Monandria, one Male, the first Class in the sexual System.
- Monocotyledones, a Term in Placentation, applied to Plants whose Seed have a single Cotyledon.
- Monoecia, one House, the twenty-first Class in the sexual System. Monogynia, one Female, the first Order of the first thirteen Classes in the Linnæan System.
- Monopetala *corolla*, a Flower having one Petal.
- Monophyllum *involutum*, consisting of one Leaf.
- Monosperma, having one Seed.
- Miliaris *scabrities*, a Specis of glandular Roughness appearing on the Surface of some Plants like Grains of Millet.
- Mucronatum *folium*, a Leaf terminating in a sharp Point.
- Multifidum *folium*, a Leaf divided into many linear Segments, or Divisions.
- Multiflorus *pedunculus*, a Foot-stalk bearing many Flowers.
- Multipartitum *folium*, a Leaf divided into many Parts.
- Multiplicatus *flos*, a luxuriant Flower whose Corolla is multiplied so as to exclude some of the Stamina.
- Multifliquæ, many Pods, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnæus*.
- Muricatus *caulis*, a Stalk, whose Surface is covered with sharp Points, like the Murex Shell.
- Muricata, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnæus*.
- Musci, Mosses, one of the seven Families in the Vegetable Kingdom, and an Order of Plants in the *Fragmenta methodi naturalis* of *Linnæus*.
- Mutica *gluma*, when the Arista is wanting.
- Mutilatus *flos*, a multilated Flower.

N

- Natans *folium*, a Leaf which swims on the Surface of Water.
- Navicularis *valvula*, when the Valve of a Seed Vessel resembles a ship.
- Necessaria *polygamia*, necessary Marriages, the fourth Order of the nineteenth Class in the sexual System.
- Nectarium, that Part of the Corolla that contains the Honey Juice.
- Nervosum *folium*, Leaves whose Surface is full of Nerves or Strings.
- Nidulantia *semina baccarum*, Seeds nestling in the Pulp of a Berry.
- Nitidum *folium*, a bright shining glossy Leaf.

Nucamentaceæ, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnæus*.

Nucleus, a Kernel.

Nudus *caulis*, a naked Stalk.

Nutans *caulis*, a nodding Stalk.

Nux, a Nut.

O

Obcordatum *petalum*, a heart-shaped Petal, with its Apex downwards.

Obliquum *folium*, when the Apex of the Leaf points obliquely towards the Horizon.

Oblongum *folium*, an oblong Leaf.

Obsolete *lobatum folium*, Leaves having Lobes scarce discernible.

Obtusum *folium*, Leaves blunt or rounded at the Apex.

Obvolutum *folium*, rolled against each other, when their respective Margins alternately embrace the straight Margin of the opposite Leaf.

Octandria, eight Males, the eighth Class in the sexual System.

Officinalis, Plants used in Medicine, and kept in the Apothecaries Shops.

Operculum, a Cover, as in the Mosses.

Oppositi *rami folia*, Branches and Leaves that grow by Pairs opposite each other.

Orbiculatum *folium*, round Leaves.

Orchideæ *orbis*, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnæus*.

Ordo, Order.

Orgya, a Fathom, or six Parisian Feet.

Ovale *folium*, an oval Leaf.

Ovalium, the Germen.

Ovatum *folium*, an oval, or egg-shaped Leaf.

P

Pagina *folii*, the Surface of a Leaf.

Palea, Chaff, a thin Membrane rising from a common Receptacle, which separates the *Flosculi*.

Paleaceus *pappus*, chaffy Down.

Palmæ, Palms, one of the seven Families of the Vegetable Kingdom.

Palmata *radix*, a handed Root, as in Orchis.

Palmatum *folium*, a Leaf shaped like an open Hand.

Palustris, marshy or fenny.

Panduriform

- Panduriforme folium*, shaped like a Guitar, a musical Instrument so called.
- Panicula*, a Panicle, or loose Spike of Grass.
- Papilionaceus*, butterfly-shaped Flower, as in the Class Diadelphia of *Linnaeus*.
- Papilionaceæ*, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Papilofum folium*, a Nipple, a Leaf covered with Dots or Points like Nipples.
- Pappus*, Down.
- Papulosum folium*, a Leaf whose Surface is covered with Pimples.
- Parabolicum folium*, a Leaf in Form of a Parabola.
- Parallelum dissepimentum*, when the Dissepiments are parallel to the Sides of the Pericarpium.
- Parasitica planta*, Plants that grow only out of other Plants, as the *Viscum*.
- Partialis umbella*, a partial Umbel.
- Partiale involucreum*, when at the Base of the partial Umbel.
- Partitum folium*, a divided Leaf.
- Parvum perianthium*, a little Flower-cup, or comparatively small, opposed to *Magnum*.
- Patens caulis, ramus, &c.* spreading Stalks and Branches.
- Patulus calyx*, a spreading Cup.
- Paucifloris*, having few Flowers.
- Pedalis caulis*, a Stalk a Foot in Height.
- Pedatum folium*, a Species of compound Leaf, whose Divisions resembles the Toes of a Foot, as in *Helleborus Fœtida*.
- Pedicellus*, a little Foot-stalk.
- Peduncularis cirrhus*, a Tendril proceeding from the Foot-stalk of a Flower.
- Pedunculati flores*, Flowers growing on Foot-stalks.
- Pedunculus*, the Foot-stalk of a Flower.
- Peltatum folium*, when the Foot-stalk is inserted into the Disk of the Leaf, and not into its Base.
- Penicilliformia stigmata*, a Stigma in form of a Painter's Pencil.
- Pentagonus caulis*, a five-angled Stalk.
- Pentagynia*, five Females, the fifth Order of a Class.
- Pentandria*, five Males, the fifth Class in the sexual System of *Linnaeus*.
- Pentapetala corolla*, a Flower consisting of five Petals.
- Pentaphyllus calyx*, a Calyx consisting of five Leaves.
- Perennis radix*, a perennial Root, continuing for many Years.
- Perfectus flos*, Flowers having Petals, the perfect Flowers of *Ray*, *Tournefort*, and other Botanists.
- Perfoliatum folium*, when the Base of the Leaf entirely surrounds

- the Stem, or when the Stalk grows through the Centre of the Leaf, as in *Crassula perfoliata*.
- Perforati *cotyledones*, to be pierced through, a Species of the Monocotyledones exemplified in the Germina; also an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Perianthium, a Kind of Calyx, so called when contiguous to the Fructification.
- Pericarpium, a Species of Pod that contains the Seed.
- Perichætium, a Modification in the Receptaculum in the Musci and Algæ.
- Perpendicularis *radix*, a perpendicular, or downright Root.
- Personatæ, masked, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Pes, a Foot.
- Petaliformia *stigmata*, a Stigma resembling the Shape of a Petal.
- Petalodes *flos*, a Flower having Petals.
- Petalum, the corollaceous Teguments of a Flower.
- Petiolaris *cirrhus*, a Tendril proceeding from the Foot-stalk of a Leaf.
- Petiolum *folium*, a Leaf growing on a Foot-stalk.
- Petiolus, a little Foot-stalk.
- Pileus, a Hat or bonnet, the orbicular Expansion of a Mushroom, which covers the Fructification.
- Pili, Hairs.
- Pilosum *folium*, Leaves whose Surface is covered with long distinct Hairs.
- Pinnatifidum *folium*, (a winged Leaf) applied to simple Leaves whose Laciniaë are transverse to the Rachiaë.
- Pinnatum *folium*, a winged Leaf.
- Piperitaë, Pepper, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Pistillum, the Style, or Female Organ of Generation, whose Office is to receive and secrete the Farina Fecundans.
- Pixidatum *folium*, a Kind of Foilage, where one Leaf is let in to another by a Joint, as in *Equisetum*.
- Placentatio *cotyledons*, of the Seed.
- Planipetalus *flos*, a Flower with plain flat Petals.
- Plantæ, Plants, one of the seven Families of Vegetables, comprehending all which are not included in the other six Tribes.
- Planum *folium*, plain flat Leaves.
- Plenus *flos*, a full or double Flower
- Plicatum *folium*, a plaited Leaf.
- Plumata *seta*, a feathered Hair or Bristle.
- Plumosus *pappus*, a Kind of soft down.
- Plumula, the ascending scaly Part of the Corculum.

- Pollen, Meal, the prolific Powder contained in the Anthera.
 Pollex, a Thumb, the Length of the first joint of the Thumb, or a Parisian Inch.
 Polyadelphia, many Brotherhoods, the eighteenth Class in the sexual System.
 Polyandria, many Males, the thirteenth Class in the sexual System of *Linnaeus*.
 Polycotyledones, many Cotyledons.
 Polygamia, many Marriages, the twenty-third Class in the sexual System.
 Polygynia, many Females, an Order of some of the Classes in the sexual System.
 Polypetala *corolla*, a Flower consisting of many Petals.
 Polyphyllum *involucrum*, an Involucrum of many Leaves.
 Polystachius *culmus*, a Stalk of Grass having many Spikes.
 Pomaceæ *pomum*, an Apple, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
 Pomum, an Apple.
 Pori, Pores.
 Præmorfa *radix*, a Bitten Root, when it ends abruptly, as in Scabiosa.
 Preciæ, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
 Prismaticus *calyx*, a triangular Flower-cup.
 Procumbens *caulis*, lying on the Ground.
 Prolifer *flos*, Flowers growing through, or out of one another, either from the Centre or Side.
 Prominulum *dissipimentum*, to jet out beyond the Valves.
 Pronum *discum folii*, Leaves having their Face downwards.
 Propago, a Shoot, the Seed of Mosses.
 Proprium *involucrum*, an Involucrum when a the Base of an umbellated Flower.
 Pseudo, a Bastard.
 Pubes, Down or Hair, one of the seven Kinds of Fulcra.
 Pulposum *folium*, a Leaf having a pulpy or fleshy substance.
 Pulveratum *folium*, a Leaf powdered with a Kind of Dust like Meal, as in *Primula Farinosa*.
 Punctatum *folium*, a Leaf sprinkled with hollow Dots or Points.
 Putamineæ, like a Shell, an order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.

Q

- Quadrangulare *folium*, a Quadrangular Leaf, having four prominent Angles in the Circumscription of its Disk.
 Quadrifidum *folium*, a Leaf divided into four Parts.
 Quadrijugum

- Quadrijugum folium*, a Leaf having four pair of Foliolles.
Quadrilobum folium, a Leaf consisting of four Lobes.
Quadripartitum folium, a Leaf consisting of four Divisions down to the Base.
Quaterna folia, when verticillate Leaves come by fours, having four in each Whorle.
Quina folia, verticillate Leaves coming by fives.
Quinatum folium, when a digitate Leaf has five Foliolles.
Quinquangulare folium, a Leaf having five prominent Angles in the Circumcription of the Disk.
Quinquejugum folium, when a pinnated Leaf has five Pair of Foliolles.
Quinquelobum folium, a Leaf having five Lobes.
Quinquefidum folium, a Leaf consisting of five Divisions with linear Sinuses, and straight Margins.
Quinquepartitum folium, consisting of five Divisions down to the Base.

R

- Racemus*, a Bunch of Grapes or Currants, or any other Bunch of Berries that bears that Resemblance.
Rachis, the Back Bone, a Species of Receptaculum, as in the Panicum.
Rachis folii pinnati, the middle Rib of a winged Leaf, to which the Foliolles are affixed.
Radius flos, a Species of compound Flowers, in which the Florets of the Disk are tubular, and those of the Radius ligulate, as in the Class Syngenesia.
Radicalia folia, Leaves proceeding immediately from the Root.
Radicans caulis, a Stalk bending to the Ground, and taking Root where it touches the Earth.
Radicatum folium, Leaves shooting out Roots.
Radicula, a little Root.
Radius, a Ray, the ligulate Margin of the Disk of a compound Flower.
Radix, a Root.
Ramea folia, regards Leaves that grow only on the Branches, and not on the Trunk.
Ramosissimus caulis, Stalks abounding with Branches irregularly disposed.
Ramus, a Branch of a Tree.
Ramosus caulis, a Stalk having many Branches.
Receptaculum, a Receptacle, the Basis on which the Parts of Fructification are connected.
Reclinatum folium, a Leaf reclined or bending downward.
Recurvatum

- Recurvatum folium*, a Leaf bent backwards.
Reflexus ramus, a Branch bent back towards the Trunk.
Regularis corolla, a Flower whose Parts are regular in its Figure and Magnitude.
Remotus verticillus, when the whorles of Flowers and Leaves stand at a Distance from one another.
Reniforme folium, a kidney-shaped Leaf.
Repandum folium, a Leaf having a bending or waved Margin, without any Angles.
Repens radix, a creeping Root extending horizontally.
Repens caulis, a creeping Stalk either running along the Ground, on Trees, or Rocks, and striking Roots at certain Distances.
Reptans flagellum, creeping along the Ground, as in *Fragaria*.
Restantes pedunculi, Foot-stalks remaining on, after the Fructification has fallen off.
Resupinatio florum, when the upper Lip of the Flower faces the Ground, and the lower Lip is turned upwards.
Resupinatum folium, when the lower Disk of the Leaf looks upward.
Retroflexus ramus, a Branch bent in different Directions.
Retrofractus pedunculus, bent backwards towards its Insertion, as if it were broken.
Retusum folium, when the Apex of the Leaf is blunt.
Revolutum, folium, a Leaf rolled back.
Rhæades, the red Poppy, an order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
Rhombeum folium, a Leaf whose Shape nearly resembles a Rhombus.
Rhomboideum folium, a Leaf of a geometrical Figure, whose Sides and Angles are unequal.
Rigidus caulis folia, stiff, hard, rigid.
Rimosus caulis, abounding with Clefts and Chinks.
Ringens, grinning and gaping.
Rosaceus flos, a Flower whose Petals are placed in a Circle, in Form like those of a Rose.
Rostellum, a little Beak, the descending plain Part of the Coraculum of the Seed.
Rotacæ, a Wheel, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
Rotatus limbus, corolla, a wheel-shaped Flower, expanded horizontally, having a tubular Basis.
Rotundatum folium, a roundish Leaf.
Rubra lactescentia, red Milkiness in Plants.
Ruderata loca, rubbishy Places.
Rugosum folium, a rough or wrinkled Leaf.

S

- Sagittatum *folium*, an arrow-shaped Leaf.
- Sermentaceæ, a Twig or Shoot of a Vine, an Order of Plants in the Fragmenta methodi naturalis of *Linnæus*.
- Sermentosus *caulis*, the Shoot of a Vine, naked between each Joint, and producing Leaves at the Joints.
- Scaber *caulis, et folium*, scabby and rough, having Tubercles.
- Scabridæ, rough, an Order of Plants in the Fragmenta methodi naturalis of *Linnæus*.
- Scabrities, a Species of Pubescens, composed of Particles scarce visible to the naked Eye, sprinkled on the Surface of Plants.
- Scandens *caulis*, a climbing Stalk.
- Scapus, a Species of Stalk which elevates the Fructification, and not the Leaves, as in Narcissus.
- Scariosum *folium*, Leaves dry on the Margin that found when touched.
- Scitamina, fair, beautiful, an Order of Plants in the Fragmenta methodi naturalis of *Linnæus*.
- Scorpioides *flos*, a Flower resembling the tail of a Scorpion.
- Scutellum, a Species of Fructification which is orbicular, concave, and elevated in the Margin, as in some Species of Lichen.
- Scyphir, cup-bearing, a Subdivision of the Genus Lichen.
- Secretoria *scabrities*, a Species of glandular Roughness on the Surface of some Plants.
- Secunda *spica*, a Spike of Grass with the Flowers turned all towards one Side.
- Securiformis *pubescentia*, a Species of Pubes on the Surface of some Plants, the Bristles resembling an Axe or Hatchet.
- Semen, Seed.
- Seminale *folium*, Seed-leaves.
- Semiteres *caulis*, Half a Cylinder, flat on one Side, and round on the other.
- Sempervirens *folium*, an ever-green Leaf.
- Sena *folia*, Leaves growing in Sixes, as in Galium spurium.
- Senticosæ, a Briar or Bramble, an Order of Plants in the Fragmenti methodi naturalis of *Linnæus*.
- Sepiariæ, a Hedge, an Order of Plants in the Fragmenta methodi naturalis of *Linnæus*.
- Sericeum *folium*, a Leaf whose Surface is of a soft silky Texture.
- Serratatum *folium*, a sawed Leaf.
- Sessile *folium*, a Leaf growing immediately to the Stem, without any Foot stalk.
- Setæ, a Bristle, a Species of Pubescens, covering the Surface of some Plants.
- Setaceum *folium*, Leaves shaped like Bristles.
- Sexus *plantarum*, Plants are distinguished by the Sex of their Flowers, which are either male, female, or hermaphrodite.

- Silicula, a Little Pod, a bivalve Pericarpium, see Clafs Tetrady-
namia.
- Siliqua, a Pod, a Pericarpium consisting of two Valves, in
which the Seeds are fixed alternately to each Suture.
- Siliquosa, the second Order in the Clafs Tetradynamia.
- Siliquosæ, an Order of Plants in the Fragmenta methodi natu-
ralis of *Linneus*.
- Simplex *caulis*, a simple or single Stem.
- Simplicissimus *caulis*, the most simple Stalk.
- Sinuatum *folium*, a Leaf whose Sides are hollowed or scolloped.
- Situs *foliorum*, the Disposition of Leaves on the Stem and
Branches, which are either starry, by three's, opposite, alter-
nate, scattered or crowded.
- Solidus *caulis*, a solid Stalk or Stem.
- Solitarius *pedunculus*, when only one Flower-Stalk proceeds
from the same Part.
- Solutæ *stipulæ*, loose, opposed to Adnatæ.
- Spadix, the Receptaculum of a Palm, a Pedunculus which
proceeds from a Spatha.
- Sparsi *rami, pedunculi folia*, scattered without Order.
- Spatha, a Species of Calyx resembling a Sheath.
- Spathaceæ, like a Sheath, an Order of Plants in the Frag-
menta methodi naturalis of *Linneus*.
- Spatulatum *folium*, a Leaf in form of a Spatula, an Instrument
used to spread Salve.
- Species *plantarum*, the third Subdivision in the *Linnean* System.
- Spica, a Spike, a Species of Inflorescence resembling an Ear of
Corn.
- Spica *secunda*, when the Flowers all turn towards one Side.
- Spica *disticha*, when the Flowers are in two Rows, and look
two Ways.
- Spicula, a little Spike.
- Spinæ, Thorns or rigid Prickles.
- Spinosus *caulis*, strong Prickles, whose Roots proceed from the
Wood of the Stem, and not from the Surface of the Bark.
- Spirales *cotyledones*, feminal Leaves twisted spirally.
- Spithama, a Span, or seven Parisian Inches.
- Splendentia *folia*, a shining Leaf.
- Squamosa *radix*, a scaly Root.
- Squarrosus, rough, scaly, or scurfy.
- Stamen, the Filaments that sustain the Anthera.
- Stamineus *flos*, Flowers having Stamina, and no Corolla.
- Statuminatæ, a Prop, an Order of Plants in the Fragmenta
methodi naturalis of *Linneus*.
- Stellata *folia*, Leaves surrounding the Stem, like the Rays of a
Circle.

- Stellatæ seta*, a Species of Pubescens called Bristles, when they arise from a Centre in form of a Star, as in the *Mesembryanthemum barbatum*.
- Stellata planta*, one of Mr. Ray's Classes, the Tetrandria Monogynia of *Linnaeus*.
- Stellatæ*, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Sterilis flos*, a barren Flower, Masculus of *Linnaeus*.
- Stigma*, Apex of the Pistillum.
- Stimuli*, Stings.
- Stipitatus pappus*, a Kind of Trunk that elevates the Down and connects it with the Seed.
- Stipula*, one of the kinds of Fulcra of Plants, generally growing on each Side of the Base of the Foot-stalks of Leaves or Flowers, and are either by two's, single, deciduous, abiding, adhering, loose, on the Inside of the Foot-stalks or on the Outside.
- Stipulares glandulæ*, Glands produced from *Stipulæ*.
- Stolo*, a Shoot, which running on the Surface of the Ground strikes Root at every Joint, as in *Fragaria* and others.
- Striatus caulus, culmus, &c.* channelled Streaks, running lengthwise in parallel Lines.
- Strictus caulis*, straight stiff Shoots.
- Strigæ*, Ridges, Rows.
- Strobilus*, a Species of Pericarpium, formed from an *Amentum*, as the Cone of the Pine-tree.
- Stylus*, that Part of the Pistillum which elevates the Stigma from the Germen.
- Submersum folium*, when aquatic Plants have their Leaves sunk under the Surface of the Water.
- Subramosus caulis*, a Stalk having few Branches.
- Subtrodandum folium*, a Leaf almost round.
- Subulatum folium*, an awl-shaped Leaf.
- Succulentæ*, juicy, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
- Suffrutex*, an under Shrub.
- Sulcatus caulus, culmus*, a Stalk deeply furrowed lengthways.
- Superflua polygamia*, superfluous, the second Order in the Class *Syngenesia*.
- Superus flos*, when the Receptacle of the Flower stands above the Germen.
- Supra-axillaris pedunculus*, the Foot-stalk of a Flower, whose Insertion is above the Angle formed by the Branch.
- Supra-decomposita folia*, are composite Leaves which have little Leaves growing on a subdivided Foot-stalk.
- Supra-foliaceus, pedunculus*, the Foot-stalk of a Flower inserted into the Stem immediately above the Leaf.

Surculus, a Twig, the Stalks or Branches of Mosses.
 Syngenesia, to generate together, the nineteenth Class in the sexual System.

T

- Tegumentum, a Cover, the Perianthium and Corolla.
 Teres *caulis, folium*, a cylindrical Stalk, or Leaf.
 Tergeminum *folium compositum*, a Leaf three Times double, when a dichotomus petiolus is subdivided, having two Foliola on the Extremity of each Division.
 Terminalis *flos*, Flowers terminating a Branch.
 Terna *folia*, Leaves in Whorles by three's.
 Ternatum *folium*, a chequered Leaf whose Squares are of different Colours.
 Tessellatum *folium*, a chequered Leaf, whose Squares are of different Colours.
 Tetradynamia, the Superiority or Power of four, the fifteenth Class in the sexual System.
 Tetragonus *caulis*, a four-cornered or square Stalk.
 Tetragynia, four Females, the fourth Order of some of the Classes in the sexual System.
 Tetrandria, four Males, the fourth Class in the sexual System.
 Tetrapetala *corolla*, a Flower consisting of four Petals.
 Tetraphyllus *calyx*, a Flower-cup consisting of four Leaves.
 Tetrasperma *planta*, producing four Seeds.
 Thalamus, a Bed, the Receptacle.
 Theca, a Sheath.
 Thyrsus, a Spike like a Pine-cone.
 Tomentosus *caulis folia*, a Stalk and Leaf covered with a whitish Down like Wool.
 Tomentum, a Species of Pubescence, covering the Surface of some Plants of woolly or downy Substance.
 Torosum *pericarpium*, brawny Protuberances, like the Swelling of the Veins when a Pericarpium is bunched out by the inclosed Seeds.
 Torta *corolla*, when the Petals of a Flower are twisted, as in Nerium.
 Tortilis *arista*, Awns or Beards of Corn twisted like a Screw.
 Transversum *dissepimentum*, when the Dissepiments are at right Angles with the sides of the Pericarpium.
 Trapeziforme *folium*; a Leaf having four prominent Angles, whose Sides are neither equal or opposite.
 Triandria, three Males, the third Class in the sexual System.
 Triangulare *folium*, a triangular Leaf.
 Tricocca *capsula*, a Capsule with three Cells, and a single Seed in each Cell.
 Tricoecæ, an Order of Plants in the Fragmenta methodi naturalis of *Linnaeus*.

- Tricuspidata, three-pointed.
- Trifidum *folium*, a Leaf divided into three linear Segments, having straight Margins.
- Triflorus *pedunculus*, a Foot-stalk bearing three Flowers.
- Trigonus *caulis*, a three-sided Stalk.
- Trigynia, three Females, the third Order in some of the Classes.
- Trihillatæ, a Seed having three Eyes.
- Trijugum *folium*, a winged Leaf, with three Pair of Foliola.
- Trilobum *folium*, a Leaf having three Lobes.
- Trinervum *folium*, a Leaf having three strong Nerves running from the Base to the Apex.
- Trioecia, three Houses, the third Order in the Class Polygamia in the sexual System.
- Tripartitum *folium*, a Leaf divided into three Parts down to the Base.
- Tripetala *corolla*, a Flower consisting of three Petals.
- Tripetaloideæ, three petaled, an Order of Plants in the Fragmenta methodi naturalis of *Linnaeus*.
- Triphyllus *calyx*, a Cup consisting of three Leaves.
- Tripinnatum *folium, compositum*, a Leaf having a triple Series of Pinna, or Wings.
- Triplinerve *folium*, a Leaf having three Nerves running from the Base to the Apex.
- Triquetrum *folium caulis*, Leaves and Stalks having three plain Sides.
- Trisperma, three-seeded, as in Euphorbia.
- Triternatum *folium, compositum*, a compound Leaf when the Divisions of a triple Petiolus are subdivided into three's.
- Trivalve *pericarpium*, a Pod consisting of three Valves.
- Truncatum *folium*, a Leaf having its Apex as it were cut off.
- Truncus, the Body or Stem of a Tree.
- Tuberculatus, having Pimples or Tubercles.
- Tuberculum, a little Pimple.
- Tuberosa *radix*, a tuberous or knobbed Root.
- Tubulatum *perianthium*, tubular Flowers, as in the Class Didynamia.
- Tubulosi *flosculi*, tubular Florets nearly equal, one of the three Divisions of compound Flowers.
- Tubus, a Tube, the lower and narrow Part of a monopetalous Flower.
- Tunicatus *radix*, a Species of bulbous Root, having Coats lying one over another from the Centre to the Surface, as in the Onion, Tulip, &c.
- Turbinatum *pericarpium*, a Kind of Pod shaped like a Top, narrow at the Base and broad at the Apex.

Turgidum legumen, swollen, puffed out, as in *Ononis*.
Turio, the young Buds, or Shoots of Pines.

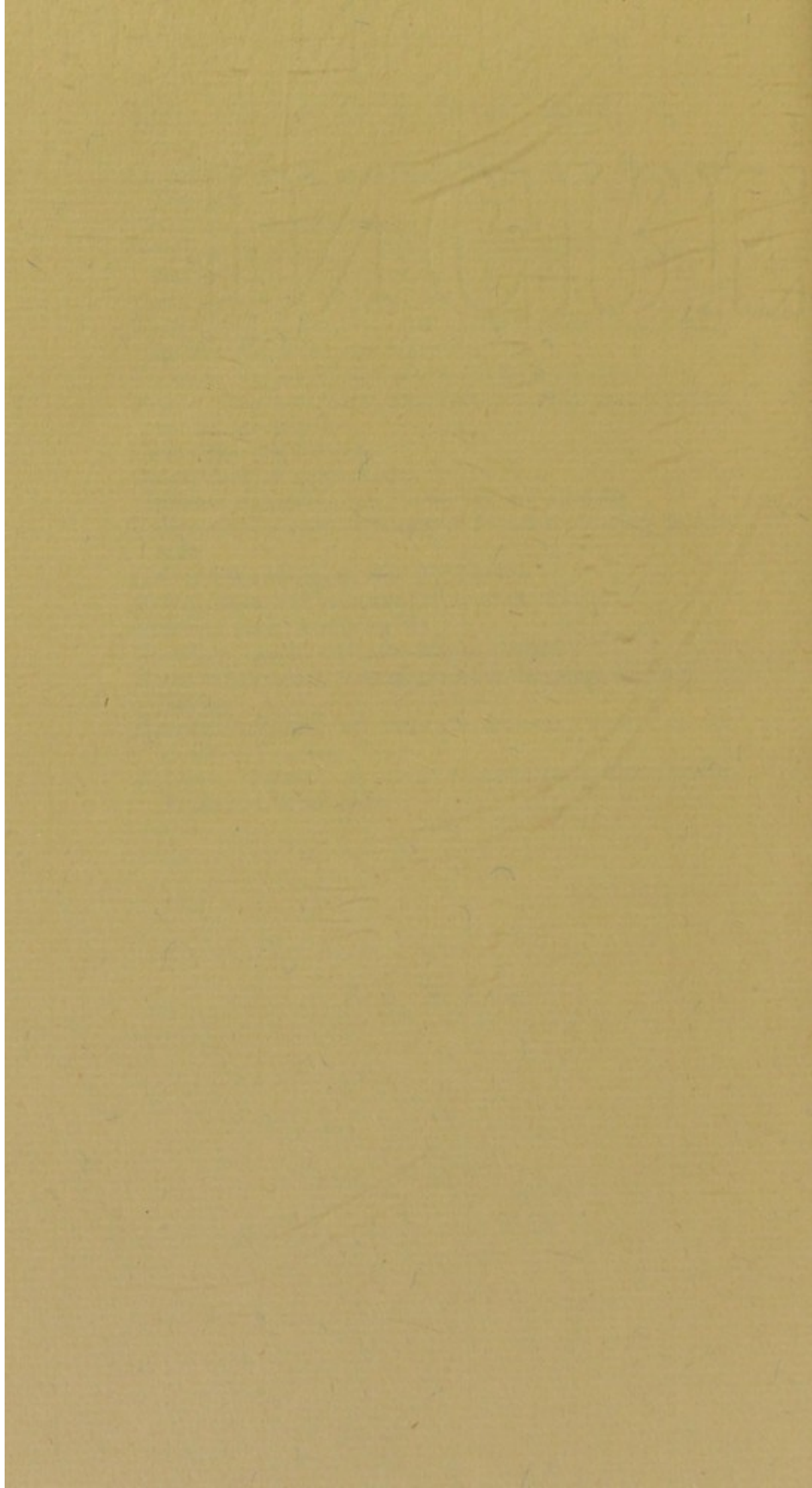
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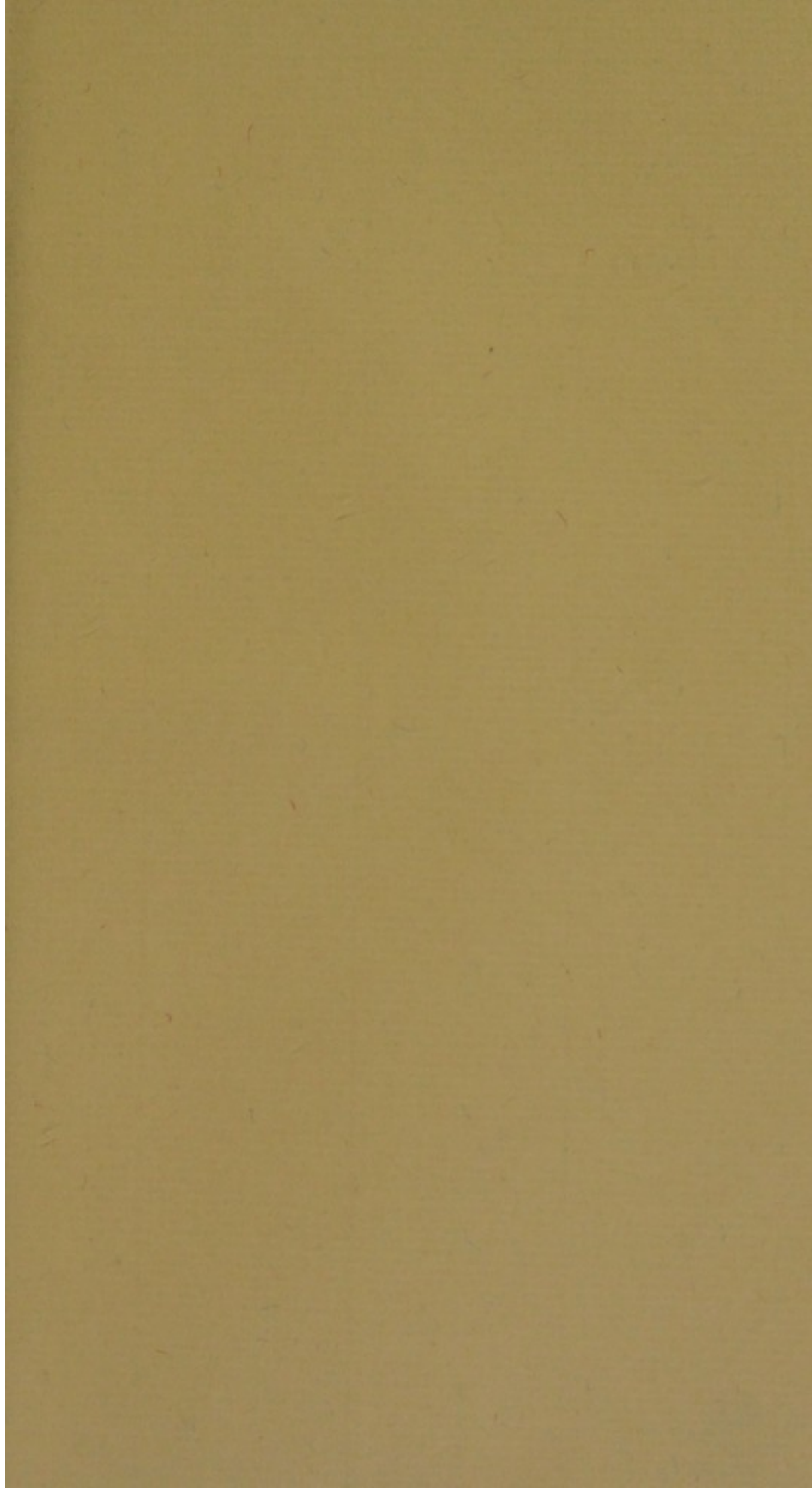
- Vaginales*, sheathed, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
Vaginans folium, a Leaf like a Sheath, whose Base infolds the Stem.
Valvula, a Valve, a Partition of the external Cover of that sort of *Pericarpium* called *Capsula*.
Vegetabilia, one of the three Kingdoms of Nature.
Venosum folium, the Veins which run over the whole Surface of a Leaf.
Ventricosa spica, a Spike narrowing at each Extremity, and bellying out in the Middle.
Ventriculosus calyx, a Flower-cup bellying out in the Middle, but not in so great a Degree as *Ventricosus*.
Vepreculae, a Briar, or Bramble, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
Verrucosa capsula, a Capsule having little Knobs or Warts on its Surface.
Verticillatae anthera, when the Anthera is fixed by the Middle on the Point of the Filament, and so poised as to turn like the Needle of a Compass.
Verticalia folia. Leaves so situated that their Base is perpendicular above the Apex.
Verticillati rami flores, folia, Branches, Flowers, or Leaves surrounding the Stem, like the Rays of a Wheel.
Verticillatae, an Order of Plants in the *Fragmenta methodi naturalis* of *Linnaeus*.
Verticillus, a Species of Inflorescence, in which the Flowers grow in Whorles, as in *Mentha*.
Vesicula, a little Bladder.
Vesicularis scabrities, a Kind of glandular Roughness, resembling *Vesiculae*.
Vexillum, a Standard, the upright Petal of a papilionaceous Flower.
Villosus caulis folium, a Stalk, or Leaf, covered with soft Hairs.
Virgatus caulis, Stalks shooting out; slender, straight Branches or Rods.
Viscidum folium, a Leaf whose Surface is clammy.
Viscositas, glewy, clammy.
Uliginosa loca, boggy Places.
Umbella, an Umbel or Umbrella.

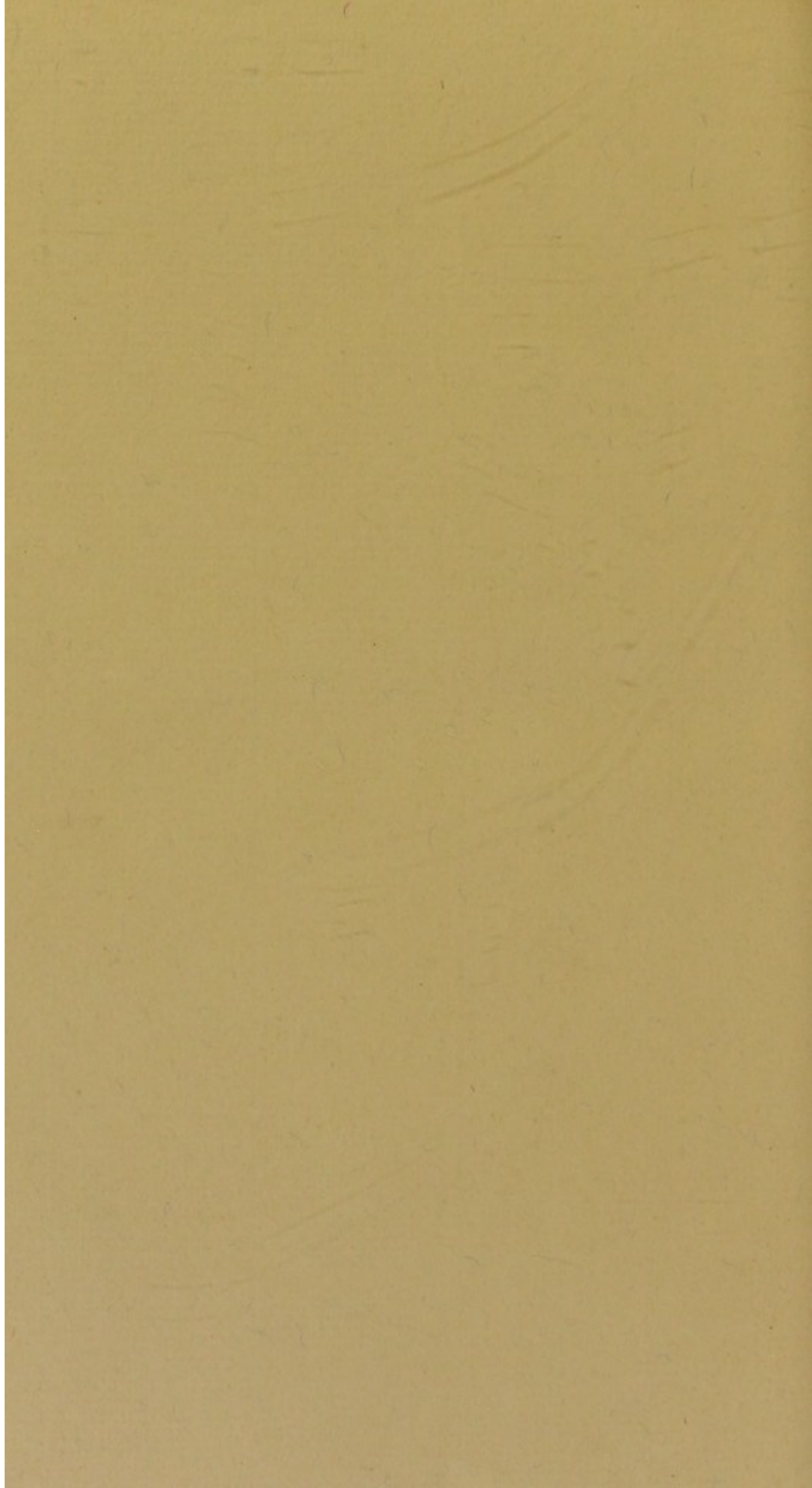
- Umbellatus *flos*, an umbellated Flower, as in Pentandria
 Digynia.
 Umbellula, a little Umbel.
 Umbilicatum *folium*, a peltate Leaf, shaped like a Navel, at
 the Insertion of the Foot-stalk.
 Uncinatum *stigma*, a hooked Sigma.
 Undatum *folium*, a waved Leaf, whose Surface rises and falls
 in Waves towards the Margin.
 Undulata *corolla*, a Flower whose Petals are waved.
 Unguis, a Nail, or Claw, that Part of a Petal that is joined
 to the Receptacle.
 Unicus *flos*, one Flower.
 Unicus *radix*, a single Root.
 Uniflorus *pedunculus*, one Flower on a Foot-stalk.
 Unilateralis *racemus*, a Bunch of Flowers growing on one
 Side.
 Universalis *umbella*, an universal Umbel.
 Volva, the membranaceous Calyx of the Fungi.
 Volubilis *caulis*, a twining Stalk.
 Urceolata, *corolla*, a pitcher-shaped Flower.
 Urens *caulis, folium*, a Leaf, or Stalk, burning, stinging, as
 Nettles.
 Utriculi, a Species of glandular, secretory Vessels, on the
 Surface of various Plants.
 Vulgaris, common, the trivial Name of many Plants in the
 Books of old Botanists.

F I N I S.









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