The language of botany : being a dictionary of the terms made use of in that science, principally by Linneus: with familiar explanations, and an attempt to establish significant English terms. The whole interspersed with critical remarks / by Thomas Martyn.

Contributors

Martyn, Thomas, 1735-1825. Physical Society (Guy's Hospital) King's College London

Publication/Creation

London : John White, 1807.

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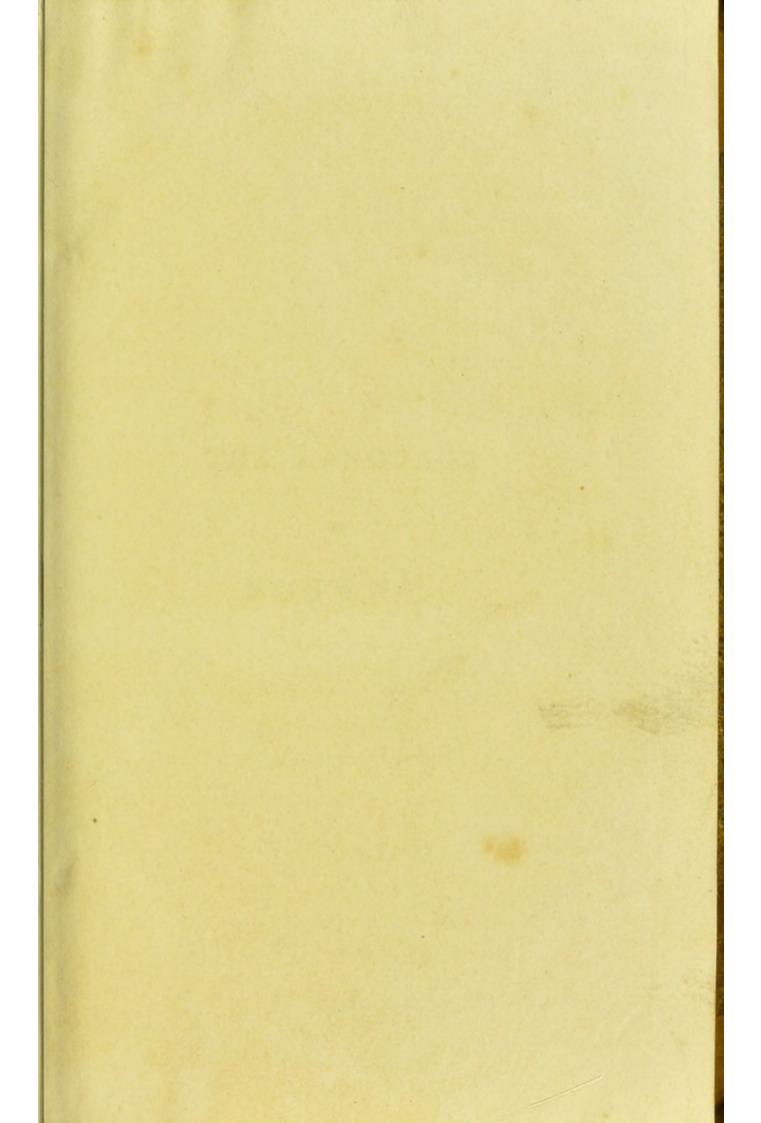




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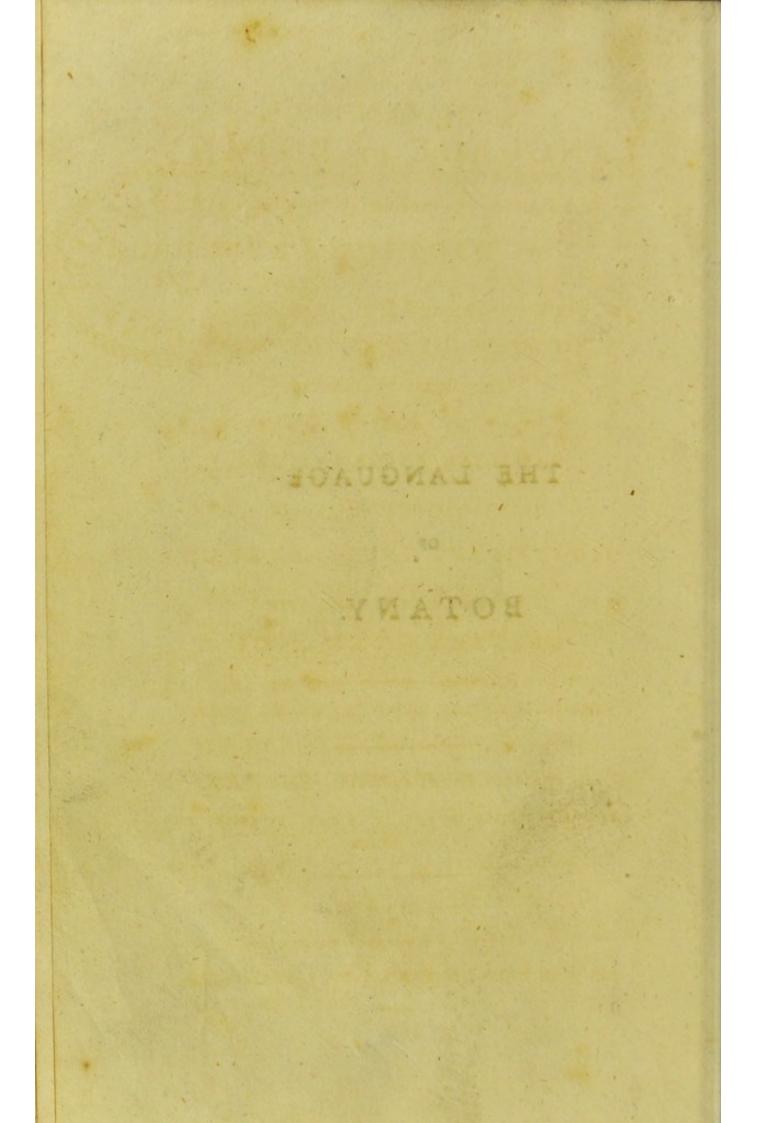
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THE LANGUAGE

OF

BOTANY.



THE

LANGUAGE OF BOTANY:

BEING

A DICTION R Mustituted)

OF THE

TERMS MADE USE OF IN THAT SCENCE

PRINCIPALLY BY LINNEUS:

WITH

FAMILIAR EXPLANATIONS,

AND AN ATTEMPT TO ESTABLISH

SIGNIFICANT ENGLISH TERMS.

THE WHOLE INTERSPERSED WITH

CRITICAL REMARKS.

THE THIRD EDITION, CORRECTED AND ENLARGED.

By THOMAS MARTYN, B.D.F.R.S.

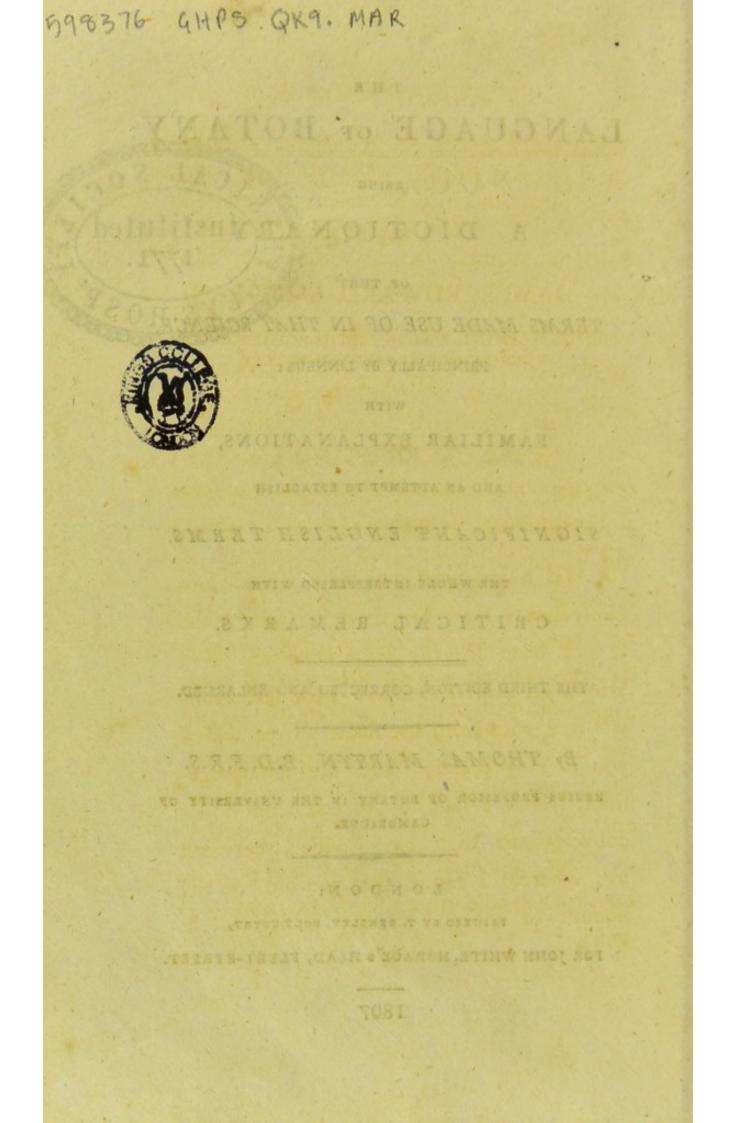
REGIUS PROFESSOR OF BOTANY IN THE UNIVERSITY OF CAMBRIDGE.

LONDON:

PRINTED BY T. BENSLEY, BOLT COURT,

FOR JOHN WHITE, HORACE'S HEAD, FLEET-STREET.

1807



JAMES EDWARD SMITH,

DEDICATION

particulars as two men who think for

themselves can well do on any fibjedt

that branches out into fuch a valiety in

DOCTOR OF PHYSIC, FELLOW OF THE ROYAL SOCIETY, PRESIDENT OF THE LINNEAN SOCIETY, ETC. ETC.

here needs no dealery for the errors and

imperfections of the work that now pre-

DEAR SIR, Doldre ruoy minis of esmal

THE following GLOSSARY would probably never have appeared in print, had it not been for the favourable reception which an imperfect effay on the fame fubject met with from the Society over which you fo ably prefide; and the encouragement which I had to proceed from fome converfations that have paffed between us; wherein I found that you did me the honour to approve of my principles in general;

DEDICATION.

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general; and that we differed as little in particulars as two men who think for themfelves can well do on any fubject, that branches out into fuch a variety as this.

DOCTOR OF PHYSIC, FLILOW OF THE ROYAL SOC

To you, who know fo well the difficulties that attend on accuracy and precifion, there needs no apology for the errors and imperfections of the work that now prefumes to claim your protection. The great and extensive task which I am now bringing to a period, has not left me leifure to use the file : and the fubject will probably continue in its present rude state, till you, who have obliged the public with a handfome and correct edition of the most elegant among our great Master's works, shall find time to gratify them still farther, with an enlarged and corrected edition of his Philo-

DEDICATION. vii

Philosophia Botanica; which is certainly one of the most useful of them, and may be confidered as the corner ftone of all the reft.

You, Dear Sir, are happy in the praifes and good withes of every one who has occasion to confult any part of the Linnean Collections, which fo fortunately for the public have fallen into your hands: and I may venture to fay, that my brethren of the Linnean Society will heartily concur with me in my good wifhes for your health and profperity, as well as for your long continuance in a station which gives you the opportunity of rendering important fervices to Natural History.

I flatter myfelf that you will take in good part this public testimony which

PRESACE

viii DEDICATION.

which a veteran in our Science bears to your worth and abilities: and that you will permit me to fubfcribe mytelf,

Your very fincere Friend,

And

of renderinge important fervices i to Na-

Obedient humble Servant,

THOMAS MARTYN.

FRITH-STREET, February 8, 1796.

daid as

PREFACE.

MY attention was first called to confider the LANGUAGE of BOTANY, very soon after Linneus had published his Fundamental Treatife*. At that time I was a pupil in the school of our great countryman Ray. But the rich vein of knowledge, the profoundness and precision which I remarked every where in the *Philosophia Botanica*, withdrew me from my first master, and I became a decided convert to that system of Botany which has been fince generally received.

Being then engaged in academical ftudies, and afterwards in those of the profession

> * In the year 1751. B

which

x

which I had determined to adopt, Botany was rather the amufement of leifure hours than the object of ferious purfuit, till the inftitution of a Botanic Garden at Cambridge by Dr. Walker, and the defire which my father expressed to refign a chair which his age and infirmities rendered him unable to fill with fatisfaction to himfelf, roufed my attention a fecond time to a favourite purfuit.

Having been appointed by the unanimous voice of the Univerfity of Cambridge to the Profefforfhip of Botany; and being foon after nominated by Dr. Walker, the founder of the new garden, his firft Lecturer; I had the felicity of taking the lead in introducing the Linnean fyftem and language to my countrymen, by a courfe of public lectures*. They were at that time entirely new to the Univerfity, and very little known or attended to in other parts of the kingdom, except at Edinburgh, by the laudable efforts of the late Dr. Hope.

* In the year 1762.

The

The inftitution of the Linnean Society; the avidity with which the fludy of Botany has been lately purfued by many in every rank and defcription of perfons; the neceffity I was under to find terms by which to express myself in my Letters on Botany, and especially in the great work which I am now finishing; have all confpired to excite my attention a third time to Botanical Language, and particularly to the mode which seems best for us to adopt when we write or speak of the science in our native tongue.

So long as Botany continued to be ftudied only among thofe who had received a learned education; the original terms of Linneus, derived from the Greek or Latin, ferved all the purpofes of general intercourfe. But when it became univerfally adopted, a Vernacular Language would of courfe be gradually formed; and if it were to be left to chance, or the choice of the ignorant, many abfurdities and barbarifms would be introduced, debafing our fterling Englifh. This it has been my wifh to avoid; and I

B 2

xi

now

now renew the attempt which I made fome time fince * to fix our native Botanical Language on certain and reafonable principles, conformable to general analogy. Had not this been my particular view, and had I ocen fatisfied with what has been already done by feveral learned and ingenious writers, I should certainly not have obtruded my ideas upon the public, after fuch a multitude of elementary books had been printed: and even now the errors, omiffions, and defects of various kinds, which those who are skilled in Philological Botany will easily detect in this little volume, require an apology. I must request the public therefore to confider it as a mere attempt, that may hereafter be improved into fomething more worthy of their regard, if learned Botanists and Philologists will condescend to confider the fubject more deeply.

I am aware that many will fay, You give too much importance to these laborious

* Differtation printed in vol. I. of the Transactions of the Linnean Society.

trifles.

trifles. But if they be fuch, they lead not to any ferious mifchief; and fo long as the weightier matters of fcience are not neglected, there can be no harm in working up and polifhing the minuter parts, fo that the ornaments may not difgrace the edifice.

The indolent I am fenfible will fhrink from this odious affemblage of terms: but the indolent must be contented to lie under the difgrace of ignorance, or at most to fkim very lightly the furface of knowledge.

Many terms are indifpenfably neceffary in the Science of Nature, where the objects that prefent themfelves to our confideration are fo numerous. The queftion therefore is not, whether we fhall have terms or no, but in what manner they fhould be conftructed fo as to anfwer the great purpofe of receiving and communicating knowledge most effectually? Now we have been long in posseficient of a precise and fignificant language invented by Linneus, generally B 3 adopted adopted by the learned of every country in Europe, and received in great part into the vernacular tongues of feveral. Can we do better therefore than to keep as close as poffible to this, and to adopt the Linnean terms themfelves, fo far as the nature and ftructure of the English language will permit, and whenever we can do it without violating the laws of grammar or common fenfe? We fhall thus have all the advantage which is derived from fpeaking and writing one univerfal language: whereas if we fet about finding equivalent terms in English, thefe will require as much explanation as the others, and will be equally difficult to the ftudent, without having pofferfion or prefcription to plead. Thus shall we become unintelligible to every other nation, without being more intelligible among ourfelves.

Laying it down therefore as a first principle, that we ought to adhere as closely as possible to the Linnean language, it will be found that the number of terms, purely English,

XIV

English, occurring in the Botanical Glossary, which is now offered to the public, is comparatively fmall. That this may be clearly feen, and that perfons may judge for themfelves how far they would choose to depart from the original terms, I have put together at the bottom of the page those which are translated or equivalent *. A perfect agreement

* Arched or Vaulted. For- Chaff. Palea. nicatus. Awn. Arifta. Banner or Standard. Vexillum. Barb. Glochis. Bark, outer. Cortex. ____, inner. Liber. Barren. Sterilis. Beaked. Rostratus. Beard. Barba. Bellying. Ventricofus. Berry. Bacca. Boat-Anaped. Navicularis. Bough or Branch. Ramus. Bowed. Arcuatus. Briftle. Seta. Bud. Gemma. Cell. Loculamentum.

Chinked. Rimofus. Clasper or Tendril. Cirrus. Clafping or Stem-Clafping. Amplexicaulis. Claw. Unguis. Cleft. Fillus. Club-fhaped. Clavatus. Cluftered or Crowded. Confertus. Cobwebbed. Arachnoideus. Coiled. Tortilis, Tortus. Columnar. Teres. Condenfed. Coarctatus. Converging. Connivens. Cotton, nap or flocks. To mentum. Creeping. Repens. Crefcent-shaped. Lunatus. B4 Crofs-

ment on this fubject is not to be expected, nor is it of any great confequence; but I

Crofs-wife. Cruciatim. Curled. Cripus. Dotted. Punclatus. Double. Geminus. Doubled. Duplicatus. Down. Pappus. Drooping. Cernuus. Eared. Auritus. Evergreen. Sempervirens. Eye. Hilum. Flat. Planus. Flatted. Compreffus. Flefhy. Carnofus. Floating. Natans. Flower. Flos. Fringed. Fimbriatus. Funnel-shaped. Infundibuliformis. Furrowed or Grooved. Sulcatus. Gape. Rictus. Gabing, Hians, Gashed. Incisus. Hair. Pilus. Halved. Dimidiatus. Hanging down. Dependens. Head. Capitulum.

Headed. Capitatus. Heaped. Congestus. Heart. Corculum. Helmet, Galea. Hoary. Canus, Incanus. Hollow. Cavus. Hook. Hamus. Horn. Cornu. Jag. Lacinia. Jaws or Throat. Faux. Jointed. Articulatus. Keel. Carina. Knotted. Nodofus. Latticed. Cancellatus. Leaf. Folium. Lip. Labium. Male. Mas. f. Masculus. Manifold. Multiplex. Marrow or pith. Medulla. Mouth. Os. Naked. Nudus. Neck. Collum. Neftling. Nidulans. Nodding, Nutans. Pair. Jugum. Partition. Diffepimentum. Permanent. Perfiftens. Pitcher-

XVI

have fubjoined a lift of doubtful terms, many of which may perhaps be used indifferently at different. The learned will of course

Pitcher-fhaped. Urceola-

tus. Pitted. Locunofus. Plaited. Plicatus. Prickle. Aculeus. Protruded. Exfertus. Punched. Pertufus. Rib. Costa. Root. Radix. Rough. Afper. Runner. Reptans flagellum. Salver-fhaped, Hypocrateriformis. Sap. Succus, Alburnum. Scaly. Squamofus. Scattered. Sparfus. Scored. Exavatus. Seed. Semen. Sheath. Vagina. Shrivelling. Marcefcens. Shrub. Frutex. Sickle-fhaped. Falcatus. Silky. Sericeus.

* Awl-fhaped or Subulate.

Glaber. Smooth. Spur. Calcar. Stalk or Stem. Caulis. Stiff. Rigidus. Stings. Stimuli. Straight. Restus. Sucker. Stolo. Tail. Cauda. Tapered. Attenuatus. Toothed. Dentatus. Tree. Arbor. Twin. Didymus. Twining. Volubilis. Twifted, or Coiled. Tortus, Tortilis, Tortuofus. Veil. Calyptra. Veffels. Vafa. Underschrub. Suffrutex. Wing. Ala. Woody. Lignofus. Wool. Lana. Wrinkled. Rugofus. Writhed. Contortuplicatus.

Bell-shaped or Campanulate. Bitten or Præmorse.

Bladder

manifest a predilection for the Greek or Latin terms, and the English Botanist for the other. Some of our terms approach so near to their original, that they can scarcely be confidered as English *.

Bladder or Veficle. Bliftered or Bullate. Blunt or Obtufe. Border, brim, or limb. Limbus. Bright or Lucid. Bundle or Fafcicle. Clammy or Vifcid. Climbing or Scandent. Coated or Tunicated. Coriaceous or Leathery. Cottony, downy, nappy, or Tomentofe. Cowled of Cucullate. Crenate or Notched. Dagger pointed, or Mucronate. Erect or Upright. Feathered or Plumofe. Gnawed or Erofe. Heart-fhaped or Cordate. Hoofed or Ungulate.

XVIII

Kidney-shaped or Reniform. Kneed, Knee-jointed, or Geniculate. Mule or Hybrid. Ragged or Squarrofe. Rugged or Scabrous. Sabre-fhaped or Acinaciform. Shaggy or Hirfute. Sharp or Acute. Thorn or Spine. Tongue-fhaped or Linguiform. Top-fhaped or Turbinate. Trailing or Procumbent. Warted or Verrucofe. Waved or Undulated. Wedge-shaped or Cuneiform. Wheel fhaped or Rotate. Whorl or Verticil.

* Such as,

Crefted from Criftatus.

Crown from Corona. Entire That we must depart fometimes from the Linnean language I readily allow: but the cafes are rare, and the inftances under each cafe are not many.—Thus, when we have a fignificant English term, which has been in long and general use, it certainly ought to keep its place: but the original terms of the fcience in our language, which have received the fanction of the public, are very few*.— In the case also of very long words, giving too great an air of pedantry to the language, it may perhaps be better to fubstitute English compounds, which may be used with confiderable success the many Latin terms

Entire from Integer. Fork from Furca. Fruit from Fructus. Nut from Nux.

Ray from Radius. Round from Rotundus. Unarmed from Inermis.

* Seed. Leaf. Stalk. Flower. Fruit. Cell for Loculamentum. Partition for Diffepimentum. Seed-veffel for Pericarpium.—See the lifts in the former notes. Grew's terms; as Empalement, Chive, Semet, Pointell, Ovary. Knob or Button, &c. have never met with a general reception.

+ As Bell-fhaped for Campaniformis. Funnel-fhaped for

have already an appropriate fense in English, it avoids confusion to translate them, rather than to use the originals themselves*. So, likewise, when they do not affimilate kindly to our language, the same rule is to be observed \uparrow .

These exceptions being admitted, I hope to be excused for repeating my opinion that the advantage of Botany will most effectually be confulted, by retaining the Linnean terms, whenever there is no cogent reason to the contrary. And I must add, that in order to avoid confusion, the greatest caution is necessary, when we would substitute equivalent terms for the originals ‡.

Many particular observations, confirming the theory here laid down, will be found

for infundibuliformis. Salver-shaped for Hypocrateriformis.

* As in Adverfus, Exasperatus, Strictus.

+ As in Teres, Amplexicaulis, Hirtus.

[‡] As in rendering Deciduus and Caducus by failing; Plumofus by feathery; and Pinnatus by feathered. Diebotomus by forked, &cc.

fcattered

XX

fcattered here and there in the Gloffary. It remains therefore only to express my wish, that the structure and genius of our native language may be attended to, not only in the formation of the terms themselves, but in their terminations and plurals, their compounds and derivatives. Not to detain the reader however any longer, I beg leave to refer him, for this part of the subject, to my Essay in the Linnean Transactions, and to the method which I have purfued in the conduct of this work*.

* That my meaning however may be clearly underftood, I here put down a few inftances to illustrate it. With respect to Plurals, Neclarium should make Nectariums, not Nectaria. Nectary fhould make Nectaries. Pericarpium, Pericarpiums. Corolla, Corollas. Anthera, Stamen, Stamens; not Stamina; which is Antheras. sometimes taken for a fingular, as Stipula is for a plural .- With refpect to Derivatives and Compounds, they ought to follow the analogy of their Roots. Thus, if we adopt the English terms Prickle and Thorn, we must fay Prickly and Thorny, not Aculeate and Spinofe. If for Loculamentum we put Cell, we must use Twocelled, not bilocular. If for Bacca we put Berry, we must write Berry-bearing, not bacciferous. Two-leaved, Many-

The fcientifical mode of arrangement, which Linneus has adopted, and from him most of his followers, has the advantages of elegance and of prefenting kindred terms to the Reader at one view. I have however preferred the alphabetical form for convenience, and becaufe a word that is not underftood is thus most readily detected,-A book of this fort, in order to be perfect, fhould contain a complete scientific arrangement, accompanied by a copious explanatory index or gloffary; fomething in the manner of Mr. Lee's fecond and following editions of his Introduction. But the fcientifical arrangements are already numerous: the tafk of giving one more to the public would have interrupted too much the more important purfuits in which I am at prefent engaged; and my work would have rifen into a bulk too great for the ufe to which I had deftined it.

Many-Leaved will follow leaf. Two-flowered, Manyflowered will follow Flower. Root will have Root leaf, not radical leaf.

This

This Gloffary, fuch as it is, will be found to contain the terms of Linneus's Philosophia Botanica, Termina, Botanici, and Delineatio Plantæ; with the addition of fome which are used in the Species Plantarum and Systema Vegetabilium, but are not explained or even registered in his fundamental or elementary treatifes. They are always accompanied by an explanation in English, and frequently by one in Latin alfo; in order that the unlearned may understand, and the learned judge for themfelves concerning their meaning, where there appears to be any shadow of a difficulty. The derivation of the term is commonly added, where it feems neceffary, or could be given. with any degree of fatisfaction : fometimes a variety of derivations is fet down, with a view of fhewing the uncertainty that we find in this branch of our philological enquiries. Laftly, inftances are subjoined, where they were at hand, of the most known plants, beft adapted to illustrate the terms and their explanations. When the English word differs from the Latin in any thing more than

XXIII

than the termination, both will be found in their proper places, mutually referring to each other; and each frequently accompanied with an explanation in its proper language. I have fometimes hazarded opinions and criticifms, not with any view of dogmatizing, but with the hope of being corrected, or better informed.

That the Reader may know where to apply for information, in cafe he fhould not be fatisfied with what is here fet before him, I fhall conclude this Preface with a Lift of the principal fundamental Treatifes on Botanical Language that have been hitherto publifhed, and have been feen or confulted by me.

Linneus's celebrated elementary work, first published at Stockholm in 1751, is the foundation of all the rest. It is entitled, *Philosophia Botanica*, in qua explicantur Fundamenta Botanica, cum definitionibus partium, exemplis terminorum, observationibus variorum, adjectis figuris æneis. It contains the Institutes

XXIV

tutes of the Science of Botany, and has eleven plates, ten of which are explanatory of leaves, ftalks, fulcres, roots, fructification, &c. There are feveral editions of this valuable book. It was publifhed in the fame year at Amfterdam; at Vienna in 1755, 1763 and 1770; at Berlin in 1779, by Gleditfch; and at the fame place in 1790, by Willdenow *.

A lift of Botanical Terms without explanations, under the title of *Delineatio Plantæ*, was prefixed to the twelfth and thirteenth editions of *Systema Vegetabilium*, 1767 and 1774; and has been continued in the fourteenth edition of the fame work by Murray, 1784; and in the thirteenth edition of *Systema Naturæ*, by Gmelin, in 1791.

This lift is preceded by a general explanation of the principal parts of plants, and

* See Dr. Pulteney's General View of the Writings of Linneus, p. 46-50.

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XXVI

fome circumftances relative to their phyfiology, under the title of Regnum Vegetabile.

But the first appearance of a complete lift of Botanical Terms, accompanied with explanations, and detached from other matter, was in the fixth volume of Amænitates Academicæ, printed in 1764. It is entitled Termini Botanici; and is a thefis read by J. Elmgren, in 1762.—This was reprinted here, with additions, in 1779, by Dr. Rotheram, under the title of Caroli. a Linnè Termini Botanici, definitionibus pluribus aucti; atque Systematis Sexualis Explicatio. Opere Job. Rotheram, jun. M. D. Novicastri, 1779, 12mo.

Dr. Gifeke alfo, of Hamburgh, has printed the fame work, with the addition of other matters, under the title of Termini Botanici Classium Methodi Sexualis Generumque Plantarum CharaEleres Compendios. Recudi cum interpretatione Germanica definitionum Terminorum, curavit Paulus Dietericus Giseke, M. D.

PREFACE. xxvii

M. D. &c.—Editioni buic alteri accesserunt Fragmenta Ordinum Naturalium Linnæi, Nomina Germanica Planeri Generum, Gallica & Anglica Terminorum, & Indices. Hamburgi, 1787, 8vo.

This volume contains Linneus's Freface to his Genera Plantarum-Clavis Systematis Sexualis both in Latin and German, with an explanation of the Claffes-Regnum Vegetabile-Delineatio Plantæ, with explanations from Termini Botanici, and additions. The whole of this is both in Latin and German. -An alphabetical Index of Terms in Latin, French, and English: the last very imperfect, and full of miftakes .--- A German Index -- Part of the fecond contains compendious Characters of Linneus's Genera, fuch as are placed at the head of each Clafs in Systema Vegetabilium, from Murray's edition; with the German names, and a Latin and German Index .- And, Ordines Naturales, from the fixth edition of Linneus's Genera Plantarum; with the new Genera added in their proper places .--- I C 2 have

xxviii PREFACE.

have not feen the first edition of this work. --When I quote Delin. Pl. in the following Glosfary, it is from this book of Gifeke's.

Mr. Hudson has also prefixed Termini Botanici to the second edition of his Flora Anglica, in 1778.—And the Lichfield Society have given it, together with the Regnum Vegetabile and Delineatio Plantæ, in English, at the head of their translation of Linneus's Vegetable System, published in 1783; accompanied with many excellent general philological remarks in the Preface.

The Elements of Botany appeared first in an English dress in the introductions of the late celebrated Mr. Philip Miller, and of Mr. James Lee, nurferyman, at the Vineyard, Hammersmith, in the year 1760. The former annexed to the late editions of his Gardener's Kalendar, was short and imperfect. But the latter contains a full explanation of Linneus's terms. It is entitled

entitled—An Introduction to Botany, Containing an Explanation of the Theory of that Science; extracted from the Works of Dr. Linneus; with twelve copper-plates, two explanatory tables, &c. To the fecond edition of 1765 was added a Gloffary. The fifth and laft edition was published in 1794, 8vo.

This work however not being a tranflation of Linneus's fundamental treatife, Mr. Rofe undertook this talk, which had long been much defired by English Botanists unacquainted with the learned languages. He published it under the title of The Elements of Botany : containing the History of the Science, with accurate Definitions of all the Terms of Art, exemplified in eleven copper-plates; the Theory of Vegetables; the Scientific Arrangement of Plants, and Names used in Botany; Rules concerning the general History, Virtues and Uses of Plants. Being a translation of the Philosophia Botanica, and other treatifes of the celebrated Linneus. To which is added, an Appendix, wherein are described some Plants lately found in C 3. Norfolk

xxix

PREFACE.

XXX

Norfolk and Suffolk, illustrated with three additional copper-plates, all taken from the life. By Hugh Rose, Apothecary, London, 1785, 8vo.

A few years after Mr. Lee's Introduction was published, Dr. Berkenhout gave the Linnean Terms, with an explanation, in the form of a Dictionary, entitled Clavis Anglica Linguæ Botanicæ: or a Botanical Lexicon; in which the Terms of Botany, particularly those occurring in the works of Linneus, and other modern writers, are applied, derived, explained, contrasted and exemplified. By John Berkenhout, M. D. Lond. 1764.

This work probably occafioned the addition of an alphabetical Gloffary to Mr. Lee's Introduction, the year following. The public were fo well fatisfied with Dr. Berkenhout's performance, that a fecond edition of it was printed in 1789.

Dr. Colin Milne alfo is the Author of an elementary book in the fame form, but on a plan PREFACE. xxxi

plan much more extensive, as may be feen from the Title, which runs as follows-A Botanical Dictionary: or Elements of Systematic and Philosophical Botany. Containing Descriptions of the Parts of Plantsan Explanation of the Scientific Terms used by Morifon, Ray, Tournefort, Linneus, and other eminent Botanists-A brief Analysis of the principal Systems in Botany-A critical Enquiry into the Merits and Defects of the Linnean Method of Arrangement, and Diftribution of the Genera-Descriptions of the various Tribes, or natural Families of Plants, their Habit and Structure, Virtues, Senfible Qualities, and æconomical Uses-An impartial Examination of the Doctrine of the Sex of Plants-with a Discussion of several curiou Questions in the Vegetable Oeconomy, connected with Gardening. The whole forming a Complete System of Botanical Knowledge. By Colin Milne, LL. D.-The first edition in 1770; the fecond in 1778; Lond. 8vo.

In the Universal Botanist, &c. published by Richard Wefton, Efq. in 1770, there is C₄ a copious

xxxii PREFACE.

a copious Botanical Gloffary. As there is alfo in the fecond edition of Dr. Withering's Botanical Arrangements, printed in 1792. Mr. Stephen Robfon has prefixed the Principles of Botany to his British Flora, York, 1777, 8vo.

Laftly, there is A Short and Eafy Introduction to Scientific and Philosophic Botany, By Samuel Saunders, Lond. 1792, fmall octavo.—Neatly printed, in a little compass; well adapted to fuch as do not wish to enter into the depths of the Science.

It would carry me too far, were I to attempt enumerating the Elementary Books which have been publifhed in Foreign Countries, and in various Languages. I fhall content myfelf therefore with barely mentioning those which follow:

Geo. Chr. Oeder Elementa Botanica-pars 1. 1764.-pars 2. 1766. Hafn. 8vo.

Joan.

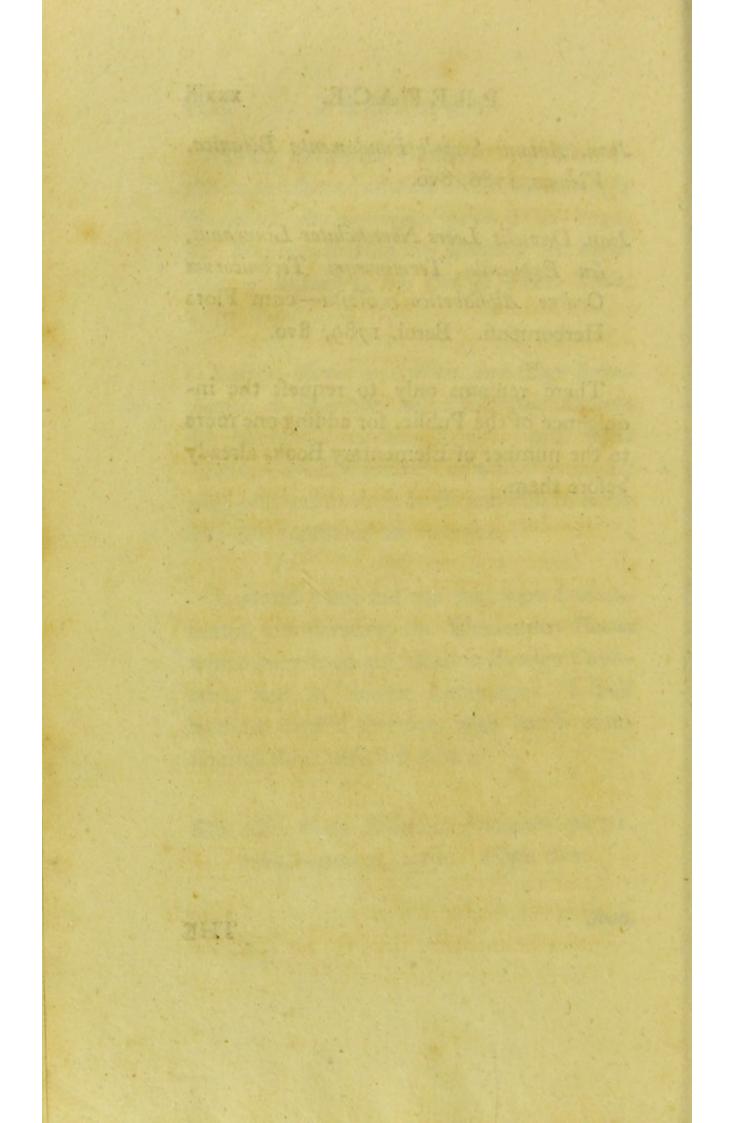
PREFACE. xxxiii

THE

Joan. Antonii Scopoli Fundamenta Botanica, Viennæ, 1786, 8vo.

Joan. Danielis Leers Nomenclator Linneanus, feu Explicatio Terminorum Technicorum Ordine Alphabetico exhibita—cum Flora Herbornenfi. Berol. 1789, 8vo.

There remains only to requeft the indulgence of the Public, for adding one more to the number of Elementary Books already before them.



THE LANGUAGE

BOTANY.

OF

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ABBREVIATED perianth (Abbreviātum perianthium). Shorter than the tube of the corolla: as in Pulmonaria maritima.

ABORTIVE flower (Abortiens flos). Falling off without producing fruit. See Barren.

ABRUPT leaf. A term ufed only in pinnate leaves, which are faid to be abruptly pinnate (abrupte pinnata), when they have neither leaflet (foliolum) nor tendril or clafper (cirrus) at the end.

ACAULIS. Stemlefs; without ftem or ftalk.

ACEROSE leaf (Acerofum folium). Linear and permanent; as in Pine, Fir, Juniper, per, Yew. Lin. Philof. Bot. 42.—In form of a needle, ufually inferted at the bafe into the branch by articulation, as in the cone-bearing trees, p. 219.

ACICULAR (Aciculāris). Shaped like a fmall needle. The trivial name of a fmall fharp-pointed Scirpus.

ACINACIFORM leaf (Folium acinaciforme), Flefhy, compreffed; one edge convex and fharp, the other ftraighter and thicker; refembling a fabre, falchion or fcymitar. As in Mefembryanthemum acinaciforme.

ACINI. Granulations. With.—Linneus appropriates this term to the diftinct component parts of the fruit in Mulberry, Blackberry and Rafpberry. Thefe fruits, with many others, are commonly called Berries; but, not anfwering to Linneus's definition, may have the name of Compound or Spurious Berries. See Berry.

ACINUS is used by Columella in the fame fense with Uva, for a single Grape. It was was alfo applied to the fingle berry of Ivy and others which grow in clufters. Bacca is ufed for the Berry which grows fingly, as Olea or Olive, &c. And Uva is of more extensive fense than Acinus; being put for a bunch of grapes, and even the vine itfelf.

ACOTYLEDONOUS plants (Plantæ acotyledones). Without cotyledons or lobes to the feed; and confequently not having any feminal leaves; as in the clafs Cryptogamia.

The diffinction of Vegetables into Acotyledones. Monocotyledones, Dicotyledones and Polycotyledones; or into fuch as have no lobes, one lobe, two lobes, or feveral, in a feed, has been long made, and is the bafis of Juffieu's Natural Arrangement.

ACULEATUS. Prickly.

Aculeus (a Prickle). Mucro pungens, cortici tantum affixus. Lin. See Prickle.

ACUMINATE or sharp-pointed (Acuminā tus). tus). Ending in a fubulate or awl-fhaped point. Frequent in leaves: in the calyx, as in *Itea*, &c.

ACUTE, fharp. Acūtus. Ending in an acute angle. Applied to leaves: and to the perianth, as in Primula, &c.

ADNATUS. Adnate, Adjoined, Adhering, faftened, fixed or growing to. As the offsets, or fmall bulbs, produced from the main bulb, and clofely adjoining to it; in Narcifus, &c.—The leaf, adhering to the ftem or branch by the furface or difk itfelf.—The petiole.—The ftipule, fixed to the petiole, and oppofed to folutus, loofe, detached; as in Rofe, Bramble, Potentilla, &c.—The Anther.—The ftyle, adhering to the corolla, as in Canna.

Adpressus. See Appressed.

Adscendens. See Ascending.

ADVERSUM folium (an Adverse leaf). The upper fide turned to the fouth.

AEQUALIS

AEQUALIS POLYGAMIA (Equal Polygamy). The name of the first order in the class Syngenefia of Linneus's system, containing those compound flowers, which have all the florets hermaphrodite and alike.

AEQUINOCTIALES Vigiliæ. See Vigiliæ.

ÆSTIVATIO (Æftivation.) The difpofition of the petals within the floral gem or bud. This is, 1. Convolute, when the petals are rolled up like a feroll of paper. 2. Imbricate when they lie over each other like tiles on a roof. 3. Conduplicate, when they are doubled together at the midrib. 4. Valvate or valved (valvata), when as they are about to expand they are placed like the glumes in graffes. 5. Unequallyvalved, when they differ in fize.

AGGREGATE flower (Aggregātus flos, from aggregare, to affemble or collect together). That which has fome part of the fructification common to feveral florets. Or, when feveral florets are fo combined by the intervention of fome part of the fructification, fructification, that taking away one of them deftroys the uniformity of the whole. This common bond is either the Receptacle or the Calyx. The partial or component flower of the aggregate is called a *flofcule* or *floret*.

There are feven kinds of aggregate flowers. 1. Umbellate or Umbelled. 2. Cymofe or Cymed. 3. Compound. 4. Aggregate, properly fo called, having a dilated receptacle, and the florets on peduncles: as Scabious, Knautia, Teafel, Cephalanthus, Globularia, Leucadendron, Protea, Statice, &c. 5. Amentaceous. 6. Glumofe, as the graffes. 7 Spadiceous, as the Palms, alfo Calla, Dracontium, Pothos, Arum, Zoftera.

Hence Aggregatæ is the name of the forty-eighth order of plants, in Linneus's Fragments of a Natural Arrangement, in Philof. Bot. containing fuch vegetables as have their flowers properly aggregate. See Lin. Gen. ed. 6. at the end.

ALA.

ALA. Wing. A membrane on the fides of a petiole or footstalk of a leaf; or attached to a feed or feed-veffel. ALE. The two fide petals of a papilionaceous flower. See Wings. The angle formed by a branch with the stem, or by a leaf with the branch, was formerly expressed by this term; but it is now called the Axilla or Axil; which fee.

Alatus. See Winged.

- ALBUMEN. Ufed by Grew and Gærtner for the fubftance of the lobes of the feed; which corresponds with the white in an egg.
- ALBURNUM. The foft white fubftance in trees, between the *liber* or inner bark and the wood, gradually acquiring folidity, and becoming genuine wood.—Intermedia fubftantia libri & ligni. Lin. Workmen call it the Sap.
- ALGÆ (Flags). The fecond of the feven Families, and the eighth of the nine Tribes or Nations into which Linneus divides all D vegetables.

vegetables. Comprehending fuch as have the root, leaves and ftem all in one: as the Lichens or Liverworts, Fuci or Seaweeds, &c. See Families and Nations, or Gentes.

In Linneus's Artificial Syftem, the Algæ occupy the third order of the clafs Cryptogamia. In his Fragments of a Natural Arrangement, at the end of Genera Plantarum, they make the fifty-feventh fection, and in Philofophia Botanica the fixty-fixth.

ALTERNATE (Alternus) branches, leaves, peduncles or flowers: coming out one after or above another, in a regular fucceffion or gradation. Contrasted with opposite.

Alternately-pinnate leaf. When the leaflets or component leaves are arranged alternately on each fide of the common petiole.

ALVEOLATE (Alveolatum f. favofum) receptacle. Divided into open cells, like an honey-comb, with a feed lodged in each: as in Onopordum.

AMENT (Amentum). Called by others Julus.

lus, Nucamentum, Catulus. In English, Catkin, from the French Châton, on account of its refemblance to a cat's tail .---Amentum; gemmaceum, imbricatum, commune* : f. Inflorescentia, ex receptaculo communi paleaceo gemmaceo +. A species of calyx, or rather of inflorescence, from a common, chaffy, gemmaceous receptacle; or, confifting of many chaffy fcales, ranged along a ftalk as flender as a thread, which is the common receptacle .- In the class Monæcia, the male flowers are frequently thus difpofed; as in hazle, birch, oak, walnut, fedge, &c. alfo in willow, poplar, &c in class Diacia. The ament of the willow in vulgar language is called a Palm.

AMENTACEÆ. The name of the fixteenth order in Linneus's Fragments of a Natural Method, in *Philofophia Botanica*; and of the fiftieth at the end of *Genera Plantarum*: alfo, of a clafs in Tournefort's, Boerhaave's, and Royen's fyftems.

Amentaceous flowers; one species of the Ag-

* Lin. Regn. Veg. † Lin. Philof. Botan. D 2

gregate;

gregate; borne or growing in an ament or catkin

AMPLEXICAULE folium; a Stem-classing leaf, embracing, classing or furrounding the stem by its base. Some leaves go only half round; these are called Semiamplexicaulia.

ANCEPS caulis (an ancipital ftem). Angulis duobus oppositis acutius fculus. Twoedged or double-edged. Flatted, and rather fharp with two opposite angles. This is the common form of the ancipital ftem, but it may have more angles than two; for Linneus gives not only digonus (eaulis) but trigonus, tetragonus, pentagonus, and polygonus, as species of the anceps.

There is also an ancipital leaf, having two prominent longitudinal angles, with a convex difk; as in *Sifyrinchium*.

ANDROGYNOUS plant (Planta androgyna, from any and youn); bearing male and female flowers, on the fame root, without any mixture of hermaphrodites. Such plants plants are to be found chiefly in the class Monæcia.

Androgynous flowers, having stamens or piftils only.

ANGIOSPERMIA. The name of the fecond order in the clafs *Didynamia* of the Linnean fyftem. It is fo called, becaufe the feeds ($\sigma\pi\epsilon\rho\mu\alpha\sigma a$) are enclosed in a veffel ($\alpha\gamma\gamma\sigma\sigma$) or capfule: in opposition to the first order, *Gymnospermia*, which has naked feeds. ANGULAR stem (*Angulātus caulis*). Excavated or grooved longitudinally with more than two hollow angles. Called *triangular*, &c. (trigonus, &c.) according to the number of these angles:—obtuse-angled or acuteangled, from the measure of them.

Leaves alfo, and pericarps, running out into angles, are named *triangular*, &c. from the number of angles.

ANNUAL plant or root; perifhing within the compafs of a year: oppofed to *biennial* or *perennial*. The ftem of herbaceous plants, although the root be permanent, is annual, and thus is diffinguished from that of trees and fhrubs.

D 3

ANOMALOUS,

ANOMALOUS, Irregular. Applied to plant, calyx, corolla, gem or bud, &c. In most of the old fystems we find an anomalous or miscellaneous class.

ANTHER (Av9nea, Anthéra), Apex or Chive of Ray; Capfula ftaminis of Malpighi. Summit, Semet, Pendent, or Tip, of Grew and other Englifh writers.—Pars floris gravida polline, quod matura dimittit : or fæta granulato polline, et boc fovilla. A part of the flower, big with pollen or farina which it emits or explodes when ripe: or, big with granulated pollen, and that with fovilla. Or, it may be defined to be a veffel deftined to produce and emit a fubftance for the impregnation of the germ. It forms a part of the ftamen, and is placed on the top of the filament.

I prefer Anther to Anthera, in Englifh, becaufe we thus avoid any diffention between the learned and unlearned refpecting the pronunciation of the penultima, and the formation of the plural.

There is generally one anther to each filament : ment: in Cucurbita, however, there is one to three; and in the clafs Syngenefia, one to five filaments. In Mercurialis we find two, in Fumaria three, anthers to a filament; in Bryonia, five to three filaments; in Theobroma, five to each. In fome flowers anthers are regularly wanting on one or more of the filaments; as in Chelone and Martynia, one—in Pinguicula and Verbena, two—in Gratiola, Bignonia, and fome Geraniums, three—in Curcuma, four —in Pentapetes and other Geraniums, five. Thefe are called barren filaments.

Anthers are connected

By the bafe, in most flowers. By the top, in *Colchicum*. By the fide, in *Canna*, *Amomum*. By the nectary, in *Costus*.

Their situation is

On the top of the filaments, in moft flowers.
On the fide, in *Paris* and *Afarum*.
On the piftil, in *Ariftolochia*.
On the receptacle, in *Arum*, *Annona*.

D 4

They

They burft

On the fide, in Leucoium, and most flowers.

At the top, in Galanthus and Kiggelaria. From the bafe upwards, in Epimedium and Leontice.

They are

Distinct, separate, not cohering. Globularia.

Connate, coalescent, united. Solanum, Syngenefia.

Twin (didymæ), fwelling outwards with two knots. Boerhaavia, Salicornia, Blitum, Ammaunia, Potamogeton.

Upright, pointing upwards. Salicornia, Ligustrum, Olea, Chionanthus, Verbafcum, Tulipa.

Incumbent, horizontal, and then verfatile, being fixed only in the middle fo as to move freely. *Gladiolus*, *Globularia*, *Dipfacus*, *Scabiofa*, *Paffiflora*.

Exfert, or ftanding out or beyond the corolla, in fome fpecies of *Erica*.
Included, or enclofed within it. Jafminum, Syringa, Primula.

Awned,

Awned, ending in an awn, in fome fpecies of Erica.

Horned (bicornes), cloven at the tip, and the clefts fpreading like horns, in fome fpecies of Erica, Andromeda, Pyrola.Crefted, terminating in a creft, in fome fpecies of Erica.

Their figure is

Oblong, in Lilium, Graffes. Globular, in Mercurialis.

Sagittate, or fhaped like the head of an arrow, in Crocus, Nolana, Soldanella, Dodecatheon, Nerium, Linum, Bromelia. Angular, in Tulip.

Horned, in Hamamelis, Erica, Vaccinium, Pyrola.

Forked (bifurcatæ), in most Graffes.
Linear, in Heliocarpus, Stapelia, Canna, Protea, Coffea, Liriodendrum, Magnolia.
Subulate, or awl-schaped, in Roella, Cornus.
Lanceolate, or schaped like the head of a spear, in Bankfia.

Haftate, or shaped like the head of a halbert, in Jacquinia.

Cordate, or heart-shaped, in Capraria, Tinus, Bucida, Malpighia, Thea.

Reniform,

Reniform, or kidney-shaped, in Ginora, Tradescantia, and the class Monadelphia. Ovate, or egg-fhaped, in Limeum, Gladiolus, Commelina, Convolvulus. Three-cornered (trigona), in Rofa. Four-cornered (tetragona), in Cannabis, Populus, Dictamnus, Cestrum, Arum, Cannabis. Lunular, or fhaped like a crefcent, in Fragaria, Comarum. Spiral, or twifted like a fcrew. Chironia. They have only One cell, in Mercurialis. Two cells, in Epimedium, Afclepias, Daphne, Helleborus. Three cells, in Orchis. Four cells, in Fritillaria, Tropæolum, Pæonia. Salix.

APETALOUS flower (Apetălus flos): without any corolla. Called by other writers Stamineous, Incomplete, Imperfect. Of fuch, a class is formed in feveral systems.

APEX; the tip fummit or end. When applied to leaves, it is the upper extremity, fartheft from the bafe or infertion.—Ray calls the Anther by this name.

APHYLLOUS

APHYLLOUS (Aphyllus); leaflefs, deftitute of leaves: applied to the ftem, and opposed to foliatus, leafy.

APOPHYSIS. A procefs or excretcence from the receptacle of moffes.

APPENDICULATE, Appendicled, or Appendaged, (*Appendiculātus*). Ramentis foliaceis ad basin. This term is applied to a petiole, when it has a fmall leaf or leaves at the bafe.

APPRESSED(Appressus or Adpressus), preffed or fqueezed clofe. Contiguous or laid to, With. Applied to a leaf, when the difk approaches fo near to the ftem, as to feem as if it had been preffed to it by violence: alfo to a calyx, when it is clofe to the peduncle—and to a peduncle, when it is clofe to the branch or ftem.

APPROXIMATING leaves. Growing very near each other. Opposed to remote. With reference to the stem, growing almost upright.

AQUATIC

AQUATIC plants. Growing in or neaf water.

ARACHNOIDEUS, Cobwebbed. Covered with a thick interwoven pubefcence, refembling a cobweb. Leaf, peduncle, calyx.

ARBOREOUS (Arboreus) ftem. Single, woody and permanent; as the trunk or bole of a tree. Oppofed to fhrubby, underfhrubby and herbaceous.

ARBORESCENT (Arborefcens) ftem. From herbaceous becoming woody.

ARBUSTIVA (from Arbuftum, a fhrub). The name of the thirty-ninth order, in Linneus's Fragments of a Natural Arrangement, in Philosophia Botanica. The fame with Hesperideæ, in his Genera Plantarum n. 19:

ARCHED (Fornicātus). As the upper petal of the Aconite, and the upper lip of fome ringent flowers. See Vaulted. It fhould feem that either term might be adopted indifferently.

ARCUATUS,

ARCUATUS, Bowed. Bent like a bow. See Bowed.

ARIL (Arillus). The outer coat of a feed falling off fpontaneoufly: or, inclofing the feed partially (interdum includit partialiter femen. Reg. Veg). As in Coffea, Jafminum, Cynoglossum, Cucumis, Dictamnus, Diofma, Celastrus, Euonymus. Scopoli has diftinguished fuch fruits by the name of Theca.

ARISTA and Aristatus. See Awn and Awned.

ARMS (Arma). Mucrones arcentes animalia, ne lædant plantam. Thorns, prickles, and ftings, with which plants are furnished for their defence. Enumerated among the Fulcres. See Fulcrum, Prickle, Stings, Thorn.

ARROW-SHAPED leaf, anther, ftipule. See Sagittatum.

ARTICULATUS, Jointed. Articulata radix, geniculis intercepta. Articulatus truncus, internodiis internodiis geniculatus. Articulatum folium, folio ex apice folii excrefcente. Delin. Plantæ. See Jointed.

Articulate-pinnatum. See Pinnatum.

ARTICULUS. Joint. Culmi pars geniculis duobus interjecta. See Joint.

Artificial Clafs and System. See Clafs.

ASCENDING (Afcendens v. Adfcendens). From a horizontal direction gradually curved or bowed upwards. As the ftems of many plants; the leaf; the peduncle; the banner of papilionaceous flowers; the filaments; and the ftyle.

ASPARAGUS. The first tender sprout, or young shoot of an herb from the ground, before any leaves unfold themselves. *Ray*.

ASPER, Rough with hairs.

Said, in *Philof. Bot.* and *Delin. Plantæ*, to be the fame with *Scaber*, rugged; but it feems to be a term of more extensivefignification than that. See *Scaber*, and *Rugged. Exafperatus*, roughened. ASPERIFOLIÆ (Rough-leaved). The name of the 43d order in Linneus's Fragmenta, and of the 41ft in his Ordines Naturales. Ray and others have the fame natural order.

Assungens petiolus. Affurgentia folia. Arcuatim erecta, primum declinata, dein apice erecta. Rifing up in a curve, decling at the bafe, but upright at the tip. A rifing petiole—rifing leaves.

ATTENUATUS pedunculus, fcapus. Attenuated, tapered or tapering. Becoming gradually fmaller towards the flower. Oppofed to *incraffated* or *thickening*. Attenuatum folium, a leaf tapering towards one or both extremities.

Aucrus (increased) calyx. See Calyculate.

AVENIUM folium. A veinless leaf, without perceptible veins.

Auriculatus and Auritus. See Eared.

AWL-SHAPED. See Subulatus. I cannot approve of Awled.

AWN

Awn (Arifta). A flender fharp process iffuing from the glume or chaff, in corn and graffes. It is commonly called in English the Beard, but this term is otherwise applied. See Beard.

The Awn is either

Terminating, fixed to the top of the glume; or

Dorfal, placed on the back or outlide of it. It is alfo

Straight.

Geniculate, or bent like the knee joint. Recurved, or bowed back.

Twifted (tortilis), or coiled like a rope. The Anther fometimes terminates in an awn.

AWNED (Aristatus). Having an awn. As the glume and anther.

AWNLESS (Muticus). Having no awn; oppofed to awned. As in the glume of Agrostis and Aira; the calyx of Serratula; the feeds of Adonis, &c. An awn, however, is faid to be mutica when it is not sharp-pointed; acumine destituta.

Axe-form. See Dolabriform.

AXIL

Ax1L or Axilla. The angle formed by a branch with the ftem, or by a leaf with the branch. So named from its fimilarity to the armpit. Some old writers call it Ala, but this term is otherwife appropriated.

AXILLARY leaves. Growing at the angles formed by the branches with the ftem; or, inferted at the bafe of the branch. Axillary peduncle, fcape, cirrus or tendril, and thorn; proceeding from the axils, or from the bofom of the leaves or branches.

B

BACCA, a Berry : which fee.

Bacciferous. Berry-bearing.

BAG. See Folliculus.

BANNER or Standard (Vexillum). The upper petal of a papilionaceous corolla.

BARB (Γλωχις, Glochis). A ftraight pro-E cefs, cefs, armed with feveral teeth pointing backwards, like the fting of a bee. This is one fort of pubefcence in plants; and is diftinguished from the hook (bamus) by the point not being bent.

Barba. See Beard.

Barbatus. See Bearded.

BARE. See Naked.

- BARK. The fkin or outer covering of a plant. This is threefold.—1. The cuticle, *Epidermis.* 2. The outer bark, *Cortex.*3. The inner bark, *Liber.*
- BARREN (Sterilis) flower. Not capable of bearing feed, which the abortient flower might have done in favourable circumftances.
- BAY colour, from the Greek Baioç, the fpadix of the Palm; whence it is called *Spadiceus* in Latin.

BEAKED (Rostrātus). Terminated by a process, shaped like the beak (rostrum) of of a bird, applied to fruits. See Roftratus.

BEARD (Barba). In publicence, parallel hairs; or a tuft of ftiff hairs terminating the leaves, as in Mefembryanthemum barbatum.—Rivinus and others give this name to the lower lip of a ringent corolla.—In common language the awn is called the beard.

- BEARDED (Barbātus). Having parallel hairs, or tufts of hairs. Applied to leaves —to the corolla, as in Dianthus barbatus, Gentiana campeftris—and to the nectary, as in Iris.
- BEARDLESS (Imberbis). Void of parallel hairs or tufts. As the corolla in fome species of Iris, Gentiana filiformis, &c.

BELL-SHAPED, Bell-form, or Campanulate corolla (Campanulāta). Swelling or bellying out, without any tube, as in Campanula, Convolvulus, Atropa, Gentiana, &c.—This term is applied pro-E 2 perly perly to monopetalous corollas only, although it be fometimes extended to fuch as are polypetalous.—Calyxes, as in *Chironia*; and *Nectariums*, as in *Narciffus*, are alfo bell-fhaped. Tournefort has a clafs of *Campanulate* or Bell-fhaped flowers.

I cannot approve the use of the term bell'd.

BELLYING or Bellied (Ventricofus). Swelling out in the middle. Applied to the fpike—to the perianth, as in Æfculus to the corolla, as in Digitalis. If any one fhould object to this term as vulgar, he may use the word Ventricose instead of it; but I do not see why Botanists may not speak of a bellying corolla, with as much delicacy as Poets of bellying fails.

BERRY (Bacca). A fucculent or pulpy pericarp or fruit, without valves, containing naked feeds. Thefe are fometimes difperfed loofe among the pulp (nipulantia), as in Nymphæa; but they are are generally placed on receptacles, as in Currant, Goofeberry, &c.

Many fruits, having the appearance of Berries, but not corresponding with the definition, are improperly so called—as *Xanthium*, *Capficum*, *Rhus* or *Sumach*, *Cyclamen*, *Mespilus*, *Citrus* or *Orange* and *Lemon*, *Taxus* or *Yew*, *Bromelia* or *Pine-apple*.

Such alfo as are formed by any part except the pericarp are improperly called Berries—as a large fucculent calyx, in Mulberry, Rofe, Blite, myrtle-leaved Sumach (Rhus Coriaria)—the receptacle, in Strawberry and Cashew-nut—the nectary, in Marvel of Peru—the tube of the corolla, in Poterium and Sanguisorba.

Such fruits as Mulberry, Rafpberry and Blackberry, being ufually regarded as berries, might very well be called Compound Berries, each of the component parts, which are called Acini, being a fmall berry, containing one feed immerfed in the pulp. See Acinus. BICAPSULAR (bicapfulāre) pericarp. Having two capfules containing feeds, to each flower. As in *Pæonia*.

- BICORNES (two-horned). Plants with anthers having two horns. The name of the twenty-fourth order, in Linneus's Fragments of a Natural Arrangement.
- BIENNIAL (Biennis) root. Enduring two years, and then perifhing. In biennial plants a root and leaves are formed during the first year, and in the second the fructification is completed.
- BIFARIOUS leaves (Bifāria folia). Pointing two ways; or, coming out only on opposite fides of a branch.

Bifarioufly bairy, ftem or branch. When the hairs between any two joints come out on the front and back; and in the two adjoining internodes, on the right and left fides.

BIFEROUS plants. Bearing twice in a year. Common Common in hot climates .-. " Biferique rofaria Pasti." Virg.

BIFID, two-cleft, or cloven. Leaf-Perianth, as in Utricularia-Stigma.

See Cleft.

BIFLOROUS peduncle (pedunculus biflorus). Two-flowered, or bearing two flowers.

- BIGEMINATE leaf (folium bigeminum). Twin-fork. With. A decompound leaf, having a dichotomous or forked petiole, with feveral folioles or leaflets at the end of each division. Bigemina folia, petiolo dichotomo apice annectent foliola plura.
- BIJUGOUS leaf (folium bijŭgum). A pinnate leaf having two pairs of leaflets.
- BILABIATE or two-lipped corolla (bilabiāta corolla). As in Pinguicula, and the class Didynamia. See Labiate.

BILAMELLATE stigma (stigma bilamellatum). The form of a flatted sphere, E 4 lonlongitudinally bifid. Globus compressus & longitudinaliter bifidus.

BILOBATE leaf (folium bilobum). Divided into two lobes. See Lobus and Lobatum.

- BILOCULAR pericarp (biloculare pericarpium); or more properly two-celled; divided into two cells internally; as in Hyofcyamus, Sinapis, Nicotiana, &c Some feeds are alfo two-celled, as in Cornus, Xanthium, Valeriana Locusta, Cordia.
- BINA folia. Two-fold leaves; or rather coming out two and two together, from the fame place, or at the fame joint of a branch.
- BINATE leaf (binātum folium); digitatum foliolis duobus terminatum. Having a fimple petiole connecting two leaflets at the top of it: a fpecies of digitate leaf, which fee. Binati pedunculi, Peduncles growing in pairs; as in Capraria, and Oldenlandia zeylanica.

BIPAR-

BIPARTIBILE. Bipartile. Divisible into two: as the fruit of umbellate plants into two feeds.

BIPARTITE, leaf, perianth, corolla. Divided into two parts to the bafe. See Partitum.

BIPINNATE, or doubly-winged, Leaf or Frond. When the common petiole has pinnate leaves on each fide of it: as in Athamanta Libanotis, Anemone Pulfatilla, &c. and many of the Ferns.

BIPINNATIFID, or doubly-pinnatifid, Leaf, When the common petiole has pinnatifid leaves on each fide of it. See *Pinnatifidum*.

BITERNATE or doubly-ternate Leaf. When a petiole has three ternate leaflets. As in Epimedium.

Bitten root, leaf, corolla. See Præmorfus.

BIVALVE, or two-valved, Pericarp. In which the covering, or feed-cafe, fplits into two parts, parts, as in *Chelidonium*, all the *Siliques* and *Legumes*.—The glume or chaff, which is the calyx and corolla of corn and graffes, is generally bivalve, or confifting of two pieces.

BLADDER (Vesicula). A diftended membranaceous pericarp; as in Colutea. See Vesicularis.

Blistered. See Bullate.

- Blosson, in common language, is the corolla of fruit-trees. Dr. Withering makes it the English term for corolla.
- BLUNT, or Obtufe, Leaf, Perianth, Capfule. Ending in a fegment lefs than that of a circle. Oppofed to fharp or acute.
- BOAT-SHAPED, Navicular or Cymbiform; as the valve of fome pericarps, and the carina of papilionaceous flowers. Hollowed and refembling a boat in fhape. See Navicularis.

Bole, the naked trunk of a tree.

BORDER

BORDER or Brim (Limbus). The upper fpreading part of a monopetalous or onepetalled corolla. See Limbus.

BOTANY (from Bolown, an herb or plant). That branch of Natural Hiftory which treats of Vegetables.

"Botanicus est ille, qui Vegetabilia similia similibus, et distincta distinctis nominibus, cuicunque intelligibilibus, noscit nominare." Lin.

BOUGH. A fubdivision of the trunk, in a tree. See Branch, which is of a more extensive fignification.

Bowed (arcuatus). Bent like a bow. Applied to frond, filament, anther, legume. *Flexus*, with its derivatives, fignifies bent at an angle.

Bowed in (incurvus) is perhaps better expressed, curved inwards: and inflexus, bent inwards.

BRACHIATE (Brachiatus caulis), (from Brachium, Brachium, the arm). Having branches (ftretched out like arms) in pairs, decuffated, all nearly horizontal, and each pair at right angles with the next. See Decuffated.

BRACTEA, Bracte, or Floral leaf. "Se-"quentis anni folia. Delin. Pl.—Bractea "florum, ad florum pedunculorumve bafin, "foliacea." One of the ieven fulcres or props of plants. A leaf different from the other leaves in fhape and colour, generally fituated on the peduncle, and often fo near the corolla as eafily to be miftaken for the calyx, as in Hellebare, Nigella, Pafion-flower, Hepatica, Peganum. The calyx however withers when the fruit is ripe, if not before; whereas the bracte is generally more permanent.

Bractes are either green or coloured. Deciduous—Caducous—or Permanent.— One, two or more.

Instances of remarkable Bractes may be observed in Lime-tree, Melampyrum, Monarda, Monarda, Salvia, Lavandula, Bartfid Hebenstreitia, Mussanda, Fumaria. See Coma.

It feems better to preferve the term *Bractea* or *Bracte*, than to tranflate it: for Linneus frequently calls leaves which are near the flower, *Eloral leaves*, when they differ from the other leaves, though they are not properly Bractes. *Bracteæ* is by no means an English plural.

- BRACTED (bracteātus). Furnished with bractes; as the Peduncle, and Verticil or whorl.
- BRANCH (Ramus). A division of the main ftem, supporting the leaves and fructification.
- BRANCHED or Branching (Ramofus). Furnished with lateral divisions. Opposed to simple. Applied to the root, as in Urtica—to the stem; and to bristles.

When a plant is loaded with many branches, coming forth without order, it is faid to be very branching (ramofilfima). When When it has only a few lateral divisions, it is faid to be *fubramofe*.

BRANCH-LEAVES (Ramea folia). Leaves growing on the branches.

BRANCHLET (Ramülus), dimin. of Branch. A fubdivision of a branch; a twig.

BRANCH-PEDUNCLE (rameus pedunculus). A peduncle fpringing from a branch.

BRIGHT (lucidum) leaf. See Lucidum.

BRISTLE (Seta). A fpecies of pubefcence, in form of a ftiff roundifh hair; on the ftems, branches, leaves, flowers or fruits: fometimes covering almost the whole furface of plants.

Briftles are either fimple or hooked. Branched, feathered (plumofæ), and stellate or rayed (stellatæ).

BRISTLE-SHAPED: of the thicknefs and length of a briftle; applied to the ftructure of a leaf (folium fetaceum); fhorter therefore than a capillary leaf.

BRISTLY

BRISTLY (*fetofum*), fet with briftles: as fome receptacles, which have briftles interpofed between the florets. In Cynara or Artichoke, Centaurea, Echinops.

BUD or Gem (Gemma). A hybernacle, or winter receptacle of leaves and flowers on the ftem or branches; or, as Linneus expression it, on the afcending caudex. It contifts of ftipules, or petioles, or the rudiments of future leaves, or cortical fcales.—Hence Buds are called Stipular, Petiolar and Cortical.

Most plants in cold countries, but fcarcely any in hot climates, have buds.

A Bud is

- 1. Leaf bearing (foliaris): as in Alder.
- 2. Leaf and flower-bearing diftinct : as in Poplar, Willow, Afh.
- 3. Leaf and female-flower-bearing: as in Hazel and Hornbeam.
- 4. Leaf and male-flower-bearing : as in *Pine* and *Fir.*

5. Leaf

- 5. Leaf and hermaphrodite-flower-bear ing (floralis) : as in Daphne, Ulmus, Cornus, Amygdalus.
- 6. Leaf and flower-bearing together (communis): as in most trees.

See Læfling. Diff. de Gemmis, in Amæn: Acad.

BULB (Bulbus). A hybernacle, or winter receptacle of a plant, composed of the bases of past leaves, and placed immediately upon the root. It is vulgarly confidered as a root; and was called fo by Botanists till Linneus corrected the error, and shewed that it was a fingle bud, enveloping the whole plant.

A Bulb is, 1. Scaly (Jquamatus), as in Lily. 2. Solid, as in Tulip. 3. Coated (tunicatus), as in Onion. 4. Jointed, as in Lathræa, Martynia, Adoxa.

Some flowers are fucceeded by Bulbs inftead of feeds: as in *Allium*. The ftem, in this cafe, is call *Bulbiferous* or Bulbbearing.

BULBOUS

BULBOUS plants (Bulbofæ). Growing from bulbs. The title of a Clafs in Cæfalpinus, Ray, and other fyftematic writers.

Roots that are folid and roundifh, like true bulbs, are alfo called Bulbous; as in *Turnep*, *Ranunculus bulbofus*, &c.

BULLATE leaf (folium bullātum). When the fubftance rifes high above the veins, fo as to appear like blifters. It is only a greater degree of the wrinkled leaf (fol. rugofum).

BUNCH. See Racemus.

BUNDLE or Fascicle (Fasciculus). Several roots, leaves or flowers collected together, or proceeding from the same point.

A root in bundles (radix fascicularis) is a fort of tuberous root, with the tubers or knobs collected in bundles: as in Pæonia.

Leaves are fasciculate (folia fasciculata), F or grow in bundles or bunches, in the Larch.

In the fructification, Linneus explains a bundle *(fafciculus)* to be a fpecies of inflorescence, collecting upright, parallel, fastigiate-approximating flowers.

BURR (Echinus). A prickly pericarp.

BUTTERFLY-SHAPED Corolla. See Papilionacea.

C

CADUCOUS (Cadūcus, from cado, to fall). Falling off quickly. Applied to ftipules and bractes; to leaves that fall before the end of the fummer (brevi decidentia, nec per integram æstatem permanentia. Delin. Pl.)—to calyxes and petals falling before the corolla is well unfolded.—Papaver and Epimedium are instances of the caducous calyx Astaa and Thalictrum, of caducous petals.— This This term is different from deciduous; which fee.

CALAMARIÆ (from Calămus, a reed). The thirteenth order in Linneus's Fragments of a Natural Arrangement, in *Philofophia Botanica*; and the third of the Natural Orders, at the end of *Genera Plantarum*. It contains the Sedges, and other plants, allied to the Graffes.

CALCAR corollæ. Est ejus dem basis productio coniformis. See Spur.

CALCARATUS calyx; a Calcarate calyx, as in Tropæolum. Calcarata corolla: a calcarate corolla, as in Lark/pur, &c. Furnifhed with a fpur. Calcaratum nectarium; a calcarate or fpur fhaped nectary In fhape refembling a cock's fpur, as in Lark/pur, Antirrbinum, Valerian, Pinguicula, Utricularia. See Spur.

CALYCANTHEMI. The fortieth order in Linneus's Fragments of a Natural Arrangement.

F2

CALY-

CALYCINF. Of or on the calyx: as calycine fcales—calycine thorns.

- CALYCLE (Calyculus). A row of fmall leaflets placed at the bafe of the calyx, on the outfide.—Calycle of the feed is the outer proper covering or crown of the feed, adhering to it, in order to facilitate its difperfion. This word is evidently a diminutive of Calyx.
- CALYCULATE or Calycled (Calyculatus f. Auctus). A calyx having a calycle or little cup at the bafe, on the outfide : as in Dianthus, Coreopfis, Bidens, Crepis, Chondrilla, Prenanthes, Hedypnois, Lapfana.
- CALYPTRA, Calyptre, or veil (from xalum)a, to cover). The calyx of moffes, covering the anther like a hood, according to Linneus: but not properly a calyx; and the part which he calls the anther, is in fact a capfule.—Old authors ufed this term for what Linneus calls the *arillus*; and in this fenfe *Euonymus* is faid to be calyptred,

tred, calyptrate or veiled; having a loofe covering over the pericarp.

CALYX (Radut from Radunda, not radit a cup). The outer covering of the flower, or the first of the seven parts of fructification, formed, according to Linneus, of the cortex or outer bark. In another place he explains it to be, the cortex or outer bark prefent in the fructification .---Tegmentum exterius floris e cortice. Regn. Veget. Cortex plantæ in fructificatione præsens. Delin. Pl. This term includes not only the Perianth, which is often exclufively called the Calyx; but alfo the Involucre, Ament, Spathe, Glume, Calyptre, and Volva; and therefore is of a much more extensive fignification than Perianthium. The Calyx is frequently called Empalement and Flower-cup by English writers. With respect to the latter of thefe names I have obferved, that Calyx is not derived from xalit a cup; and, if it be admitted at all, fhould be confined to what we call the Perianth-which fee.

F 3

CAM-

CAMPANACEI (Campāna, a bell.) The thirty-fecond order in the Fragments of a Natural Method, by Linneus: containing plants with bell-fhaped flowers.

CAMPANULATA corolla. From campanŭla (dimin. of campana) a little bell. See Bell-fhaped.—Campanulatus calyx, a bellfhaped calyx—Campanulatum nectarium, a bell-fhaped nectary.

CANALICULATUM folium (dimin. from canālis a canal or channel). Supra fulco profundo longitudinaliter excavatum. See Channelled.

CANCELLATUS (Cancelli, trellis or lattice work). See Latticed.

CANDELARES (Candela, a candle). The fixty-fecond order in Linneus's Fragments of a Natural Method.

CAPILLARES. The name for the class of *Ferns*, in the Systems of Morison, Ray, and Boerhaave.

CAPIL-

CAPILLARY (Capillaceus f. Capillaris, from Capillus, a hair.) Long and fine, like a hair -Applied to leaves, that are longer than the fetaceous or briftle-fhaped leaf; as in Ranunculus aquatilis, Artemifia capillaris .- To glands, refembling hairs; as in Ribes, Scropbularia, Cerastium, Silene. -To the filaments; as in Dipfacus, the Graffes, &c .- To the ftyle-And to the pappus or down, affixed to fome feeds; as in Sonchus, Lactuca, Chondrilla, Prenanthes, Leontodon, Hieracium, Crepis, Andryala, Carduus, Onopordum. This is by fome called *pilofus*; and is opposed to plumofus or feathered. Ray calls the ftamens, capillamenta.

CAPILLUS (a hair). Is fometimes put for a meafure; the diameter of a hair, or the twelfth part of a line.

CAPITATÆ (Caput, a head). The fecond division of the twenty-first order (Compositi Capitati) in Linneus's Fragments of a Natural Method, in Philosophia Botanica; and the first division of the forty-F 4 ninth ninth order in the Ordines Naturales, at the end of Genera Plantarum (Compositæ Capitatæ). Also the fecond division of the first order, in the class Syngenessia, in his Artificial System: and the ninth class in Ray's Method. It contains the this sand other plants with compound flowers, growing in a head.

CAPITATUS. Capitate, growing in a head. See Head.—Applied to flower (capitatus flos) and ftigma (capitatum stigma).

CAPITULUM (dimin from caput). Constat floribus plurimis in globum ferme congestis: Gomphrena. See Head.

CAPREOLUS (dimin. from caprea; or a capiendo). See Cirrus and Tendril.

CAPSULE (Capsŭla, a little cheft or cafket). Pericarpium cavum determinate debifcens. Delin. Pl. & Philof. Bot.—Membranacea, valvis debifcens varie in variis. Regn. Veg.—A membranaceous hollow pericarp, opening in fome determinate manner or, or, differently in different plants. The parts of which a capfule is composed, are—1. The Valves or outer covering (valvulæ). 2. The Partitions (diffepimenta). 3. The Columella or central pillar. 4. The Cells (loculamenta). See all these terms explained in their proper places. Instances of capfules may be obferved in Tulip, Crown Imperial, Iris, Poppy, &c. &c.

Capfules are diffinguished from the number of their valves and cells. Thus we fay, a five-valved capfule, or a capfule of five valves: a two-celled capfule, or a capfule of two cells. Bilocular, is not fo proper, because we translate *loculamentum* by the term cell.

Some flowers are fucceeded by more capfules than one: fuch fruits are called bicapfular, two-capfuled, or fruits of two capfules, &c. according to the number fucceeding to each flower.

Capfules are twin or double (didymæ) —dicoccous, or two-grained—tricoccous, or threethree-grained. — Jointed (articulatæ). — Ciroumfeiffæ, opening in the middle tranfverfely into two hemifpheres. Elastic, or opening with a fudden fpring. Inflated, or puffed up like a blown bladder.

CARINA. The lower petal of a papilionaceous corolla. See Keel.

CARINATED. Calyx carinatus, a keeled calyx. Folium & nectarium carinatum, a keeled leaf, and nectary. Having a longitudinal prominency upon the back, like the keel of a veffel.

CARNOSUM folium. A Fleshy leaf. See Fleshy.

CARTILAGINOUS leaf (Cartilagineum folium). Having the edge ftrengthened by a tough rim of a fubftance very different from the difk—margine fuboffeo.

CARYOPHYLLÆUS flos—caryophyllæa corolla. Refembling that of a fingle pink or carnation (Caryophyllus); having five regular petals, ending at bottom in a long, narrow narrow claw. This is a term ufed by Tournefort: but hence Linneus has conftituted an order of plants, called Caryophyllaæ, in his Fragments of a Natural Method, and his Natural Orders.

CASTRATA stamina f. filamenta. Without anthers: as in fome species of Geranium.

CATKIN and Catulus. See Ament.

CAUDA, See Tail.

t comprehends t

CAUDEX (from cædo, to cut down). The ftem or trunk of a tree. According to Linneus, when a feed germinates, the defcending ftem (caudex defcendens) terminates in roots; the afcending ftem (caudex afcendens), in branches and leaves.-

CAULESCENT plant (planta caulescens). Having a stem different from that which produces the flower. Opposed to Acaulis or Stemless. Linneus applies this term to the the root also: as in cabbage, navew and turnep.

CAULINE leaf. Growing immediately on the ftem, without the intervention of branches. Applied alfo to the bulb, peduncle and fcape. Caulinus bulbus, pedunculus, fcapus—caulinum folium.

CAULIS (xaullog). But the fignification of the Greek word is more extensive than that of the Latin, for it comprehends the trunk of a tree, whereas the Latin term is confined to the stalk of herbs only. Our English Kale, and Cole (in Colewort and Colefeed), come from caulis, as well as Cauliflower vulgarly Collyflower : but immediately from the Low-Dutch Kool, See Stem.

CELL (Loculamentum). The holiow part of a pericarp, and particularly of a capfule in which the feeds are lodged.— According to the number of these, pericarps are called one-celled, two-celled, &c.

CERNUUS

CERNUUS (q. qui terram cernat) flos f. pedunculus. Apice terram spectans.—Cum apice incurvatur, ut flos versus latus alterum vel terram nutet; nec poterit erectus attolli ob curvaturam strictam pedunculi. It may be translated drooping, and must be distinguished from Nutans, nodding. See these words.

CESPITOSA planta (Cespes, turf). Cum multi caules ex eadem radice prodeunt.—A cefpitose or turfy plant, has many stems from the same root, usually forming a close thick carpet, or matted together.

CHAFF (Palea). The dry calyx of corn and graffes, in common language; by Linneus called Gluma. See Gluma. Alfo,

A dry membranaceous body interpofed between two florets, in some of the class Syngenefia.

CHAFFY receptacle; paleaceum receptaculum. In which the florets are divided by interposed chaffs or scales. As in Dipscar, Jacus, Scabiofa, Hypochæris, Catananche, Arctium, Onopordum, Serratula, Bidens, Santolina, Athanasia, Xeranthemum, Zinnia, Anthemis, Achillea, Verbesina, Sigesbeckia, Buphthalmum, Helianthus, Rudbeckia, Coreops, Silphium.

CHANNELLED (canaliculatus). Hollowed above with a deep longitudinal groove; convex underneath. Applied to the ftem, leaf, and petiole.

CHARACTER. The peculiar circumftance or circumftances that diftinguifh a vegetable, or a fet of vegetables, from all others. Characters are Specifical, Generical, or Classical—Effential, Natural, or Artificial. See Class, Genus, Species: Effential, Factitious, Natural.

CHINKED (Rimofus). Applied to the outer bark of trees, effectially old ones.

CHIVE. Put by fome English writers for Stamen.

CICA-

Jacas,

CICATRISATUS truncus f. caulis. A fcarred ftem. Marked with the remains of leaves that have fallen off.

CILIATUM folium. A ciliate leaf (from ciliæ, the eye-lashes). The edge guarded by parallel briftles longitudinally: as in Drofera, Crasfula coccinea & cymosa, Erica tetralix & ciliaris, &c.—It is applied also to the Stipule—the Spike—and the Corolla; as in Ruc, Menyanthes, Tropæolum.

This term is frequently but improperly translated *Fringed*, which answers to the Latin *Fimbriatus*. See these words.

CINEREOUS. The colour of wood afhes.

CIRCINALIS vernatio. Quum folium in fpiram transversalem coarctatum sit; ut apex centrum obtineat. Delin. Pl.—Circinalia folia, quum deorsum spiraliter involvuntur. Philos. Bot.—A term in foliation or leasing; importing that the leaves are rolled in spirally downwards, the tip occupying the centre. As in Ferns, and some fome *Palms.*—For this we have no equivalent English term, unless we may use the word *spiral*, which scarcely expresses the idea.

CIRCULAR. See Orbiculatum.

CIRCUMSCISSA capfula. Quæ maturo fructu borizontaliter difcedit. f. quæ media fere parte in bemi/pbæria duo diffilit.—Cut round. Opening, not longitudinally or vertically, as in most capfules, but tranfverfely or horizontally, like a fnuff-box; ufually about the middle, fo as to fall nearly in two equal hemispheres. Inftances of this we have in Anagallis, Hyofcyamus.

CIRRIFERUM folium : A tendril-bearing leaf, as in Fumaria capreolata & claviculata. Cirriferus pedunculus : a tendrilbearing peduncle; as in Cardiospermum and Vitis.

CIRROSUM folium: a cirrofe leaf. Terminating in a cirrus or tendril: as in Gloriofa, Flagellaria, Lathyrus, &c. CIRRUS CIRRUS (Cirri, capilli intorti, frizzledh air). Some derive it from xepaz, a horn; others from xeigeiv, to fbear; others from oxiggoz, a bard tumour; others again from circum, q. capilli circum torti: fuch is the uncertainty of derivation.—Linneus explains it to be—vinculum filiforme spirale, quo planta alio corpori alligatur.—He writes it with an h.—See Tendril.

CLAMMY. Viscidus.

CLASPER. See Tendril.

CLASPING, ftem-clasping, embracing leaf (folium amplexicaule). Surrounding the ftem at the base.

CLASS (Claffis). The primary division in a fystem or arrangement. Tournefort defines it to be—congeries generum, quibus nota quædam communis adeo propria est, ut ab aliis omnibus generibus plantarum prorsus differat. An affemblage of genera, in which some common mark is so peculiar, that it differs entirely from all G other other genera of plants.—According to Linneus it is—generum plurium convenientia in partibus fructificationis, fecundum principia naturæ & artis. The agreement of feveral genera in the parts of fructification according to the principles of nature and art.

Claffes are either Natural or Artificial. Natural Claffes are fuch as contain genera which are evidently related to each other: as Umbellate, Verticillate, Siliquofe, Leguminofe plants, the Compound flowers, and Graffes.

Artificial Claffes are merely fuccedaneums to natural ones, which we are obliged to adopt for want of a complete knowledge of the true characters of plants, and their relations to each other.

Natural Claffes have been attempted by Royen, Haller, Linneus, and lately by Juffieu.

Linneus's artificial fyftem or general arrangement of vegetables has twentyfour four claffes, befides the Palms, &c. in a twenty-fifth. Thefe are founded principally on the number, fituation, and proportion of the ftamens; and feveral of them are natural.

CLAVATUS (clava, a club) club-fhaped. Verfus apicem incraffatus; growing gradually thicker toward the top. Applied to the leaf, as in Anabafis foliofa—to the petiole and peduncle—t the calyx, as in Silene—to the ftyle, as in Leucoium vernum—to the capfule, as in Papaver Argemone.

CLAVICULA. The fame with Capreolus or Cirrus. See Tendril.

CLAW (Unguis). The lower narrow part of the petal in a polypetalous corolla, by which it is fixed to the receptacle.

CLEFT leaf (folium fissum). Divided by linear finuses, with straight margins. According to the number of these divisions, such a leaf is called bisid, trifid, qua-G 2 drifid, drifid, quinquefid, multifid; or two-cleft, three-cleft, &c.—The term is also applied to the Perianth, and to Stipules, in the fame manner.

CLIMBING plant (Scandens). Afcending by means of tendrils; or fometimes by the ftem or branches; but without twining, which fee.

CLOVEN. See Cleft.

CLUB-SHAPED (Clavātus.) Growing thicker toward the top. See Clavatus.

CLUSTERED or crowded (Confertus). See Confertus.

COADUNATA folia (Coadunate leaves). Several joined together, or united at the bafe. Coadunati lobi.

COADUNATÆ, the fifty-fecond of Linneus's Natural Orders.

COARCTATUS. Squeezed or preffed together. Compact, With. Coarctati rami; versus ver fus fummitatem fere incumbentes : condenfed branches. Oppofed to divergentes. —See Condenfed. Coarctati pedunculi condenfed peduncles; oppofed to patuli. Coarctata panicula; a clofe or contracted panicle; oppofed to diffufa.

COATED or tunicated (tunicatus). Composed of concentric layers; as the bulb of the Onion: or clothed with membranes; as fome stems.

COBWEBBED (arachnoideus). Covered with a thick interwoven pubefcence. Applied to the leaf, peduncle, and calyx.

COCCUM (RORROV), a grain or feed. Linneus applies this term to fome fruits of a particular ftructure, having feveral cells with a fingle feed in each. Thus *Euphorbia* and *Thea* have a tricoccous fruit; *Geranium* has a pentacoccous or five-grained fruit.

COCHLEATUM legumen. A ferew-shaped, or snail-shaped legume or pod, Turned G 3 like like a forew, or the shell of a shail. As in Medicago.

COILED (tortilis). Bent or twifted like a rope. See Tortilis and Twifted.

COLLUM. The neck or upper part of the tube, in a monopetalous corolla.

COLOURED leaf. Of any other colour than green. Calyx, as in Bartfia.

COLUMELLA. The central pillar in a capfule. Pars connectens parietes internos cum feminibus. Philof. Bot. The part connecting the infide with the feeds. A receptaculo ad/cendens, circumcirca femina affigens. Delin. Pl. Taking its rife from the receptacle, and having the feeds fixed to it all round.

COLUMNAR (Teres). Like the fhaft of a column. See Teres. Withering explains Columnaris to be a fquare pillar.

COLUMNIFERÆ (plantæ) or columniferi (flores). The name of the thirty-fourth order, order, in the Fragments of a Natural Method, in Linneus's *Philofophia Botanica*: the thirty-feventh of his Natural Orders, at the end of *Genera Plantarum* ! and the fourteenth order of Royen's Syftem. It includes the Malvaceous, or Mallow-like plants; which are to be found in the clafs *Monadelphia* of Linneus's Artificial Syftem.

COMA (Koun, a bead of hair). A fpecies of bracte, terminating the ftem in a tuft or bufh. As in Crown Imperial; Salvia Horminum, Sylvestris, Sclarea, &c.—A fpike of flowers terminated by a coma is named Comose: and plants with fuch flowers are ranged in the thirty-fixth of the Natural Orders, in Linneus's Philosophia Botanica.

Соммом bud (communis gemma). Containing both leaves and flowers. Common peduncle (communis pedunculus). Bearing feveral flowers.—Common perianth; inclofing feveral diftinct fructifications, as in the clafs Syngenefia. G 4 Common Common receptacle; connecting feveral diffinct fructifications; as in the fame clafs.

COMPACT leaf. Having the pulp of a close firm texture.

COMPLETE flower. Furnished both with calyx and corolla. Delin. Pl.—This is one of Vaillant's terms. It would with more propriety be termed complete, when it has all the parts of a flower. See *Flower*.

COMPLICATE (complicatus). Folded together: as the valves of the glume or chaff in fome graffes.

Сомрозите, or Compositi. The name of the twenty-first order in the Fragments of a Natural Method in Linneus's *Philof*. *Botan.*—the forty-ninth of the Natural Orders in his *Gen. Pl.*—in Royen's System, and others. Comprising the plants with compound flowers.

COMPOUND (compositus). Stem : dividing into

into branches .- Leaf: connecting feveral leaflets on one petiole, which in this cafe is called a common petiole.-Flower: a fpecies of aggregate flower, containing feveral florets, enclosed in a common perianth, and on a common receptacle; with the anthers connected in a cylinder ; as in the clafs Syngenefia.-Raceme: composed of feveral racemules, or small racemes. - Spike; composed of feveral fpicules or fpikelets .- Corymb: formed of feveral fmall corymbs .-- Umbel : having all the rays or peduncles bearing umbellules, or fmall umbels, at the top.-Fructification : confifting of feveral confluent florets; opposed to fimple,

COMPOUND terms. Two terms forming one idea, much ufed by Linneus. It fhould be obferved that thefe may be framed with propriety from figures, &c. of the fame division only. Thus lanceolate-ovate and ovate-lanceolate are proper; but not lanceolate-acute, or ovate-mucronate.—Delin. Pl,

Com-

COMPRESSED or flatted (compreffus). Applied to a ftem, which has the two oppofite fides plane or flat—to a leaf, which is pulpy, with the fides more flatted than the difk. Oppofed to depreffed in Delin. Pl.—Applied to a filiqua, which has the oppofite fides approaching to each other.

CONCAVE leaf. When the edge ftands above the difk: or, as Linneus expresses it, when the margin of the leaf being too tight to circumferibe the difk, the difk is depressed.— Applied also to the calyx and corolla; and to the valves of the glume in graffes.

CONCEPTACLE or Follicle (Conceptaculum, Folliculus). A Pericarp of one valve, opening longitudinally on one fide, and having the feeds loofe in it. As in Apocynum, Afclepias, Stapelia.

CONDENSED branches (coar Stati rami). Preffed or squeezed together, so close, as almost almost to be incumbent, or lie over each other, at their ends.

CONDUPLICATE, doubled together. Conduplicata vernatio f. foliatio. A term in vernation or leafing; fignifying, that in the bud, the two fides of the leaf are doubled over each other at the midrib. Cum folii latera (intra gemmam) parallele fibi invicem approximantur. As in Rofe, Afh, Walnut, Almond, Cherry, Oak, Beech, &c.—It is ufed alfo in the fleep of plants (conduplicans fomnus) in the fame fenfe: when the leaves, during the night, fold together, like the leaves of a book.

CONE (Conus). The fruit of feveral evergreen trees, as Fir, Pine, Cedar, Cyprefs. Linneus has difcarded this term, and has adopted that of Strobilus, which however is of more extensive fignification; comprehending fruits, as of Magnolia, not called cones in common language. See Strobilus.

A Cone is broadeft at the bafe, or next the

the point of union with the branch, and tapers more or lefs to the end. It is composed of woody scales, usually opening, and has a seed at the base of each scale. Though Linneus has discarded the term Cone, he has retained an order of coniferous plants. See Coniferæ.

CONFERTUS. Crowded or cluftered. Conferta folia; leaves fo copious, as to occupy the whole of the branches, fcarcely leaving any fpace between; as in Antirrbinum monfpeffulanum and Linaria. Conferti rami; branches fo clofe, as fcarcely to leave any fpace between them: oppofed to remoti. Confertus verticillus, a clofe or crowded whorl, in which the peduncles, or flowers, are as it were fqueezed together: oppofed to diftans.

CONFLUENT leaves (folia Confluentia), Thronging, Withering. Ad basin inter se cobærentia; united at the base: growing in tusts, so as to leave the intermediate parts of the stem bare. Confluent lobes; running running one into another: in opposition to distinct.

CONFORME folium. A leaf in all parts the fame. Conformis torfio. Twifting (of a ftem) always the fame way.

CONGESTUS, heaped together. Congesta panicula: a panicle which has a great abundance of flowers, but not so closely squeezed together as in the crowded or dense panicle.

CONGLOMERATE (con and glomus, a clue of yarn or thread) flowers or peduncles. When a branching peduncle bears flowers on very flort pedicles, clofely heaped and compacted together, without order. As in Daciylis glomerata. Oppofed to diffused. See Glomerate.

CONIC OF CONICAL receptacle. In fhape of a cone, round and broad at the bafe, but drawing to a point at the top. As in Bellis (the common Daify), Anthemis, &c.

CONI-

CONIFERÆ. The fifteenth order in Linneus's Fragments of a Natural Method: and the fifty-first of the Natural Orders, at the end of Gen. Pl. Containing the cone-bearing trees. As Fir, Pine, Cyprefs, Thuja, &c.

CONJUGATE leaf (folium conjugatum). A pinnate leaf which has only one pair of leaflets. Conjugate raceme: having two racemes only, united by a common peduncle.

CONNATE leaf (folium connātum). When two opposite leaves are so united at their bases as to have the appearance of one leaf: as in the Garden Honey suckle.—This term is applied also to filaments and anthers, united into one body; as in the classes Monadelphia and Syngenefia.

CONNIVENS corolla. Cujus limbi lobi apicibus convergunt. Connivens fomnus : quando duo folia opposita pagina superiore tam arcte ad se mutuo applicantur, quasi unicum esset esset folium.—Conniventes antheræ. See Converging.

CONTORTÆ (Contorqueo, to twist together). The twenty-ninth order in the Fragments of a Natural Method, in *Philos. Bot.* and the thirtieth of the Natural Orders in Gen. Pl. Lin.

CONTORTA corolla. Cujus petalorum margo alter incumbens alteri obliquam directionem babet. A contorted corolla has the edge of one petal lying over the next, in an oblique direction. As in Vinca.—Contortum pericarpium. Cujus apex non in eadem cum bafi linea eft. A contorted pericarp is that, which has the apex in a different line from the bafe. This means no more than twifted.

CONTORTUPLICATUS. See Writhed.

CONTRACTA panicula. A contracted panicle. Clofe and narrow, fo as very much to refemble a fpike. As in Feftuca calycina.

CONTRA-

CONTRARIUM disseptimentum. See Partition.

- CONVERGING (connivens). Applied to the corolla, when the tips of the petals meet fo as to clofe the flower; as in Trollius: to anthers, approaching or inclining towards each other; as in the clafs Didynamia: to the fleep of plants; when two opposite leaves are fo clofely applied to each other by their upper furfaces, as to feem one leaf.
- CONVEX leaf (folium convexum). Quod in difco magis elevatum eft. Philof. Bot.— Margine difco arctiore (depreffiore) ut elevetur difcus. Delin. Pl. Rifing towards the centre; or, with the edge more contracted than the difk, fo that the difk is raifed.

This term in *Philofophia Botanica* is oppofed to *depreffed*, and has reference to the fubftance of a leaf; whereas in *Delin*. *Pl*. it refers to the mode of its expansion, and is oppofed to *concave*. It is applied alfo to the *Receptacle*, which rifes towards the Matricaria, Buphthalmum.

CO

CONVOLUTED (convolutus) leaf. Foliorum lateribus cuculli in modum spiraliter contortis. Delin. Pl. A term in vernation or foliation, fignifying that the fides of the nafcent leaves are rolled together like a feroll: as in Arum, Piper, Solidago, Braffica, Prunus, Gramina or Grasses.—This is applied alfo, in the fame fense, to the petals and stigmas, as in Crocus.—Tendril (Cirrus). In annulos contortus, twisted into rings or spirals.

CONUS. See Cone and Strobile.

CORCULUM (dimin. from Cor, the heart). The corcle, heart, or effence of the feed. The rudiment of the future plant. Attached to and involved in the cotyledons. Confifting of the plume, or fealy afcending part; and the rostel, or radicle, the fimple defeending part.—Novæ plantæ compendium, connectens Cotyledones; constans Rostello acuminato, deorsum germi-H nante; nante; Plumula imbricata, furfum excrefcente. Regn. Veg.

CORDATE or heart-fhaped leaf (folium cordatum). So called, from its refemblance to a longitudinal fection of the heart.— Ovate or fubovate, hollowed at the bafe, without any angles there. Ovatum, bafi excavatum, defiitutum angulis poficis,

Cordate-oblong. A heart-fhaped leaf lengthened out.

Cordate-lanceolate, Cordate-fagittate, &c. Partaking of the form of both leaves.

CORIACEOUS. Stiff like leather or parchment. Applied to the leaf, calyx, and capfule.

CORNERED or angular stem: 3-6, cornered (trigonus, &c.) Having three, &c. prominent longitudinal angles.

CORNU. A horn or fpur at the back of fome flowers. See Horn.

COR-

CORNUTUS. Horn-Shaped.

COROLLA (dimin. from corona, a crown). Liber plantæ in flore præsens. Philof. Bot. & Delin. Pl. Tegmentum interius floris e libro. Regn. Veg.—The second of the feven parts of fructification; or, the inner covering of the flower, formed, according to Linneus, of the liber or inner bark of the plant.

It may commonly be diffinguished from the perianth, by the fineness of its texture and the gaynefs of its colours: whereas the perianth is ufually rougher and thicker, and green. But there are many exceptions; the perianth in Bartfia is coloured-the corolla in Daphne Laureoua is green .- Linneus makes the diffinction between the corolla and perianth to confift, in the former having its fegments or petals alternate with the ftamens; whereas the latter has its parts or leaflets oppofite to them. This appears from the infpection of the classes Tetrandria and Pentandria, in flowers which have both parts; H₂ and

and of Chenopodium, Urtica, Parietaria, which have no corolla. See Philof. Bot. p. 57, § 90.

Adanfon however obferves, that in the Liliaceous plants, what is called a corolla is in reality a perianth, according to the principles of Linneus. That part which is named corolla of Rhamnus, in *Lin. Gen.* is called calyx in *Syft. Veget.*—and on the contrary, the calyx or perianth of Polygonum in *Lin. Gen.* is the corolla in *Syft. Veg.*

To get rid of the difficulty, which fometimes occurs in diffinguishing the corolla from the calyx, De Necker has cut the knot, and called them by one name, *Perigynanda*; which fignifies the envelope, cover or wrapper of the stamens and pistils; this he diffinguishes into inner and outer, when there are two then the first is the corolla, and the second the perianth.

I prefer corolla to corol, becaufe it is a legitimate English word, as well as the other, other, with a better found; but efpecially becaufe it has generally obtained place among us. Some choofe to tranflate corolla by *bloffom*; but bloffom has a more contracted fignification in Englifh, being ufually applied to the flowers of fruittrees. Befide this it is contrary to the principles that ought to regulate us in forming technical terms.

The Nectarium or Nectary is confidered as a part of the corolla.

The corolla is frequently, but inaccurately, called the flower. See *Flower*.

The diminutive Corollet or Corrollule (Corollula) is used in speaking of the florets in aggregate flowers.

CORONA: See Crozon.

CORONARIÆ. The ninth order in Linneus's Fragments of a Natural Method: and the tenth of his Natural Orders; containing part of the Liliaceous plants; H 3 fuch fuch as for their beauty are adapted to the making of garlands (coronæ).

CORONULA (dimin. of corona) a coronet or little crown to the feed.

CORTEX (from corium a hide, and tego to cover). The outer bark of a vegetable, or the fecond integument within the epidermis; plated, lax, dry, hard, often in chinks.—Secundum integumentum plantæ, laminofum, laxum, ficcum, durius, fæpe rimofum.

CORTICAL bud (Corticalis gemma). Having its origin from the fcales of the bark e corticis ramentis.

CORYDALES (from xogus, a helmet). The twenty-eighth order in Linneus's Fragments of a Natural Method, and the twenty-fourth of his Natural Orders.

CORYMB (Corymbus). Linneus's words are—fit ex spica, dum singuli flores petiolis propriis instruuntur, situ elevato proportionali.

tionali .- It is made up of a fpike, whilft cach flower is furnished with its proper petiole [peduncle], in an elevated proportional fituation .- I confess that I do not clearly understand this explanation of the term .- In Lee's Introduction it is thus expressed-" Corymbus is a kind of " fpike, the flowers of which have each " its proper Pedicellus, or partial foot-" ftalk raifed to a proportional height."-In Rofe's Elements it stands thus-" The " Corymbus, where the leffer flower-stalks " of unequal lengths are produced along " the common peduncle on both fides, " and rife to the fame height, fo as to " form a flat or even furface at top."-Berkenhout fays-" Linneus makes it a " fpecies of inflorescence, in which the "flowers grow in clufters, each upon a " feparate pedunculus, as in the filiquofe " plants in general."-Rofe's explanation is the most intelligible, but it is not Linneus's .- There is plainly a reference to the fpike for the general fimilitude, with two diffinctions .-- 1. That each flower is H_4 not

not feffile, but on its proper pedicel. 2. That inftead of the flowers being ranged along a common fimple peduncle alternately, as in the fpike ; each pedicel is of a length proportioned to its fituation, fo that all the flowers form nearly a flat furface at top. If this be not the fenfe intended by fitu elevato proportionali, I am at a lofs for a meaning.-After all, the meaning of the term will be beft underftood by attending to the manner of flowering in the plants referred to by Linneus. Spiræa opulifolia, Ledum, and those of the Siliquose or Tetradynamia clafs. A corymb may be either fimple or compound. Corymbus, in Pliny, fignifies a cluster of ivy berries-" hederæ racemus in orbem circumactus." Columella puts it for the head of the artichoke.

" Hæc modo purpureo furgit glomerata " corymbo."

It is a Greek word (xoguµGos), from xogus a helmet, and that from xaga the head.

This

This and two other kinds of Inflorefcence, namely, the *Cyme* and *Umbel*, which bear fome refemblance to each other, may be thus diffinguished:

1. In the *Corymb*, the peduncles take their rife from different heights; but the lower ones being longer, they all form nearly an even furface at top.

2. In the *Cyme*, the peduncles take their rife from the fame centre; but the fubdivisions are irregular.

3. In the *Umbel*, the peduncles take their rife from the fame centre, and the whole is difpofed with a ftriking regularity.

CORYMBIFERE. The name of one of Ray's claffes; and of the third fubdivifion in the order of compound flowers, in Linneus's Natural Arrangement.

COSTATUM folium. A ribbed leaf: as in Echites siphilitica.

Cottony.

Cottony. See Tomentofus.

COTYLEDON (KOTUNN, a cavity). The lobe, or placenta of the feed, deftined to nourish the heart, and then to perifh .- Corpus laterale seminis, bibulum, caducum. The lateral body of the feed, bibulous or imbibing moifture, and caducous or falling off quickly. Gifeke defines it to befolium primum germinantis seminis, but this is properly the feed-leaf .- In English we commonly call this part the Cotyledon or feed-lobe, when we fpeak of it as a portion of the feed, in a quiefcent stateand the feed-leaf, when the feed is in a growing state .- The greater part of feeds have two lobes; fome however have more-others only one, and others have none.-Hence a diffinction of all plants into Acotyledones, Monocotyledones, Dicotyledones, Polycotyledones; which forms the bafis of Juffieu's Natural Arrangement.

Cowled or Cucullate leaf (folium cucullatum). Wide at top, drawn to a point below, below, as in *Geranium cucullatum*: in fhape of the paper rolled up conically by grocers for fmall parcels of fpices, comfits, &c.

" Vel thuris piperisque sis cucullus."

Martial.

Hence, from a fimilitude in the form, this term was applied to the cowl, or large pendent cape of the upper garment, which turned up occasionally to cover the head.

" Pullo Mævius alget in cucullo."

Martial.

CREEPING root (radix repens). Extending itfelf horizontally, and putting forth fibres; as in Mint.—Creeping flem (caulis repens). Running along the ground, or up trees and other bodies, putting forth roots; as in Iwy, Bignonia, &c.

CRENATE, scolloped or notched leaf (folium crenatum, from crena a notch). Cujus margo angulis neutram extremitatem re/picientibus secatur. Having the edge cut with with angular or circular incifures, not inclining towards either extremity: as in *Primula farinofa.*—When the edge of a leaf is cut into fegments of fmall circles, inftead of angular teeth, it is faid to be obtufely crenate; when the larger fegments have fmaller ones upon them, a leaf is then faid to be doubly crenate, duplicatocrenatum.—Linneus's definition in Philof. Bot. takes in only the acutely crenate leaf; and therefore incifuris is rightly fubftituted in Delin. Pl. for angulis.

The fame term is applied to the corolla, in *Linum*, *Dianthus chinenfis*, &c. to the nectary, in *Narcifus triandrus*.

I think it, upon the whole, better to retain the Latin term, than to tranflate it by *notched*, which in our language does not take in the idea by which Linneus diftinguiss *crenate* from *ferrate*; namely, the direction of the teeth or notches. See Serratus.

When the edge of a leaf is cut into very finall notches, Linneus uses the diminutive diminutive Crenulate (crenulatum). This term is also applied to the nectary in Narciffus poeticus.

CRESCENT-SHAPED (lunātus, from luna, the moon). Roundish, hollowed at the bafe, with posterior angles. Subrotundum basi excavatum, angulis posticis notatum ---Applied to leaves and fpikes: as in Acroflichum pectinatum. The diminutive lunulata is applied to the keel of the flower in Polygala myrtifolia. - Moon-Shaped is abfurd, and Mooned is abominable. If the terms lunate lunulate or crescent-shaped be objected to, we may use the periphrafis, Shaped like a crescent, for any form of a leaf, &c. refembling the moon in any period of her first quarter; fince this term does not occur very frequently.

CRESTED (criftatus). Having an appendage like a creft or tuft: as the flower of Polygala and fome anthers.

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CRINITUS (crinis, hair). Crinite. Hairy, or or having long hair, or beards refembling hair; as in *Phleum crinitum*.—Applied alfo to *Fronds*.

CRISPUM folium. A curled leaf. Cum peripheria folii major evadit, quam discus admittit, ut undulatum siat. Philos. Bot. p. 45.—Cum soliorum peripheria augetur, ut circumcirca sluctuet quasi undatus limbus, p. 217.—Margine luxuriante ut discus evadat longior sua rachi. Delin. Pl. See Curled.

CRISTATUS. See Crefted.

CROSSWISE (cruciātim). This term is applied to leaflets in a whorl, when there are four of them forming a crofs—alfo to anthers; as in Glecoma and Hippomane.

Cross-armed. See Brachiate.

CROWDED. See Confertus.

CROWN of the feed (corona feminis). An appendage to the top of many feeds, enabling enabling them to difperfe. This is either the calycle, as in Scabiofa, Knautia, Ageratum, Arctotis—or a Down (Pappus), as in Hieracium, Sonchus, Crepis, Scorzonera, Tragopogon, &c.

CRUCIFORM or crofs-fhaped corolla (cruciformis f. cruciata). Confifting of four equal petals, fpreading out in form of a crofs. Petalis quatuor æqualibus patens: in Delin. Pl. is added, ungue quam lamina langiore—the claw longer than the border. —Thefe flowers conftitute the fifth clafs in Tournefort's Syftem; and are a principal character in the clafs Tetradynamia of Linneus. In the Natural Orders he has preferred the title of Siliquofæ.

CRYPTOGAMIA (nounlos and yound, concealed nuptials). The name of the twenty-fourth class in the Linnean Artificial System, comprehending the vegetables whose fructification is concealed, or at least too minute to be observed by the naked eye.—It is divided into four orders. I. Filices CUBIT (cubitus, cubitālis menfura). A meafure from the elbow to the extremity of the middle finger—feventeen Paris inches —a foot and a half English.

CUCULLATUM folium. Lateribus ad basin conniventibus, apice vero dilatatis: ut in Geranio cucullato. See Cowled.

CUCURBITACEÆ (Cucurbita, a Gourd). The forty-fifth order in Linneus's Fragments of a Natural Method; and the thirty-fourth of his Natural Orders.

CULM (Culmus). The ftalk or ftem of Corn and Graffes; ufually jointed and hollow; fupporting both the leaves and fructification. Truncus graminibus proprius, elevat folia fructificationemque, plerumque geniculatus, articulis inanibus.—The word ftraw being commonly appropriated to the dry ftalk of corn, I prefer ufing the Latin culm. The old term in English is blade.

CUL-

CULMINIÆ (Culmen, the top). The twenty-fixth order in Linneus's Fragments of a Natural Method.

CUNEIFORME folium. A cuneiform or wedge-fhaped leaf. Cujus diameter longitudinalis fuperat transversalem, & sensim deorsum angustatur. See Wedge-shaped.

CURLED leaf (folium Crifpum). When the periphery is larger than the difk admits, and fo becomes waved—or, is fo luxuriant, that the difk is longer than the rib of the leaf: as in Curled Parfley.—All curled leaves are monfters, or productions of art.

Curled nectary (nectarium crifpum): as in Narciffus Pfeudonarciffus and minorwhich have their cups waved or curled about the edge.

CURVED, bowed, or bent inwards (incurvus). Applied to Legumes and Prickles. -Caulis incurvatus, introrfum nutans. A ftem curved or nodding inwards.

Curved,

Curved, or bowed outwards, backwards or downwards (recurvus, recurvatus). Applied to Leaves and Prickles.

CUSPIDATUM folium (cuspis, the point of a fword or fpear). A cuspidate leaf. Having the end fharp, like the point of a spear—or, terminating in a briftly point Terminatum apice setaceo rigidiusculo.

CYATHIFORMIS (cyathus, a drinking-cup or glafs). Cum ex cylindro fuperne parum dilatatus eft.. Cyathiform, Glafs-fhaped or Cup-fhaped. Cylindric, only widening a little at the top.—Applied to the calyx in Mauritia—to the corolla —and to Peziza Acetabulum and cyathoides.

CYLINDRICAL. Applied to ftems, and fome leaves, which are round *(teretes)*, that is without angles; but many times longer than they are thick, This is more properly expressed by *columnar*, because they are not of the fame diameter from top to bottom. bottom. The fame term is applied to the calyx; as in *Eupbrasia*, *Diantbus chinensis*, &c.—to the style—and to the spike.

CYMBIFORMIS. See Boat-Shaped.

CYME or CYMA (Kuua, fætus). It fignifies properly a fprout or tender fhoot, particularly of the cabbage .- Dr. Withering calls it a tuft .- Linneus explains it to be an aggregate flower composed of feveral florets fitting on a receptacle, producing all the primary peduncles from the fame point, but having the partial peduncles fcattered or irregular; all fastigiate, or forming a flat furface at top. As in Opulus, Cornus Sanguinea, Ophiorhiza .--Flos aggregatus ex flosculis pluribus insidentibus receptaculo, in pedunculos fastigiatos, primores ex eodem puncto productos, posteriores autem sparsos. Philos. Bot. p. 78.-Receptaculum ex centro eodem universali, partialibus vero vagis, elongatum in pedunculos fastigiatos, p. 55. Umbella composita ramulis alternis. Regn. 12 Veg. Veg. The Cyme is either naked, or with bractes. See Corymb.

Flowers difposed in a Cyme are called Cymofe flowers.—Hence

Сумояж. The fixty-third of Linneus's Natural Orders in Philosophia Botanica.

D

DÆDALEUM folium. A Dædal leaf.— Unà flexuofum lacerumque.—At the fame time flexuofe and lacerated; or winding and torn.

DAGGER-POINTED, Daggered or Mucronate; ending in a point like that of a dagger.—Applied to the leaf of Bromelia Ananas: and to the calyx.

DECAGYNIA (dena ten, and youn a woman or wife). Ten-styled. The name of one of of the orders in Linneus's Artificial Syftem; comprehending those flowers which have ten styles. This occurs only in the class *Decandria*.

DECANDRIA (dera ten, and anne a man or hufband). Ten stamened. The name of the tenth class in Linneus's Artificial System; comprehending all hermaphrodite flowers with ten stamens.—It is also the name of an order in the classes Monadelphia, Diadelphia, Gynandria, and Diacia.

DECAPHYLLUS calyx. A decaphyllous or ten-leaved calyx; as in *Hibifcus*.

DECEMFIDUS calyx. Cut into ten parts. A ten-cleft calyx, or rather perianth. As in Potentilla and Fragaria. See Cleft.

DECEMLOCULARE *pericarpium*. A tencelled pericarp or feed-veffel: as in Linum.

DECIDUOUS (Deciduus) Leaf: falling off in the autumn. Deciduum folium: per-13 acta acta unica æstate casurum.—Calyx or perianth: falling after the corolla opens. Deciduum perianthium: post floris explicationem cadens. As in Berberis, and the class Tetradynamia.—Corolla or petals: falling off with the rest of the flower. Decidua corolla: cum floris casu.—Applied also to stipules; as in Padus, Cerasus, Populus, Tilia, Ulmus, Quercus, and many other trees—Bractes—and Legumes. See Caducous.

DECLINATUS caulis. A declined or declining ftem. Arcuatim descendens. Defcending archwise. The least degree of curvature towards the earth. Opposed to ascending.—Applied also to the Peduncle—Stamen—and Style.—Declinatum folium. A declined or declining least. Deorsum flexum instar carinæ naviculæ. Bent downwards like the keel of a boat.

DECOMPOUND leaf. Folium decompositum. When the primary petiole is fo divided that each part forms a compound leaf.— The different kinds of the decompound leaf leaf are—Bigeminate, Biternate, and Bipinnate: which fee in their proper places. —Applied fometimes to an umbel (umbella decomposita), which is otherwife called Proliferous.—Flower(decompositus flos): compounded of compound flowers, or containing within a common calyx fmaller calyxes, common to feveral flowers; as in Spbæranthus, &c. contained in the order Segregata of the class Syngenefia.

DECUMBENT flower. Decumbens flos. Having the ftamens and piftils declined or bending down to the lower fide of it: as in Casta—Stem: caulis decumbens, lying on the ground with the base higher than the other parts.

DECURRENT leaf. Folium decurrens. A feffile leaf having its bafe extending downwards along the ftem. As in Symphytum, Verbesina, Carduus, Sphæranthus. —Applied alfo to the petiole, and the ftipule.

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DECUR-

DECURSIVELY-PINNATE leaf. Folium decurfive pinnatum. Having the leaflets decurrent, or running along the petiole.

DECUSSATED leaves and branches. Decufsāta folia. Decuffati rami. Growing in pairs, which alternately crofs each other at right angles; fo that if the ftem be viewed vertically, or the eye be directed right down it, the leaves or branches will appear to be in fours.

DEFLEXUS ramus. A deflected branch. In arcum deorfum inclinatus. Delin. Pl. Bowed or bending down archwife.

DEFLORATUS. Having difcharged the Farina or Pollen.

DEFOLIATIO. Defoliation, or fhedding the leaves.—Tempus autumnale, quo arbores folia dejiciunt, eoque indicant progreffum autumni & infequentis hyemis.—Here Linneus puts it, not for the action of unleafing, or fhedding leaves; but for the feafon feafon in which this action is performed. —So

DEHISCENTIA, the gaping or opening of capfules, is alfo put for the feafon in which this ufually happens.

DELTOID leaf. Folium deltoïdes, or deltoideum.—Rhombeum ex quatuor angulis, e quibus laterales minus a basi distant quam reliqui.—Shaped like a rhomb, having four angles, of which the lateral ones are less distant from the base than the others.

I muft confefs that I do not underftand this defcription; for of the two remaining angles, (reliqui) one is at the bafe of the leaf; and the lateral angles cannot be at a lefs diftance from the bafe than the bafe itfelf is. Nor will the figure of a deltoid leaf given at n. 58. in Philofopbia Botanica at all affift us; for that is by no means a plane leaf, but one of the fucculent kind, fuch as we find in the genus Aloe, Mefembryanthemum, &c. and yet

I either mistake Linneus's meaning, or we must admit of fome alteration in the terms of his defcription. If inftead of reliqui we read reliquus; then the fense of the words will be-that the lateral angles are nearer to the base, than the apex is to the fame base. This is true, but not fufficiently defcriptive of a deltoid leaf.-If for *reliqui* we read a reliquo; then the meaning will be-that the lateral angles are at a less distance from the base than they are from the apex; and therefore the lower fides of the rhomb, connecting the lateral angles with the bafe or point of infertion of the petiole, must be shorter than the upper fides, connecting the fame lateral angles with the apex of the leaf, or angle opposite to the petiole. This fense agrees fufficiently with the form of those leaves which are given as instances of the deltoid leaf .- But I own it would give me more fatisfaction if we might be permitted for basi to substitute se invicem. Then

· Then the full meaning of the definition would be this-a Deltoid leaf has the general appearance of a delta or triangle, but in reality it approaches in figure to a rbomb, and like that has four angles, of which the two fide ones are always nearer to each other than the two others at the base and apex; so that the length of the leaf is somewhat greater than the breadth. -All this will be beft underftood by examining a leaf of the common Black Poplar, which is given as one inftance of a deltoid leaf in Linneus's Specific Characters. Other inftances are, feveral fpecies of Chenopodium and Atriplex : Cochlearia danica : Aly fum finuatum and deltoideum. -If it fhould be objected, that a leaf cannot have the form both of a delta and a rhomb; I reply that Linneus affirms no more than that this leaf has the appearance of a delta, with a refemblance to a rhomb; and that it would be abfurd to expect mathematical exactness in fubftances fo various in their forms as leaves. Dr. Withering translates deltoideus triangularly angularly fpear-fhaped; and fays, that leaves in this form are broad at the bafe and nearly triangular, but fpear-fhaped at the point; as in the Black Poplar.

With refpect to *Mefembrianthemum* deltoides, there is no doubt but that it was fo named, becaufe each fide of its fucculent leaves is in form of a triangle, and therefore corresponds with the figure of the Greek letter delta.

DEMERSUM folium. A demerfe leaf. Growing below the furface of the water. Frequent in aquatic plants. The fame with Submerfum.

DENSE panicle. Densa panicula. Having abundance of flowers very close. A greater degree of congesta, heaped.

DENTATA (Dens, a tooth) radix. A toothed root. Moniliformis, ex articulis concatenatis. Confifting of a concatenation of joints, refembling a necklace.

DENTA-

DENTATUM folium. A toothed leaf. Quod acumina horizontalia, folii confistentia, spatio remota habet. Having horizontal points, of the fame confistence with the leaf, with a space between each.—Dr. Berkenhout observes, that if, instead of horizontal, Linneus had written, in the plane of the disc, it would have been more intelligible.—In Delin. Pl. it is margine acuminibus patentibus remotis, having spreading points [or teeth], remote from each other, about the edge.— Exemplied in Leontodon hassile, autumnale, alpinum, bispidum, hirtum. Primula veris & minima. Epilobium montanum.

Dentato-finuatum. Toothed, and at the fame time with finufes, bays or large hollows about the edge. Tooth-finuate.

This term is applied also to the stipule -Stipula dentata.

DENTICULATUS (denticulus, dimin. from dens). Toothletted, having fmall teeth or notches. Applied to the leaf; as in Hesperis Hesperis matronalis, Leontodon Taraxacum, Epilobium tetragonum.—To the calyx and to the feed; as in Bidens.

DENUDATÆ (denūdor, to be ftripped naked). The feventh of the Natural Orders, in Linneus's *Philof. Bot.* comprehending a few genera which have flowers that appear at a different time from the leaves, and therefore have a naked appearance; as *Colchicum*.

DEPENDENS folium. A leaf hanging down; or, pointing directly to the ground. Quod recta terram fpectat.—Applied alfo to the fleep of plants (dependens fomnus); when the leaves, which are erect in the day, hang down at night.

DEPRESSUM folium. A depreffed leaf.— Quod in difco magis deprimitur quam ad latera. Hollow in the middle; or, having the difk more depreffed than the fides. This term has reference to fucculent leaves only; and is oppofed to Convex, Convex, in Philof. Bot. and to Compreffed, in Delin. Pl.

Applied alfo to feeds; as in Cynogloffum.

Dextra torfio, and Dextrorfum volubilis. See Torfio and Twining.

DIADELPHIA (from dis twice, and ader pos a brother). Two brotherhoods. The name of the feventeenth clafs, in Linneus's Artificial Syftem; comprehending those plants which bear hermaphrodite flowers, with two fets of united ftamens .- This is a natural clafs, with papilionaceous or pea flowers, and leguminous fruits. It is nearly the fame with the Papilionacei of Tournefort; the Irregulares Tetrapetalæ of Rivinus, and the Leguminofæ of Ray. The orders are founded on the number of the stamens; and ten being the predominating number in this clafs, the order Decandria is much the largeft. The regular disposition of the stamens in this

this order is, nine united in one brotherhood, the lower broad part of the filament fheathing the germ; and the tenth fingle; but in almost twenty genera the ten stamens are connected into one body at bottom.

- DIADELPHOUS ftamens. Stamina diadelpha. ftamens forming two brotherhoods. The filaments united in each of the two fets at bottom, but feparate at top.
- DIAGNOSIS plantæ confiftit in affinitate generis & in discrimine speciei.—The diagnosis of a plant confists in the affinity of the genus, and the difference or distinction of the species. The specific characters in the Species Plantarum, Systema Vegetabilium, and other works of Linneus, are true diagnoses,

DIANDRIA (δις, and ανης a hufband). The fecond clafs of Linneus's Artificial Syftem, comprehending all hermaphrodite flowers, which have two ftamens.—Alfo the name of of an order, in claffes Gynandria, Monæcia, Diæcia.

Haller calls fuch plants Diftemones.

DICHOTOMOUS ftem. Caulis dichotomus ($\delta_{i\chi\alpha}$ and $\tau_{E\mu\nu\omega}$, to divide by pairs). Continually and regularly dividing by pairs from top to bottom. As in Vifcum or Miffelto, Valeriana Locusta. I prefer angliciting the Latin term, to translating it by forked; because this gives the idea of a single division only, and is expressed by another Latin word, furcatus.

When applied to a peduncle, as in Melissa Calamintha, this term may with more propriety be rendered by forked; because it feldom proceeds to a second subdivision.

Dichotomous-corymbed. Composed of corymbs, in which the pedicles divide and fubdivide in pairs. As in Achyranthes corymbosa, which is distinguished by having—panicula dichotomo-corymbosa.

K

DICOC-

Dicoccous or *two-grained* capfule (*cap-fula dicocca*). Confifting of two cohering grains or cells, with one feed in each.

- DICOTYLEDONES. Those plants which have feeds that split into two lobes in germinating.
- DIDYMA (διδυμος, twin) anthera, capſula, bacca.—Duobus nodis extus protuberantes.
 —Didyma capſula, bacca, eadem ac di-cocca effe videtur. See Twin.

DIDYNAMIA (dis twice, and dovaus power). The name of the fourteenth class in Linneus's Artificial System, comprehending those plants which have hermaphrodite flowers, with four stamens in two pairs of different lengths; the outer pair longer, the middle pair shorter and converging. These flowers have one pistil; and the corolla is irregular—either ringent or perfonate.

It is a natural class, containing the Labiati and Personati of Tournefort, and the Monopetali irregulares of Rivinus.

Linneus

Linneus has divided it into two orders: 1. Gymnospermia, or fuch as have naked feeds. 2. Angiospermia; fuch as have the feeds enclosed in a veffel.

DIFFORMIS flos of Jungius and Knaut— Anomalus of Tournefort—Irregularis of Rivinus.—Linneus adopts the latter term. A difform, anomalous, or irregular flower, or corolla.—Partibus nec magnitudine nec proportione partium fibi refpondentibus. The parts of which do not correfpond either in fize or proportion.

Difformis torsio. The twifting of a ftem one way and then another. See Twining,

Difformia folia. Difform leaves. Diversa figuræ in eadem planta. Of different shapes on the same plant. As in Ranunculus aquatilis, Rudbeckia triloba, Euphorbia heterophylla, Lepidium perfoliatum, Hibiscus virginicus, pentacarpos, Sabdariffa.

It is obfervable, that Aquatic plants fometimes have the leaves under water K 2 finely finely cut, whilft those above water are not fo. On the contrary, in mountain plants, the upper leaves are usually most cut.

DIFFUSED ftem. Caulis diffus. Having fpreading branches—ramis patentibus; as Teucrium Scordium.—Panicle. Diffusa panicula, hanging loose: opposed to coarEtata close or compact. Cum laxe divaricantur pedicelli, angulis reElis sive obtuss. When the pedicels are spread about loosely, at right or obtuse angles with the main peduncle.

DIGITATE leaf. Folium digitātum. (Fingered leaf. Lichf. Soc.) When a fimple or undivided petiole connects feveral diftinct leaflets at the end of it. Cum petiolus fimplex apice adnectit foliola plura. This is a fort of Compound leaf; whereas the Palmate, which in fome measure refembles it, is a fimple leaf. The Digitate leaf, to correspond with the name, should have five leaflets spreading out like the open fingers: but Linneus makes binate, ternate nate and quinate leaves to be fpecies of the digitate; and the leaves of Horfe-chefnut, though they have more leaflets than five, are neverthelefs called digitate.

- DIGYNIA (dis and youn). The name of an order in Linneus's Artificial System, comprehending those plants which have two pistils to a flower. This order is the fecond in the first thirteen classes, except the ninth.
- DIMIDIATUS. See Halved.—Dimidiata Spatha, latere tantum interiore fructificationem obvestiens.—Dimidiatum Capitulum, ab altero latere rotundum, ab altero planum.—Dimidiatum involucrum, f. involucellum, extrorsfum situm, estque patens vel dependens: ut in Æthusa.

DIOICA (dis, and ouros a bouse) planta. A diæcous plant. Having male and female flowers on diftinct individuals. Hence

DIŒCIA. The name of the twenty-fecond clafs in Linneus's Artificial Syftem, com-K 3 prehending prehending those plants which have no hermaphrodite flowers; but male and female flowers on distinct individuals.— Mares & fæminæ habitant in diversis thalamis & domiciliis.

DIPETALOUS (dipetăla) corolla, or twopetalled; having two petals only: as Circæa, Commelina.

DIPHYLLOUS (δις, and φυλλου a leaf) or two-leaved calyx: as in Papaver and Fumaria.—Applied alfo to the cirrus or tendril, as in Lathyrus—and to the peduncle, as in Gomphrena.

DISK of a leaf. The whole furface— *Jupinus*, the upper—*pronus*, the under furface.—*Di/k* of a flower, is the central part in radiate compound flowers, confifting generally of regular corollules or florets: it is applied to other aggregate flowers, when the florets towards the middle differ from those in the circumference; as in umbels.

DISPER-

- DISPERMUS fructus, qui duo tantum semina continet. A dispermous or two-seeded fruit; containing two feeds only; as in umbellate and stellate plants.
- DISSECTUM folium. A gashed leaf (dissected is not proper).—In Philof. Bot. p. 219. Linneus gives incisum f. dissectum as a superseded term, and refers to Laciniatum, which he thus explains, in p. 43, —varie sectum in partes, partibus itidem indeterminate subdivises. See Gashed and Laciniatus.

In Delin. Pl. the Gashed leaf is diftinguished from the Laciniate, by the sections being determinate in the first, and indeterminate in the second.—Dissecta f. incisa [folia] sectiones continentia plerumque numero determinatas.

DISSEPIMENTUM. Paries quo fructus interne distinguitur in concamerationes plures. See Partition.

DISSILIENS pericarpium. A diffilient, burfting or elastic pericarp or fruit. Bursting K4 open open with a fpring; as in Hura, Dentaria, Cardamine, Momordica Elaterium.

DISTANS f. remotus verticillus, pedunculis remotis. A diftant whorl; when the flowers which compose it, being few in number, are remote from each other.

Applied also to stamens (stamina diftantia), as in Mint.

DISTICHUS (dis, and ofixos row or rank). Two-ranked.—Diffichus caulis: ramos fitu borizontali, nec decuffatim fitos exferens.— A diftich or two-ranked ftem or ftalk: putting forth branches, not decuffated, but in a horizontal polition.—Difficha folia: duo latera rami tantum refpicientia, licet undique inferta.—Refpecting two fides of the branch only, though inferted on all parts of it: as in Fir and Diervilla. Or, pointing two ways only, though not in the fame plane.

This term is applied in the fame fenfe to a fpike (*fpica difticha*); floribus ad utrumque latus fpectantibus: all the flowers pointing pointing two ways. Oppofed to Secunda. —Spica tetrasticha, a four-ranked spike hexasticha, a fix-ranked spike.

DISTINCT leaves. Folia diffincta. Quite Ieparate from each other. Contrasted wite connate: as in feveral of the Mefembryanthema.—Foliola distincta. Distinct leastets, as in Jasminum officinale; contrasted with confluent, as in J. grandiflorum.—Antheræ distinctæ. Distinct or feparate anthers, as in most flowers; contrasted with connate.

DIVARICATE (Straddling. With). Standing out wide. Divaricati rami: a trunco ad angulum obtufum difcedentes. Divaricate branches; making an obtufe angle with the ftem. Oppofed to Coarctati. Philof. Bot. p. 233.—Divaricata panicula: a divaricate panicle; when the pedicels form an obtufe angle with the main peduncle. —Applied in the fame fenfe to peduncles and petioles.

DIVERGING branches. Divergentes rami. Making Making a right angle with the ftem. A trunco ad angulum rectum difcedentes. —Applied alfo to the fleep of plants. Divergens fomnus: when the leaflets, in their ftate of repofe, approach each other at the bafe, but fpread out at the tips.

- DODECANDRIA (Sudena twelve, and ang a bufband). Twelve-ftamened. The name of the eleventh class in Linneus's Artificial System; comprehending all those plants which have hermaphrodite flowers with from twelve to nineteen stamens inclufive.
- DODRANS f. dodrantalis menfura. The fpace between the end of the thumb and of the little finger, both extended. About nine Paris inches. This measure may be called in English the long span, and spithama the short span. See Measures.

DOLABRIFORME folium (Dolabra, an axe, a dolando). A dolabriform, axe or hatchet-Ibaped leaf. Battledore-Inaped. With.-Compression, Compression, subrotundum, obtusium, extrorsum gibbum acie acuta, inferne teretiusculum. Compressed, roundish, obtuse, gibbous on the outside with a sharp edge, roundish below. As in Mesembryanthemum dolabriforme.

DORSAL awn. Dorfalis arista. Fixed to the back or outer fide of the glume, not springing from the end: as in Bromus and Avena.—Lateri exteriori glumæ imposita.

DOTTED leaf. Folium punctatum. Befprinkled or pounced with hollow dots or points. Quod punctis excavatis adspersum est. As in Anthemis maritima. Applied also to the receptacle; as in Leontodon, Cacalia, Ethulia, Xeranthemum, Chryfanthemum, Othonna.

DOUBLE. Geminus.—Double leaves. Two connected by one petiole.—Double flipules. Two and two by pairs.—Double peduncle. Two from the fame point. Different Different from Two-flowered, and Twin, which fee.

Doubled together. See Conduplicate.

Doubly-compound. See Decompound.

Doubly-crenate leaf. Duplicato-crenatum folium.—Having fmall notches on the larger.

Doubly-pinnate. See Bipinnate.

Doubly-ferrate. Duplicato-ferratum. Having fmall teeth on the larger.

Doubly-ternate. See Biternate.

Down is properly the English term for fome forts of pubescence; but it is used also for the *Pappus* or little crown, fixed on the top of some seeds, by which they fly: as *Dandelion*, *Thissile*, &c. This is, 1. feathered or plumose—or elfe, 2. capillary, hairy or simple. Corona pennacea, pilosave volitans. Some of these crowns are stiped, other setsile.—Down ought not not to be ufed in both fenfes. Pappus cannot well make an English word. Feather is not proper, for we cannot fay —a feathered feather, and a hairy feather. Seed-Down will diffinguish it from Pubefcence. See Pappus.

Downy leaf. See Tomentofus.

DROOPING (cernuus). The top or end pointing to the ground. Applied to the peduncle or flower; as in *Bidens cernua.*—Different from nodding, *nutans*; which fee.

DRUPA. Pericarpium farctum evalve, nucem continens. A Drupe is a pulpy pericarp or fruit without valves, containing a nut or ftone with a kernel. As Plum, Apricot, Peach, Almond, Olive, &c. Some call this fort of fruit Prunus or Plum. It is ufually a moift fucculent fruit; but fometimes dry, as the Almond.

DRUPACEÆ. The thirty-eighth order in Linneus's Fragments of a Natural Method: thod: containing those trees which bear a drupe or plum.

DUMOSÆ (dumus, a bufh). The nineteenth order in Linneus's Fragments, in Philof. Bot. and the forty-third of the Natural Orders in Gen. Pl.

DUPLICATO-CRENATUM. Doubly-crenate.

DUPLICATO-PINNATUM. or Bipinnate. Doubly-pinnate

DUPLICATO-SERRATUM. Doubly-ferrate.

DUPLICATO-TERNATUM. Doubly-ternate, or Biternate.

DURATION of plants. The continuance of their life or existence.—As Cadūcous or quickly perishing. Ephemeral, creatures of a day. Annual, Biennial, Perennial.

EARED.

E

EARED. Auritus, Auriculatus (auris, an ear). Having an appendage like a little ear. Exemplified in the leaf-leafletand frond .- Aurita folia: cordata ceterum, sed angulis prominentibus rotundatis. Eared, or more properly Ear-fhaped leaves are cordate or heart-fhaped, but have the corners prominent and rounded. Delin. Pl.-Auriculata folia; lobo laterali minore prope basin aucta. Jungermannia, Leers Nomencl.-with the addition of a fmaller lateral lobe near the bafe. This is the proper fense of auritus or auriculatus.-Auriculatum foliolum : twifted into the form of a little ear, as in Jungermannia ciliaris. Berkenb .- We have inftances of Eared Fronds in Acroftichum punctatum. Polypodium Pica, marginale.

The diminutives Earlet and Earletted feem fearcely neceffary.

EBRACTEATUS racemus, pedunculus. A raceme

raceme or peduncle, without any bracte or floral leaf; as in Ciftus guttatus.

ECALCARATA corolla. A corolla without any fpur, or fpur-fhaped nectary. As in Wolfenia.

ECHINATUM pericarpium. An echinated or burry pericarp. Befet with prickles like a hedge-hog (εχινος). As in Datura Stramonium.—Prickly is the proper translation of aculeatus.

ECHINUS. A Burr, or prickly pericarp.

EFFLORESCENTIA. Flowering feafon.-The time of the month in which different forts of plants first shew their flowers.

EGG-SHAPED (Ovatus). See Ovatum.-I cannot approve of Egged.

EGLANDULOSUS petiolus. A petiole without glands.

EGRET. From Aigrette, the French term for the Pappus, Down, or feathery Crown of fome feeds. See Pappus.

EIGHT-

EIGHT-PETALLED corolla; or confifting of eight diftinct petals. Octopetăla corolla: as in Mimufops.—When it is only deeply divided into eight parts, it is faid to be eight-cleft or ectofid; (corolla octofida) as in Fuchfia and Chlora.—We have an example of an eight-cleft calyx (calyx octofidus) in Tormentilla.

ELASTIC pericarp. Throwing open, or cafting off its valves with a fpring, as in Dictamnus albus. Not different from Diffiliens; which fee.

ELLIPTIC leaf. Folium ellipticum. Lanceolate, but with the breadth of an ovate leaf. Lanceolatum latitudine ovati folii. Delin. Pl.—In Philof. Bot. it is made fynonymous with ovale.—Both the elliptic and oval leaf are in the form of an ellipfe; and it appears to me that the former differs from the latter only in being more oblong; and yet broader than the lanceolate leaf.

L

EMAR-

Емаксимате. Emarginātum. Notched at the end. End nicked, Lichf. Soc. Applied to the leaf—to the corolla, as in Agroftemma coronaria, &c.—and to the ftigma: as in the clafs Didynamia.—Quod terminatur crena.

EMBRACING or stem-clasping leaf. Folium amplexicaule.

Empalement. See Calyx.

END-BITTEN. Præmorfus.

End-nicked. See Emarginate.

ENERVIUM f. enerve folium. A nervelefs leaf. Having no apparent nerves. Oppofed to nervofum.

ENNEANDRIA (suvea nine, and anne a hufband). Nine-stamened. The name of the ninth class in the Artificial System of Linneus; comprehending such plants as bear hermaphrodite flowers with nine stamens.—Also of an order in the classes Monadelphia and Diacia.

ENNEA-

ENNEAPETALA corolla: A nine-petalled corolla: or, a flower of nine petals: as in *Thea viridis*, *Magnolia*, and *Liriodendron*.

ENODIS. Knotlefs. Without knots or joints. In opposition to nodofus knotted. —Enodis culmus: qui continuus ft, nec articulis interceptus.—As in Schænus, Cyperus, Scirpus.—Nodum in Scirpo quærere, is proverbial.

ENSATÆ (enfis, a fword). The fifth order in Linneus's Fragments, and the fixth in the Natural Orders at the end of Gen. Pl. Containing fome of the Liliaceous plants, which have fword-fhaped leaves.

ENSIFORM leaf (folium ensiforme). Swordschaped, or sword-form.—Ancipital or two-edged, tapering from the base towards the point. As in some species of Ixia, Gladiolus, Iris, &c.—Anceps, a basis versus apicem adtenuatum.

ENTIRE. Integer.—Stem: quite fingle with L 2 fcarce fcarce any branches. Simpliciffimus, ramis vix ullis. Philof. Bot.—In Delin. Pl. it is explained to be, Simpliciffimus, ramis angustatis; and simpliciffimus is ramis vix ullis; whereas simplex is defined to be, continua ferie virfus apicem extensus: that is, the fimple stem has no branches, and the most simple stem has few—which seems strange.

An entire leaf. Integrum folium.— Undivided, without any finus or opening in the edge. Indivifum, finu omni deftitutum.

An entire perianth. Integrum perianthium. Opposed to fiffum, cloven. As in Genipa.

Sometimes the fuperlative degree is ufed, and must be rendered—quite, very or abfolutely entire.—Integerrimum folium: ipfo margine lineari, nec minimum fecto. With a linear edge, not in the least cut or divided. As in Rhamnus Frangula, Trientalis europæa.—It is applied alfo to the Stipula. EPIDERMIS. EPIDERMIS. The outer dry and very thin coat or covering of a plant; corresponding with the fcarf skin.—*Tunica exterior plantæ sicca tenuissima*.

EQUAL. A calyx or corolla is faid to be equal (aqualis), when the parts are of the fame fize and figure. In Utricularia, the calyx is equal; in Primula, Limofella, &c. the corolla is equal. Regular expreffes the idea better.

Equal Polygamy. See Æqualis.

Equinoctial flowers. Opening at a regular fated hour. See Vigilia.

EQUITANTIA folia. Equitant leaves; riding as it were over each other. Quum folii latera parallele connivent, ut interiora ab exterioribus includantur; quod non in conduplicatis obtinet. Philof. Bot.—When the fides of a leaf converge in parallel lines, fo that the inner leaves are inclosed by the outer ones: which is not the cafe in conduplicate leaves.—It is a term ufed L 3 in in foliation or leafing. In Delin. Pl. it is called equitans vernatio, and is thus explained—marginibus conniventia folia fitu opposito, ut alterum includat alterum. When two opposite leaves converge fo to each other with their edges, as that one in-

closes the other.—As in Iris, Hemerocallis, Acorus, Carex, Gramina.

ERECT or Upright. Erectus.—When applied to a ftem or branch, it is not taken ftrictly, but is fo called, when it approaches to a perpendicular with the ground—fere ad perpendiculum fe attollens. When a ftem or branch is entirely perpendicular without any bending, the word ftrictus is ufed.—In Philof. Botan. Erectus is oppofed to volubilis; and must therefore be understood to mean a stem standing of itself without support, in opposition to twining.

A leaf is faid to be *erect*, when it makes fo very acute an angle with the ftem as to be clofe to it—quod ad angulum acutifimum cauli adfidet.—When it makes makes an acute angle with the ftem, it is faid to be *patens*, fpreading.

An erect flower has its aperture directed upwards: as in Trillium fessile. Opposed to nutans, nodding.

An erect anther, fixed by one end to the top of the filament; contrasted with verfatilis and incumbens, which are fixed by the fide.

This term is applied also to the petiole, peduncle, and stipule.

The dimin. erectiufcula is fometimes ufed for fomewhat or nearly upright; and is applied to the capfule of Hellebore. The diffinction feems hardly neceffary, fince the term erect or upright is taken fo loofely.

EROSUM folium. An Erofe or gnawed leaf. When a finuate leaf has other very fmall obtufe finufes on its edge.—Cum folium finuatum margine finus alios minimos obtufos acquirit.—It has the appearance of being gnawed or eaten by infects.

L4

ESSENTIAL

ESSENTIAL Character of Vegetables. Character Effentialis. A fingle or peculiar natural mark, diftinguishing one genus from all others in the fame natural order. Innumerable instances of fuch occur in Linneus's Systema Vegetabilium.

Even. See Lævis.

EVERGREEN. Sempervirens. Flourishing through all seafons of the year.

EXARATUS. Scored.

EXASPERATUS. Roughened.

- EXPANSUS. Expanded, fpread out: as the calyx in *Helianthus.—Patens*, and the dimin. *Patulus*, are better expressed by *Spreading*—which fee.
- EXPLANATUS. Unfolded, or fpread out flat: as the lip of the corolla in Antirrhinum canadenfe.

EXSERTA (from exsero, to put forth) stamina; exsertæ antheræ. Protruded stamens mens or anthers. Standing out of the corolla, or appearing above it; as in fome fpecies of *Erica*. Oppofed to *inclufa*, fhut in, or inclosed within the corolla.

EXSTIPULATUS. Without stipules. As in many forts of Cistus, Cardamine partiflora, &c.

Exsuccus. Juicelefs, without juice; oppofed to fucculent. It refpects the fubftance of leaves.

EXTRAFOLIACEÆ *flipulæ*. Extrafoliaceous flipules. Growing on the outfide of the leaves, or below them.—Infra folium collocatæ. As in Betula, Tilia, and the clafs Diadelphia. Oppofed to intrafoliaceæ.—It is applied alfo to peduncles, and prickles.

EYE of a feed. Hilum-which fee.

FAC-

FACTITIOUS or Artificial Character.— Character factitius. A mark or marks diftinguishing one genus from another in an artificial arrangement: which is done by Ray and others in fynoptical tables.

FAMILIES of Vegetables. Linneus (Philof. Bot.) divides the vegetable world into feven families. I. Fungi. 2. Algæ.
3. Musci, or Mosses. 4. Filices, or Ferns.
5. Gramina, or Grasses. 6. Palmæ, or Palms. 7. Plantæ, or plants; including all that are not in the foregoing families. See Gentes.

M. Adanfon published a system, under the title of *Familles des Plantes*. And the Lichfield Society have given their translation of Linneus's Genera Plantarum the fame title, in English.

FARCTUS

F

FARCTUS (farcio, to ftuff or cram). Stuffed, crammed, or full; without any vacuities. —Farcium folium; a ftuffed leaf, full of pith or pulp; in opposition to tubulofum and fiftulofum, tubular or hollow like a pipe.—It is applied also to the ftem and pericarp.

Farina. See Pollen.

FASCICLE (fasciculus, dimin. from fascis), a bundle. A species of inflorescence, or manner of flowering, in which several upright, parallel, fastigiate, approximating flowers are collected together: as in Dianthus barbatus — Colligit flores erectos, parallelos, fastigiatos, approximatos. Hence

Fasciculāris radix: a fascicular or fascicled root. A species of the tuberous, with the knobs collected in bundles, as in Pæonia.

Fafciculāta folia: fafcicled leaves. Growing in bundles or bunches from the fame point, as in Larix.

FASTI-

FASTIGIATUS (fastigium, the pointed top, or roof of a building) .- Caulis: ramis æqualis altitudinis. A fastigiate stem, having branches of an equal height .---Fastigiati pedunculi: cum ita attollunt fructificationes in fasciculum, ut superne æquales altitudines evadant, ac si horizontaliter detonsi essent. Peduncles are fasti= giate, when they elevate the fructifications in a bunch, fo that they are all of an equal height, as if they had been fhorn off horizontally-or, when they are fo proportioned as to form an even furface at top, like a flat roof: as in Dianthus and Silene .--- Umbella fastigiata: gradatim assurgens. Delin. Pl. A fastigiate umbel, rifing gradually. This is a different idea from the former: and in Philof. Botan. the umbellate flower is thus defcribedest aggregatus ex flosculis pluribus imsidentibus receptaculo in pedunculos fastigiatos, omnes ex eodem puncto productos .- Here we are probably to understand fastigiatos in the former fense of level-topped : but I am at a lofs to conceive how Linneus came

came to annex this idea to fastigium and its derivatives; fince roofs are not flat in northern countries; and although they be fo in the east, and in some parts of Italy, yet fastigiatus seems applied to losty and pointed buildings. Thus Solinus fays of the pyramids—turres funt in Ægypto fastigiatæ, ultra celsitudinem omnem, quæ fieri manu possit.

- FAVOSUM receptaculum. A honey-combed receptacle. See Alveolate.
- FAUX. The jaws, chaps, throat, or opening of the tube of the corolla—or, between the fegments of the corolla, where the tube ends.—As in the clafs Didynamia and the Afperifoliæ in clafs Pentandria.— Hiatus inter lacinias corollæ ubi tubus terminatur.—The whole upper part of the tube is called the neck, collum : and the opening is fometimes termed the mouth, os.

Feather. See Pappus.

FEATHERED.

FEATHERED. Plumofus. See Down and Plumofus.

Some put feathered for pinnate, but improperly.

FEMALE plant. Femina planta. Which has female flowers only. Quæ floribus tantum femineis. Female flower. Femineus flos. Which has piftils or fligmas, without ftamens, or at leaft anthers.

Fence, put by Dr. Withering for the Involucre.

FERNS. See Filices.

FFRRUGINOUS colour. Color ferrugineus. The colour of rusty iron.

FERTILE flowers, producing feed.

FIBRE. Fibra—of a root. A thread or longitudinal canal, imbibing moifture from the earth. Canalis longitudinalis humidum terræ sugens.—These fibres properly constitute the roots of vegetables; the the main body, whence they ufually proceed, is the defcending trunk; and will, in many plants become a trunk, if the plant be turned upfide down.

A branch or fubdivision of a fibre is called a fibril. Fibrilla.

A root confifting wholly of fibres, as in many Graffes, is termed a fibrous root. *Radix fibrofa*.

Fiddle-shaped. See Panduræforme.

FILAMENT. Filamentum (Filum, a thread). The thread-like part of the ftamen, fupporting the anther, and connecting it with the flower. Pars elevans adnectenfque antheram.

Filaments, in the fame flower, are-1. Equal, or all of the fame length. 2. Unequal, or of different lengths. 3. Connate, or united. 4. Alternate. Moft filaments are fimple; fome few are bifid; and others Tricufpidate, or broad and trifid at the end.

FILICES.

FILICES. Ferns. The fourth family; and the fixth great tribe or nation, in Linneus's General Diftribution of Vegetables. The first order of the class Cryptogamia in his Artificial System. The fixty fourth order in his Fragments of a Natural Method: and the fifty-fifth of his Natural Orders, at the end of Gen. Pl.

FILIFORM (filiformis). Thread-fhaped. Of equal thickness from top to bottom, like a thread. Applied to peduncle, filament, ftyle, and receptacle.—It seems to me more elegant to use filament and filiform, than to translate them by thread, and thread-shaped.

FIMBRIATUS. Fringed. Fere idem ac decurrens in caule, & ciliatus in flore. Gifeke.—Almost the same with decurrent in the stem, and ciliate in the slower.—It appears to me, that it has no relation to the sirft, and that it is sufficiently distinct from the second.—I do not find this term either in Philosophia Botanica or Delineatio Plantæ. See Fringed.

Fingered

Fingered leaf. See Digitate.

FISSUM folium. Divifum finubus linearibus, marginibufque rectis.—Hinc bifidum, trifidum, quadrifidum, quinquefidum, &c. multifidum, a numero finuum.—Indivifo opponitur. See Cleft.

FISTULOSUS (fiftula, a pipe) caulis. A fiftulous stem. Hollow like a pipe or reed.
Opposed to farctus, stuffed or sull.— Fistulosum folium, a sistulous leaf; as in Oenanthe fistulosa.—Fistulosum nectarium, a sistulous nectary; as in Aconitum.

FIVE-CLEFT. Quinquesidus. See Cleft.

FIVE-FOLD leaves. Quina folia. In fives; growing by fives; or five and five together.

FIVE-LOBED leaf. Quinquelobatum folium. See Lobatum.

FIVE-PARTED leaf. Quinquepartitum folium.—Five-parted Corolla. Corolla quinquepartita. See Partitum. M FIVE- FIVE-TOOTHED. Quinquedentatus. Applied to petal and Capfule. See Dentatum.

FIVE-VALVED Quinquevalvis. Applied to the capfule. See Valva.

FLACCIDUS caulis, pedunculus. A flaccid ftem or peduncle. So feeble as not to fupport its own weight. Linneus ufes it in the fame fenfe with *laxus*, and in oppofition to *ftrictus*.—The flaccid ftem is exemplified in *Galium Mollugo*.

FLAGELLUM. A Runner. Caulis longiores decumbentes, internodiis tantum remotis aut apice gemmantes. Gifeke. See Runner. Hence a fort of Cactus has the name of flagelliformis, becaufe it refembles the lafh of a whip (flagellum).

FLAT leaf. Folium planum. Having an even furface; in opposition to channelled, grooved, &c.—When applied to fucculent leaves, it has both furfaces parallel, neither neither convex nor concave, in opposition to gibbous.

FLATTED. Compression. Better expressed by Compressed—which see.

FLESHY leaf. Folium carnofum. Full of pulp within: as in Sedum and other fucculent plants. The fubftance more ftiff than in the pulpy leaf: folium pulpofum. —Applied to the capfule in Mefembryanthemum—and to the root, in Valerian, &c.

FLEXIBLE. Flexilis. Eafily bent. Applied to the ftem and raceme.

FLEXUOSE (Zigzag, With.) Flexuofus. Changing its direction in a curve—from joint to joint or from bud to bud in the ftem, as in Ptelea, Smilax, Solidago flexicaulis—from flower to flower in the peduncle, as in Aira flexuofa and fome other Graffes. Secundum articulos, vel a gemma ad gemmam, f. a flore ad florem horfum vorfum flexus.

M 2

FLOAT-

FLOATING leaf. Folium natans. Lying flat on the furface of the water.

- FLORAL bud. Gemma florālis. Containing the flowers. In opposition to foliaris, containing the leaves. See Bud.—Floral leaf. Folium florale. Immediately attending the flower, but different from the Bracte, which fee.
- FLORESCENTIA. Florefcence, or the flowering feafon. The time when vegetables ufually expand their flowers.
- FLORET. Flosculus. The partial or feparate little flower of an aggregate flower: chiefly in the class Syngenefia, or compound flowers properly fo called; but applied alfo to the umbel, cyme, &c.— I prefer floret to floscule, because it is a regular diminutive of flower.

Flos. See Flower.

FLOSCULOSUS flos. A flofcular flower. A term of Tournefort's, for which Linneus fubftitutes fubstitutes tubulosus. It is opposed to semi flosculosus-ligulatus of Linneus. See Tubulosus.

FLOSCULUS, est flos partialis floris aggregati, compositi, umbellati, cymosi. See Floret.

FLOWER. The organs of generation in vegetables, with their coverings.—A flower, when complete, confifts of a calyx, corolla, ftamen, and piftil; but the effential parts are the anther and ftigma, which are fufficient to conftitute a flower, either together in hermaphrodite flowers, or feparate in male and female flowers.

Flower-stalk. See Pedunculus.

FOLIACEA *fpica*. A leafy fpike. Having leaves intermixed with the flowers.—Glandulæ foliaceæ. Leafy glands, or glands fituated on the leaves. See Gland.

FOLIARIS cirrus. A tendril placed on the leaf.—Foliaris gemma. A leaf bud. Containing leaves, not flowers,

M 3

FOLIATIO

FOLIATIO f. Vernatio. Foliation, vernation or leafing. The difposition of the nascent leaves within the bud.—The different modes of foliation are by—1. Involution.
2. Revolution. 3. Obvolution. 4. Convolution. 5 Imbrication. 6. Equitation.
7. Conduplication. 8. Plaiting. 9. Reclination. 10. A Circinal or spiral direction. See these terms explained in their proper places.

FOLIATUS caulis. A leafy stalk. In oppofition to Aphyllus, leafles.

FOLIOLUM (dimin. of folium). Partiale est folii compositi. See Leasset.

FOLIOSUM capitulum. A leafy head. Having leaves intermixed with the flowers.

FOLIUM (from $\varphi v \lambda \lambda o v$). Organum motus plantæ. Delin. Pl.—Folia transpirant & adtrabunt (uti Pulmones in Animalibus), umbramque præbent—in se tamen re ipsa musculi analoga sunt, licet non uti in animalibus caudá affixa, cum motus voluntarius in in bis dari nequeat. Philof. Botan.—Falium expandens par aëra superficiem, volatile, sæpe petiolatum. Regn. Veg. See Leaf.

FOLLICULUS (dimin. from follis, a bag) a follicle. A univalvular pericarp, opening on one fide longitudinally, and having the feeds loofe in it. Pericarpium univalve latere altero longitudinaliter dehifcens, nec futuræ femina affigens. Exemplified in Afclepias, Apocynum, Stapelia. See Conceptacle.

In Philof Botan. Follicles (folliculi) are veffels diftended with air: (air bags, With,) as at the root in Utricularia, and on the leaves in Aldrovanda.

FOOT. Pes. A measure from the bend of the elbow to the base of the thumb.

Footstalk, has been put by English writers both for the *peduncle* and *petiole*. See *Pedunculus* and *Petiolus*.

FORK. Furca. A divided prickle. Aculeus M 4 in in plures divifus. Called bifid or trifid from the number of divisions. Exemplified in Berberis, Ribes, Gleditsia, &c.

Forked, *furcătus*: branched or fubdivided, ufually into two.—Applied to anthers—to briftles; as in *Leontodon hifpidum*, Arabis thaliana—to fronds, as in Jungermannia furcata—and to ftems; but dichotomous is more proper, at leaft when they divide more than once.

FORNICATUS (fornix, an arch or vault). Arched or vaulted: which fee.

FOVILLA. A fine fubftance, imperceptible to the naked eye, exploded by the pollen in the anthers of flowers.

FOUR-CORNERED stem or peduncle. Tetragonus caulis—pedunculus. As in Verticillate plants.—Siliqua tetragona, a fourcornered filique, as in Sinapis nigra.

Four-

FOUR-FOLD leaves. Folia quaterna. Four together, or by fours, at each joint or whorl; as in Sherardia fruticofa, Afperula taurina, cynanchica, &c. feveral of the Galiums, Erica herbacea, &c.

FOUR-LEAVED tendril. Cirrus tetraphyllus. Four leaves to each tendril; as in Lathyrus fativus.

FOUR-LOBED leaf. Folium quadrilobātum, See Lobatum.

FOUR-PARTED leaf. Folium quadripartitum. See Parted.

FRINGED corolla — Fimbriāta. The edge furrounded by hairs or briftles not parallel or fo regularly difpofed as in the eiliate corolla, Exemplified in Menyanthes trifoliata.

FROND. Frons: anciently written fruns (from Bevue pullulo, to germinate or bud); and fignifying a twig of a tree with its leaves. Linneus applies this term to the peculiar leafing of Palms and Ferns. He defines defines it to be a kind of trunk or ftem, which has the branch united with the leaf, and frequently with the fructification.—Frons, folium e flipite factum.— Stipes, truncus a folio non distinctus. Regn. Veg.

FRONDESCENTIA. Leafing feason. Tempus æstatis, quo species singulæ plantarum prima folia explicant. The time of the year when plants first unfold their leaves.

FRONDOSUS caudex. A frondose stem; applied to Palms.—Frondosus prolifer flos; a leasy proliferous flower. It sometimes happens in the Rose, Anemone, &c.

FRUCTESCENTIA comprehendit tempus, quo femina matura dispergunt Plantæ. Fructescence, or the fruiting season, is the time when vegetables scatter their ripe feeds.

FRUCTIFICATIO: vegetabilium pars temporaria, generationi dicata, antiquum terminans, novum incipiens. Fructification, or fruiting, fruiting, is a tempory part of vegetables, appropriated to generation, terminating the old and beginning the new vegetable. —The effence of it confifts in the flower and fruit; and there is no fructification without anther, fligma, and feed.—When perfect it confifts of feven parts— I. Calyx. 2. Corolla. 3 Stamen. 4. Piftil. 5 Pericarp. 6. Seed. 7. Receptacle.—Of thefe the four first belong to the flower; the two next to the fruit; and the last is common to both.

FRUCTUS. Semen cum pericarpio.

FRUIT: fructus. The feed with its pericarp. It is a fruit, however, whether there be a pericarp or not.

Fruit-stalk. See Pedunculus.

FRUSTRANEA (frustra, in vain) polygamia. The name of the third order in the class Syngenesia of Linneus's Artificial System; comprehending such of the Compound flowers as have perfect florets in the disk, producing producing feed; but imperfect florets in the ray, which for want of a stigma are barren.—Cum flores disci bermaphroditi stigmate instruuntur & semina proferunt; flosculi vero radium constituentes, quum stigmate careant, semina proferre nequeunt.

FRUTESCENS caulis. A frutescent stem. From herbaceous becoming shrubby. As in Chironia baccifera and frutescens.

FRUTEX. A fhrub. Caulis adscendens supra terram absque gemmis—sed intra Fruticem & Arborem nullos limites posuit natura, sed opinio vulgi. See Shrub.

FRUTICOSUS caulis. A fhrubby ftem. Perennis cum caudicibus pluribus. See Shrubby.

FUGAX. Fugacious, fleeting, of fhort continuance, foon falling off: as the corolla of fome flowers.

FULCRUM (from *fultum*, which is from *fulcio*), Fulcre, prop, or fupport. A help to

to vegetables for their commodious fuftentation.—Fulera adminicula plantæ funt, pro commodiore fustentatione.

Fulcres are of feven kinds.—1. Stipula or Stipule. 2. Bractea or Bracte. 3. Spina or Thorn. 4. Aculeus or Prickle. 5. Cirrus, Clasper or Tendril. 6. Glandula, a Gland. 7. Pilus, Hairs or pubescence.

In Delin. Pl. thefe are otherwife enumerated. 1. Petiolus, the petiole, leafftalk or foot-ftalk. 2. Stipula. 3. Cirrus. 4. Pubes. 5. Arma, Arms or inftruments of defence; comprehending Prickles, Thorns and Stings. 6. Bractea. 7. Pedunculus, the peduncle, flower-ftalk and fruit-ftalk.—Thefe terms are explained in their feveral places.

Fulcratus caulis—ramus. A ftem or branch fulcrated, or furnished with fulcres.

Botanists frequently use the Latin word, with the Latin plural—fulcra—in English, which I cannot approve.

FULL flower. Flos plenus. When the corolla rolla is fo multiplied as to exclude all the ftamens. Polypetalous flowers are generally the object of plenitude. See Luxurians.

FUNGI, Fungufes or Mufhrooms. The firft of the great Families; and the ninth of the Nations, Tribes, or Cafts, into which Linneus has diffributed the whole Vegetable world. Alfo the fixty-feventh order in his Fragments of a Natural Method; the fifty-eighth of his Natural Orders; and the fourth order of the clafs Cryptogamia, in his Artificial Syftem.

FUNNEL-SHAPED corolla. Infundibuliformis corolla. Monopetalous and conical, with a tubular bafis: as in Lithospermum, Cynoglossum, Pulmonaria.

FURCA. See Fork.

FURROWED, fluted, or grooved Stem. Caulis fulcatus. Marked with deep broad channels longitudinally.—Applied fometimes to the leaf.

Fusi-

FUSIFORMIS (fusue, a fpindle) radix. Fufi. form or Spindle-schaped root. Simple or generally so, tapering downwards to a point; as in Radish, Carrot, Parsnep. Applied also to the leaf, as in Crassula rubens.

GALEA (an helmet). The upper lip of a ringent corolla. Linneus uses the words *labium fuperius* or upper lip.

G

GAPE. Rictus. The opening between the two lips, in an irregular corolla.

GAPING corolla. Hians. In opposition to closed, claufa.

GASHED leaf. Folium incifum f. diffectum. Having the fections or divisions usually determinate in their number; or at least more fo than in the Laciniate leaf.— The The Gashed differs from the Cleft leaf (fission,) in having the sections extending but little beyond the edge (though deeper than in the crenate leaf); whereas in the cleft leaf they reach almost to the middle. See Diffectum and Laciniatus.

> Hence Linneus has formed feveral compound terms, which fee under Incifum.

GEMINA folia. Eodem petiolo duo folia annectente.—Geminæ stipulæ. Duæ E duæ per paria.—Geminatus pedunculus. Ex eodem puncto bini. See Double.

GEMMA. A Gem or Bud. Hybernaculum plantæ e rudimentis foliorum præteritorum. See Bud.

GEMMATIO. Gemmation or Budding. Gemmæ constructio—ex foliis, stipulis, petiolis aut squamis.—The construction of the Bud; of leaves, stipules, petioles or scales.

GEMMIPARUS. Gemmiparous. Producing gems or buds.

GENERAL

GENERAL FENCE. The fame with Univerfal Involucre. See Involucrum.

GENERIC Character. The definition of the Genus. This is factitious, effential or natural. See *Genus* and *Character*.

Generic Name. Cognomen gentilitium. The family furname, as it were, of vegetables.

GENICULATUS. Kneed. (Knee-jointed: With.) Applied to a ftem, peduncle or awn, forming a very obtufe angle at the joints, as when the knee is a little bent. As in Alopecurus geniculatus.—In Delin. Pl. it is explained to be—internodiis interceptus, which is the fame with nodofus. In my opinion this is the difference that nodofus means knotty, or merely having knots; whereas geniculatus implies, that the ftem is bent in an angle at the joint. Flexuofus is totally different from this, for it implies deviation in a curve, not at an angle. See Knotted.

GENICULUM (dimin. from Genu). Knee, N knot, knot, or joint. Properly a joint, where there is a bending like that at the knee: but frequently put for a joint in general; and then fynonymous with *nodus*. See *Knot* and *Knotted*.

GENTES. Nations, great Tribes, or rather Cafts of Vegetables. Linneus makes nine of them—1. Palmæ. 2. Gramina or Graffes. 3. Lilia. 4 Herbæ. 5. Arbores, Trees. 6. Filices, Ferns. 7. Musci, Moffes. 8. Algæ. 9. Fungi.—The only difference between this arrangement and that of Families is, that the third, fourth, and fifth divisions of this are included in the feventh of that.

GENUS. The third fubdivision in a fystematical arrangement of vegetables; containing plants of the fame class and order, which agree in their parts of fructification.—Genera tot dicimus, quot fimiles constructæ fructificationes proferunt diversæ species naturales. Philos. Bot.—Genera tot sunt, quot attributa communia proxima diftinctarum specierum, secundum quæ in primordio creata fuere. Gen. Pl. in Præf. Genuses Genuses making an awkward plural, and genera not being English; I have often wished that we might be allowed to substitute kind for genus, and fort for species.

GERMEN. Germ, Ovary or Seed-bud. Rudimentum fructus immaturi in flore. The rudiment of the fruit yet in embryo. —Analogous to the Ovarium, fince it contains the rudiments of the feeds.—It is the lower part or bafe of the piftil, which fee. Germ, differing little from the Latin term, and being fufficiently eftablifhed as an Englifh word, may be ufed in preference to Germen: fuch, however, as adopt the latter, will, I hope, when they write in Englifh, ufe Germens in the plural, and not Germina.

A Germ, when it is included within the corolla, is faid to be *Superior*; but when placed below the corolla, *Inferior*. —On the contrary, when a corolla is placed above the germ, it is called *Superior (corolla fupera, flos fuperus)*; and when it incloses the germ, so as to have N 2 its its bafe below it, then it is called Inferior (corolla infera, flos inferus).—When a germ is elevated on a fulcre, befides the peduncle, it is faid to be *Pedicelled*, pedicellatum.

GERMINATIO est tempus, quo semina terræ mandata eadem excludunt in cotyledonum proventum. The time in which feeds vegetate.

GIBBOUSleaf. Folium gibbum. (Dr. Withering uses hunched). Having both surfaces convex, by means of a very abundant pulp. — Quod utramque superficiem facit convexam, mediante copiosiore pulpa. See Convex.—This term, when applied to a perianth, means only swelling out at bottom. Instances of this we have in the classes Diadelphia and Tetradynamia.

Gills. See Lamella.

GLABER caulis. Glabrum folium. A fmooth ftem or leaf. Superficie lævi, absque omni inæqualitate. Philof. Botan. where it is opposed to tomentofum. In Delin. Pl. it is explained GLADIATA *filiqua*. Gladiatum legumen. A gladiate or fword-fhaped filique or legume. As in Cleome arabica, Dolichos enfiformis.

GLANDULA. A Gland or Glandule. Papilla humorem excernens. Or, as it is explained in Regn. Veg.—fulerum fecernens liquorem. An excretory or fecretory duct or veffel. Exemplified in Urena, Ricinus, Iatropha, Paffiflora, Caffia, Opulus, Turnera, Salix tetrandra, Heliocarpus, Bryonia zeylanica, Acacia cornigera, Bauhinia aculeata, Prunus armeniaca, Amygdalus, Morifona.

Glands are ufually found on the leaves —the petioles—the peduncles—or the ftipules.

Glandulatio. Vafa fecretoria offert. The . fituation and ftructure of glands.

Glandulofum folium. Quod glandulas infidentes gerit, vel in dorfo, vel in ferra-N 3 turis. turis. A glandular leaf is that which has glands either on the furface or on the ferratures.

Glass-Shaped. See Cyathiformis.

GLOBOSUS. Globofe, Globular, Spherical —radix: *fubrotunda radiculis lateralibus*, root—roundifh, with lateral fibres; as in *Bunium*, *Ranunculus*.—Globofum capitulum: *undique rotundum*. A globular head of flowers, round on all fides.—Globofa corolla; a corolla or flower round like a ball; as in *Trollius*.— Applied alfo to the Receptacle—to the Germ—and to Seeds.

Globofo-depressium pericarpium. A flatted-globular, or more properly an oblate fpheroidal pericarp or fruit.

GLOCHIS (γλωχις, cuspis, a point). Glochides: mucrones apice retrorsum multidentati, nec curvati.—In Philos. Botan. we have bami triglochides, as in Lappula; but the hamus or hook has a curved point —the glochis a straight one. See Barb. GLO- GLOMERATA (glomero, from glomus a clue of yarn or thread) fpica—panicula. A glomerate fpike—fpiculis varie congeftis; having the fpikelets or component fpikes varioufly heaped together: as in Panicum italicum.—The glomerate panicle is exemplified in Poa ciliaris, and Daffylis glomerata.—The flowers grow pretty clofe together, in a globular or fub-globular form.—Scaliger derives Glomus from Globus; but others on the contrary derive Globus from Glomus.

GLOMERULUS (dimin. from Glomus). A Glomerule, or fmall glome.

GLOMUS, a Glome, or roundifh head of flowers.

GLUMA. Glume (from glubo, denudo, corticem detraho, to bark, or take the bark from a tree; from the Greek $\gamma \lambda u \varphi \omega$, to fcrape or carve). Calyx graminis, valvis amplexantibus. The calyx or corolla of corn and graffes, formed of valves embracing the feed.—It is thus explained by Varro (de R. R. I. c. 48): "Spica— N 4 " in " in ordeo & tritico tria habet continentia, " granum, glumam, ariftam.—Gluma eft " folliculus ejus.—Arifta & granum om-" nibus fere notum : gluma paucis.— " Videtur vocabulum etymon habere a " glubendo, quòd eo folliculo deglubitur " granum." In common language it is called the hufk or chaff.

Uniflora, bi- & multiflora. Having onc, two or many flowers. Univalvis bi- & multivalvis. Having one, two or many valves. Colorata, coloured; of any colour but green, the ufual one. Glabra, fmooth. Hifpida. Hifpid, fhaggy, or rough with hairs.

GLUMOSUS flos; habet receptaculum filiforme, cujus basis instruitur gluma communi.—A glumose tower is a kind of aggregate flower, having a filiform receptacle, with a common glume at the base. As in corn and graffes, Scirpus, . Cyperus, Carex.

GLUTINOSITAS (gluten, glue). Glutinofity or or glueinefs. Qualitas humoris lubrici. The quality of flippery moisture.

GLUTINOSUM folium. A glutinous leaf. Humore lubrico illitum. Befmeared with flippery moifture.

Gnawed. See Erofum.

GRAMINA. Graffes. The fifth family, and the fecond nation, tribe or caft in Linneus's General Divifion of the Vegetable Kingdom. The fourteenth order in the Fragments of a Natural Method in Philof, Botan.—and the fourth of the Natural Orders at the end of Gen. Pl.—In the Artificial Syftem, most of the graffes are contained in the fecond order of the fifth clafs.

GRANULATA radix. A granulate root. (Beaded, With.)—Particulis carnofis adfperfa. Confifting of feveral little tubers or flefhy knobs, refembling grains of corn: as in Saxifraga granulata.

Grooved. See Furrowed.

GYM-

GYMNOSPERMA planta ($\gamma \nu \mu \nu \sigma \rho$; naked, and $\sigma \pi \epsilon \rho \mu \alpha$ feed). A plant bearing naked feeds; in opposition to that which has the feeds inclosed in a capfule or other veffel.

- GYMNOSPERMIA. The name of the first order in the class *Didynamia*, in Linneus's Artificial Arrangement; comprehending those plants which have four stamens, of which the two middle ones are shorter than the two outer ones, within a ringent flower, succeeded by four naked seeds.— These are the same with the *Labiati* of Tournefort; and the *Verticillatæ* of Ray, and Linneus in his Natural Orders.—See *Didynamia* and *Angiospermia*.
- GYNANDRIA (youn a woman, and aung a man). The name of the twentieth class in the Linnean Artificial System, containing all plants with hermaphrodite flowers, which have the stamens growing upon the style; or else having an elongate receptacle bearing both stamens and styles. This class has been considerably reduced by some modern reformers, and the plants referred

referred to other claffes. Others have entirely difmiffed it from the fexual fyftem. The reduction appears reafonable; but the fingularity of the order *Diandria* furely may demand a feparate clafs for itfelf.

Η

HABITATIO plantarum. Locus ubi *fponte prognafcuntur*. The native place of growth of plants. Called by fome, barbaroufly and vulgarly, their babitat.

HABITUS plantæ. Commonly called the *babit* of plants; but more properly their *air, port,* or general external appearance. Linneus defines it to be, a certain conformity which kindred or congenerous vegetables have in their placentation, rooting, branching, intortion, budding, leafing, flipulation, pubefcence, glandulation, lactefcence, florefcence, &c.

Hence

Hence fuch characters are called *Characteres habituales*. And thefe, though not fufficient of themfelves to diftinguifh vegetables, yet frequently make them known at firft fight. Many of the natural claffes are directly apparent from this general fimilitude—as the *Caryophylleæ*, *Verticillatæ*, *Afperifoliæ*, *Umbellatæ*, *Leguminofæ*, *Siliquofæ*, *Columniferæ*, *Filices*. In forming the characters of the genus, thefe have been neglected, fince the fructification has been thoughtamplyfufficient for the purpofe.

HAIR. *Pilus*. A fpecies of pubefcence, or excretory ducts on the furface of plants; long, ftraight and diffinct.

HAIR-LIKE Filament. Capillare.

HAIRY leaf. Folium Pilofum. Covered with hairs—applied alfo to the ftyle, and to feeds. Hairy receptacle. Having hairs between the florets.'

Halbert-shaped. See Hastate.

HALVED head. Dimidiatum capitulum. Hemifpherical, mifpherical, or refembling half a head: round on one fide and flat on the other. —A halved fpathe. *Dimidiata ſpatha*. Invefting the fructification on one fide only.—A halved involucre. *Dimidiatum involucrum*. Placed wholly on one fide: as in Æthuſa.

- HAMUS. A hook. Mucro acuminatus curvatus. Hamus feminis: quo adhæret animalibus. See Hook and Pubefcence.
- HAMOSUS. Hooked. Hamofa feta. A briftle curved at the end.
- HAND. A meafure taken from the breadth of the hand: or three inches. See Mea*fures*.
- Handed or hand-shaped root-leaf. See Palmata.
- HANGING leaf. Folium dependens. Pointing directly to the ground.
- HASTATE leaf. Folium hastatum. Refembling the head of a halbert. Triangular, hollowed at the base, and on the fides, with the angles spreading.—Triangulare,

angulare, basi lateribusque excavatis, angulis patulis. Philos. Bot.—In Delin. Pl. it is thus explained. Sagittatum, angulis posticis sinu diviss ad latera prominentibus. —Exemplified in Rumex and Scutellaria hastifolia.

Hatchet-form. See Dolabriforme.

HEAD. Capitulum. A fpecies of inflorefcence, or a manner of flowering, in which feveral flowers form a kind of ball. As in Gomphrena. This is globular—roundifh —or halved. Leafy—or naked.

Flowers in this cafe are faid to grow in a head. *Capitati flores.*—A ftigma round like a ball, is called *Capitatum ftigma*; headed or head-fhaped.

- HEAPED panicle. Congesta panicula. Abundant in flowers, but not so close as in densa panicula.
- HEART of a feed. Corculum. The rudiment of the future plant. It confifts of the Plume (Plumula) and Roftel (Roftellum.) See Corculum.

HEART-

- HEART-SHAPED Leaf. Folium cordatum. Somewhat ovate, hollowed at the bafe, without pofterior angles.—It may be called either cordate or heart-fhaped; but I diflike bearted.
- HEART-TONGUED Frond. Cordato-lingulatus frons. Tongue-fhaped, and hollowed at the bafe. As in Afplenium Scolopendrium.
- HEDGE-HOGGED Pericarp. Echinatum pericarpium. Befet with prickles. A round prickly fet of flowers, like a hedge-hog, is called Echinus : a Burr.
- HEDGE-HOG-HOOKED. Echinato-uncinata *fpica*. A fpike befet with prickles which are hooked at the end.
- HELMET. Galea. The upper lip of a ringent corolla.
- HELMET-TUBED Petal. Galeato-tubulatum petalum. Having the tube fhaped like a helmet.

HEMISPHERICAL Calyx or Nectary. In form

form of half a fphere. The first exemplified in Tanacetum: the second in Narciffus Jonquilla.

HEPTANDRIA (επ]α feven, and ανης a husband). The feventh class in the fystem of Linneus, comprehending those plants which have feven stamens to the flowers.

HERB. Herba. In common language an Herb is used in opposition to a Tree. By Linneus the herb is put for that part of a vegetable, which arises from the root, is terminated by the fructification, and comprehends the stem, leaves, fulcres, and hybernacle.—Vegetabilis pars, orta a radice, terminata fructificatione, comprehenditque truncum, folia, fulcra, hybernaculum. Philof. Bot.—Herba adscendens, aëria spirans, movens. Regn. Veg.

Herbaceous plants, are fuch as perifh annually down to the root.

Herbaceous stem, perishing annually, fost not woody.

Herbs constitute the fourth nation, great tribe tribe or caft, into which Linneus divides all vegetables. See Gentes.

HERMAPHRODITE flower. Hermaphroditus flos. Having both anther and stigma. An Hermaphrodite plant is that which has only hermaphrodite flowers.

- HESPERIDEÆ. The name of the forty first order in Linneus's Fragments of a Natural Method; containing only three genera— Citrus, Styrax, Garcinia.
- HEXAGONUS caulis. A hexagonal ftem. Having fix angles.
- HEXAGYNIA (εξ fix, and youn a woman). One of the orders in the ninth and thirteenth claffes of the Linnean fystem; containing those plants which have fix ftyles in the flowers.
- HEXANDRIA ($\varepsilon \xi$, and $\alpha v \eta \rho$ a man or bufband). The name of the fixth clafs in Linneus's fyftem; comprehending those plants which have hermaphrodite flowers with fix equal flamens,—This is a natural clafs, nearly the fame with the Lilia O

or Liliaceous plants of other writers; and contains a great part of the fixth, ninth, tenth, and eleventh orders, in Linneus's Natural Arrangement, with the admixture of fome others.

HEXAPETALA corolla. A corolla confifting of fix diffinct petals.

HEXAPETALOIDES corolla. Divided fo near to the bafe as to have the appearance of a fix-petalled corolla, but in reality one-petalled, as in Agapanthus.

HEXAPHYLLUS calyx. A calyx of fix leaves or leaflets.

HILUM. The Eye—commonly fo called in the bean. The external mark or fcar of the umbilical chord on fome feeds, where they adhere to the pericarp.— Cicatrix umbilicalis. Regn. Veg.—Cicatrix externa feminis ab ejufdem affixione in fructu. Philof. Bot.—As in Cardiofpermum, Staphylæa, Dolichos, &c.

HIRSUTUS. Hirfute, rough with hair, fhaggy.—Nearly the fame with bifpid, but but having more hairs or briftles, and lefs ftiff. Applied to the ftem—frond calyx, as in *Serratula alpini*—and legume, as in *Lathyrus odoratus*.

HIRTUS. Rough-haired. Nearly the fame with *birfutus*. The hairs ftiffer than in *pilofus*.

HISPIDUS. Hifpid. Hifpidus caulis, a hifpid stem. Beset with stiff bristles, as in Brassica Erucastrum.—Hispidum folium, a hispid leaf. Having brittle stiffisch bristles scattered over the disk, as in Turritis hirsuta.

Since we cannot eafily find fignificant English terms for all the numerous varieties of pubescence, it is perhaps best to use the Latin terms where we can. Thus here, hirfute and hispid are preferable to shaggy and bristly: but hirtus not being convertible to an English word, we must fubstitute rough-baired, or rough with hairs.

HOARY leaf. Folium incanum. Covered O 2 with with a white pubescence: as in Draba incana, Cistus incanus.

- HOLERACEÆ, Holoraceæ, commonly written Oleraceæ (from Olus, anciently Holus, a pot-herb). The name of the twelfth order in Linneus's Natural Orders; and the fifty-third in his Fragments of a Natural Method; containing Spinach, Beet, &c. &c.
- Hollow stem. Cavus truncus, f. culmus. As in corn, reeds, &c.

Hollow-tubular. Tubulato-cavus.

Honey-cup.—Nectarium. Honey-cup is improper, because few Nectaries are in form of a cup; not more so indeed than glass ink-horn, filver terrene, Dresden China, and many other barbarisms. But why multiply these unnecessarily? See Nectarium.

Hooded. See Cowled.

HOOFED or Hoof-shaped. Ungulatus. Exemplified in the filicle of the Rose of Jericho.

Hook.

HO

HOOK. Hamus. A crooked pointed process.

HU

Hooked. Hamofus—A hooked briftle. Hamofa feta. A fort of pubefcence, in which the end of the briftle is curved. See Uncinatus.

HORIZONTAL leaf. Horizontāle folium.
Making a right angle with the ftem having the upper furface turned towards the fky.—Quod ad angulum rectum a caule difcedit. Philof. Bot. Paginam fuperiorem cælo obvertens. Delin. Pl. See Adverfum. —Horizontalis flos: a horizontal flower.
Parallel with the furface. Æquori parallelus.—Radix horizontalis; a horizontal root. Running immediately under the furface, and parallel to it.

HORN or Spur. Cornu f. Calcar. The hinder hollow part of the nectary in fome flowers, extended in a conical form: as in Orchis, Lark/pur, &c.—Conica productio bafeos. See Spur.

Horn-shaped. Cornutus. Husk. See Gluma.

HYALINE. Hyalinus. (Talos, from vw pluo, 03 the the colour of rain water.) The colour of glafs, with its transparency.

HYBERNACULUM. The Hybernacle.— Herbæ compendium fuper radicem antequam excrefcit. Philof. Bot.—Compendium berbæ totius, fquamofum. Regn. Veg.— A compendium of the whole herb, before it grows up. Or, in which the embryo of the future plant is inclosed by a fcaly covering, and fecured from external injuries during the winter.—It is either—a bulb (bulbus), formed from the remains of paft leaves—or a bud (gemma), from the rudiments of future leaves.

- HYBRIDA planta. A hybrid or hybridous plant, or mule. A monftrous vegetable produced from the mixture of two different fpecies.
- HYPOCRATERIFORMIS corolla. A falverfhaped corolla. Monopetalous, with the border fpreading out horizontally or flat from the tube, like an old fashioned falver. As in fome of the Asperifolix.—Heliotropium, Myosotis;—in Diapensia, Aretia, Androsace, Hottonia, Phlox, Samolus.

JAG.

JAG. Lacinia. A division or cleft in a leaf, calyx or corolla. This term relates chiefly to monophyllous calyxes and monopetalous corollas. These are named bifid, trifid, &c. according to the number of jags.

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JAGGED. Laciniātus. Cleft or divided. A jagged leaf. Folium laciniatum. Divided irregularly, and the parts fubdivided indeterminately.

JAWS. See Faux.

ICOSANDRIA (excor twenty, and any a hufband). The name of the twefth clafs in the Linnean fyftem; comprehending those plants which have hermaphrodite flowers with twenty or more stamens, growing on the infide of the calyx, not on the receptacle. — The situation, and not the number of the stamens is here to be attended to.—The calyx also is monophyllous and concave in this class; and

the

the claws of the petals are fixed into the infide of the calyx. To confound this clafs with *Polyandria* is abominable.

IMBERBIS corolla. A beardlefs corolla. Applied to fome forts of Iris, in oppofition to other forts, which have a bearded corolla (barbata). This beard is the nectary.

IMBRICATE. Imbricātus. Lying over each other, like tiles on a roof. Applied to leaves and their ferratures, in the bud; or, a term in foliation—to the ftem, when covered with fcales: testus, ut nudus non appareat—to the calyx, as in Hieracium, Sonchus, and other Syngenefia—to the fpike, having flowers fo clofe as to prefs over each other. Some ufe tiled; a term that can hardly pafs.

IMMERSED leaf. Submerfum folium. Growing under water. See Demerfum.

IMPARI-PINNATUM folium. An unequallypinnate leaf; terminated by an odd or fingle leaflet.

IMPERFECT

IMPERFECT flower. Imperfectus flos. Deftitute either of the anther or ftigma — In Rivinus and fome other authors it is fynonymous with apetalus of Tournefort, ftamineus of Ray, and incompletus of Vaillant.

- INÆQUALIS corolla. An unequal corolla. Having the parts corresponding, not in fize, but proportion. As in Butomus.
- INANIS truncus. A pithy ftem. Interne medulla spongiosus. Having a pith or spongy suftance within. When quite empty, it is called fistulosus.
- INCANUS. Hoary; which fee.—Linneus makes it fynonymous with tomentofus.— Folia (incana) quæ colorem glaucum habent & fere argenteum, quod ex fuperficie fingulari oritur. Philof. Bot. 219.

INCISUM f. diffectum folium. (Snipt, With.) or Gashed; which see.

Incifo-crenatum. Gash-crenate, or deeply cut; as in Geranium Reichardi.—Incifodenticulatum. Gash-toothletted.—Incifomultifidum. multifidum. Gafh-multifid.—Incifo-ferratum.—Gafh-ferrate. Thefe compound words found well in Latin. Perfons who think them harfh in English, must use the periphrases.

INCLUDENS calyx. An including or inclofing calyx. Shutting up and concealing the corolla. As in *Phalaris.*— *Includens fomnus*. When alternate leaves approximate to the ftalk during the night, fo that the flower or tender twig is protected between them.

INCLUSA anthera. Inclosed within the corolla: as in some forts of Erica. Opposed to exferta.

INCOMPLETUS flos, Qui caret perianthio aut corolla.—An incomplete flower is deftitute either of the perianth or corolla. —In Delin. Pl. it is made fynonymous with apetalous, as it is alfo by Vaillant. See Imperfect. Every apetalous flower is incomplete; but every incomplete flower is not apetalous. An imperfect flower wants one or both the effential parts; an incomplete incomplete flower wants one or both the covers.

- INCRASSATUS *pedunculus*. A peduncle incraffated, thickening or becoming thicker towards the flower. As in *Cotula*, *Tragopogon*, and most cernuous flowers. Opposed to *attenuatus*. It is applied also to the fcape.
- INCUMBENT. Incumbens. Leaning upon, or refting againft. Applied to the ftamens in the clafs Diadelphia—to anthers, which reft upon the filament: oppofed to upright, erecta—to the divisions of leaves which lie one over another.
- INCURVATUS caulis. An incurved ftem. Introrfum nutans. Delin. Pl. bowed or curved inwards—incurvum folium; dum furfum arcuatur verfus caulem; bowed or curved upwards towards the ftem. Made to be fynonymous with inflexum in Philof. Bot.—aculeus incurvus; introrfum flexus; a prickle, bowed or bent inwards. The terms for angular and curvi-linear bendings ought to be diftinct; I ufually apply bent

bent to the first, and bowed or curved to the second.

INDIVISUM folium. An undivided leaf; in opposition to fiffum, cloven. See Integer.

INERME folium. An unarmed leaf; without thorns or prickles. Opposed in *Philof. Bot.* p. 44, to *fpinofum*; in 233, to pungens.

INFERUM perianthium. An inferior peri-Inclosing the germ; or, having anth. the germ above the receptacle: opposed to superum .- Inferum germen. An inferior germ. Placed below the perianth. -An inferior perianth implies a fuperior germ; and a fuperior perianth implies an inferior germ .- This happy diffinction was originally Tournefort's : but his expreffion of calyx abit in fructum, and pistillum abit in fructum, was by no means fo clear as Linneus's germen fuperum and inferum. To understand the difference, we must observe the situation of the perianth or germ with refpect to the receptacle .---This

This diffinction might be exemplified in innumerable inftances: the inferior flower or perianth, and the fuperior fruit or germ, are in no plants more evident than in Cucumber, Melon, Gourd, Bryony and others of the clafs *Monæcia*, and the order *Syngenefia*.

- INFLATUS. Inflated. Hollow and puffed or blown up like a bladder. Applied to the perianth, as in *Phyfalis*—to the corolla, as in *Calceolaria*—to the nectary, as in *Cypripedium*—to the pericarp, as in *Fumaria cirrhofa*, and *Colutea*.
- INFLEXUS. Inflex or inflected. Bent upwards, at the end, towards the ftem. Applied to the leaf; and alfo to the calyx, when it means only bent inwards. See Incurvatus.

INFLORESCENTIA. Inflorescence, or manner of flowering. Modus quo flores pedunculo plantæ annectuntur. The various modes in which flowers are fastened to the plant by means of the peduncle. These are—I. Spadix. 2. Cyme. 3. Umbel. bel. 4. Spike. 5. Ament. 6. Strobile. 7. Corymb. 8. Raceme. 9. Panicle. 10. Thyrfe. 11. Fascicle. 12. Head (Capitulum). 13. Whorl (Verticillus). These are all explained in their proper places.

INFRACTUS caulis f. culmus.

Bent in at angle, fo as to appear as if it were broken: as in Alopecurus geniculatus.

INFUNDIBULIFORMIS corolla. A funnelfhaped corolla. Monopetala, conica, tubo imposita. Monopetalous; Having a conical border, rifing from a tube. As in Lithospermum, Anchusa, Cynoglossum, Pulmonaria, Asperugo, Lycops, Tournefortia.

INTEGER calyx. An entire calyx. Oppofed to fiffus — Exemplified in Genipa. — Integer caulis. Simplicifimus, ramis vix ullis. Philof. Bot. — Simplicifimus, ramis angustatitis. — Delin. Pl. where Simplicifimus is explained by ramis vix ullis. — In Philof. Bot. Integer is a species of the Simplex; which means, that the stem is continued continued in one unbroken feries from top to bottom—that is, has no branches. How then comes *Integer*, Entire, to have fearcely any branches? Should one not fuppofe that an *Entire* ftalk was unbroken, as well as a *Simple* ftalk? I confefs my ignorance, in hopes of being better informed.—*Integrum folium*. An entire leaf. *Indivifum*, *finu omni deftitutum*. Undivided, having no finus.

Integerrimum folium. A leaf quite or abfolutely entire. Cujus margo extimus integer abfque omni crena eft. Philof. Bot.—Ipfo margine lineari, nec minimum fecto. Delin. Pl. Having the margin or edge entire, without any notches—or, without being in the leaft cut. Integrum therefore refers only to fuch finuations as extend far into the difk of the leaf; and a leaf may be integrum, entire, although the edge is indented.

INTERFOLIACEI flores f. pedunculi. Interfoliaceous flowers or peduncles.—Inter folia opposita, sed alternatim collocati. Between opposite leaves, but placed alternately nately with them: as in Afclepias. Contrafted with oppositifolii.

- INTERNODIUM. The internode, or fpace between knot and knot, or joint and joint. In Englifh we have no term appropriate to this idea, for which reafon it feems beft to anglicize the Latin term. The joint is properly the articulation itfelf, from *junciara*; although in common language we use it also for the space between two joints.
- INTERRUPTA *fpica*. An interrupted or broken fpike. Divided by intervals of fmaller flowers. As in *Mentha fpicata*.
- INTERRUPTE *pinnatum folium*. An interruptedly pinnate leaf. *Foliolis alternis minoribus*. Having fmaller leaflets between each pair of larger ones.

INTORSIO. Flexio partium versus alterum latus. Philos. Bot.—In Delin. Pl. it is called Torsio, and is thus explained. Directio plantæ in unam alteramve plagam a verticali diversam.—The writhing, bending, ing, turning, twining or twifting of any part in a vegetable towards one fide or other-or, in any direction from the vertical. Thus the ftem in fome plants twines from right to left; as in Tamus Dioscorea, Rajania, Menispermum, Cisfampelos, Hippocratea, Lonicera, Humulus, Helxine .- In others from left to right; as in Phaseolus, Dolichos, Clitoria, Glycine, Securidaca, Convolvulus, Ipomæa, Cynanche, Periploca, Ceropegia, Euphorbia, Tragia, Basella, Eupatorium, Tournefortia. It is also applied to the Clasper or Tendril; as in Leguminous plants, Vine, Bryony. In this laft it is observed by Grew, that the tendril having made two or three turns one way, is then directed the contrary way, in order to be more fure of its hold. To the corolla, which, twifts to the left in Asclepias, Nerium, Vinca, Rauwolfia, Periploca, Stapeliato the right in Pedicularis, Trientalis, Gentiana .- It is applied alfo to the Piftil and Germ-to the Spike-to the Awn, as in the Wild Oat-to the beak of the Seed, as in Geranium-to the peduncle,

as

as in Mnium bygrometricum.—When we fpeak of right and left, we fuppofe the fpectator to have his face turned towards the fouth. See Twining.

INTORTUS *Stylus*. A ftyle twifted inwards.

INTRAFOLIACE *flipulæ*. Intrafoliaceous ftipules. Growing above or within the leaves.

Inversely beart-shaped. See Obcordatum.

INVERTENS *fomnus*. When during the night the more tender furface of the leaves is protected, by being inverted.

INUNDATÆ. The name of the forty-fifth order in Linneus's Fragments of a Natural Method; and the fifteenth of the Natural Orders in Gen. Pl.—Containing fuch plants as grow naturally in the water.

INVOLUCRUM. An involucre (from involvo, to wrap up). Calyx (umbellæ) a flore remotus. A calyx remote from the the flower, particularly in the umbel, but applied alfo to the whorl and other kinds of inflorefcence.

Involucrum universale. A universal or rather general involucre; placed at the origin of the universal or general umbel.—Partiale. A partial involucre; at the origin of the partial umbel.—Proprium, a proper involucre; placed beneath a fingle flower.

Involucres are one-leafed, &c. or manyleaved, according to the number of leaves of which they are composed. Involucrum monophyllum, &c. polyphyllum.

Involucrum dimidiatum. A dimidiate or halved involucre. Ab altero latere deficiens; deficient on one fide.

Involucratus. Involucred. Having an involucre. As umbels, whorls, &c.

Involucellum. An Involucret. A little or partial involucre. (Partial Fence, Withering.) As in Umbellate plants and Euphorbia.

INVOLVENS fomnus. When the leaflets of P 2 compound compound leaves, during the night, approach by their tips only, making an arch or hollow underneath.

INVOLUTA foliatio f. vernatio. Involuted foliation or vernation. Quam margines laterales (foliorum in gemma) utrinque introrfum fpiraliter involvantur. Philof. Bot. Foliorum lateribus utrinque fpiraliter contortis verfus fuperiorem paginam. Delin. Pl. When leaves within the bud have their edges rolled fpirally inwards on both fides towards the upper furface. As in Lonicera, Euonymus, Pyrus, Populus, Viola, &c.

JOINT. Articulus. According to Linneus, that part of a culm which lies between two knots. See Internodium.

JOINTED. Articulatus. Applied to the root, in Lathræa, Oxalis, Martynia, Dentaria—to the stem or culm, in corn and grasses—to the leaves, when one leasset grows from the top of another—to the spike, peduncle, petiole, capfule, filique and legume.

IRREGU-

RREGULARIS corolla. An irregular corolla. Quæ limbi partibus, figura, magnitudine, aut proportione diversa est. Philos. Bot. In Delin. Pl. we read et proportione. Different in the figure, fize, or proportion of the parts of the border. I prefer the disjunctive, becaufe a diverfity in any of the above-recited circumstances is fufficient to produce an irregularity .- The term is originally Rivinus's, whofe arrangement is founded on the regularity or irregularity of the corolla. Jungius expressed the idea by the term difformis-Ray, Tournefort and others by Anomalus (flos).-Dr. Berkenhout's explanation gives Jungius's idea.-An irregular flower is that whofe parts want uniformity.

JUGUM. A yoke, couple, or pair of leaflets. —Hence folium conjugatum, a leaf paired or having one pair of leaflets, of which there are many inftances in the clafs Diadelphia.

JULUS. A Catkin or Ament. For this term of Tournefort's and others, Linneus fub-P 3 ftituted ftituted Amentum. Hence Herman and others had a clafs of trees entitled Juliferæ.

K

KEEL. Carina. The lower petal of a papilionaceous corolla, inclofing the ftamens and piftil: ufually fhaped like a boat.

Keeled. Carinatus. Having a longitudinal prominency upon the back. Applied to the leaf, calyx and nectary.

KIDNEY-SHAPED leaf. Folium reniferme. Roundifh, and hollowed at the bafe without angles. Applied alfo to the anther and feed, which being folid bodies, have really the form of a kidney; whereas a leaf, being a plane furface, refembles the fection of a kidney. This diffunction is to be obferved in feveral other cafes.

Kneed or Knee-jointed. See Geniculatus. KNOT. KNOT. Nodus. A protuberant joint in the ftem of fome plants, particularly in corn and graffes. An admirable provision to ftrengthen their otherwife weak hollow culms.

- KNOTTED or Knotty. Nodofus. Having knots or fwelling joints.—The terms Articulatus, Geniculatus, and Nodofus, do not feem to be well diftinguished by Linneus. The first appears to me to mean jointed in general; the last—jointed with a fwelling or protuberance. The difference between this and the fecond has been already explained under Geniculatus.
- KNOTLESS. Enodis. Without knots. Continuus abfque articulis. Applied to a ftem: In this explanation there is a confusion between nodus and articulus, and the latter is put for the knot itself; whereas in another place Linneus puts it for the space between the knots. See Joint.

P 4

LABI-

LA

LABIATUS flos. A Labiate or lipped flower. This is a term of Tournefort's. Linneus ufes the term Ringens, including under it both Labiate and Perfonate flowers. In Delin. Pl. Ringens (corolla) is made fynonymous with Labiate. This term is applied likewife to the calyx. See Ringens and Perfonata.

The confusion would be cleared up, if we might be allowed to put *Labiate*, for an irregular monopetalous corolla, with two lips; and to appropriate the term *Ringent*, to fuch as have the lips gaping or open—*Perfonate*, to fuch as have them closed.

Labium, the lip, is ufually applied by Linneus to both lips of a labiate corolla, with the diffinction of fuperior and inferior. But it is fometimes ufed for the lower lip in opposition to the upper lip, which is then called *Galea*, the helmet. LACERA LACERA corolla. A lacerated corolla. (Ragged, Withering.) Cujus limbus tenuissime dissectus est. Having the border very finely cut.

Lacerum folium. A lacerated leaf. Quod margine varie fectum est segmentis difformibus. Having the edge variously cut into irregular segments—as if it were rent or torn.

LACINIA corollæ. Quævis pars in quam limbus corollæ monopetalæ diffectus eft.— Any part into which the border of a monopetalous corolla is cut. It is applied alfo to monophyllous calyxes: and a calyx which has two laciniæ is faid to be bifidus, &c. Philof, Bot. p. 63.

LACINIATUS. Jagged. Folium laciniatum, Varie festum in partes, partibus itidem indeterminate fubdivis. This implies an irregularity in the division and subdivision, whereas lacinia is the fame with a part, segment or cleft; as Linneus has explained it.

Laciniatus flos, is a term of Tournefort's, for

for which Linneus puts multifida corolla.

Lacinŭla. Dimin. from Lacinia. A little jag, or fubdivision of the larger one.

LACTESCENTIA. Lactefcence or Milkinefs. Copia liquoris, qui effluit læfa planta. The liquor which flows abundantly from a plant, upon its being wounded. It has the name from the juice being commonly white, like milk: as in Euphorbia, Papaver, Afclepias, &c. Campanula, &c. and many of the plants in the first division of the class Syngenefia.—It is however yellow in Chelidonium, Bocconia, Sanguinaria, Cambogia: and red in Rumex fanguineus.

LACUNOSUM folium. A lacunofe or pitted leaf. Difco depresso intervenas interjectas. When the difk is depressed between the veins. Contrary to rugosum, wrinkled, in which it rifes.

LÆVIS. Even, level, very fmooth, polifhed. This term does not occur in *Philosophia* Botanica. In Delin. Pl. it is applied to the the stem, and is explained to be *fuperficie equali*. Having an even surface. Opposed to *striatus* and *fulcatus*, streaked and surrowed or grooved. Whereas glaber, smooth, is opposed to *asper*, *scaber*, &c. rough and rugged.—The *Even* stem is exemplified in *Chelidonium bybridum*.

In leaves it is commonly ufed in oppofition to rugofum, &c. and therefore means an even level furface: as in Statice Limonium. And yet in Crotalaria incanefcens, Lin. Suppl. 323. lævis is oppofed to albo-tomentofus. In Ethulia divaricata, it is oppofed to pubefcens. And in Philof. Bot. Glaber is interpreted to be, fuperficie lævi. The French tranflate it liffe. There is claffical authority for lævis being not only planus, politus, tasu non afperus, as læve clypeum; but alfo glaber, depilatus. Perf. Sat. 1. & Virg. Ecl. 6, &c.

LAMELLA. A thin plate. Applied to the plates of which the under part in fome Fungufes is composed: hence these are called *lamellated* or *lamellous* Funguses. *Gills* Gills is the common English name for lamella.

LAMINA. The border. Corollæ polypetalæ pars fuperior patula. The upper, broad or fpreading part of the petal, in a polypetalous corolla. Called *limbus*, in a monopetalous corolla.

LANA. Wool. Pili curvi densi. Delin. Pl. —fervans plantas ab æstu nimio. Philos. Bot. Crooked or curling, close, thick hairs: the principal use of which is to defend plants against too great a degree of heat.—As in Salvia canariensis, and Æthiopis. Sideritis canariensis. Marrubium. Verbascum. Stachys. Carduus eriocephalus. Onopordum. See Wool.

Lanatus. Woolly. Applied to the ftem; as in Stachys germanica, &c.—Lanatum folium. A woolly leaf. Quasi tela araneæ indutum—to which is added in Delin. Pl. —pilis sponte curvatis. With a covering resembling a spider's web, composed of hairs curling spontaneously: as in Salvia and Sideritis.

Sublanatus.

Sublanatus. Somewhat woolly.

- LANCEOLATUM folium. A lanceolate leaf. Oblongum utrinque fensim versus extremitatem attenuatum. Oblong, and gradually tapering towards each extremity: like the head of a lance.—Exemplified in Plantago lanceolata.—Some call it spearshaped, others lance-shaped or lanced; but Lanceolate appears to me in all respects preferable.—It is applied also to the Stipule, Bracte, and Perianth.
- Lanceolato-ovatum folium. A lanceolateovate leaf; partaking of both forms, or between both; but inclining more to the latter. An Ovate-lanceolate leaf, on the contrary, would incline more to the lanceolate. This is a general rule with refpect to thefe compound words.
- LANUGO. Down. Pili molles plantarum partes vestientes. Soft hairs clothing the parts of plants.

LATERIFOLIUS flos f. pedunculus. Ad latus baseos folii. By the fide of the base of the leaf. leaf. As in Claytonia, Solanum, Asperifoliæ.

- LATTICED. Cancellatus. Applied to the involucre in Atractylis cancellata. And to the capfule of Lily.
- LAXUS, in Philof. Bot. fynonymous with flaccidus, and oppofed to ftrictus.—Libere in arcum flexibilis. Delin. Pl.—A lax, loofe, flaccid, or flexible ftem. Eafily bent, in oppofition to ftiff.—It is applied alfo to the glume.
- LEAF. Folium. The organ of motion in a vegetable. Transpiring and attracting air and moisture, as the lungs do in animals; and affording shade to the vegetable. In reality, however, leaves are rather analogous to the muscles, although they be not as in them fixed by a tail, because in vegetables there is no voluntary motion. Leaves are either, 1. Simple, having one leaf only on a petiole, or proceeding from the same point—or, 2. Compound, having several leaves to one petiole: the component leaves are called. LEAFLETS.

LEAFLETS. Foliola. Others call them Leafits. But I follow the analogy of the language in forming diminutives. For the fame reafon, if we use *leaf*, we must not use *foliole*.

LEAFLESS. Aphyllus. Deftitute of leaves. Applied to the ftem and branches.

Leaf-stalk. Sec Petiolus.

LEAFY. Foliatus. Furnished with leaves: in opposition to leafles.—Or abounding in leaves, contrasted with fuch stems as have few.—It is applied not only to the stem, but to the head, spike, raceme and peduncle.

Leathery or leather-like. See Coriaceous.

LEGUMEN. A Legume. (Alegendo, Pulfe being commonly gathered by hand.) Pericarpium bivalve, affigens femina fecundum futuramalteramtantum.—A pericarp of two valves, in which the feeds are fixed along one future only. It is ufually of a membranaceous texture, and commonly onecelled. Some legumes however are twocelled—others jointed—others again divided divided transversely into feveral cells (*iftb-mis intercepta*), by contracting between the feeds.—The old English word was *Cod*: and the Legume of a Pea is still called a *Peas-cod*.—Pod is used both for the legume and filique indifferently: but they are so distinct that they ought not to have the same appellation. It seems better, therefore, to anglicize the Latin terms: and with respect to this, it is become sufficiently familiar to the English ear. Dr. Withering calls it the *fhell*.

LEGUMINOSÆ. Leguminous plants. Such as have a legume for the pericarp. The fame with the *Papilionacei* of Tournefort. It is one of Ray's classes. The order *Decandria* of the class *Diadelphia* in Linneus's fystem, contains these plants.

LENTICULARIS *fcabrities* (from Lens, a lentil). A fort of fmall glandular roughnefs, refembling fmall lentils, on the furface of fome plants. See *Scabrities*. Applied alfo to the capfule, in *Allamanda*, and then alluding merely to the fhape.

Level-topped. See Fastigiatus.

LIBER. (According to Scaliger, quafi luber, quia de arbore reluatur, f. refolvatur, or to ufe Cato's word glubatur. As from crefco comes creber; from facio, faber; from fuo, fuber; fo from luo comes luber, and thence liber.—But a more probable derivation is from the Æolic $\lambda \epsilon \pi o \rho$ for $\lambda \epsilon \pi o \varsigma$, which by changing π into \mathcal{C} became $\lambda \epsilon \mathcal{E} \eta \rho \varsigma$.)—Tegmentum tertium membranaceum fuccidum flexile. The inner bark of a vegetable; or the third integument, membranaceous, juicy and flexible. The wood is gradually formed from this; and according to Linneus, the corolla is a continuation of it. See Subftantia.

LIGNOSUS caulis. A woody ftem. Oppofed to herbaceous.

LIGNUM. The wood, or woody part of the trunk.—Liber præcedentis anni, nunc exfuccus, induratus, agglutinatus. The liber, or inner bark of the preceding year, deprived of its juice, hardened, and glued fast together.

Q

LIGU-

LIGULATUS (from ligula, a ftrap; which fome derive from ligo, to bind; others from lingula dimin. of lingua, a tongue; the first from its office, the fecond from its shape) flos. Ligulata corolla. A ligulate or ftrap-shaped flower. A species of Compound flower, in which the florets have their corollets flat, fpreading out towards the end, with the bafe only tubular. Cum corollulæ flosculorum omnes planæ, versus exterius latus expansa sunt. These are the Semi-flofculofi or Semi-flofcular flowers of Tournefort; and are comprised in the first division of the first order of Linneus's nineteenth class, Syngenefia Polygamia Æqualis.

LILIA. The name of the third nation, tribe, or caft of vegetables, in Linneus's *Regnum Vegetabile*, containing the Patrician rank, eminent for their fplendid flowers.

Liliacea corolla. A liliaceous corolla: having fix regular petals.

Liliaceæ. Liliaceous or Lily-like plants. The The name of one of Tournefort's claffes. Alfo of the tenth order in Linneus's Fragments of a Natural Method. They are divided among feveral (9-11) orders, in the Ordines Naturales, at the end of Linneus's Genera Plantarum.— This fine natural clafs is to be found in the clafs Hexandria of Linneus's Artificial Syftem.

- LIMBUS. The border or upper dilated part of a monopetalous corolla. Since we have only the word *border* in English, to express the upper spreading part, both in this and the polypetalous corolla, it would perhaps be better to preferve the Latin terms *limbus* for the first, and *lamina* for the second. For *limb* applied to border we have the authority of the aftronomers.
- LINEA or line. The twelfth part of a Paris inch. The breadth of the crefcent at the root of the finger nail. See *Meafures*.

LINEARE folium. A linear leaf. Æquali ubique latitudine, interdum utraque extre-Q 2 mitate mitate tantum angustatur. Of the fame breadth throughout, except sometimes at one or both ends. As in Grasses, Rosemary, &c.—Applied also to the petiole, involucre, perianth, petals, spike, &c.

Lineari-cuneiforme. Linear-wedged-fhaped. Between both, but inclining more to the latter.

Lineari-lanceolatum. Linear-lanceolate.

Lineari-fubulatum. Linear-fubulate.

LINEATUM folium. A lineate leaf. Nervis depression. The furface flightly marked longitudinally with depressed parallel lines. Lined is improper, as being used in a different sense. This term has been fometimes confounded with linear, which respects the form of the leaf. The terms being so alike, and this occurring feldom, it may perhaps be better to write—a leaf marked with lines.

LINGUIFORME, f. lingulatum folium. A tongue-fhaped leaf. Linear and flefhy, blunt at the end, convex underneath, and having

having ufually a cartilaginous border, as in Mesembryanthemum, Aloe, Hæmanthus coccineus.

Lingulatus flos. A term of Pontedera's. The fame with ligulatus; which fee.

Lip. See Labium.

LOBUS. A lobe. The part into which fome fimple leaves are divided .- Alfo the placenta, or main body of the feed deftined to nourish the heart, splitting ufually in two; thefe parts are called the lobes. See Cotyledon.

LOBATUM folium. A lobate or lobed leaf. Divisum ad medium in partes distantes, marginibus convexis. Divided to the middle into parts diftant from each other, with convex margins .- The latter claufe is omitted in Delin. Pl. and yet it feems neceffary to diftinguish this from folium fiffum, the cleft or cloven leaf.-Thefe leaves take the names of bilobate, trilobate, &c. or two-lobed, three-lobed, &c. from the number of lobes into which they are divided. LocuLOCULAMENTUM pericarpii. The cell of a pericarp or fruit. Concameratio vacua pro feminum loco.—Pericarpium uniloculare, biloculare, &c. A unilocular or onecelled; a bilocular or two-celled pericarp. If any one fhould diflike thefe compound words, he may write—a pericarp of one cell—of two cells, &c. And this may ferve as a general rule in the like cafes.

Loculus. The little cell of an anther containing the pollen. Loculi — divisiones laterales, tunicis factæ.

LOMENTACEÆ. (Lomentum, a fort of colour in Pliny, a lotu, being made by washing. But it alfo fignifies farina fricta, parched meal, or, according to others, farina fabacea, bean meal.) The name of the fifty-fixth order in Linneus's Fragments; and of the thirty-third in his Ordines Naturales.

LOOSE. Laxus. Which fee.

LUCIDUM folium. Quasi illuminatum. Delin. Pl.—Bright, shining, as it were illuminated. minated. See Nitidum.—Dr. Berkenhout underftands it to mean *clear*, *transparent* : and Dr. Withering uses the word *transparent* for it.

LUNULATUM folium. Subrotundum, basi excavatum, angulis posticis notatum. Phi-- lof. Bot .- In Delin. Pl. it is called Lunatum, and the explanation is fomewhat differently worded-fubrotundum, basi finu divisum, angulis posticis acutis .--- It is fingular that Dr. Berkenhout, who feldom gives any equivalent English terms, should tranflate lunatum, moon-fhaped; and lunula, a half-moon; though he explains it, rightly enough-fhaped like a fmall crefcent. In which fense only it is used in botany; though among the ancients lunatus is put for the shape of the moon, both when full and in a crefcent.

Lunulata is applied to the keel of the flower in Polygala myrtifolia. Alfo to the ftipule and fpike.—See Crefcent-shaped.

LURIDÆ. (Luridus, a dufky or livid colour. Linneus makes it fynonymous with Q 4 fufcus.) fuscues.) The name of the thirty-third order in Linneus's Fragments, and of the twenty-eighth in his Ordines Naturales.

LUXURIANS flos. A luxuriant flower. Tegmenta fructificationis ita multiplicat, ut effentiales ejusdem partes destruantur. Multiplies the covers of the fructification fo as to destroy the effential parts.—Luxuriancy is either Multiplicate, Full or Proliferous. All Luxuriant flowers are Monsters; but full flowers only (Pleni) are abfolutely barren.

LYRATUM folium. A Lyrate or Lyrefhaped leaf. Transversim divisum in lacinias, quarum inferiores minores remotiores.—Divided transversely into several jags, the lower ones smaller and more remote from each other than the upper ones. As in Geum urbanum.—This is one of the Compound leaves, and yet the figure (n. 76.) to which Linneus refers, is a simple leaf, not at all like that of Geum urbanum.

MALE

MA

M

MALE flower. Masculus flos. Bearing flamens only, without piftils; or at leaft wanting the fligma.

- Male plant. *Planta Mas.* Producing only male flowers. Otherwife called barren or abortive.
- Many-cleft or Multifid leaf. See *Cleft* and *Fiffum.*—It is applied alfo to the Co-rolla.
- Many-flowered glume and perianth. Gluma multiflora. Perianthium multiflorum. Inclofing feveral flowers.—Many-flowered peduncle and ftem. Pedunculus & caulis multiflorus. Supporting feveral flowers.

Many-fold corolla. See Multiplex and Multiplicatus.

Many-leaved calyx or tendril. Polyphyllus.

Many-parted leaf. Folium multipartitum. See Partitum, Parted.

Many-

Many-petalled corolla. *Polypetala*. Oppofed by Linneus to a monopetalous or onepetalled corolla. Other writers have commonly given feparate names to the corolla, according to the number of petals, as far as fix; calling the reft polypetalous. Linneus alfo makes the diftinction of *dipetalous, tripetalous*, &c. but calls them all polypetalous.

Many-valved glume. *Multivalvis*. Confifting of more than two valves, which is the common number.

MARCESCENS f. MARCIDUS. Withering, Shrivelling. Contabefcit nec decidit. Decaying without falling off. Applied to the perianth, in the clafs Diadelphia : and to the corolla, in Campanula, Orchis, Cucumis, Cucurbita, Bryonia, &c.

MARROW. Medulla. The pith of a vegetable. The inner veficular fubftance, or that which clothes the inner furface of a hollow trunk.

Masked

MASKED corolla. See Perfonata.

- MEASURES. Linneus feldom makes ufe of any other meafure befides the proportion between the parts. Since plants vary exceedingly in the fize both of the whole and all the parts, he has difcarded geometrical meafures, and has adopted others taken principally from the human hand and arm.
- a hair. One-twelfth of a line.
 - 2. Linea. A Line. The length of the little crefcent at the root of the finger nail. One-twelfth of an Inch.
 - 3. Unguis. A Nail. The length of a nail. Half an Inch.
 - 4. Pollex. An Inch. The length of the first joint of the thumb.
- 5. Palmus. A Palm, or hand. The breadth of the four fingers. Three Inches.

6. Spithama. A fhort Span. The fpace between the end of the thumb and of of the fore-finger extended.—Seven Inches.

- Dodrans. A long Span. The fpace between the end of the thumb and of the little finger extended.—Nine Inches.
- 8. Pes. A Foot. From the bend of the elbow to the bafe of the thumb.— Twelve Inches.
- 9. Cubitus. A Cubit. From the bend of the elbow to the end of the middle finger. — Seventeen (Paris) Inches: or fomething more than eighteen inches English.
 - Brachium. An Arm. From the armpit to the end of the middle finger.
 —Twenty-four Inches,
- 11. Orgya. A Fathom. The height of a man, or the fpace between the ends of the fingers when the arms are extended.

Observe that the above geometrical moassures follow the French standard; and that the English foot is eleven eleven inches and a quarter French, nearly. Our band is the breadth of the palm, or about four inches. And the Roman palm is 8.78 for architecture, and 9.79 in buying goods; English measure.

- MEDIOCRIS. Of a middling length. Applied to a petiole, that is of the fame length with the leaf. When it is fhorter than the leaf, it is faid to be *brevis*, fhort; when it furpaffes the length of the leaf, it is called *longus*, long.
- MEDULLA. Marrow or Pith. Substantia intima vesiculosa, internumve parietem trunci cavi obducens. Regn. Veget.— Crescit extendendo se & integumenta.— Fibræ medullaris extremitas per corticem protensa solvitur in gemmam imbricatam ex foliolis nunquam renascituris. Philos. Bot. See Marrow.

MEMBRANACEUS. The fubstance of parchment. Membranacea stipula. A membranaceous stipule; as in Arenaria rubra. —Membranacea valvula. — Membranaceus calyx calys—petiolus, complanatus more folii; flatted like the leaf itfelf.—Membranaceum folium; a membranaceous leaf. Quod inter utramque fuperficiem nulla evidenti pulpa featet. Having no diftinguishable pulp between the two surfaces.

MEMBRANATUS caulis. A membraned ftem. Complanatus more folii. Flattened like a leaf.

MENSURA. See Measures.

METEORICÆ vigiliæ. When flowers open and fhut according to the temperature of the air. See Vigiliæ.

MID-RIB. The main nerve or middle rib of the leaf, running from the bafe or petiole to the apex, and from which the veins of the leaf ufually arife and fpread. See *Rachis*, and *Rib*.

MONADELPHIA. (Movos and αδελφος one brotherhood.) The name of the fixteenth clafs in the Linnean System. Comprehending those plants which have hermaphrodite flowers, with one set of united stamens. stamens. They form a natural class, entitled Columniferæ.

- MONANDRIA. The name of the first class in the Linnean System, comprehending those plants which have only one stamen in a hermaphrodite flower.
- MONOCOTYLEDONES plantæ. Plants which have only one cotyledon or lobe in the feed; as Graffes, Palms, and Liliaceous plants. Linneus remarks that thefe are more properly Acotyledonous, fince the cotyledon continues within the feed.
- MONŒCIA. (Movoç, and ouxos a houfe.) The name of the twenty-first class in the Linnean system; comprehending the androgynous plants, or such as produce male and female flowers, on the same individual, without any mixture of hermaphrodites.
- MONOGYNIA. The name of the first order, in each of the thirteen first classes of the Linnean fystem. Comprehending fuch plants as have one pistil, or stigma only, in a flower.

Mono-

MONOPETALA corolla. A monopetalous or one-petalled corolla. The whole in one petal. It may be cut deeply, but is not feparated at the bafe. Exemplified in Convolvulus, Primula, &c.

The most remarkable forms of the monopetalous corolla are the Bell-shaped, Funnel-shaped, Salver-shaped, Wheelshaped, and Labiate.

MONOPHYLLUM (μονος, and φυλλον a leaf) perianthium. A monophyllous or oneleafed perianth. All in one; if cut, not feparated to the bafe. As in Datura, Primula. Applied alfo to the Involucre.

MONOSPERMA planta. A plant that has one feed to each flower. As in Polygonum, and Collinfonia. A monofpermous or one-feeded plant.—Monofperma bacca. A one-feeded berry; called monopyrena by the older botanical writers.

MONOSTACHYOS (μονος, and σ/aχυς a spike) caulis. A stem bearing a single spike.

NOKO

Moon-

MO

MU

Moon-fhaped. See Lunulatum and Crefcentfhaped.

Moffes. See Mufci.

MO

MOUTH. Os. The opening of the tube in the corolla.

MUCRO. (From µanços, long, according to fome; from µinços, *finall*, according to others.) A dagger-point. Hence

Mucronatum folium. A dagger-pointed leaf. Terminating in a fharp point like a dagger; as in Bromelia Ananas. Applied alfo to the calyx.—The diminutive mucronulatum is fometimes ufed.

MULE plant. See Hybrida.

MULTANGULARIS f. Polygonus caulis. A multangular stem. Having several corners.

MULTICAPSULARE Pericarpium. A multicapfular pericarp; or, a fruit of many capfules. Having feveral pericarps fucceeding to a flower. As in Caltha, Trollius, Helleborus. R MulMULTIDENTATA corolla. A many-toothed corolla. Cujus limbus aut petala margine diffecta funt. Having the border (in a monopetalous corolla) or the petals (if it be polypetalous) cut about the edge.

MULTIFIDUM folium. A multifid or manycleft leaf. Divided into feveral parts by linear finuses and straight margins. See Fiffum and Cleft.

Multifidus cirrus. A many-cleft tendril. Multoties divisus. Divided and subdivided several times.

Multifida corolla. A many-cleft corolla. The fame with laciniatus flos of Tournefort. Exemplified in Convolvulus Soldanella.

MULTIFLORUS. Many-flowered. Common to feveral flowers.—Caulis. A manyflowered ftem; as in feveral fpecies of *Iris*, &c.—Scapus. A many-flowered fcape; as in Primula officinalis, Auricula, Polyanthus, &c.—Calyx; as in Scabiofa, and the clafs Syngenefia; when the component ponent flowers are called *florets* or *flof*cules.—Pedunculus. A many-flowered peduncle; as in Browallia elata.

MULTILOCULARE pericarpium. A manycelled pericarp. Divided internally into feveral cells; as in Nymphæa.

MULTIPARTITA corolla. A many-parted corolla. Multipartitum folium. A manyparted leaf. Divided into feveral parts almost to the bottom.

MULTIPLEX Corolla, radius. Many-fold, or having petals lying over each other in two or more folds or rows.

MULTIPLICATUS flos. A multiplied flower. A fort of Luxuriant flower, having the corolla multiplied fo far as to exclude only fome of the ftamens.—The perianth and involucre feldom, the ftamens fcarcely ever, conftitute a Multiplicate flower. It is called a *Double*, *Triple*, or *Quadruple* flower, according to the number of rows in the multiplied corolla : and a double flower is the loweft degree of it, or the R 2 first first essay towards fulness.—In common language we improperly call all these variations Double flowers.

Polypetalous flowers are not unfrequently multiplied; as in *Ranunculus* and *Anemone*. Monopetalous flowers are very fubject to this variety; but very feldom become full, or lofe all their ftamens.

MULTISILIQUÆ. The name of the twentythird order in the Fragments of a Natural Method, in *Philof. Bot.*; and of the twenty-fixth in the Ordines Naturales, at the end of Linneus's Genera Plantarum. Comprehending those plants which have feveral filiques or pods fucceeding to each flower. As Columbine, Hellebore, &c.

MULTIVALVIS gluma. A multivalve or many-valved glume. Having more than two valves.

MUNIENS fomnus. When the upper leaves of a plant, which during the day had fpread out horizontally on long petioles, drop them at night, and hang down fo as as to form an arch all round about the ftem.

MURICATUS. Muricated. Punctis fubulatis adspersus. Having fubulate points scattered over it; or armed with sharp prickles, like the Murex shell-fish.—Applied to the stem—to the calyx, as in Crepis biennis—to the pod, as in Bunias —to the seeds, as in Caucalis, Ammi.

Hence we have

MURICATÆ for the name of the eleventh order in Linneus's Fragments of a Natural Method.

Muser. Moffes. The third of the Families, and the feventh of the Nations or Cafts, into which Linneus has diftributed all Vegetables.—The fixty-fifth order in his Fragments; and the fifty-fixth of his Ordines Naturales.—They form the fecond order of the clafs Cryptogamia, in his Artificial Syftem.

Hedwig has made confiderable difcoveries with refpect to the fructification of Moffes.

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MUTICUS.

MUTICUS.—Awnlefs.—Oppofed to ariftatus, awned, in Philof. Botan.— Mutica gluma; acumine deftituta. Without any point at the end. Delin. Pl.—In this fenfe we have Arifta mutica: which can mean only blunt, or having no acumen or fharp point. This term is applied to the calyx in Serratula; and to the anthers in Erica berbacea.

MUTILATUS f. Mutilus flos. A mutilated flower. Not producing a corolla, when it ought regularly to do it. This defect is commonly owing to a want of fufficient heat, either from climate or fituation; fometimes it is the effect of culture.

N

NAKED. Nudus. When applied to the Stem or Trunk of a vegetable, it fignifies, that it is without leaves, fulcres or arms. Qui foliis, fulcris & armis caret. Delin. Pl. -In

-In Philof. Botan. it is faid only to be deftitute of leaves, but that is expressed by the term aphyllus, leaflefs .- When applied to the Leaf, it fignifies, that it is destitute of all pubescence. Setis ac pilis destitutum : Delin. Pl. and is opposed to teElum, covered, in Philof. Bot. p. 233 .--When applied to the Flower, it implies, that the calyx is wanting; but it would be more properly called a naked flower, if the corolla were wanting as well as the calyx; however, it rarely happens that a flower is deftitute of both. Philof. Bot. p. 76.—When applied to the Receptacle, it means, that it is without hairs, briftles or chaffs.-When applied to a Head of flowers (Capitulum), it is opposed to foliofum, and implies that it has no leaves on it.-When applied to a Whorl (Verticillus), the meaning is, that there is no involucre or leaves. In the fame fenfe it is applied to the Raceme, Petiole, Peduncle, &c.

NAP. Tomentum. Soft interwoven hairs fcarcely difcernible. NAPPY or Tomentofe. Tomentofus. Covered with a whitish down, or with hairs interwoven and scarcely distinguishable. As the leaves of Cerastium tomentofum, &c.

- NATANS folium. A floating leaf. Placed on the furface of the water, in many aquatic plants; as Nymphxa, Potamogeton.
- Nations. See Gentes.—The fense in which the word Cast is used in the east Indies, best expresses the idea which Linneus feems to have affixed to this word.
- NATURAL CHARACTER of Vegetables, is that which delivers all poffible certain characteriftic marks of the fructification: and may therefore be used under any fystem or arrangement.—Such characters are given by Linneus in his Genera Plantarum; from the number, figure, fituation and proportion of the parts; rejecting taste, fmell, colour and fize.

NATURAL CLASS. An affemblage of feveral genuses of plants, agreeing in their parts parts of fructification, general appearance and qualities. We have inftances of fuch in the Umbellatæ, Verticillatæ, Siliquofæ, Leguminofæ, Compositæ, Gramina, &c.

NAVICULARIS f. Cymbiformis Valvula. A boat-fhaped valve. As in Ifatis and Thlaspi.

NECESSARY Polygamy. Polygamia Neceffaria. The name of the fourth order in the clafs Syngenefia; wherein the hermaphrodite florets of the difk, for want of a ftigma, are barren; but the female florets of the ray, being impregnated by the pollen from the others, bear perfect feed.

NECK. Collum. The upper part of the tube in a corolla of one petal.

NECTARIUM. The Nectary, or melliferous part of a vegetable, peculiar to the flower. It commonly makes a part of the corolla, but is fometimes entirely diffinct from it, and is then called a *Proper* Nectary. It is frequently in form of a horn or fpur: fometimes fometimes it takes the fhape of a cup, whence this part is named in English by fome the *Honey cup.*—Those who prefer the Latin termination use *Nectaria* in the plural, which is not English. Why do they not use *filamenta*, *fligmata*, &c.?

NERVOSUM folium. A Nerved leaf. Quum vafa fimpliciffima abfque ramulis extenduntur a bafi verfus apicem. Having veffels perfectly fimple and unbranched, extending from the bafe towards the tip. As in *Plantago lanceolata.*—It is applied alfo to the ftipule. Nervous has other appropriate fenfes, and therefore to be avoided.

NESTLING. Nidulans. Applied to feeds which lie loofe in pulp or cotton, within a berry or other pericarp.

NITIDUM folium. Glittering, gloffy. Quod glabritie lucidum est f. glabritie lucente. So fmooth as to fhine. Opposed to Opaque. Exemplified in Ferula and Angelica canadensis.—Nitidum germen, a gloffy germ, as in fweet-brier.

NODDING.

NODDING. Nutans. When applied to a ftem it is explained to mean, bent down outwards from the top:—when applied to a flower it fignifies that the peduncle is confiderably curved, but not fo much as in the *flos cernuus*; which, as the term implies, points directly to the ground.

Nodus. See Knot. — Nodofus caulis: geniculis crassionibus interceptus. See Knotted.

- Notched leaf. Folium crenatum. See Crenate, which is a better term.
- Nucamentum; the fame with Amentum. Hence Nucamentaceæ, the name of the feventeenth order in Linneus's Fragments of a Natural Method.
- NUCLEUS. A Kernel. The feed of a nut and of ftone fruits, contained within a fhell—Putamen.

Nudus. See Naked.

Nudiusculus. Almost, or rather naked.

NUT. Nux. A feed covered with a shell. Extending Extending not only to Nuts, commonly fo called, but to the Acorn, and all Stonefruits.

NUTANS. See Nodding.—Nuto properly fignifies to nod with the head, or to nod affent. Cicero ufes it for nodding to its fall, or being ruinous; alfo for hefitating or doubting in an opinion.

Nux. See Nut.—Semen tectum epidermide offeo. Delin. Pl.

Hence NucamenO a, the name of the

OB in composition is put for obverse : as

OBCONICUM Nectarium. An inverfely conical Nectary, fuch as we find in Narciffus minor.

OBCORDATUM petalum. An Obcordate or inverfely heart-fhaped petal: having the apex downwards. As in the clafs Monadelphia.—Obcordatum legumen; an inverfely verfely heart-fhaped legume: as in Polygala.—Obcordata filicula; an inverfely heart-fhaped filicle: as in Thlafpi Burfa Paftoris, or Shepherd's Purfe.

OBLIQUUM folium. An oblique leaf. Basi cælum, apice horizontem spectans. Having the base directed towards the sky, and the apex or point towards the horizon. This fense of the word oblique respects the position of a leaf; and is exemplified in Protea and Fritillaria. But it is also used in another sense, which respects the spaced obliquely to the petiole, as in Begonia.

Obliquus caulis. An Oblique ftem. A perpendiculari borizontalive linea discedens. Neither perpendicular nor horizontal. Respecting the general position of the ftem with regard to the earth; or having a lateral direction without being bent.

Oblongum folium. An Oblong leaf.— Cujus diameter longitudinalis aliquoties fuperat transversalem, & utraque extremitas segmento fegmento circuli angustior.—Having its longitudinal diameter feveral times exceeding the transverse one; rounded at both ends, but the curvature of each less than the segment of a circle.—Applied also to the spike and capsule.

Oblongiusculus. Rather or fomewhat oblong.

Oblongo-ovatum folium. An Oblong-ovate leaf. Between both, but inclining most to the latter.

OBOVATUM folium. An Obovate or inverfely ovate leaf. Having the narrow end downwards; or next the petiole, branch or ftem.

OBSOLETUS. Wornout, fcarcely diftinguifhable, very obfcure. Obfolete lobatum, ferratum, &c. Si non exacte lobatum, ferratum, &c. eft. Obfoletely lobed or ferrate: applied to leaves which are not quite regularly fo: or in which the lobes or ferratures are not very diftinguifhable: or feem as if almost gone or worn out.

OBTUSUM

OBTUSUM folium. An obtufe or blunt leaf. Ending bluntly, but within the fegment of a circle.—Applied to the perianth, in Convolvulus and Melia :—to the capfule, in Rhinanthus.

Obtusius Rather or fomewhat obtuse or blunt-bluntish.

OBVERSUM folium, f. verticale. An obverse or vertical leaf. Cujus basis angustior, ita ut basis concipiatur ubi nunc apex. Philos. Bot. p. 220.—Having the base narrower than the top, so that they seem to have changed places. See Obcordatum and Obovatum.

OBVOLUTA foliatio, f. vernatio. Obvoluta folia. Obvolute foliation, vernation, or leaves. Quum margines alterni comprehendunt oppositi folii marginem rectum.— When (as the leaves lie in the bud) the margins alternately embrace the straight margin of the opposite leaf.

OCTANDRIA (outw and ang, eight hufbands). The name of the eighth class in in the Linnean fyftem; comprehending those plants which have hermaphrodite flowers with eight ftamens.

OCTOFIDUS calyx. An eight-cleft calyx, as in Tormentilla. See Cleft.

OLERACEÆ. See Holeraceæ.

ONE-CELLED Capfule. Capfula unilocularis. As in Primula, Trientalis, &c.

ONE-FLOWERED Glume. Gluma uniflora. Including one flower only.—A oneflowered peduncle. Pedunculus uniflorus; fuftaining one flower.

ONE-LEAFED Calyx. Monophyllus. All of one piece.

ONE-PETALLED Corolla. Monopetala. All of one piece.

One-ranked. See Secundus.

ONE-SEEDED Berry. Bacca monosperma f. monopyrena.

ONE-SIDED. Unilateralis. Applied to a raceme

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raceme which has all the flowers inferted on one fide.

ONE-VALVED. Univalvis. Applied to the Glume in fome Graffes—to a Spathe opening on one-fide—to a Pericarp which has the outer fhell undivided.

OPACUM folium. An opaque leaf. Darkcoloured; not reflecting light: in oppofition to Nitidum, or Lucidum.

OPERCULUM (operio, to cover). A lid or cover to a capfule: as in fome Moffes, and Hyofcyamus.—Hence fuch a capfule is faid to be Operculata, Operculate, Opercled, or covered with a lid.—Some ufe Lidded, which I cannot approve.

OPPOSITA folia. Oppofite leaves. Growing in pairs, each pair decuffated, or croffing that above and below it.—Oppofiti rami, pedunculi. Oppofite branches and peduncles.—Contrasted with Alternate.

Oppositifolius *pedunculus*. A peduncle placed opposite to the leaf. This term is applied also to Stipules.

Opposite-

OP

Opposité-pinnatum. Oppositely-pinnate. See Pinnatum.

- ORBICULATUM folium. An orbicular, or circular leaf.—Cujus diameter longitudinalis & transversalis æquales, peripheria circinata. Having the periphery of a circle, or the longitudinal and transverse diameters equal.—Applied to a seed which is flat, with a round margin; as in Lens also to a globular spike.
- ORCHIDEÆ. The name of the fourth order in Linneus's Fragments; and of the feventh in his Ordines Naturales; containing Orchis and other genera allied to it.
- ORDO, an Order. A fubdivition of a Clafs; or the fecond branch in a Syftem. This fubdivition is ufually arbitrary; and is adopted principally, that too many genera may not occur at once to be diftinguifhed. —In Linneus's fyftem, the Orders of the first thirteen Classes are taken from the number of piftils in the flower. In the fourteenth and fifteenth, from the pericarp.

carp. In the fixteenth, feventeenth, eighteenth, twentieth, twenty-firft, and twenty-fecond, from the number, &c. of ftamens. In the nineteenth, from the difpofition and character of the florets.

ORGYA. A Fathom. See Measures.

Os. See Mouth.

OVALE folium. An Oval leaf. Cujus diameter longitudinalis superat transversalem, superiore & inferiore extremitate angustiore. Philof. Bot .- Ex orbiculato oblongum, utraque extremitate rotundata æquali. Delin. Pl .- Having the longitudinal diameter longer than the transverse one, and the curvature the fame at both ends. In Philof. Botan. the Elliptic leaf is made fynonymous with this; but in Delin. Pl. they are diftinguished .- In truth, an Oval leaf has nearly the fame proportion with the fection of a hen's egg; although it has not the difference of curvature at the two extremities which that and the Ovate leaf have. Whereas an Elliptic leaf, as Botanists understand it, is much longer S 2. in in proportion to its breadth, or more cccentric than the Oval.

- OVARIUM (from Ovum, an Egg). The Ovary or germ; the embryo or rudiment of the fruit. See Germen.
- OVATUM folium. An Ovate or Egg-fhaped leaf.—Cujus diameter longitudinalis fuperat transfversalem, basi segmento circuli circumscripta, apice vero eodem angustiore. The longitudinal diameter exceeding the transverse one; the base a segment of a circle; but narrower (or having a greater degree of curvature) at top.—The shape of this leaf is that of the longitudinal section of an egg. Egged founds unpleasant to my ears.—It is frequently consounded, by careles writers, with the Oval leaf: which see.
 - Ovato-lanceolatum folium. An ovate-lanceolate leaf. Between these two forms, but inclining to the latter.

Ovato-oblongum folium—femen. An ovateoblong leaf, or feed. Ovate lengthened out.

Ovato-

Ovato-fubulata capfula. An ovate-fubulate capfule. Between ovate and awl-fhaped, but most tending to the latter. As in Aconitum.

P

PAGINA *fuperior* — *inferior* folii. The upper and lower furface of a leaf. Otherwife called *fupinus* and *pronus difcus*.

PAIR. Jugum. Applied to the leaflets in pinnate leaves; which are faid to be bijuga, trijuga, &c. from having two, three, &c. pairs of leaflets.—Two-paired, threepaired, &c.

PALATUM. The Palate. Gibbofitas prominens in fauce corollæ. Philof. Bot.—Proceffus labii inferioris fuperiora verfus quo rictus occluditur. Delin. Pl.—A prominency in the throat of a corolla, in Labiate flowers —or, a procefs of the lower lip, extending towards the upper part, by which the gape or opening is clofed.

PALEA.

PALEA. A Chaff. Lamella receptaculo innata, flosculos distinguens. A thin membrane, springing from the receptacle, and separating the florets, in some aggregate flowers. Hence such a receptacle is called

Paleaceum. Paleaceous or Chaffy. As in Dipfacus, Scabiofa, &c. See Chaffy.

Paleaceus Pappus. A Chaffy crown or down to fome feeds; as in Bidens, Silphium, Tagetes, Coreopfis, &c.

PALMÆ. The fixth family; and the firft of the nine great tribes, nations, or cafts, into which Linneus has divided all vegetables. They are placed in the Appendix to the Artificial Syftem, and take the lead in the Natural Orders, though Linneus had placed them only in the fecond place, in his Fragments of a Natural Method.

Palmaris mensura. The measure of a palm or hand. See Measures.

PALMATA radix. A Palmate root. Confifting of feveral oblong tubers or knobs, fpreading fpreading out like the fingers. As in fome forts of Orchis.

Palmatum folium. A Palmate or handfhaped leaf.—Longitudinaliter in partes plures fubæquales divifum verfus bafin, qua tamen cohærent in unum. Philof. Bot.—Divifum ultra dimidium in lobos fubæquales. Delin. Pl.—Divided beyond the middle into feveral lobes that are nearly equal: as in Paffiflora cærulea. It refembles the hand with the fingers fpread; and is one of the fimple leaves: whereas the Digitate leaf refembles the fingers fpread, without the hand; and, having all the leaflets feparate, is one of the compound leaves.

PANDURÆFORME (Paudura, a mufical inftrument of the guitar kind, in Merfennus) folium. A guitar-fhaped leaf. (Viol-fhaped, Ray hift. 174.) The French call it en forme de violon.—Oblongum, inferne latius, lateribus, coarctatum. Philof. Bot. Oblong, broader below, contracted on the fides. In Delin. Pl. the explanation is differently worded.—Oblongum, lateribus S 4 inferne inferne coar Etatum. Oblong, contracted below at the fides. The former appears to me to be right.—It is exemplified in Rumex pulcher, and Convolvulus panduratus.

PANICULA (Dimin. from panica, mavies, coma; or rather from panus, the woof about the quill in the fluttle). Panicle.— Fructificatio fparfa in pedunculis diverse fubdivis. A fructification, or species of inflorescence, in which the flowers or fruits are scattered on peduncles variously fubdivided. As in Oats and some of the Graffes.

Panicula congesta. A heaped panicle. Having great abundance of flowers.

Panicula denfa. A denfe or clofe panicle. A higher degree of the preceding. Or rather, having the flowers clofe as well as abundant.

Panicula fpicata. Approaching in form to a fpike: as in feveral of the Graffes, which are commonly called Spiked Graffes.

Panicula

Panicula coarclata. A fqueezed panicle. Having the pedicels extremely near to each other.

Panicula patens. A fpreading panicle. Having the pedicels fpreading out fo as to form an acute angle with the ftalk.

Panicula diffusa. A diffused panicle. Having the pedicels fpreading out more and irregularly.

Panicula divaricata. A divaricating panicle. —Spreading out ftill more, at an obtufe angle with the ftalk.

PANICULATUS Caulis. A Panicled ftem. Having branches varioufly fubdivided.

Paniculata Gramina. Panicled Graffes. Having their fructifications in a panicle.

PAPILIONACEA (Papilio, a Butterfly). A Papilionaceous or Butterfly-fhaped corolla.—Irregular, and (ufually) four-petalled.

talled. The lower petal is shaped like a boat, and is called carina or the keel: the upper petal which fpreads and rifes upwards, is called vexillum, ftandard or banner: the two fide ones ftand fingly, being feparated by the keel, and are called alæ, the wings .- The keel is fometimes fplit, and then this corolla is properly five-petalled. These flowers form a natural clafs, called Papilionaceæ; and are to be found in the fifty-fifth order of Linneus's Fragments, and in the thirtyfecond of his Natural Orders. They are chiefly comprehended within the order Decandria of the class Diadelphia, in the Artificial System .- This is one of Tournefort's claffes; and is the fame with the Leguminofæ of Ray and other authors .--The Pea being the most obvious of these, fome call them Pea-bloffomed flowers.

PAPILLOSUM (Papilla, a nipple) folium. Quod tegitur punctis vesicularibus. Philos. Bot. This explanation is, in Delin. Pl. more properly referred to papulosum; and there the Papillose leaf is defined—tectum punctis punctis carnofis; having the furface covered with flefhy dots or points; and is made fynonymous with verrucofum, warted. If fo, the term might be fpared.

PAPPUS. (Anciently put for fenex, an old man, whence it was applied to the down on the feed of thiftles, &c. being like the gray hairs of old age.) Commonly tranflated Down: but hence arifes a confusion between this and the lanugo or tomentum on the furface of leaves, &c. which we ufually call down. Pliny however will justify us in fome degree: for fpeaking of the Cactus (l. 21, c. 16) he fays-Semen ei lanuginis, quam pappum vocant. Some endeavour to get rid of this difficulty by translating Pappus, the Feather, but I think not fuccefsfully; for we cannot fay a hairy feather and a feathered feather .- The French name is Aigrette. The Ladies have adopted that term : why may not we? Or if we call it Seed-down, all confusion will be avoided.

Linneus explains it to be — Corona (Jeminis) pennacea pilofave volitans, A feathery feathery or hairy flying crown to the feed.—The firft he calls Pappus plumofus; and indeed it refembles a feather in its ftructure:—the fecond, Capillaris pilofus or fimplex; having the hairs undivided. See Capillary.—This crown is either placed immediately on the feed, and is then faid to be feffilis or feffile; or elfe there is a thread interpofed between it and the feed, which Linneus calls Stipes, and then it is faid to be flipitatus, ftipitate or ftiped.—This Down or Egret is one of Nature's most obvious means of difperfing feeds to a confiderable diftance.

PAPULOSUM folium. (Papula, a pimple.) A pimply, bladdery or bliftered leaf.— Tectum punctis veficularibus. Covered with little blifters.

PARABOLICUM folium. A Parabolic leaf. Cujus diameter longitudinalis fuperat tranfverfalem, & a basi furfum angustatur in femiovatum. Philos. Bot. Having the longitudinal diameter exceeding the transverse one, and narrowing from the base upwards upwards into a half ovate.—In Delin. Pl. it is not fo fully expressed—versus apicem fension angustius rotundatum. Rounded gradually towards the top into a narrower form.

- PARASITICUS caulis. Parafitica planta. A parafitical ftem or plant. Alteri plantæ nec terræ innatus. Growing on fome other plant, not on the ground.—As Epidendrum, Tillandfia.
- PARTES primariæ. The primary parts of a Vegetable are—1. The Root, defcending, imbibing fluid, nourifhing. 2. The Herb, afcending, breathing air, moving.
 3. The Fructification, expanding, inhaling ether, generating.
 - PARTIALIS umbella. A partial Umbel: otherwife called Umbellula. A fmaller umbel, proceeding from the general or univerfal umbel.—Umbellula quæ prodiit ex univerfali.—The involucre at the foot of this is called the Partial involucre. Involucrum partiale.—Pedunculus partialis, a Partial peduncle, is a fubdivision of a common

a common peduncle. See Umbella and Pedunculus.

PARTITION. Disseptimentum. A wall feparating a pericarp internally into cells. -This is either Parallel: that is, approaching in breadth and its transverse diameter to the valves: as in Lunaria and Draba. Or, Contrary; that is, narrower, than the valves: or, as it is expressed more fully in Delin. Pl.-narrower, when the valves by being fqueezed or contracted become concave. Angustius ubi valvulæ coarctatæ evadunt concavæ.-This is exemplified in Biscutella and Thlaspi .- Linneus borrowed thefe terms from Tournefort; and fays that they are to be underftood cum grano falis .- I should have conceived a parallel partition in a filiqua or pod to have been in the direction of the valves-a contrary or transverse one, at right angles with the valves.

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PARTITUM folium. A Parted leaf. Simple, but divided almost down to the base.— According to the number of divisions it is called—Bipartitum, Tripartitum, &c. Bipartite partite or two-parted; Tripartite or threeparted, &c.—It is applied in the fame fenfe to the Perianth and Corolla.

PATENS folium. A Spreading leaf. Quod ad angulum acutum cauli infidet. Forming an acute angle with the ftem or branch on which it is placed; between erect and horizontal. Applied alfo to the Stipule and the Petiole.

Patentes Rami. Spreading branches. Making an acute angle with the ftem.

Patentissima folia f. petala. Leaves or petals fpreading very much: making almost a right angle with the stem or peduncle.

PATULUS (dimin. of Patens) calyx; as in Sinapis, and Ranunculus acris and repens.
—Pedunculus; bearing the flowers loofe or difperfed; oppofed to coarctatus, fqueezed or contracted.—I do not know that there is any difference in fenfe between Patens and Patulus.

PECTINATUM folium. A Pectinate leaf. A fort A fort of pinnate leaf, in which the leaflets are toothed like a comb: as in Artemifia pectinata.

PEDATUM folium (Pes, a foot,). A Pedate leaf. Cum petiolus bifidus latere tantum interiore adnetit foliola plura. When a bifid petiole connects feveral leaflets on the infide only. This is a fpecies of Compound leaf, and bears fome refemblance to a bird's foot. It is exemplified in Pafiflora, Arum and Helleborus factidus. It is applied alfo to the Raceme.

PEDATIFIDUM folium. A pedatifid leaf. This is to pedate, what pinnatifid is to pinnate; the parts of the leaf not being feparate; but connected, as in the feet of water fowl. Exemplified in Arum muscivorum.

PEDICELLUS. A Pedicel or Pedicle.—In Philof. Botan. it is interpreted—pedunculus partialis, a partial peduncle. But in Delin. Pl. a Partial peduncle is a fubdivision of a Common peduncle, fupporting a few flowers.—The genuine notion of of a *Pedicel* is, that it fupports one flower only where there are feveral on a peduncle; or, it is the ultimate fubdivision of a common peduncle, immediately connected with the flower itfelf.

PEDUNCULUS (dimin. from Pedo, pedare, the fame with fulcire, or prop or fupport. I am at a loss to conceive how Dr. Berkenhout came to derive it from the noun Pedo, Iplay-footed). A Peduncle. By older writers called the Foot-ftalk; by feveral moderns the Fruit-stalk. To the first of these I object, because we have then the fame term for the fupport of the fructification and of the leaf: to the fecond, becaufe, the peduncle being the fupport of the flowers as well as the fruit, we are reduced to the abfurdity of faying a many-flowered Fruit-ftalk. To both I object, because Peduncle is generally received, and is intelligible in every nation where Botany is studied.

The peduncle is the fulcre of the fructification, or a partial ftem fupporting that only. The explanation in *Philof. Bot.* is T thus thus expressed—truncus partialis elevans fructificationem, nec folia.—In Delin. Pl. thus—fulcrum fustinens fructificationem.— In Regn. Veget. it is faid to be ramus caulis floriferus; a flower-bearing branch from the stem. The last is the least accurate of the three; and wants the exclusion of the leaves, as in the first.

Ray and other old writers use the claffical term *Pediculus* for the foot-stalk of a leaf, flower, or fruit. Linneus probably changed it for *Pedunculus*, because the former signified a fort of infect, as well as the little stalk that supports a fruit.

With refpect to its Place, a peduncle may be

- 1. Radicalis. Radical, or proceeding immediately from the root: as in the *Primrofe*.
- 2. Caulinus. Cauline, or proceeding from the ftem.

3. Rameus. Rameous, or proceeding from a branch. These may be called in English English—a root-peduncle—a stem-peduncle—a branch-peduncle.

- 4. Petiolaris. Petiolary, or proceeding from the petiole.
- 5. Cirrhiferus. Cirrhiferous, or tendrilbearing.
- 6. Terminalis. Terminating or proceeding from the top of the ftem.
- 7. Axillaris. Axillary, or proceeding from the angle made by the leaf and ftem, or the branch and ftem.
- 8. Oppositifolius. Opposite to a leaf.
- 9. Lateriflorus. Having the flower on the fide of it.
- 10. Interfoliaceus. Among the leaves—I rather think that this is a miftake for Intrafoliaceus, within the leaf.
- 11. Extrafoliaceus. Without or on the outfide of the leaf.
 - 12. Suprafoliaceus. Inferted into the stem higher than the leaf or its petiole.

di V

With respect to their Situation, peduncles may be

- 1. Opposite to each other; or, 2. A.ternate.
- 3. Sparfi, fcattered; without any regular order.

4. Verticillati, in whorls.

Served were successfully and

With respect to their Number, they may be

1. Solitarii. Solitary or fingle.

2. Geminati. Double; two together, or in pairs.

In an Umbellule there are feveral equal peduncles diverging from the fame point or centre.

According to the number of flowers which a peduncle bears it is called uniflorus, biflorus, triflorus, &c. and multiflorus.—One, two, three flowered, and many-flowered.

With

With refpect to its Direction, a peduncle may be,

- I. Appress. Preffed close to the ftem.
- 2. Erectus. Upright.
- 3. Patens. Spreading.
- 4. Cernuus. Drooping. Pointing to the ground.
- 5. Resupinatus. Upfide down.
- 6. Declinatus. Bowed or curved downwards.
- Nutans. Nodding. Curved downwards more than in n. 6. but lefs than in n. 4.
- 8. Adfcendens. Rifing gradually.
- 9. Flaccidus. Weak, fo as to bend with the weight of the flower.
- wards with the leaf.
 - 11. Strictus. Stiff and straight.
 - 12. Flexuosus. Bending this way and that.
 - 13. Retrofractus. Bent backwards, as if broken.

T 3

With

With respect to its Measure, a peduncle is,

- 1. Brevis-brevisimus. Short, very thort.
- 2. Longus-longifimus. Long, very long.

With respect to its Structure, a peduncle is,

- 1. Teres. Round, cylindric, or rather columnar.
- 2. Triqueter. Three-fided.
- 3. Tetragonus. Four-cornered.
- 4. Filiformis. Like a thread. Of the fame thickness in all its parts.
- 5. Attenuatus. Tapering gradually towards the top.
- 6. Incrassatus. Growing gradually thicker towards the top.
- 7. Clavatus. Club fhaped. Thick at the end.
 - 8. Nudus. Naked.
- 9. Squamofus. Scaly.

10. Foliatus.

10. Foliatus. Leafy.

11. Bracteatus. Furnished with bractes.

- 12. Geniculatus. Kneed, Bent at the joints.
- 13. Articulatus. Jointed.

Peduncularis. Growing from a peduncle: as fome tendrils do.

- Pedunculatus flos—verticillus. A peduncled flower or whorl: in opposition to one that is close to the ftem—feffilis.
- PELTA. A flat fructification on fome Lichens, refembling a round fhield; whence its name.

PELTATUM folium. A Peltate or Targetfhaped leaf. Having the petiole inferted into the difk of the leaf, inftead of the edge or bafe, as is most usual. As in Nymphæa, Hernandia, Colocafia, Hydrocotyle, Tropæolum, Geranium peltatum.— Applied alfo to a stigma, when it is round and flat, like a pelta.

PENICILLIFORMIS appendix. An appendix T 4 to to the keel of the corolla in fome forts of *Polygala*; in fhape of a Painter's pencil. *Penicilliforme ftigma*. A pencil-fhaped ftigma: as in *Milium*.

PENNATUM folium. Bay. A feathered leaf. The fame with Pinnatum, which fee.

- PENTACOCCA capfula. A pentacoccous or five-grained capfule. Swelling out in five protuberances; or having five united cells, with one feed in each.
- PENTAGONUS caulis. A pentagonal or fivecornered ftem. It is a fpecies of Linneus's Ancipital ftem, and he feems to diftinguish it from Quinquangularis.—He defcribes the capfule of Euonymus as being —Pentagona, quinquangularis.
- PENTAGYNIA. The name of one of the Orders in the fifth, tenth, eleventh, twelfth, and thirteenth claffes in the Linnean Syftem; containing those plants which have five piftils in a hermaphrodite flower.

PENTANDRIA. The name of the fifth clafs in Linneus's fyftem; comprehending those plants plants which have hermaphrodite flowers with five stamens.

- PENTAPETALA Corolla. A pentapetalous or five-petalled corolla; or a corolla of five petals: as in the Umbellatæ, &c.
- PENTAPHYLLUS Calyx. A pentaphyllous or five-leaved calyx, or rather perianth: as in Ciftus, Adonis, Cerbera.
- PERENNIS Radix—Caulis.—A perennial root or ftem. Continuing more than two years.
- PERFECTUS *flos.* A perfect flower. Having both ftamen and piftil; or at leaft anther and ftigma: the fame therefore with *Hermaphrodite.* Delin Pl.—In Philof. Botan. it is fynonymous with *Petalodes* of Tournefort.—But the having a corolla only is by no means fufficient to conftitute perfection in a flower, according to Linneus's idea: neither does the want of it argue imperfection.

PERFOLIATUM folium. A Perfoliate or perforated leaf. Si basis folii undique cingat transfversim caulem. Philos. Bot.—Basis transf-

transversum cingente (nec antice debiscente) caulem. Having the bafe of the leaf entirely furrounding the ftem transversely (without any opening in front) .- The latter claufe of this explanation added in Delin. Pl. is not abfolutely neceffary to difcriminate this from the ftem-clafping leaf (Amplexicaule); if the terms of the two explanations in Philof. Bot. be carefully attended to. The bafe of that is , faid to furround the fides of the ftem; whereas in this, the bafe encircles it quite round; fo that it feems as if the ftem had been driven through the middle of the leaf. The Perfoliate leaf is well exemplified in Bupleurum rotundifolium.

After all, Folium perfoliatum appears to me to be an improper term. I fhould rather have faid Caulis perfoliatus; a perfoliate stem.

PERFORATÆ. The name of the fixtieth order in Linneus's Fragments of a Natural Method. So called becaufe the plants contained in it have the leaves perforated with fmall holes.

PERFO.

PERFORATUM folium. A Perforated leaf. Full of fmall holes, very apparent when held up to the light. As in Hypericum.

If there be any difference of meaning in the three terms *Perforatum*, *Pertufum*, *Punctatum*; the firft may be rendered *Perforated*; the fecond *Punched*; and the third *Dotted*. In *Delin*. *Pl*. they are fet down as fynonymous, and are explained to be—*adfperfa punctis excavatis*: that is, having hollow dots feattered over the furface. In *Philof Bot*. we find only the term *Punctatum*, explained in the fame manner. There alfo (p. 211) mention is made of leaves that are dotted underneath; as in *Anagallis* and *Plantago maritima*.

The term *Perforatum* is applied alfo to a Stigma, having a hole bored through it.

PERIANTHIUM (πεφι about, and ανθος a flower). The Perianth, or calyx of a flower when contiguous to the other parts of fructification. Calyx fructificationi contiguus.—In Regn. Veget. it is—corollæ approximatum : but it frequently happens that that a flower has a perianth with any corolla.—The Perianth is often, but improperly, called the calyx exclusively; for this latter term has a more extensive fignification. See Calyx.

Perianth of the fructification, includes the framens and germ.

Perianth of the flower, contains the flamens without the germ.

Periantb of the fruit, contains the germ without the stamens.

For the difference between Perianth and Bracte, fee Bractea.

 Periantbium Caducum. A caducous perianth. Falling before the flower opens.—Deciduum, deciduous. Falling after the flower opens.—Perfiftens, permanent. Continuing after the flower is withered.

2. Proprium, Proper. Belonging to one flower.—Commune, Common. Belonging to feveral.

- 3. Monophyllum, &c. Polyphillum. Oncleafed, &c. Many-leaved.
- Bifidum, &c. Two-cleft, Three-cleft, &c.—Bipartitum, &c. Two-parted, &c.—Integrum, Entire.
 - Tubulofum. Patens. Reflexum. Inflatum. — Tubular. Spreading. Reflex. Inflated, hollow, or puffed up like a bladder.
 - Abbreviatum. Longum. Mediocre. Abbreviated; or fhorter than the tube of the corolla. — Long; that is, longer than the tube. Middling; or about the fame length.
 - 7. Obtufum. Blunt.-Acutum, fharp.
 - 8. Spinofum. Thorny. -- Aculeatum. Prickly.
 - Æquale. Équal. Having all the parts corresponding in fize and proportion. —Inequale, Unequal.
- 10. Labiatum, Labiate, or lip-shaped.
- 11. Superum, Superior. Above the germ.-Inferum, Inferior. Below the germ.

12. Imbri-

12. Imbricatum, Imbricate.—Squarrofum. Squarrofe, or having a ragged appearance, from the irregular difposition of the fcales.—Calyculatum. Calycled. Having a smaller calyx or perianth at the base of the larger. Scariofum Scariofe. Tough, thin, and semitransparent.—Turbinatum. Turbinate, top.shaped: inversely conical: shaped like a boy's top or a pear.

PERICARPIUM ($\pi \epsilon \rho i$, and $\kappa \alpha \rho \pi o \varsigma$ fruit or feed). A Pericarp, Seed-veffel or Seedcafe. Vifcus gravidum feminibus, quæ matura dimittit.—Vafculum femina producens dimitten/que.—Ovarium fæcundatum. Philof. Bot. 52, 56, 92.—Germen defloratum feminiferum. Regn. Veg.—A vifcus big with feeds, or a veffel producing feeds, which it lets drop when they are ripe.— Or it may be confidered as the ovary or germ fecundated, or arrived to a ftate of maturity, after the flower is paft; containing ripe feeds analogous to fruitful eggs.

The most remarkable pericarps are the Capfule Capfule — Silique — Legume — Follicle — Drupe—Pome—Berry—Strobile.

PERICHÆTIUM (πεφι, and χαιτη juba). Involucrum fetofum, quod inter foliola bafin cingit.—A briftly involucre, furrounding the bafe, among the leaflets: in Moffes.

PERMANENT. Perfiftens.—Applied to leaves that remain on the plant till the fruit is ripe or after the fummer is over—To ftipules continuing after the leaves drop off; as in the clafs Diadelphia, and the order Polygynia of clafs Icofandria.—To calyxes, abiding after the corolla is withered; as in the clafs Didynamia.

PERSONATA (Persona a mafk) corolla. A perfonate or mafked corolla. Ringens, fed inter labia palato claufa. Ringent, but clofed between the lips by the palate. —But furely ringent or gaping with the lips clofed, is a contradiction in terms. It would better to define it, a fpecies of labiate corolla which has the lips clofed. See Labiatus.

Tournefort,

Tournefort, from whom Linneus adopted these terms, is clear and precise in his diftinction. A Labiate flower, according to him, is drawn out at bottom into a tube, and is widened out at top either into one or two lips. The piftil becomes a fruit of four feeds ripening in the calyx as in a capfule : as in Salvia; Horminum, Marrubium, Chamædrys .--A Personate flower differs from this in having the piftil becoming a capfule entirely diffinct from the calyx. It has fomething of the fame appearance as the labiate flower; but does not ill reprefent a mark, or the fnout of fome animals. This he exemplifies in Linaria, Antirrhinum, Pedicularis, Melampyrum.-There are fome irregular monopetalous flowers which Linneus includes under his Ringentes, that are neither Labiati nor Personati of Tournefort : as Digitalis and Scropbularia.

PERTUSUM. Punched. Applied to a leaf which has hollow dots all over the furface. See Perforatum.

1 outration

PES

Pes and Pedalis mensura. The measure of a foot. See Measures.

PETALUM (περαλου, from περαώ, to expand). A Petal. The Greek word fignifies a leaf; but it has been appropriated by Columna, and from him by other modern authors, the flower-leaf. - Tegmen floris corollaceum, Philof. Bot .- The corollaceous integument of the flower .- In flowers of one petal, the corolla and petal are the fame. In flowers of feveral petals, the corolla is the whole, and the petals are the parts. Or, to fpeak more accurately-in a monopetalous flower, the petal is the corolla, exclusive of the nectary: in a polypetalous flower, it is one of the leaves of which the whole corolla is composed.

In the former, it confifts of the *tube* and *limb*. In the latter, of the *claw* and *lamina*.

Petaliforme stigma. A petal-shaped stigma: as in Iris.

Petalinum nectarium. A petaline nectary. U Petalodes Petalodes flos. A petalled flower; or, a flower having petals; in opposition to Apetalous, destitute of petals, or having no corolla.

PETIOLUS. A Petiole, Leaf-stalk or Footstalk. Trunci species, adnectens folium. nec fructificationem. Philof. Bot. Fulcrum suftinens folium. Delin. Pl. Ramus foliiferus, folio proprius. Regn. Veg.—A partial stem, supporting the leaf, or connecting it with the stem or branch.—It fometimes happens, but very rarely, that the same foot-stalk supports both leaf and fructification, as in Turnera and Hibiscus.

- Petiolulus. A Partial Petiole. Connecting a leaflet with the main petiole, in compound leaves.
- Petiolaris cirrus. A petiolar tendril. Proceeding from the petiole of a leaf.—Pedunculus. A petiolar peduncle. Inferted into a petiole.—Gemma. A petiolar bud. Formed from a petiole.—Glandula. A petiolar gland. Growing on the petiole : as

as in Ricinus, Iatropha, Paffiflora, Cassia, Mimosa, &c.

Petiolatum folium. A Petiolate or Petioled leaf. Growing on a petiole or footftalk, inferted into it ufually at the bafe. Oppofed to feffile.

PILEUS. The cap of a Fungus, expanding horizontally, and covering the fructifications.

PILOSUM folium. A hairy leaf. Having the furface covered with long diftinct hairs: as in Cortufa, Juneus pilofus, fylvaticus, campestris.—Pilofum femen. A hairy feed. As in Centaurea and Tragopogon.—Pilofum receptaculum. A hairy receptacle. Having hairs between the florets.

PILUS. A hair. Ductus excretorius plantæ fetaceus. An excretory duct of a plant, in fhape of a briftle.—This appears to be an improper explanation of *bair* by *briftle*, inafmuch as a briftle is only a ftiff hair.— It is a fort of Pubefcence.

U 2

PIMPLED

PIMPLED or pimply leaf. See Papulofum.

PINNA. The large feather of a bird's wing; or a fin in fifh. Applied in Botany to the leaflet of fome compound leaves.

A fubdivision of the pinna is called *Pinnula*.

PINNATIFIDUM folium. A Pinnatifid leaf. By the Lichfield Society called Feathercleft.—*Tranfverfim divifum laciniis hori*zontalibus oblongis.—A fpecies of fimple leaf, divided tranfverfely by oblong horizontal fegments or jags—not extending to the midrib.

PINNATUM folium. A Pinnate leaf. Cum petiolus fimplex lateribus adnectit foliola plura.—A fpecies of compound leaf, wherein a fimple petiole has feveral leaflets fastened to each fide of it.

Conjugatum. Conjugate. Having only one pair of leaflets.

Bijugum. Having two—trijugum, having three—quadrijugum, having four pairs of leaflets.

Pinnatum

Pinnatum cum impari. Unequally pinnate. Terminated by a fingle or odd leaflet.

Pinnatum abrupté. Abruptly pinnate. Not terminated either by a leaflet or tendril.

Cirrhofum. Cirrhofely pinnate. Terminated by a tendril.

Pinnatum opposité. Oppositely pinnate. Having the leaflets placed over against each other in pairs.

Pinnatum alternatim. Alternately pinnate. Having the leaflets alternate along the common petiole.

Pinnatum interrupté. Interruptedly pinnate. Having fmaller leaflets interpofed between the principal ones.

Pinnatum articulaté. Jointedly pinnate. When the common petiole is jointed.

Pinnatum decursive. Decursively pinnate. When the leaflets run into one another along the common petiole.

U₃

Pinnulatum

Pinnulatum folium, f. pinnulata pinna. When each pinna is fubdivided.

- PIPERITÆ (Piper, Pepper). The name of the first order in Linneus's Fragments; and of the second, in his Natural Orders.
- PISTILLUM. Piftil or Pointal. Vifcus fructui adhærens, pro pollinis receptione.
 Philof. Bot.—Vifcus interius e medulla.
 Organum genitale femineum. Regn. Veg.
 —A vifcus or organ adhering to the fruit, for the reception of the pollen.—It is the fourth part of the fructification; and is fuppofed by Linneus to be a continuation of the medulla or pith.—Its appearance is that of a column or fet of columns in the centre of the flower: and, when perfect, it confifts of three parts—I. Germen; the Germ or Ovary. 2. Stylus; the Style. 3. Stigma.
- Pistilliferus flos. A pistilliferous flower. Having a pistil without stamens, Called a Female flower by Linneus.

PITCHER-SHAPED. Urceolatus. Swelling or bellying bellying out like a pitcher. Applied to the calyx, corolla and nectary.

PITH. See Marrow and Medulla.

PITTED leaf. See Lacunofum.

Placenta. See Receptaculum.

PLACENTATIO. Placentation. Est cotyledonum dispositio sub ipsa seminis germinatione. The disposition of the cotyledons or lobes in the vegetation or germinating of the seed.—Hence vegetables are distributed into—1. Acotyledones. 2. Monocotyledones. 3. Dicotyledones. 4. Polycotyledones.

Plaited. Plicatus. Folded like a fan. Diftinguished from waved by the folds being angular. Applied to the leaf; as in Alchemilla:—to the corolla; as in Convolvulus:—to the nectary; as in Narciffus Tazetta. It is also a term in Foliation and Placentation.

PLANTA. A Plant. In common language fynonymous with Vegetable: but fre-U 4 quently quently used in a more reftricted sense. Plants are placed Linneus in the last of the seven Families into which he has distributed the whole Vegetable kingdom. Comprehending all that are not Funguses, Algas, Moss, Ferns, Grass or Palms. They are, 1. Herbaceous. 2. Shrubs. 3. Trees. Philos. Bot. p. 37.—In Regn. Veg. he has funk the word Plantæ; and has divided them into Lilia, Herbæ, Arbores.

PLANUM folium. A Plane or flat leaf.— Quod utramque fuperficiem ubique parallelam gerit. Having the two furfaces parallel.—In Delin. Pl. it is—fuperficie æquali. Having an even furface: but this explanation is defective.

Plano-convexum Stigma. A plano-convex ftigma. Flat on one fide, and rifing on the other.

Plenus. See Full.

PLICATUS. Plaited. — Plicatum folium. Quum discus folii versus marginem ad angulos adscendit & descendit.—Plicata foliatio: foliatio: In plicas varias coarctata. See Plaited.

- PLUMOSA or *Plumata Seta*. A plumofe or feathered briftle. *Villoja*, composita. Having hairs growing on the fides of the main briftle. Refembling a feather.
- PLUMOSUS Pappus. Plumofe, feathered or compound Down. Pilis pennatis conflans — f. villofus compo/itus.— A flying crown to fome feeds, compofed of compound or feathery hairs: as in Crepis, Scorzonera, Tragopogon. Oppofed to Capillary. See Pappus.
- PLUMULA. The Plume, or afcending fealy part of the *Corculum* or Heart of the feed.

Pod. See Siliqua.

Pointal. See Pistillum.

POLLEN. Farina, or prolific powder, like fine meal or flower, contained in the anther of flowers; and which, according to Linneus, being moistened with a liquor peculiar peculiar to it, and lodged upon the ftigma burfts like a bladder, and explodes claftically a fubftance inperceptible to the naked eye; which he calls Fovilla.— Pulvis floris, humore rumpendus, atomofque elafticos ejaculans—vel, appropriato liquore madefa&us rumpendus, & fubftantiam fenfibus nudis imperfcrutabilem elaftice explodens.—Eft omne Pollen veficulare, & continet materiam impalpabilem, quam explodit. Philof. Bot. p. 53, 56, 90.

Pollen, when exposed to the microfcope, is found to put on a great variety of forms in the flowers of different plants. Thus in *Helianthus* it is a prickly ball, like a burr. In *Geranium* it is perforated. In *Symphytum* it is twin or double. In *Malva* it is a toothed wheel. In *Viola* it is angular. In *Narciffus* it is kidneyfhaped. In *Borago* it is like a roll of parchment.

POLLEX f. pollicaris mensura. See Measures.

POLYADELPHIA (πολυς many, and αδελφος a brother; feveral brotherboods.) The name name of the eighteenth class in the Linnean fystem; comprehending those plants which bear hermaphrodite flowers, with three or more fets of united stamens.

POLYANDRIA (πολυς, and ανης a bufband). The name of the thirteenth clafs in the Linnean fystem comprehending those plants which bear hermaphrodite flowers with many stamens (from twenty to a thousand) growing single on the receptacle. The number of the stamens distinguishes this from the first eleven classes; their stuation (on the receptacle) separates it from the twelfth class, *Icofandria*: and their simplicity avoids all confusion with the state of the their state of the s

POLYCOTYLEDONES Plantæ. Plants which have more than two cotyledons or lobes to the feed; as Pinus, Cupreffus, Linum.

POLYGAMA (πολυς and γαμος, feveral marriages) Planta. A Folygamous plant is that which has hermaphrodite, and either male or female flowers, or both.

POLY-

POLYGAMIA. The name of the twentythird clafs in the Linnean fyftem; comprehending those plants which bear hermaphrodite flowers, accompanied with male or female flowers, or both; not inclosed within the fame common calyx, but scattered either on the fame plant, or on two, or on three diffinct individuals. Whence the three Orders of this class-I. Monæcia. 2. Diæcia. 3. Triæcia.

Some modern reformers have entirely difcarded this Clafs, and thus have fimplified the Linnean arrangement, and rendered it more eafy to beginners; but they have at the fame time wholly mutilated it, confidered as a fexual fyftem, We may go on reforming till we reduce it to the fimplicity of Rivinus's fyftem; when it will acquire great facility, and at the fame time become good for nothing.

This term *Polygamia* or Polygamy, as applied to a compound flower, in the orders of the clafs *Syngenefia*, fignifies that feveral diftinct flowers (called *Florets*) are included included in one common calyx. Thefe may be all hermaphrodite, as in the first order; or hermaphrodites with female flowers as in the fecond, third, and fourth.

- POLYGONUS caulis. A many-angled ftem. Having feveral (more than fix) prominent longitudinal angles. Delin. Pl.—But in Philof. Bot. it is a fpecies of Anceps. Multangularis is explained in Delin. Pl. to be —excavated longitudinally by feveral hollow angles. According to this explanation, therefore, the former term refers to the angles in cameo, the fecond to those in intaglio.—But in Philof. Bot. the Multangular ftem is faid to have feveral prominent angles.
- POLYGYNIA (πολυς, and γυνη a wife). The name of one of the orders, in the fifth, fixth, twelfth and thirteenth claffes of the Linnean fystem; comprehending those plants which have flowers with many piftils.

POLYPETALA corolla. A Polypetalous corolla—or, a corolla of many petals.— Linneus Linneus ufes this term in opposition to a monopetalous corolla; that is, confifting of one petal only. By former writers it was commonly put for a flower of more than fix petals; and Linneus uses the terms monopetala, dipetala, &c.

- POLYPHYLLUS. Many-leaved. Applied to the calyx, perianth, involucre, and cirrus or tendril; in opposition to monophyllus, one-leafed.—Here also Linneus uses diphyllus, triphyllus, &c.
- POLYSPERMA capfula—bacca. A manyfeeded capfule or berry: containing feveral feeds.
- POLYSTACHYUS culmus. A culm bearing feveral spikes. As in Scirpus lacustris, holoschænus, and setaceus.
- POMACEÆ. The name of the thirty-feventh order in Linneus's Fragments; and of the thirty-fixth in his Natural Orders. Comprehending fuch plants as bear a Pome, or fruit refembling the apple.

Ромим.

Ромим. A Pome. Pericarpium farčtum evalve, capfulam continens. A pulpy pericarp without valves, containing a capfule. —It includes all the moift fruits which have the feeds lodged in a core; as Apple, Pear, Quince, &c.

Pouch. See Silicula.

PRÆMORSUS. Bitten off. Præmorfa radix; not tapering, but ending blunt, and thus appearing as if it were bitten off fhort at the end, as in Scabiofa, Plantago, Valeriana. Præmorfum folium; ending very obtufely, with unequal notches.—Præmorfa corolla: as in Althæa.

PRECIÆ. Early ripe. The name of an early fort of Grape in Virgil. The fiftyfirft order in Linneus's Fragments; and the twenty-firft in his Natural Orders: comprehending fuch plants as flower early in the fpring.

PRICKLE. Aculeus. A fharp process from a plant, fixed into the bark only: as in Rose, Bramble, Gooseberry, and Barberry. This This and the Thorn are called Arma by Linneus, and are enumerated among the Fulcres.

Prickles are ftraight—bent in, incurvi; or bent back, recurvi —When divided, they take the name of Furcæ, forks or forked prickles; and are called bifid, trifid, &c. from the number of divisions.

PRICKLY. Aculeatus. Armed with prickles. Applied to the ftem, ftipe, leaf, petiole, and perianth.

PRISMATICUS calyx. Prifmaticum stigma pericarpium. A prifmatic or prifm-schaped calyx or perianth — stigma — pericarp. Cum lineare polyedrum sit, lateribus planis.
Linear, or of the same thickness from top to bottom with several stat sides.

PROCUMBENS caulis. A procumbent ftem. Horizontaliter fupra terram. Philof. Bot. Debilis terræ innitens. Delin. Pl — Unable to fupport itfelf, and therfore lying upon the ground—but without putting forth roots. See Repens.—The procumbent, trailing, trailing, or proftrate ftem, as it is fometimes called, is exemplified in Convolvulus Soldanella.

PROLIFER caulis. A proliferous ftem. Exapicis centro tantum emittens ramos. Putting forth branches only from the centre of the top: as in Pinus.—Prolifer flos. A proliferous flower.—E centro floris alium protrudens.—Cum intra florem (fxpius plenum) alii flores enafcuntur. Having fmaller flowers growing out of the principal one: as in Childing Daify.—Prolifera umbella. A proliferous umbel. Plufquam decomposita. Every compound umbel is twice divided. In a proliferous umbel, the umbellule is fubdivided.

PROMINENS disseptimentum. A prominent partition, in a filiqua. Standing out beyond the valves.—Prominens faux. A prominent throat or opening in the tube of a corolla : as in Cyclamen.

Prominulum disseptimentum. A partition formewhat or but a little prominent.

A Proper

X PRONUS

PRONUS discus f. inferior pagina folii. The lower fide, or furface, or back of a leaf.

Prop. See Fulcrum.

PROFAGO. Semen Musci decorticatum, detectum 1750. A peculiar name given by Linneus to what he took for the feeds of Moffes; because he supposed them to differ from other seeds in having a naked corcle or heart, without cotyledons; a discovery which he made in 1750. But they are now known to be the dust of the capsule, which Linneus mistook for the Anther.

PROPRIUM receptaculum. A Proper or peculiar receptacle. Quod partes unius tantum fructificationis respirit. That which respects the parts of a single fructification: in opposition to a Common receptacle, connecting several florets, as in the Aggregate flowers.—Proprium Perianthium—Involcurum. A Proper perianth, or involucre: respecting one flower only. As in simple flowers. Aggregate flowers have usually both a calyx common to the whole, and a perianth proper to each floret.—Proprius flos—Propria corolla. A Proper A Proper flower or corolla. One of the fingle florets or corollets in aggregate flowers: in opposition to the common or compound flower, confisting of the aggregate of florets, making one whole. *—Proprium Nectarium.* A proper, peculiar or diffinct nectary. Separate from the petals and other parts of the flower.

Prostratus. See Procumbens.

Protruded. See Exfertus.

PUBES. Pubefcence. Hirfuties omnis in planta. Delin. Pl.—vestiens villostate. All hairiness, or shagginess in a plant; or whatever clothes it with any hairy or villous substance. Linneus's original word was Pubescentia, and he explained it to mean the armour of a plant, by which it is defended from external injuries: thus comprehending Thorns and Prickles under the idea of Pubescence. These however he afterwards separated, and called them with more propriety Arma.—The following are the different forms of Pubescence.

silt neewtod source X 2 monomet I. Pili.

- 1. Pili. Hairs. Excretory ducts, in that form.
 - 2. Lana, Wool: or clofe curled hairs.
 - 3. Barba. Beard: or parallel hairs.
 - 4. Tomentum. Flocks: or interwoven villous hairs fcarcely confpicuous.
 - 5. Strigæ. Stiffish flattish hairs.
 - 6. Setæ. Briftles. Stiffish roundish hairs.
 - 7. Hami. Hooks. Sharp crooked points.
- 8. Glochides. Barbs. Straight toothed points.
 - 9. Glandulæ. Glands. Small papillæ or teats, or excretory ducts in that form.

Glands feem to be improperly enumerated as a species of pubescence.

PUBESCENS. Pubefcent. Covered with one of the foregoing forts of pubefcence. Applied to the ftem, leaf, corolla, and ftyle.

PULPOSUM folium. A pulpy leaf, filled with a tenacious fubftance between the two

PU AUD QUA

two furfaces .- Linneus did not originally diftinguish this from Carnofum, which has a firmer pulp. solf in as : rowell a cit

PUNCHED leaf. See Perforatum and Pertusum. Seed Down. Having G

PUNCTATUM. Dotted leaf. See Perforatum.

Pungent, fharp or prickly. PUNGENS.

PUTAMEN. The shell of a nut and other fruits allied to it .--- Hence

PUTAMINEÆ. The name of the thirty-first Order in Linneus's Fragments, and of the twenty-fifth in his Natural Orders.

QUADRANGULARIS caulis. Quadrangulare folium. A Quadrangular ftem or leaf. Having four prominent angles.

QUADRI-

QUADRICAPSULARE pericarpium. A Quadricapfular pericap. Having four capfules to a flower: as in *Rhodiola*.

QUADRIDENTATUS pappus. A four-toothed Seed-Down. Having four teeth on the edge. As in Rudbeckia.

- QUADRIFIDUS calyx. A four-cleft perianth: as in *Rhinanthus.*—Quadrifidum folium. A four-cleft leaf. Cut into four fegments with linear finufes, and ftraight margins.
- QUADRIJUGUM *folium*. A quadrijugous leaf. Pinnate, with four pairs of leaflets.
- QUADRILOBUM folium. A four-lobed leaf, Divided to the middle into four diftant parts, with convex margins.
- QUADRILOCULARE pericarpium. A fourcelled pericarp: as in Euonymus.
- QUADRIPARTITUM folium. A four-parted leaf. Divided into four parts almost to the base.

QUADRI-

QUADRIVALVE pericarpium. A four-valved pericarp: as in Ludwigia, Oenothera, &c.

QUATERNA folia. Four-fold leaves. Growing by fours; or, coming out four together: as in the Stellatæ.

QUINA folia. Five-fold leaves. Five together in a whorl. As in fome of the Stellatæ.

QUINATUM folium. A fort of Digitate leaf, which has five leaflets on a petiole.

QUINQUANGULARE folium. A five-cornered leaf. Having five prominent angles about the difk.—Quinquangularis caulis. A five-cornered ftem.

QUINQUECAPSULARE *pericarpium*. Having five capfules to a flower: as in Aquilegia.

QUINQUEFIDUM folium. A quinquefid or five cleft leaf. Cut into five fegments, with linear finufes, and ftraight margins. Applied to the corolla—and to the perianth, in Nicotiana.

QUIN-

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QUINQUEJUGUM folium. A pinnate leaf, with five pairs of leaflets.

QUINQUELOBUM folium. A five-lobed leaf. Divided to the middle into five diftant parts, with convex margins.

QUINQUELOCULARE pericarpium. A fivecelled pericarp: as in Pyrola.

QUINQUEPARTITUM folium. A five-parted leaf. Divided into five parts almost to the base.—Applied to the perianth, in Lithospermum.

QUINQUEVALVE pericarpium. A pericarp of five valves: as in Hottonia,

phinis and in to wold R a

RACEMUS (from εαξ, εαγος, acinus racemi). A Raceme.—Anciently fignifying a bunch of grapes, or other berries; in the Linnean language it is a fpecies of inflorescence, confisting of a peduncle with short short lateral branches. Pedunculo ramis lateralibus instructo. As in Vitis or Vine, Ribes or Currant, &c.

A Raceme may be-

1. Simple, or Compound.

- One-fided. Unilateralis. Having all the flowers growing on one fide of the common peduncle.—Secundus. All bent or directed the fame way.— Pedate—Conjugate.
- 3. Erect.-Loofe, laxus.-Dependens, hanging down.

4. Naked, or leafy.

RACHIS (Paxis, the back-bone) fpicæ. The Spine. Receptaculum filiforme flosculos longitudinaliter annestens in spicam Delin. Pl. — Receptaculum spicæ graminis cui flores insculpti. Regn. Veg. — A filiform receptacle connecting florets longitudinally into a spike: as in Panicum Crus corvi and Crus galli, Lolium, and many other Graffes.—It has the name from some resemblance which it bears to the spine, when when it is naked or deprived of the florets. Dr. Withering calls it the Spikeftalk.

This term is also fometimes used for the principal rib of a leaf.

RADIATA (Radius, a ray) corolla. Radiatus flos. A Radiate or Rayed corolla or flower.—A kind of compound flower, (in the clafs Syngenefia) confifting of a difk, in which the corollets or florets are tubular and regular; and of a ray, in which the florets are irregular. Thefe are most commonly ligulate; as in Sunflower, Daify, &c.—Sometimes however they alfo are tubular, but irregular; as in Centaurea. And fometimes they are naked, or nearly fo: as in Artemifia, Gnaphalium.

Radiato-Patens. Radiate expanding: or, fpreading out like rays. Applied to the ftigma.

RADICALIS pedunculus. A root-peduncle; fcarcely different from fcape, but fuftaining only one flower. See Scapus. Radicale cale folium. A root-leaf. Proceeding immediately from the root.

RADICANS caulis. A Rooting ftem. Altis fe affigens radiculis lateralibus.—Radicans folium. Si folium radices agat. See Rooting.

RADICATUM folium. A rooted leaf. Radiculas demittens e substantia ipsius folii.-Radicatus scapus; a rooted scape, as in Drosera.

Radicula (dimin. from Radix, a root), a Radicle or Fibre. The fibrofe part of the root, by which the flock or main body of it is terminated; imbibing nourifhment for the fupport of the vegetable.

RADIUS. A Ray. Pars exterior corolla composita.

RADIX (from Radius, according to fome; from rado, as others will have it; but more probably from the Greek gadiz, which however fignifies a branch) Alimentum bauriens, herbamque cum fructificatione producens. Philof. Bot.—Organon nutriens nutriens plantam. Delin. Pl.—Descendens, aquosa sorbens, nutriens. Regn. Veg.— See Root.

Ragged. See Squarrofus.

RAMENTUM (a radendo, q. rafura). A fmall particle of any thing; as gold-duft, faw-duft, or little chips, &c. Applied by Linneus to the fmall loofe fcales that are frequently found on the ftems of vegetables.

- RAMEUM folium. Rameus pedunculus. A branch-leaf. A branch-peduncle. Growing on, or proceeding from a branch. In opposition to fuch as proceed from the root, or axils, or grow on the ftem itfelf.
- RAMOSUS caulis. Ramofa radix. A branched ftem, or root. Having lateral divisions, Ramofiffimus. Very much branched. Ramis multis absque ordine gravidus.

RAMUS. A Branch. Pars caulis. A fubdivision of the stem.

Ramulus.

TOUS AND RC

Ramulus. A branchlet, little branch, or twig. A fubdivision of the branch.

RE

RAY. Radius. The outer part or circumference of a compound radiate flower; or radiated difcous flower, as it is called by others.

Rayed. See Radiata. Dobagoooli

- RECEPTACULUM (Recipio, to receive). A Receptacle.—Basis qua partes fructificationis connectuntur. The base by which the other parts of the fructification are connected.—By Boerhaave named Placenta; and by Vaillant Thalamus.
 - 1. Proprium. A proper or peculiar receptacle: appertaining to one fructification only. Commune. A Common receptacle: connecting feveral florets or diffinct fructifications, fo that if any one of them be removed an irregularity is occasioned.— There are inftances of this in the Umbel, Cyme, Spadix and Rachis, as well as in the Compound flowers.

2. Recept. Fructificationis. The Receptacle of

of the Fructification. Common both to flower and fruit; or embracing the corolla and germ.

- Floris. Receptacle of the flower. The bafe to which the parts of the flower, exclusive of the germ, are fixed.
- Fructus. Receptacle of the fruit. The base of the fruit only, remote from the receptacle of the flower.
- Seminum. Receptacle of the feeds. The bafe to which the feeds are fixed: as in Adonis.
- The Receptacle may be, Nudum. Naked. Without chaffs, hairs or briftles. Punctatum. Dotted.—Pilofum. Hairy.—Setofum. Briftly.—Paleaceum. Chaffy.—Alveolatum f. favofum. Honey-combed; divided into open cells, within each of which a fingle feed is lodged.

Planum. Flat.—Convexum. Convex.— Subulatum. Subulate or awl-fhaped.— Ovatum. Ovate.—Globofum. Globular.— Conicum. Conical.

RECLI-

RECLINATUM folium. A reclined leaf. Quod deorfum curvatur, ut apex fiat basis inferior; quibusdam etiam Reflexum dicitur. Philof. Bot.—Deorfum flexum, ut arcus fit basis inferior, apice adscendente. Delin. Pl. Bent downwards, so that the point of the leaf is lower than the base. The latter explanation seems very different; if I understand it rightly, as meaning that the bow is lowest at the base, and rifes at the point. In Foliation, this term implies, that the leaves are bent downwards towards the petiole: as in Podophyllum, Aconitum, Anemone, Adoxa.

Reclinatus caulis. A reclined ftem. Bowed towards the earth : as in Ficus.

RECTUS caulis. A straight stem. See Straight.

RECURVATUM folium. A recurved leaf. Deorfum flexum, ut arcus fuperiora fpectet. Delin. Pl.—Bent, or rather bowed or curved downwards, fo that the bow or convexity is upwards. This term does not occur in Philof. Bot.—Berkenhout explains explains it, but I know not on what authority—" bent downward in a greater " degree than *reclinatum*, but not fo much " as *revolutum*."

When applied to a Prickle, it is faid only to be bent outwards; in opposition to *incurvus*, bent in.—In the fame fenfe it is applied to the Awn, Petiole, Calyx, and Corolla.

REFLEXUS. Reflex. Bent back. Rami reflexi. Perpendiculariter dependentes. Delin. Pl.— Hanging down perpendicularly. —Reflexum folium. A reflex leaf: as in Euphorbia portlandica. — Reflexum perianthium. A reflex perianth: as in Afclepilas and Leontodon.—Reflexus flos. Reflexa corolla. Reflexa petala. A reflex flower, corolla, or petals: as in Lilium chalcedonicum, Cyclamen, Narciffus triandrus, &c.—Applied alfo to the flipule and bracte.—See Retroflexus.

REFRACTUS. Refracted. As it were broken.—Refracta corolla. Recurvata angulo acuto. Delin. Pl. Bent back at an acute angle. See Retrofractus.

REGU-

REGULARIS corolla. A regular corolla. Æqualis figura, magnitudine & proportione partium. Equal in the figure, fize and proportion of the parts: as in Privet, Lilac, Jafmin, &c.

REMOTUS. Remote. Diftant.—Remota folia: oppofed to approximata.—Remoti pedunculi oppofed to conferti. — Remoti verticilli oppofed to contigui, as in Galeopfis Ladanum.

RENIFORME folium. À Reniform or Kidney-fhaped leaf.—Subrotundum, basi excavatum, angulis destitutum. Philos. Bot.— Subrotundum, basi exsculptum absque angulis posticis. Delin. Pl.—Roundish, hollowed out at the base, without angles: as in Convolvulus Soldanella, the lower leaves of Campanula rotundifolia, Saxifraga granulata, Glecoma hederacea.—This term is applied also to the anther and Seed.

REPANDUM folium. A Repand leaf.— Cujus margo angulis, eifque interjectis finubus, circuli fegmento inferiptis terminatur. The rim of which is terminated by angles, X having having finuses between them inferibed in the fegment of a circle.—In Delin. Pl. it is differently deferibed margine flexuoso, tamen plano: with a flexuose or waving rim, but flat. Properly speaking, fays Dr. Berkenhout, having a ferpentine margin, without any angles at all. But this by no means agrees with the first explanation from Linneus's Philosophia Botanica.—It is clearly diftinct from the Undulating or waving leaf; for the curvature in that respects the disk; but in this, the edge only.

REPENS radix. A creeping root.—Longe excurrens binc inde germinans, f. radiculas demittens.—Repens caulis: radiculas binc inde exferens procumbendo; ut in Hedera, Bignonia.

Reptans flagellum. A runner. As in Strawberry. See Creeping and Runner.

RESUPINATA corolla. Cum labium fuperius terram, inferius cælum spectat. When the upper lip faces the ground, and the lower lip the fky. Or, when that which is is ufually the upper lip (in a labiate corolla) becomes the lower; and the contrary: fo that the flower is, as it were, turned upfide down; or, in vulgar language, topfy-turvy. This is exemplified in Scrophularia, Ocymum, Ajuga orientalis, the European Violets, and fome fpecies of Satyrium.

- Refupinatum folium. Pagina fuperiore inferiore, & contra inferiore fuperiore facta. A leaf is faid to be Refupinate or turned upfide down, when that which is commonly the upper furface becomes the lower; and the contrary.
- RETICULATA (dimin. from rete, a net) corolla, petala. A netted corolla. Netted petals. Having diftinct veins croffing like net-work.—Beautifully exemplified in Geranium striatum.

RETROFLEXUS. Retroflex.—Rami retroflexi: horfum vorfum divaricati. Bending this way and that, in different directions, ufually in a difforted manner. Thus it feems to differ from *Reflex*, which is only Y 2 fimply fimply bent back at an angle. Dr. Berkenhout explains it to be three times bent, or bent in three different directions. But for this I know not that he has any warrant, either from the fenfe of the term, or the explanation. It does not occur in *Philofophia Botanica*.

RETROFRACTUS. Retrofracted. Applied to the Peduncle.—Vi quafi ad dependentiam redactus. Delin. Pl.—Reduced to hang down as it were by force. So that it appears as if it had been broken.— I do not difcover any reafon why this and the foregoing term should have a different fignification from Reflexus and Refractus.

RETUSUM folium. A Retufe leaf. Quod terminatur finu obtufo. Ending in a blunt finus: as in Frankenia pulverulenta, Crotalaria retufa.—Applied alfo to the feed in Lycopus.

REVOLUTUS. Rolled back or downwards. —Revoluta vernatio f. foliatio. Revolute foliation or leafing. Quorum margines laterales

laterales utrinque retrorfum, f. versus paginam inferiorem Spiraliter convolvunter. When the fides of the leaves (in the bud) are rolled fpirally back, or towards the lower furface.-Revolutum folium. A Revolute leaf. Quod deor sum revolvitur .---Having the edges rolled back or towards the lower furface : as in Rofemary, Teucrium fruticans.-Revolutus cirrus. A Revolute tendril. Spira dimidio itinere retorta. When a fpire of the fcrew, having made half a revolution, turns back in a contrary direction .- Revoluta corolla. A revolute corolla: having the petals rolled back, as in Asparagus, Medeola, Lilium chalcedonicum.-Revoluta valvula. A Revolute valve. Turned back after it opens : as in the filiqua of Cardamine .- This term is opposed to Involute or rolled inwards.

RHEADES f. RHEADEÆ (from Rhæas, Corn Poppy). The name of the thirtieth order in Linneus's Fragments, and of the twenty-feventh in his Natural Orders; containing vegetables allied to the Poppy.

Rном-

RHOMBEUM folium. A Rhombed or rhombfhaped leaf. Having four equal fides, but the angles not right angles : as in Poplar. —Linneus has not this term in his Philofophia Botanica; but his Deltoid leaf feems fearcely to differ from it.

RHOMBOIDEUM folium. A Rhomboid leaf. Having the oppofite fides equal, and the angles not right ones: as in *Chenopodium viride*. This alfo feems included in the Deltoid leaf of *Philof*. Botan.

RIB. Cofta. The continuation of the petiole along the middle of a leaf, and from which the veins take their rife.

Ribbed. Costatum : which fee.

- RICTUS. The Gape. Hiatus inter utrumque labium. The opening between the two lips in a labiate flower.
- RIGIDUS. Rigid, ftiff, inflexible, impatient of bending: oppofed to *laxus*. Applied to the ftem, leaves and briftles.—The ftem is called *Rigofus* in *Glinus dictamnoides*. Has this term the fame meaning with

with the other? But rigofus should be derived from Rigo, not from Rigeo.

RIMOSUS. Rimofe or Chinked. Abounding in cracks, clefts, or chinks; as the outer bark of fome trees.

RINGENS (from eives, nares, the nostrils, whence riEtus) corolla. A ringent corolla. Irregularis in duo labia personata.--Monopetala irregularis, & limbo diviso in duo labia. Philof. Bot. pl. 52, 135. An irregular one-petalled corolla, the border of which is usually divided into two parts, called the upper and lower lip. The first has fometimes the name of Galea or Helmet: the fecond of Barba or Beard. The opening between them is named Rietus or the Gape: the opening of the tube, Faux, the Throat or Jaws: the prominent fwelling in the Faux is Palatum, the Palate: the upper part of the tube is Collum, the Neck. The Ringent corolla is exemplified in the clafs Didynamia .- See Labiatus.

RISING leaf or petiole. See A Jurgens. Y 4 Rolled

Rolled back. Sec Revolutus.

ROOT. Radix. That organ of a vegetable which draws in the nourifhment, and produces the herb with the fructification. -It is composed of Medulla or Pith, Wood, inner and outer Bark: and confifts of the Caudex, ftock or main body; and the Radiculæ or fibres, by which the moifture is immediately imbibed. We commonly regard all that part of a vegetable only which is under ground as the Root; but Linneus comprehends the ascending caudex, or what we commonly term the body, trunk or bole, within his idea. According to him, therefore, trees and fhrubs are all root, except the leaves and fructification; and confequently if a tree be turned upfide down, the defcending caudex will produce leaves, and the afcending caudex will put forth fibres.

A Root in Duration is,

1. Annual. 2. Biennial. 3. Perennial.

In

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In Form,

- a. 4. Fibrofe. 5. Branching. 6. Fufiform.
 7. Præmorfe or bitten off.
- b. 8. Creeping. 9. Jointed. 10. Toothed.
- c. 11. Globular. 12. Tuberous. 13. Fafcicled or bundled. 14. Palmate.
- d. 15. Bulbous. 16. Granulate. 17. Tunicated. 18. Solid. 19. Scaly.

In Substance,

20. A Bulb. 21. A Tuber. 22. A Fibre. 23. A Fibril.

ROOTING ftem. Caulis Radicans. Bending to the earth and ftriking root, but not creeping along.—A rooting leaf. Folium radicans. Shooting forth roots; as in fome aquatic plants: this is fometimes called Folium radicatum.

ROOT-LEAF. Folium radicale. Proceeding immediately from the root, or growing next the ground: frequently different from from the leaves on the ftem and branches; as in *Campanula rotundifolia*.—Peduncles fometimes fpring from the root, and may be named *Root-peduncles*.

ROOTLET, Radicle, or Fibre. See Radicula.

Root-leaf and Rootlet are more proper in English than Radical leaf and Radicle, on account of the analogy.

ROSACEA corolla. A Rofaceous or Rofelike corolla. A fpecies of the Polypetalous; confifting of four or more regular petals, inferted into the receptacle by a fhort, broad claw; as in the wild Rofe. This is a term of Tournefort's; and fuch flowers form his fixth clafs, entitled *Rofacei*.

ROSTELLUM (dimin. from *Roftrum*, a beak). The Roftel, or defeending plane part of the Corcle or heart, in the first vegetation of the feed.—*Pars corculi fimplex defeendens*.

ROSTRATUS fructus. A beaked fruit. Having a process refembling the beak of a bird: as in Geranium, Scandix Pecten. ROTACEE

- ROTACEÆ (Rota, a wheel). The name of the fifty-fecond order in Linneus's Fragments; and of the twentieth in his Natural Orders.
- ROTATA corolla. A Wheel-fhaped corolla. Monopetalous; fpreading flat, without any tube : as in Borago, Veronica, Lyfimachia.—Applied to the nectary in Narciffus poeticus.
- ROTUNDUM folium. A round leaf. Quod angulis privatur. Philof. Bot.—In p. 233, Rotundatum is oppofed to angulatum.— By this term therefore Linneus does not mean a circular, or what we fhould call a round leaf, in Englifh; but one which has a curve without any breaks for the circumferibing line. Orbiculatum is his term for circular or round.
- Rotundo-trigonum. Obtufely three-cornered or three-fided with the corners rounded off: as in the germ of Hyacinthus.
- ROUGH: Afper. Made fynonymous with Scaber by Linneus.—He ufes it however in a fenfe much more general.

Rough -

- Roughened. Exafperatus.-Applied to the calyx.
- ROUND and ROUNDED. Rotundum and Rotundatum. Bent into a curve. For Circular fee Orbiculatum.
- Roundisch leaf. Folium fubrotundum. Nearly circular. Orbiculato proximum. Which is improper. See Rotundum.
- RUGGED or Scabrous. Scaber. Rough with tubercles, or prominent stiffish points. Applied to the leaf and stem: also to the calyx of the Oak.
- RUGOSUM folium. A Wrinkled leaf, Cum venæ foliorum contractiores evadant quam discus, ut interjecta substantia adscendat. When the veins are more contracted than the disk, so that the intermediate substance rises above them. As in Sage, Primrose, Cowssip, Cistus incanus, &c.

RUNCINATUM folium (Runcina, a large faw). A Runcinate leaf. Pinnatifidum, ita ut lobi antice convexi, postice sint transversi. A fort of pinnatifid leaf, with the lobes lobes convex before and ftraight behind, like the teeth of the large double faw ufed in fawing timber. Exemplified in common Dandelion. This term does not occur in Philosophia Botanica, and was not originally diftinguished by Linneus from his Pinnatifid leaf, of which it is only a variety.—Runcina feems rather to be a plane.

RUNNER, Reptans flagellum. A fhoot producing roots and leaves at the end only, and thus propagating the plant: as in Strawberry. See Sarmentofus.

S

SABRE-SHAPED leaf. Folium Acinaciforme. Sec Acinaciform.

SAGITTATUM folium (from Sagitta, an arrow). A Sagittate leaf. Shaped like the head of an arrow,—Triangulare, basi excavatum, angulis posticis instructum. Philof Bot.—Triangulare, angulis posticis cis acutis finu divifis.—Triangular, hollowed at the base, with angles at the hinder part—or, with the hinder angles acute divided by a finus.—As in Convolvulus arvensis and Sepium. Sagittaria. Rumex Acetosa, or common Sorrel. Erica vulgaris, or common Heath.—This term is applied also to the Stipula, as in Pea, and Anther, as in Crocus, Elder, &c.

- SALVER-SHAPED. Hypocrateriformis corolla. Monopetalous, rifing from a tube, with a flat border.
- SAP. Succus. The juice or watery part of the vegetable.—Alfo the tender white part of the wood (Alburnum), in trees; newly formed from the *liber* or inner bark.
- SARMENTACEÆ (Sarmentum, the twig or fpray of a vine; from farpo to prune, which is from the Greek $\alpha \rho \pi \omega$, and that from $\alpha \rho \pi \eta$, a pruning-knife). The name of the forty-ninth order in Linneus's Fragments; and of the eleventh in his Natural Orders.

SAR-

SARMENTOSUS caulis. A Sarmentofe ftem. Repens fubnudus. Philof. Bot.—Filiformis geniculis radicantibus. Delin. Pl.—Filiform, almost naked; or having only leaves in bunches at the joints or knots, where it strikes root.—It seems to be in shrubs, what the runner is in herbaceous plants. See Runner and Flagellum.

- SCABER. Scabrous or Rugged; fomething like Shagreen — Punctis eminentibus rigidiusculis exasperatus. See Rugged. Hence
- SCABRIDÆ. The name of the twentieth Order in Linneus's Fragments; and of the fifty-third in his Natural Orders.
- SCABRITIES. Ruggednefs. Componitur particulis, nudis oculis vix manifestis, quibus adspergitur plantarum superficies.— A fort of Pubescence, composed of particles scarcely visible to the naked eye, scattered over the furface of vegetables.

Scabrous. See Rugged.

Scal-

Scalloped leaf. This term may be applied to the folium Repandum, which fee.

- SCALY. Squamofus. A Scaly root or bulb: composed of scales lying over each other; as in the Lily.—A scaly stem or peduncle: having scales scattered over it.
- SCANDENS caulis. A Scandent or climbing ftem. Alta petens, aliis fuftinendus. Weak, and requiring fupport in mounting; the clafper or tendril is ufually the agent; as in the Everlafting Pea, and many other Leguminous plants.—It is different from caulis volubilis, which mounts by twining.
- Scapus (from σκηπ]ω, to lean upon; whence σκηπων, σκηπανιον, and σκηπ]φον, and the Latin fcipio, for a ftaff; and fcapus, the fhaft of a column, and the ftraight ftalk of an herb refembling it.) A Scape or Shaft. —According to Linneus—truncus elevans fructificationem, nec folia. A ftem bearing the fructification, without leaves: as in Narciffus, Pyrola, Hyacinthus, &c. Pedunculus would with more propriety be rendered Flower-ftalk than this.

SCA-

SCARTOSUM folium. A Scariofe leaf. Called Skinny by Dr. Withering. Subflantia ficea arida tachu fonora. Of a dry fubftance, fonorous to the touch.—Applied to a perianth, which is membranous, tough, thin, and femi-transparent; as in Statice Armeria, or Thrift, Centaurea glaftifolia, &c.—Alfo to the nectary; in Narciffus poeticus—Spike, &c.

SCATTERED. Sparfus. Applied to branches, leaves, &c. which come out without any apparent regular order. See Sparfus.

SCITAMINER f. Scitamina. (Scitamentum f. Scitum edulium. An estable of a racy flavour, pleafant fpicy plants.) The name of the third order in Linneus's Fragments; and of the eighth in his Natural Orders. —In the Artificial System these are in the first class.

SCORED ftem. Exaratus caulis. Marked deeply with parallel lines, or rather grooves. —It does not feem to differ from fulcatus, furrowed or grooved.

Seu-

Scutellum (dimin. from Scutum, a buckler). Fructificatio (Lichenum) orbiculata concava, margine undique elevato.—An orbicular concave fructification (in fome Lichens), with the edge raifed all round. The Pelta is flat.

Scymitar Shaped. See Acinaciform.

SCYPHIFER. Cup-bearing. A fubdivition of the *Lichens*, having the fructification in an elevated obconical form, like a drinking-glafs.

SECUNDUS (Sequendus, a fequendo, from following). Floribus ad unum idemque latus verfis.—All turned towards one fide pointing one way—directed or inclining the fame way. We have no proper Englifh term for this. One-ranked tends to miflead, becaufe a plant may have more ranks or rows of flowers than one directed to the fame point of the horizon, or nearly fo.—It is exemplified in the flowers of Erica herbacea—in the fpike of Dacitylis cynofuroides—and in the panicle of Dacitylis glomerata, feveral of the Feftucæ, &c. SEED. SEED. Semen. The rudiment or embryo of a new plant. Or, the deciduous plant of a vegetable, containing the rudiment of another vegetable of the fame fpecies, vivified by the pollen.—It is analogous to the egg in animals.

A Seed confifts of three principal parts —1. The Tegument or fkin. 2. The Albumen fplitting into cotyledons or lobes. 3. The Corculum, Corcle or heart.—Some feeds alfo have a Hilum or eye—others an Aril—others again a coronet, Coronula: which is either the calyx adhering; a Pappus or Down; a wing, tail, hook, awn, or other process, to affift in their dispersion.

Seed-bud. See Germen.

Seed-coat. See Aril.

SEED-LEAVES. The primary leaves; being the cotyledons or lobes of a feed expanded, and in a ftate of vegetation.

Seed-lobes. See Cotyledon.

a-flower

Z 2

SEED-

SEED-VESSEL. See Pericarpium.

SEGMENTA. Segments. The parts into which a calyx is cut.

SEGREGATA Polygamia. Segregate Polygamy. Cum flosculi plures Calyce communi comprebensi propriis Perianthiis etiam instruuntur. When several florets comprehended within a common calyx are furnished also with their proper perianths.— These constitute the fifth order of the class Syngenesia.

SEJUGUM folium. A sejugous leaf; or a pinnate leaf having fix pairs of leaflets.

SEMEN. See Seed.

SEMIAMPLEXICAULE folium. A half-ftemclafping leaf. Embracing the ftalk half way.

SEMICOLUMNAR. See Semiteres.

ndrn.a itate of veretation.

SEMIFLOSCULUS. A Semifloret. Flos femiflosculosus. A Semiflosculous flower, or a flower a flower composed of semiflorets. These are terms of Tournefort's; and answer to the corollula and corolla ligulata of Linneus. Ray calls such compound flowers —planipetali. Hence

Semiflosculosce or Semiflosculosi, the name of a fub-division in the order of compound flowers, both in the natural and artificial system of Linneus: comprehending such as are made up wholly of fertile ligulate florets; as Dandelion, Lettuce, Sowthistle, Hawkweed, &c.

Seminale folium. See Seed-leaves.

SEMINATIO. Semination, or the natural difperfion of feeds.

This is an improper expression : for though

SEMIORBICULATUM *femen*. A femiorbicular feed. In shape of half a sphere.

SEMIQUINQUEFIDUS calyx. A half-fivecleft calyx.

plants." Shinn partian tadks matantas

SEM

SEMISAGITTATA *flipula*. Shaped like half the head of an arrow: as in *Ervum tetrafpermum*.

SEMISEXFIDUS calyx. Half-fix-cleft.

SEMITERES. Semicolumnar. Flat on one fide, and rounded on the other; as the ftem of Allium vineale—and the leaves of Narciffus Jonquilla. Linneus calls them Semicylindracea. — Applied alfo to the petiole.

SEMPERVIRENTIA folia. Evergreen leaves. This is an improper expression: for though the plant be evergreen, the leaves are not fo.

SENA folia. Six-fold leaves, or growing in fixes; as in Galium fpurium, &c. A fpecies or variety of the Stellate leaf.

SENSILES f. Sensitivæ plantæ. Sensitive plants. Situm partium tackæ mutantes. Changing the fituation of their parts when touched.

23

SHMI-

SEN-

SENTICOSÆ (Sentis, a brier or bramble). The name of the thirty-fifth order in Linneus's Fragments, and Natural Orders.

SEPIARIÆ (Sepes, a hedge). The name of the twenty-fifth order in Linneus's Fragments; and of the forty-fourth in his Natural Orders: containing the hedge plants.

SERICEUM folium. A Silky leaf. Tectum pilis appressis mollissis. Covered with very foft hairs preffed close to the furface.

Serpentine. See Rependum.

SERRATUS (from Serra, a faw). Serrate, toothed like a faw—but not fawed. Quod angulis acutis imbricatis extremitatem refpicientibus notatur. Having fharp imbricated notches about the edge, pointing towards the extremity. The direction of the notches is the effential character of the Serrate leaf. They are not always imbricate, and that circumftance is omitted in Delin. Pl.—This term is applied to the Z4 leaf leaf in Vaccinium Myrtillus, Arbutus Unedo and alpina, Papaver orientale, and many others.

When a ferrate leaf has fmall ferratures upon the large ones, it is faid to be Doubly-ferrate, Duplicato ferratum: as in Elm.

The term Serrate is applied also to the calyx in *Hypericum*—to the Corolla in *Tilia*, *Alifma*—and to the Stipule.

Serrato-ciliatum folium. A Serrate-ciliate leaf. Having fine hairs, like the eyelashes, on the ferratures.

Serrato-dentatum folium. A Serrate toothed leaf. Having the ferratures toothed.

Serrulatum folium. A ferrulate leaf. Finely ferrate, with very fmall notches, or teeth.

SESQUIALTER *flofculus*. A Sefquialteral floret. When a large fertile floret is accompanied by a fmall abortive one: as in *Aira* villofa. *villofa.* Haller applies this term to flowers in which the ftamens are half as many again in number as the leaves or fegments of the calyx or corolla.

- SESSILE folium. A Seffile leaf. Connected immediately with the ftem or branch, without the intervention of a petiole: oppofed to the Petioled leaf.—Applied to a flower which has no peduncle: as in Trillium feffile.—To the Crown, Pappus or Down, which having no ftipe is placed immediately on the feed: oppofed to Stipitate or Stiped.
- SETA. A Briftle. A ftrong, ftiff, roundifh hair. A fort of pubefcence.—Linneus alfo puts it for the fcape of the capfule in Moffes.
- Setaceous. Briftle-fhaped. Having the thicknefs and length of a briftle. Applied to the leaf; and to the leaflets or divisions of the calyx.

Setofus. Briftly. Having the furface fet with briftles. Applied to the Leaf and to the

· of the calvs or co

the Receptacle .- Thefe two terms are fometimes confounded, though nothing al can be more diffinct.

SEXANGULARIS caulis. A hexangular ftem: as in Eriocaulon.

SEXFIDUS calyx. Sexfid, or fix-cleft; as in Pavia.-Sexfidum nectarium. A fixcleft nectary : as in Narciffus minor.

SEXLOCULARE pericarpium. A fix-celled pericarp : as in Afarum, Aristolochia.

SEXUS. Sexes in vegetables are, I. Male. 2. Female. 3. Hermaphrodite. Having the two first in the fame flower. 4. When they are feparate, either on the fame or 111 different individuals; fuch plants are called Androgynous. 5. When Herma-- phrodites are accompanied with one or both of the two first, fuch a plant is denominated Polygamous.

Shaft. Put by fome authors for the ftyle. SHAGGY. Hirsūtus.

3012

SHARP.

SHARP. Acūtus.

Sharp-pointed or pointed. Acuminatus.

SHEATH. Vagina. A membrane invefting a ftem or branch; as in Graffes.—Very different from Spatha, which fee.

Sheathed. Vaginātus. Invefted by a fheath or cylindrical membranaceous tube, which is the bafe of the leaf: as the ftem in Polygonum amphibium, and the culm in Graffes.

Sheathing. Vaginans. When a leaf invefts the ftem or branch by its bafe in form of a tube: as in Polygonum, Rumex. Ciftus incanus.—Applied alfo to the Petiole and Stipule.

Shining. See Lucidus.

Shoot. See Surculus.

SHRIVELLING, or Withering. Marcefcens. Decaying without falling off: as the corolla of *Plantain*.

SHRUB. A Frutex. In its general acceptation, tion, it is a vegetable with feveral permanent woody ftems, dividing from the bottom, more flender and lower than in trees. Linneus makes the diftinction of a fhrub

from a tree to confift in its having no buds: but trees have not buds in hot climates. He acknowledges indeed that nature has placed no limits betwen them.

Sbrubby. Fruticofus. Perennial, with feveral woody ftems.

SICKLE-SHAPED. Falcātus. Applied to the keel of a papilionaceous flower.

SILICULA (dimin. from Siliqua). A Silicule, Silice, little Pod or Pouch. A twovalved pericarp, having the feeds fixed along both futures, and the transferfe diameter equal, or nearly fo, to the longitudinal. This pericarp varies in shape; being orbiculate, ovate, or slatted; entire at the end, or emarginate. Hence

SILICULOSA. The name of the first order in the class Tetradynamia.

SILIQUA. A Silique or Pod. An oblong, mem-

membranaceous, two-valved pericap, having the feeds fixed along both futures .--The Silicula does not differ from this effentially, but only in form and fize. Accordingly Linneus, in Philof. Bot. gives an explanation common to both-Pericarbium bivalve, affigens semina secundum suturam utramque-and makes no mention of Silicula .- The proper Siliqua is twocelled, having a partition running the whole length of it. Some pericarps, however, having the fame form, take the fame name, although they have no partion, and are therefore one-celled; as in Fumaria, and Chelidonium.-When antique, critique, and burlesque were first introduced into our language, they were written antick, critick, and burlefk : had this orthography obtained, we flould have written this pericarp Silick, and thus have avoided the French termination. . I fhall not contend with any one who - would retain the Latin final; nor with any other who would appropriate the English term Pod to this, exclusive of the Legume.

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SILI-

SILIQUOSA. The name of the fecond order in the class *Tetradynamia*: containing those plants which have a proper Siliqua for a pericarp.

Control origination

SILIQUOS.E. The name of the fifty-feventh order in Linneus's Fragments; of the thirty-ninth in his Natural Orders; and of the twentieth clafs in Ray's method. They are the fame with the Cruciformes of Tournefort.

SILKY leaf. Sericeum folium. Covered with a fine pile of foft close-preffed hairs, fo as to be very fmooth to the touch.

however, maying the

SIMPLEX. Simple. Undivided.—Simplex Radix. A Simple root. Not fubdivided. Oppofed to branched.—Simplex caulis. A Simple ftem. Continuata ferie verfus apicem extenditur. Extended in one continued feries from the bottom to the top. Oppofed to Compositus or compound.— Simplex folium. A fimple leaf. Having only one on a petiole. Oppofed alfo to Compound.—Simplex Fructificatio f. Flos. A SimA Simple fructification or flower; in oppofition to that which is composed of feveral florets.—A Simple fpike. Having no fubdivisions, fpicules or fpikelets.— A Simple Umbel. Having only one fet of rays, or having the receptacle divided once only: as in Anthrifcus Pecten.— Simplex Calyx. A fimple calyx. Having only one row of leaflets, as in Tragopogon; opposed to Calycled and Imbricate.—Simplex Pappus. A fimple down: opposed to Plumofus or feathered.—Applied also to Briftle, Tendril, Stigma, &c.

Simplicissimus. Very fimple, absolutely fimple.—As the stem of Lathræa Squamaria; and the spadix of Acorus.

SINGLE flower. Unicus flos. Only one on a ftem, as in the Tulip; opposed to many.—In common language, it is used in opposition to a double or monstrous flower.

SINUATUM folium. A Sinuate leaf. Having large curved breaks, in the margin, refembling bays (Sinus). As in the Oak. Sinuato-

SI I

SI.

Sinuato-angulosum. A finuate-angular leaf: as in Hollybock.

Sinuato dentatum. A finuate-toothed leaf

Sitting. See Seffile.

SITUS foliorum. Situation of leaves. Their difposition on the stem: as stellate, tern or threefold, &c. Opposite, alternate, scattered, crowded, imbricate, safcieled or in bundles, distich or in two rows.

SIX-PETALLED. Hexapetala corolla. A flower having fix diffinct petals to the corolla.

Skinny. See Scariofum.

SLEEP of Plants. Somnus plantarum. The form and appearance which plants put on during the night, very different from what they have in the day; chiefly in the leaves.

SLENDER. Tenuis. Applied to the feed. Tenuifolia planta. A flender-leaved plant: in in opposition to latifolia, broad-leaved.-Tenuis however is often put for thin.

- SMOOTH. Glaber. Having a flippery furface void of roughness. Opposed to fcabrous, not to pilofus, hairy: and exemplified in Daphne Laureola, Arbutus Unedo, Geranium peltatum, &c. Greater degrees of smoothness are expressed by nitidus or nitens and lucidus; shining, bright, glittering, glosfy, &c.
- Snipt leaf. Folium incifum. See Gashed, and Incifum.

Solares Flores. See Vigilia.

- Solida radix. A folid bulb; as in Tulip. A folid root; as in Turnep. Of a flefhy, uniform, undivided fubftance.—Solidus caulis. A folid ftem. Full within; in oppofition to inanis, which has only a light fpongy fubftance in it; and fiftulofus, hollow like a pipe.
- SOLITARIUS. Solitary, separate, one only in a place. Solitaria stipula. A solitary stipule; as in Melianthus.—Solitarius pe-A a dunculus.

dunculus. A folitary peduncle; as in Convolvulus tricolor.—Solitarius flos. A folitary flower: only one to each peduncle; as Euphorbia Peplis, Diantbus chinenfis.—Solitarium femen. A folitary feed: one only in a pericarp.

- Solutus. Loofe. Opposed to adnatus. Applied to Stipules.
- SOMNUS Plantarum. Sleep of Plants. Eft forma faciefque, quam plantæ sub nocte induunt, maxime a diurna earum facie diversam, nulla habita ratione partium internarum seu fructificationis. Estque in foliis præsertim conspicuus.
- SPADIX. The receptacle in Palms, and fome other plants, proceeding from a fpathe.—It is either branched, as in *Palms*; or fimple, as in *Dracontium*, &c.—In fome it is one-flowered; in others manyflowered.—Hence

Flos spacideus. A spadiceous flower. A fort of aggregate flower, having a receptacle common to many florets, within a spathe.—As Palms, Arum, Calla, Dracontium, Pothos, Zostera, Acorus.

Spadiceus

Spadiceus color. The colour of the fpadix in the Palm; it is commonly translated a *Bay-colour*, from the Greek βαιος. Ray fays it is a colour approaching to bay or chefnut, but with more red in it.

SPAN. A long fpan, or Dodrans-a fhort fpan, or Spithama. See Meafures.

SPARSUS. Scattered. Neither opposite nor alternate, nor in any apparent regular order. Applied to branches—to leaves, as in feveral forts of Lily—to peduncles or flowers—to calycine fcales, as in *Crepis barbata*. "With regard to branches," fays Dr. Berkenhout, "an accurate ob-"ferver will find that, notwithftanding "their irregular appearance, they form a "fpiral line round the trunk, regularly "completing the circle in a determinate "number of fteps."

SPATHE. A Spathe (Sheath is the Fnglifh term for Vagina). The calyx of a fpadix, opening or burfting longitudinally, in form of a fheath.—It is applied alfo to the calyx of fome flowers which have no fpadix; as Narciffus, Crocus, Iris, &c.

Aa2

A Spathe

A Spathe may be— One-valved, or two-valved. Halved. *Dimidiata*. Invefting the fructification on the inner fide only. Imbricate.

One-flowered, two-flowered, &c.-Hence

Spathaceæ. The name of the eighth order in Linneus's Fragments; and of the ninth in his Natural Orders.

SPATULATUM folium. A Spatulate or Spatula-fhaped leaf. Cujus figura fubrotunda, basi angustiore lineari elongata. Roundish, with a long, narrow, linear base: like a spatula or a battledore: as in Cistus incanus.

Spear-Shaped. Sce Lanceolatum.

SPECIES. The diffinct forms of vegetables originally fo created, and producing. by certain laws of generation, others like themfelves.—There are therefore as many fpecies as there are different invariable forms or ftructures of vegetables now exifting. We commonly use the fame termination both in the fingular and plural,

as

as we do in fome other words of the fame ftructure from the Latin. The duplication of the final is difagreeable to the ear, and I suppose that we acquiesce the more readily in this anomaly, becaufe fo many of our plurals terminate in es.

Specific Character. A circumstance or circumftances diffinguishing one species from every other fpecies of the fame genus.

Specific Name. Prænomen triviale. Commonly called the Trivial Name .- One of those happy inventions of Linneus, by which he has facilitated and diffused the fcience of Botany in a wonderful manner -A plant is perfectly named, fays Linneus (Philof. Bot. 202), when it is furnished with a generic and specific name. -In the fame page he diftinguishes the latter from the nomen triviale; and calls it the Effential Difference .- Nomen specificum legitimum plantam ab omnibus congeneribus distinguat; triviale autem legibus etiamnum caret .- Nomen specificum est itaque Differentia esfentialis.

Aaz SPICA

SPICA (from Spes, hope; from σπιζω, to extend; or from σπαχυς, Æol. for σ]αχυς, whence Spicus, Spica, and Spicum; for it is used in all the three genders). A Spike. —Flores fessiles sparsim alterni in pedunculo communi simplici.—In Term. Bot. 461, sparsim is omitted.—A species of inflorescence, in which settile flowers are (scatteringly) alternate on a common simple peduncle.—As in an ear of Wheat, Rye, or Barley; many of the Grass; in Lavender, Mullein, Agrimony, &c.—A Spike is

- 1. Simple, Diftich, Compound, Glomerate.
- 2. Ovate, Cylindric, Ventricofe, Interrupted.
- 3. Imbricate, Jointed, Branching, Oneranked (*fecunda*), Linear, Ciliate, Leafy, Briftle-fhaped, Comofe or terminated with a bufh of leaves, Scariofe.
- SPICULA. A Spicule or Spikelet. A partial fpike, or a fubdivision of it: as in fome Grass.

SPINA. A Spine or Thorn.—Mucro e ligno plantæ protrusus.—Fulcrum terminans cornu lignoso. Regn. Veg.—See Thorn. Spindle-

SPINDLE-SHAPED root. See Fusiformis.

Spinefcens. Spinefcent. Becoming hard and thorny. Incident to petioles and ftipules.

Spinofus. Spiny or Thorny.—Spinofum folium. Quod margine exit in acumina duriora, rigida, pungentia. Opposed to Inerme.—Spinofus caulis. Spinis armatus.

- SPIRALIS. Spiral. Twifted like a fcrew. As the cotyledons of the *Holeraceæ*; the anthers of *Chironia*; the tails of the feeds in *Geranium*, &c.
- SPITHAMA. A fhort Span, or feven Paris inches. See Meafures.
- SPREADING. Patens. Spreading a little, Patulus. See thefe two words.

SPUR or Horn. Calcar, Cornu. The hinder part of the nectary in fome flowers, fhaped like a cock's fpur, or a horn.—This kind of nectary is called Ne. Tarium calcaratum; and a corolla having fuch a nectary is named Corolla calcarata; as in Lark/pur, Orchis, &c.—A calyx having fuch a fpur is called Calyx calcaratus; as in Tropæolum. A a 4 SquA= SQUAMOSUS f. SQUAMATUS (Squama, a Scale). Bulbus, Caulis. See Scaly.

SQUARROSUS (A squamarum piscium similitudine, quorum cutis exurgat ob assiduam inluviem.

> Varronum ac rupicum squarrosa incondita rostra. Lucilius.

Or, according to others, from Squarra, anciently written Scara, which is from the Greek $\epsilon\sigma\chi\alpha\varrho\alpha$, fcurf). Squarrofe, by fome translated Ragged; by others, Scurfy. Squarrofus calyx. Ex fquamis undique divaricatis patentiffimis. Confisting of fcales very widely divaricating, or fpreading every way: as in Carduus, Onopordum, Conyza, Achyranthes muricata. —Squarrofum folium. In lacinias elevatas nec plano parallelas divifum. Divided into sor jags, raifed above the plane of the leaf, and not parallel to it.

STALK, or Stem. Caulis. See Stem.

STAMEN. A Stamen; in the plural Stamens, not Stamina, in English.—Viscus pro pollinis præparatione.—Viscus exterius e ligno. Genitale Genitale masculum. Regn. Veg.—An organ or viscus for the preparation of the pollen; and formed, according to Linneus, from the wood.—It is the third part in the fructification; and confists of the *filament* and *anther.*—Some English writers call it the Chive.

- Stamineus flos. A stamineous flower. Having no corolla: a term used by Ray. Apetalus is the term which Linneus has adopted from Tournefort. Others call such flowers Imperfect or Incomplete.
- Staminiferus flos. A ftaminiferous flower. Having ftamens without a piftil. The fame with the male flower of Linneus.— Staminiferum nestarium. A nectary having ftamens growing on it : as in Kleinbovia.
- STANDARD or Banner. Vexillum. The upper petal of a papilionaceous corolla: as in the Pea.
- STATUMINATÆ (from Statumen, a prop or fupport, as the stakes put to vines, &c. from *statuo*). The name of the fixtyfirst order in Linneus's Fragments of a Natural

Natural Method, in Philosophia Botanica; containing only Ulmus, Celtis, Bosea.

- STELLATA (Stella, a star) folia. Stellate leaves. Cum folia plura quam duo verticillatim caulem ambiunt. When more leaves than two (feldom fewer than four, frequently fix, eight or more) furround the ftem in a whorl; or radiate from the ftem like the fpokes of a wheel; or like a ftar, as it is vulgarly reprefented : exemplified in Galium. They are otherwife called Verticillata; and come out regularly in fets one above another .- Stellata seta. A Stellate briftle. When a little ftar of fmaller hairs is affixed to the end .- Applied also to the Stigma : as in Afarum. Stellatus flos. A Stellate flower. The fame with the Radiatus of Tournefort, which Linneus has adopted.
- Stellatæ. The name of the forty-fourth order in Linneus's Fragments, in *Philof.* Bot.—and the forty-feventh in his Natural Orders, at the end of Gen. Pl.—The name of a clafs alfo in Ray's and Herman's Methods.

STEM

- STEM or Stalk. Caulis. The body of an herb, bearing the branches, leaves and fructification.—According to Linneus, Truncus is the generic term, of which Caulis is a fpecies; but in English we apply Trunk to the body of a tree, and Stalk to that of herbaceous plants.—Stem might be adopted as the generic term. See Truncus.
- Stem-classing. Amplexicaulis. Applied to a leaf (folium amplexicaule), when the base furrounds the stem: as in Potamogeton perfoliatum, Verbascum Blattaria, Hyoscyamus niger, &c.—Applied also to the petiole.
- Stem-leaf. Folium caulinum. Inferted into the ftem. Oppofed to the radical or rootleaf. Applied alfo to the peduncle.
- Stemlefs. Acaulis. Having no ftem, properly fo called. Oppofed in Philof. Bot. (p. 233) to Caulefcens.
- Sterilis flos. A Barren flower. A term of Tournefort's. Called Masculus flos, or Male flower, by Linneus.—Ray calls it Paleaceus, and others Abortiens, and Staminiferus.

STIFF.

STIFF. Rigidus. Impatient of bending. See Rigidus and Strictus.

STIGMA. (From (σ)ζω, inuro, to brand or mark.) A Stigma.—Summitas piftilli madida humore Pollen rumpendo—Roridum, pubefcens, fipremum. Regn. Veg.—The top of the piftil, pubefcent and moift, in order to detain and burft the Pollen or prolific powder.—Grew named it the Knob or Button; and Withering the Summit.—I have fometimes afked myfelf, how Linneus came not to adopt the more elegant, claffical term of Fibula, which had been given to this part of the piftil by fome authors who wrote before him ?

The Stigma differs in number, figure, and ftructure.—It is Simple or divided.

Acute; ending in a fharp, fingle tip.
Perforated; having a cavity in the middle.
Capitate; fhaped like a head or globular.
Peltate; or fhaped like a round buckler; or like the foregoing, flatted by the ftroke of a hammer.

Bila-

Bilamellate; Capitate or globular, compreffed, and longitudinally bifid.

STIMULI (q. Stigmuli, from olymos). Stings.

In Philof. Bot. a fpecies of pubefcence; defined to be—punSlura venenata quæ animalia nuda arcent. Exemplified in Urtica or Nettle, Iatropha, Acalypha, Tragia.—In Term. Bot. 393, they are feparated from Pubes, and enumerated with thorns and prickles, among Arma, the defences of plants against animals.—They are thus defined mucrones puncturas inflammatorias efficientes, unde pruriginofæ evadunt partes. Proceffes or sharp points from a plant, producing inflammatory itching punctures.—They are usually on the stem or leaf; which is then called Urens.

STIPES (σ]υπος, a flake). A Stipe. Basis frondis. Proprius Palmis, Filicibus, Fungis.— Truncus in folia transfers. Delin. Pl.—A
folio non distinctus. Regn. Veg.—The base of a frond: or, a species of stem passing into leaves, or, not distinct from the leas. The stem of a Fungus is likewise called Stipes:
which Dr. Withering translates the Pillar.

-110 . 2

It

It is also put for the thread or flender ftalk, which supports the *pappus* or down, and connects it with the seed. Filum elevans connectenfque Pappum & Semen.

Stipitatus. Stipitate or Stiped. Elevated on a Stipe. Applied to the pappus or down.

STIPULA (dimin. from Stipa, which is from σ]υπη tow). A Stipula or Stipule.—
Squama bafi petiolorum enafcentium adftans.
A fcale at the bafe of the nafcent petioles
—or peduncles, according to Philof. Bot.—
As in Papilionaceæ, Tamarindus, Caffia,
Rofa, Melianthus, Liriodendron, Abricot,
Peach, Bird-cherry, &c.—Some natural
claffes have no ftipules; as the Afperifoliæ, Perfonatæ, Verticillatæ, Stellatæ, Siliquofæ, Lil.aceæ, Orchideæ, and moft of
the Compositæ.—

Stipules are,

1. In pairs; Solitary; or None.

- 2. Lateral; Extrafoliaceous; Intrafoliaceous; Oppofitifolious.
- 3. Caducous; Deciduous; Permanent; Spinescent.
- 4. Seffile; Adnate; Decurrent; Sheathing. 5. Su-

- 5. Subulate; Lanceolate; Sagittate; Lunate.
- 6. Erect; Spreading; Reflex.
- Very Entire; Serrate; Ciliate; Toothed; Cleft.

8. Very Short; Middling; Long.

Stipularis f. stipulacea gemma. A Stipular bud. Formed of stipules or scales.

Stipules glandulæ. Glands growing on ftipules, or close to them.

Stipulatio. Stipulation. The fituation and ftructure of the ftipules.

Stipulatus caulis. A Stipulate or stipuled stalk. Having stipules on it.

STOLO. A Sucker from the root. See Sucker.

Stoloniferus caulis. A Stoloniferous ftem. Putting forth fuckers.

Straddling. Put by Dr. Withering for Divaricatus.

STRAIGHT stem. Rectus caulis. Making one right line; not bent.—Erectus is upright, or perpendicular to the horizon.— Rigidus Rigidus is stiff, difficult to bend. Strictus is both stiff and straight.

Sraightifh. Rectiufculus.

STRAP. Ligula. An appendage to the leaf in fome Graffes.—Alfo the flat part of the corollet in ligulate florets.

Strap *fbaped*. See Ligulatus. Dr. Withering has given this name to the linear leaf.

STRIATUS. Striated or Streaked.—Striatus caulis, culmus. Lineis tenuissis excavatis inferiptus. Stalk or Culm—marked or fcored with fuperficial or very flender lines. In the explanation of the Striated leaf the word parallel is added.

STRICTUS (Stringo, to tie fast). Stiff and straight.

Strict will not do in English, and I do not recollect that we have any one word to express this idea. Straight is put for rectus, and Stiff for rigidus.—Linneus in one place refers Stricta (folia) to Recta; adding, that it strengthens the stricta tion, and means the same as Rectissina. Philof. Philof. Bot. p. 219.—In another place (p. 233) he oppofes *ftrictus* to *laxus*, *ftaccidus*.—In *Term. Bot.* 28, *Erectus* is explained to be a ftem rifing in almost a perpendicular direction—*Strictus* (29), to be altogether perpendicular without bending.—I do not conceive that this term has any thing to do with perpendicularity of direction.

It is applied to the ftem in Aftragalus fulcatus, &c.—to the culm—branch leaves, in Campanula patula—and to the peduncle.

Strictiffimus. Very ftiff and ftraight. Applied to branches.

STRIGA (from Strigo for Stringo). In Term. Bot. 363, Strigæ are thus deferibed—pili rigidiufculi planiufculi.—In Philof. Bot. Linneus only fays—arcent fetis rigidis animalcula & linguas; and gives for examples CaEtus, Malpigbia, Hibifcus, Rubus.—They feem to be ftiffifh, flattifh briftles — and from the derivation we fhould fuppofe that they grow in a fort of order or rank. Their ufe is to keep off the fmaller animals, and the tongues of larger ones, from injuring the plants.— B b We

We have no English name for this term.

STRIGOSUS (from Strigo). Strigofum folium. A Strigofe leaf. Aculeis lanceolatis rigidis. Set with ftiff lanceolate briftles. Term. Bot. 246. In Philof. Bot. Linneus refers to Hifpidum. Dr. Berkenhout interprets it, lank, lean, or drawn up as if hidebound; I know not on what authority, but probably mifled by one fenfe of the verb ftrigare, which is, to leave a furrow unfinifhed in ploughing; whence a horfe or ox unable to go though his work was called Strigofus.

STROBILUS. A Strobile. Pericarpium ex Amento factum—fquamis induratis, is added in Term. Bot. 618.—A Pericarp formed from an Ament—by the hardening of the fcales.—In Regn. Veg. it is thus expressed—Strobilis imbricatus Amenti coarctati. That is, a Strobile is made up of fcales that are imbricate, or lie over each other, from an Ament contracted or fqueezed together, in this state of maturity.—This term includes not only the Cone of former writers, but also fome other fruits which recede confiderably in structure structure from that fort of pericarp; as that of Magnolia. To translate Strobilus therefore by Cone is improper, as creating confusion.

Strobiliformis spica. A Strobile-shaped spike: as in Justicia Echolium.

STYLUS (from σ/υλος, a column). The ftyle. Pars piftilli, fligma elevans a germine or, as it is expressed in another passage of Philof. Bot.—pes fligmatis, connectens illud cum germine. The middle portion of the piftil, connecting the stigma with the germ.—It is called by some English Botanists the Shaft.—We are to attend to the number, proportion, situation, division, and figure of Styles.

The most common figures are -1. Capillary, or hair-schaped. 2. Filiform, or thread-schaped. 3. Cylindric. 4. Subulate, or awl-schaped. 5. Clavate, or club-schaped.

In fituation they may be—1. Erect, or upright. 2. Declined, or bending down. 3. Afcending, or bending up.

SUB, in composition, is used frequently by Linneus for almost, nearly, somewhat, thereabouts, approaching to, most commonly. B b 2 We

We must confider the meaning of the word to which it is the prefix, in order to determine which of the English Adverbs we should prefer. In some cases perhaps we may preferve the Latin prefix: in others we may use the English termination is: as subrotundus, roundish. Though it were to have been wished, for diffinction fake, that we might express the Latin fub by fome of the foregoing adverbs; and the diminutive termination ufculus by Thus *fubobtufus*, fomewhat blunt; ifh. obtufiusculus, bluntish .- The following are fome inftances of the use of fub, among many:

Subacaulis. - Almost without stem.

Subæqualis. Nearly equal.

Subamplexicaulis. Slightly embracing the ftem.

Subcordatus. Subcordate. Somewhat heart-fhaped.

Suberofus. As if a little eaten or gnawn. Subexcedens. A very little longer.

Sub-

Sublanatus. Somewhat woolly. Subnudus. Almoft naked. Suborbiculatus. Almoft orbiculate.

Subovatus. Subovate. Almost or nearly ovate.

Subpetiolatus. Scarcely petioled, or with a very fhort petiole.

Subramofus. Having only a chance branch or two.

Subrepandus. Somewhat repand.

Subseffilis. Subseffile, or almost feffile.

Subtrifidus. Slightly trifid.

Subuniflorus. Having one or two flowers only, or most commonly one-one or thereabouts.

Sometimes however Sub has the common meaning of Under: as folium fubmerfum is a leaf growing under water. Herbæ fubmarinæ. Herbs growing at the bottom of the fea.—Subdivifus does not mean fomewhat or a little divided, but divided again, in the ufual fenfe of our English fubdivided. SUBEROSUS (Suber, cork). Corky, like cork. Applied to a ftem clothed with a bark, foft and elaftic like cork—To be carefully diftinguished from *fub-erofus*, which is applied to leaves which have little irregular finuses on their edges, giving them the appearance of having been gnawed by infects. Applied alfo to the ftem in *Ariftolochia peltata*.—In this case it feems better to drop this equivocal term, in English.

SUBSTANTIA. The fubftance of a vegetable confifts of the *Epidermis*, or Cuticle, covering the *Cortex* or Outer Bark, depofiting from its inner furface the *Liber* or Inner Bark, which changes gradually into hard rings of *Wood*, clothing the *Medulla* or Pith.—Or, taking it the other way, it is the *Medulla* or Pith clothed by the wood, which is formed from the *Liber*, feparating from the *Cortex*, and covered by the *Epidermis*.

SUBULATUS (Subüla, an awl). Subulate, or awl-fhaped (not, awled). Folium fubulatum. A fubulate leaf. Inferius lineare, ad verfus apicem attenuatum. Linear at bottom, bottom, but gradually tapering towards the end. As in Arenaria faxatilis, Sedum rupeftre.—Applied alfo to the Filament, in the clafs Didynamia, &c.—to the fcales of the Calyx, in Dianthus chinenfis—to the Stipule, Anther, Style and Receptacle.

SUCCULENTÆ (*fuccus*, juice). The name of the forty-fixth order in Linneus's Fragments, and of the thirteenth in his Natural Orders.

- SUCCULENTUM folium. A Succulent leaf. Full of juice; in opposition to Exfuccum, juiceless or dry. Applied also to the Drupe, as in the Plum or Peach; opposed to Sicca, dry, as in the Almond.
- SUCKER. Stolo. A fhoot from the root of a vegetable, by which it may be propagated: as in Violet, Ranunculus repens, and most Shrubs. See Runner and Sarmentofus.

SUFFRUTEX (Subunder, and Frutex a Shrub). An Undershrub. Permanent or woody at the base, but the yearly branches decaying; usually of a lower growth than the B b 4 Frutex Frutex or Shrub: as in Lavender, Sage, Thyme, &c.

SUFFRUTICOSUS. Suffruticofe, Underfhrubby.

SULCATUS (Sulcus, a furrow) Caulis, Culmus. A Furrowed, grooved or fluted ftem or culm. Scored with deep broad channels longitudinally. Applied alfo to fucculent leaves.

Super-decompound. See Supra-decompositum.

SUPERFICIES. The furface or difk of a leaf.—The upper furface is called *Pagina* fuperior, or difcus fupinus; the lower, or back of the leaf, *Pagina inferior*, or difcus pronus.

SUPERFLUA Polygamia. Superfluous Polygamy. The name of the fecond order in the clafs Syngenefia wherein the florets of the difk are hermaphrodite and fertile; and the florets of the ray, though female only, are alfo fertile.

SUPERUS flos f. calyx. A Superior flower on calyx. Having the receptacle of the flower flower above the germ. Superum germen. A fuperior germ. Included within the corolla: this must have an inferior calyx; and the contrary.

SUPINUS discus folii. The upper furface of a leaf.

Support. See Fulcrum.

Supra-axillaris. See Supra-foliaceus.

SUPRA-DECOMPOSITUM folium. A Superdecompound leaf. Cum petiolus aliquoties divifus adnectit plurima foliola. When a petiole divided feveral times connects many leaflets; each part forming a decompound leaf: as in Pimpinella glauca, Ranunculus rutæfolius.—Tergeminate, Triternate, and Tripinnate leaves are fpecies of this; and are explained in their proper places.

SUPRA-FOLIACEUS f. Supra-axillaris pedunculus f. flos. A peduncle or flower inferted into the ftem above the leaf, or petiole, or axil.

SURCULUS. A little branch or twig. Quod in in ramis fimplex affurgit tenerum & exile. —A fhoot.—It is probably a diminutive from Surus or Surrus, an old word for a large branch, fuch as was fit to make a ftake or palifade of. The original word was probably Surcus from Surgo, which was anciently Surco.—Linneus puts Surculus for a branchlet of Mofs, and a fhoot of Ferns.

SWIMMING or Floating leaf. Natans. Lying on the furface of the water.

SWORD-SHAPED leaf. Folium Ensiforme. See Ensiform.

SYNGENESIA (συν and γενεσις, congeneration). The name of the nineteenth clafs in Linneus's Artificial Syftem; comprehending those plants which have the anthers united into a cylinder.—The orders are fix—1. Polygamia Æqualis. 2. Polygamia Superflua. 3. Polygamia Frustranea. 4. Polygamia Necessaria. 5. Polygamia Segregata. 6. Monogamia.—The five first orders contain the Compound flowers, and form a Class truly Natural. SysSYSTEMA. A Syftem is a regular arrangement of natural bodies, according to fome certain characters.—In Botany it confifts of five members or divisions—I. Class.
2. Order. 3. Genus. 4. Species. 5. Variety.

TAIL. Cauda. A procefs or thread terminating a feed, and facilitating its propagation.—This term was ufed formerly for the narrow bafe of a petal in a polypetalous corolla, which Linneus calls Unguis, the Claw.

T

Tapered or Tapering. See Attenuatus.

Taper-pointed. See Acuminate.

Target-Shaped. See Peltatum.

TENDRIL or Clasper. Cirrus. One of the Fulcres. A filiform spiral band, by which a plant is fastened to another body—or by which a weak plant supports itself on others: as the Vine, Pea, &c.

A Ten-

A Tendril is,

- 1. Axillaris, from the axil.
- 2. Foliaris, from the leaf.
- 3. Petiolaris, from the petiole or foot-stalk.
- 4. Peduncularis, from the peduncle or ftalk.

Or it is,

- 1. Simple.
- 2. Trifidus, or three-cleft.
- 3. Multifidus, many-cleft.
- 4. Diphyllus, tetraphyllus, &c. Two-leaved, four-leaved, &c.
- 5. Polyphyllus, many-leaved.
- 6. Convolutus, turned inward.
- 7. Revolutus, turned back after having made half a turn.

TENUIS is put both for *Slender* and *Thin*. *Tenuifolia planta*. A plant with narrow leaves.

TERES. Without angles. It may often be fafely expressed in English by Round. Since Since we cannot well preferve the Latin term, it is more accurate to tranflate it by *Columnar* than by *Cylindric*. For ftems and branches, leaves, petioles, and peduncles, to which it is applied, refemble the fhaft of a column, tapering gradually from the bottom upwards. *Allium vineale* and *oleraceum* are inftances of columnar leaves.

Teretiusculus. Almost or inclining to columnar.

> Semiteres is Semicolumnar. Flat on one fide and round on the other.

TERGEMINUM folium. A Tergeminate or thrice-double leaf. Petiolus bifidus utroque apice foliola duo & infuper foliola duo ad divaricationem petiola communis.—When a forked petiole is fubdivided, having two leaflets at the extremity of each fubdivifion; and alfo two other leaflets at the divifion of the common petiole. Thus I understand it, though the explanation given above from Delin. Pl. does not exprefs as much; becaufe it is a fpecies of the Super-decompound leaf, the effence of which which I apprehend to confift in its dividing thrice at leaft.

- **TERMINALIS.** Terminating, or coming out at the end of a branch or ftem. Applied to fcape, peduncle, flower, fpike, cyme, anther, awn, and thorn. Oppofed to axillary.
- TERNA folia. Three-fold leaves, in threes, or three and three: expreffing the number of leaves in each whorl or fet. As in Statice finuata. See Stellata.
- Terni pedunculi. Peduncles in threes, or three together from the fame axil: as in Impatiens zeylanica.
- Terni flores. Flowers growing three and three together; as in Bete Cicla.
- TERNATUM folium. A Ternate leaf. Having three leaflets on one petiole: as in *Trefoil, Strawberry, Bramble,* &c.—Linneus makes it a species of the *Digitate*.

Doubly-ternate. See Biternate.

Triply-

Triply-ternate. See Triternatum.

TESSELATUM folium, petalum. A Teflelate or chequered leaf or petal. Painted or fpotted like a chefs-board.—For the leaf, Linneus refers to Satyrium repens, and Cypripedium bulbofum: and as an inftance of a flower, we may cite Fritillaria Meleagris.

TETRADYNAMIA (TETTAPES four, and Surapis power). The name of the fifteenth class in the Linnean System; comprehending those plants which bear hermaphrodite flowers with fix stamens, four of them (more powerful) longer than the other two. This is a truly natural class, and the fame with the Cruciformes of Tournefort —the Siliculofæ and Siliquofæ of Ray; which last are the names of the orders into which the class is divided by Linneus.

TETRAEDRA *filiqua*. A four-fided filique or pod.

TETRAGONUS caulis. A four-cornered ftem. —Having four prominent longitudinal angles: as in Paffiflora alata. A fpecies of of the Anceps, according to Linneus in Philof. Bot.

- **TETRAGYNIA** (τεσσαφες and γυνη). One of the orders in feveral claffes of Linneus's Syftem; comprehending those plants which have four piftils.
- **TETRANDRIA** (τεσσαξες and ανηρ). The fourth clafs in the Linnean System; comprehending those plants which have hermaphrodite flowers with four stamens of equal lengths.
- **TETRAPETALA** corolla. A tetrapetalous or four-petalled corolla. Confifting of four diffinct petals: as in the clafs *Tetrady*namia.
- TETRAPHYLLUS calyx. A four-leaved calyx. Confifting of four diffinct leaves, or leaflets, as Linneus calls them. Exemplified in Sagina, Epimedium, and the clafs Tetradynamia.

TETRASPERMA planta. A four-feeded plant. Producing four feeds in each flower: as in the Afperifoliæ and Verticillatæ.

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TEXTURA vegetabilium. The texture of vegetables: confifts of Vafa fuccofa; fucciferous veffels: Tracheæ aëriæ. Tracheæ or air veffels: and Utriculi fecretorii; Utricles, or fecretory veffels. See Veffels.

THALAMUS. See Receptaculum.

THECA. See Aril.

THORN or Spine. Spina. A fharp procefs from the woody part of a plant, for its defence; as in Prunus, Cratægus, &c. See Prickle. It commonly difappears by culture; as in Pear, Orange, &c.

A Thorn may be either—*Terminating*; placed at the end of a branch or leaf: or *Axillary*; proceeding from the angle formed by a branch or leaf with the ftem.

Foliary, or growing on the leaf. Calycine, or growing on the calyx. Simple or Single—Divided or Branched. Aloe has thorns at the edges of the leaves. Thiftle has them on the calyx.

Many fruits are protected by them : as Trapa, Tribulus, Spinacia, Datura, &c. C c THORNY. HT

THORNY. Spinofus. Set with thorns: as the ftem of many ftrubs.—A Thorny leaf. Folium fpinofum. Running out at the edge into hard, ftiff, fharp points. Oppofed to Inerme.—Sometimes a petiole, ftipule, or bracte, becomes hard and fharp: it is then faid to be Spinefcens, Spinefcent, or to become thorny.—This, though a very different idea, has been fometimes confounded with Spinofus.

Thread. Dr. Withering's term for the Filament.

Thread-shaped. See Filiform.

- THREE-CAPSULED Pericarp. Tricapfulare Pericarpium. Having three capfules fucceeding to each flower; as in Veratrum, Delphinium.
- THREE-CELLED Pericarp. Triloculare Pericarpium. Divided into three cells within: as Lilium.
- THREE-CLEFT. Trifidus. Divided into three parts by linear finufes with ftraight margins.—Applied to the Leaf in Resease lutea —to the Calyx in Alisma, Cliffortia—to the

Amaryllis formosiffima-to the Cirrus, &c.

Three-cleft-palmate leaf. Folium trifido-palmatum. A Palmate leaf with only three divisions.

THREE-CORNERED of Three-edged. Trigonus. A species of the Anceps or ancipital ftem, according to Linneus; who fays, Anceps angulos duos oppositos habet .- Caulis trigonus therefore fhould have three oppofite angles, which is impoffible.-This term is explained by Berkenhout to be three-fided, with the fides either concave or convex-by Withering, as having three angles, and the fides not flat-by the Lichfield Society, as having three prominent longitudinal angles; which agrees nearly with the explanation in Term. Bot. -hollowed longitudinally with three an-See Three-fided. gles:

THREE-FLOWERED Peduncle. Triflorus Pedunculus. Bearing three flowers together.

Three-fold leaves. See Terna. C c 2 THREE-

- THREE-LEAVED calyx. Triphyllus. Confifting of three diftinct leaflets: as in Tradefcantia.
- THREE-LOBED leaf. Folium trilobum. Divided to the middle into three parts, ftanding wide from each other, and having convex margins: as in Leonurus Cardiaca, Refeda odorata.
- **THREE-NERVED** leaf. Folium trinervium. Having three diftinct veffels or nerves running longitudinally without branching.
- THREE-PARTED leaf. Folium tripartitum Divided into three parts down to the bafe, but not entirely feparate; as in Eryngium campeftre.—Applied alfo to the Cyme.
- THREE-PETALLED or Tripetalous corolla. Tripetăla. Confifting of three diftinct petals; as in Alisma, Sagittaria.
- THREE-SEEDED capfule. Trifperma. Containing three feeds: as in Euphorbia. Applied alfo to the Berry.

THREE-SIDED stem. Triqueter caulis. Having ing three plane fides: as in Viola tricolor.-Culm, in Carex.-Leaf, in Anthericum offifragum. Applied also to the scape, petiole, peduncle, and pericarp.

THREE-VALVED pericarp. Trivalve pericarpium. Opening with three valves: as in Viola, Polemonium, Ciftus Helianthemum.

Throat. See Faux.

THYRSUS Θυρσος, from Juw, impetu feror, erumpo, to burft forth. Put for branches, or the flame of a lamp or torch; which have a conical form. Hence the fpear with ivy bound about the head, carried in facrifices to Bacchus, was named Thyrfus). A Thyrfe. Linneus puts it for a fpecies of inflorefcence; and explains it to be, a panicle contracted into an ovate form, as in Syringa and Petafites. Our gardeners have corrupted this term into Trufs.

Tip. Dr. Withering's name for the Anther. See Apex.

TOMENTOSUS (Tomentum, down, nap, cotton, or flocks, from теµии; or, as others C c 3 think,

think, from tumeo, to fwell up; being ufed to ftuff pillows, bolfters, &c. It is properly the fhort wool that is not carded and fpun; and was applied to the nap on the leaves of fome plants, which was used for the fame purpose. Hence Gnaphalium from yvaqadov, which has the fame fignification). Tomentofe; or, if we must tranflate the term-Downy, Nappy, Cottony, or Flocky. It is applied to the ftem and leaf, when they are covered with hairs fo interwoven as fcarcely to be difcernible: and is a fpecies of pubefcence. It is generally white, as on fea plants, and fuch as grow in exposed fituations. Exemplified also in Cerastium tomentofum, Origanum Onites, Althæa officinalis, Ciftus incanus.

TONGUE-SHAPED leaf. Folium linguiforme. Linear and flefhy, blunt at the end, convex underneath, and having ufually a cartilaginous border: as in fome Aloes, Mefembryanthemum linguiforme, Hæmanthus coccineus.

Toothed. See Dentatum.

Toothed

HT

Toothed a little, or fomewhat toothed. Subdentatus. Having very few teeth.

Toothletted. Denticulatus. Having very imall teeth.

Tooth-ferrate. Dentato-ferratus.

Tooth-spined. Dentato-spinofus: as in Agave.

Top-shaped. See Turbinatum.

Torn. See Lacera.

TOROSUS. Torofe, protuberant, fwelling out in knobs; like the veins and mufcles. Applied to fome filiques; and other pericarps, as Lycoperficum, Phytolacca.

Torulofus. Swelling a little.

Torfio (Torqueo, to twift). Directio plantæ in unam alteramve plagam a verticali diverfam.—Delin. Pl. See Intorfio.

TORTILIS, Tortuosus, Tortus. Twisted, or twisting.—Tortilis arista. A twisted awn. Flexa funis instar. Coiled like a rope.— Cc4 TorTortuofum folium. A twifted leaf: as in Narci/Jus major.—Torta or Contorta corolla. A twifted corolla: as in Nerium, Afclepias, Vinca.—Tortum legumen. A twifted legume. When the apex is not in the fame line with the bafe.

 TRACHEÆ. Air-veffels. Vafa aërem attrahentia. Philof. Bot.—Canales fpirales aëri recipiendo & distribuendo nati. Regn.
 Veg. Spiral channels in vegetables for receiving and distributing air. See Vessels.

Trailing. See Procumbens.

TRANSVERSUM diffepimentum. A Tranfverfe partition. The fame with Contrarium. At right angles with the valves of the pericarp, in the filique. Opposed to Parallel. See Partition.

TRAPEZIFORME folium. A leaf having the fhape of a trapezium, or plane figure with four unequal fides.

TREE. Arbor. A Vegetable with a fingle woody trunk.—Trees (in Linneus's Regnum num Vegetabile) occupy the fifth tribe, division, or cast of the Vegetable kingdom. —In the Artificial System they are incorporated with herbs that have the fame character of the fructification. Ray and Tournefort kept them separate, but Rivinus had united them before Linneus.

- TRIANDRIA (*tgeus*, three, and anne a hufband). The name of the third class in the Linnean System, comprehending those plants which bear hermaphrodite flowers with three stamens.—The second order Digynia contains most of the Graffes.
- TRIANGULARIS caulis. A triangular ftem. Exnumero angulorum prominentium. A ftem is called Triangular, Quadrangular, &c. from the number of prominent angles. In thefe terms refpect is had only to the number of angles.— Trigonus, Tetragonus, &c. are variations of the caulis anceps, in which the angles are fharp, and the fides not flat.—Triqueter must have three flat fides.

Triangulare folium. A triangular leaf. Cum tres anguli prominentes ambiunt difcum. This This feems to me an inaccurate expression; for how angles can furround a disk I do not understand. I apprehend Linneus to mean no more, than that every least having three angles in the circumference, is a Triangular least, whatever its form may be in other respects.

TRIBUS vegetabilium. Tribes of vegetables, are reckoned to be three, in Regn. Veg.

- 1. Monocotyledones, containing Palms, Corn, and Graffes, Liliaceous plants; the three first Gentes or Nations.
- 2. Dicotyledones, comprising Herbs and Trees; the fourth and fifth Nations.
- 3. Acotyledones, or Cryptogamia: the Ferns, Moffes, Algas, and Fungufes; which are the four laft Nations.

TRICHOTOMUS caulis. A Trichotomous ftem. Dividing by threes.—Pedunculus, as in Marjoram.

TRICOCCA capfula. A Tricoccous or threegrained capfule. Swelling out in three protuberancies, internally divided into three cells, cells, with one feed in each: as in Euphorbia. Hence

- TRICOCCÆ, the name of the forty-feventh order in Linneus's Fragments, and of the thirty-eighth in his Natural Orders.
- TRICUSPIDATUM *stamen.* A three-cufped or three-pointed stamen: as in some species of *Allium.* See *Cufpidatum.*

TRIFIDUS. See Three-cleft, Cleft, and Fiffum.

TRIFLORUS *pedunculus*. A three-flowered peduncle. Bearing three flowers.

TRIGLOCHIS. See Glochis.

TRIGONUS. See Three-cornered and Triangularis.

TRIGYNIA (reeis, and youn a wife). The name of the third order in the first thirteen classes of the Linnean System, except the first, fourth, and seventh; including those plants which have three pistils to each flower.

TRIHILATÆ (Three-fcarred, fee Hilum). The name of the fiftieth order in Linneus's neus's Fragments; and of the twenty-third in his Natural Orders.

TRIJUGUM folium. A Trijugous leaf. A pinnate leaf with three pairs of leaflets.

TRILOBUM folium. See Three-lobed.

TRILOCULARE pericarpium. See Three-celled.

- TRINERVE folium. A three-nerved leaf. Having three nerves or unbranched veffels meeting in the base of the leaf.
- Trinervatum. Having them meeting behind or beyond (pone) the bafe.

Triplinerve. In which they meet above (fupra) or fhort of the bafe.

I must confess that I do not see how these terms are expressive of such distinctions; which are given in *Term. Bot.*—I should have conceived that by the last of them we were to understand, a least having three-fold nerves, or running three and three together: and thus Dr. Berkenhout has explained it.

TRI-

TRIECIA (TQUIC, and ouxos a house). The name of the third order in the class Polygamia; and fignifying that there are hermaphrodite, male and female flowers of the fame species on three distinct individuals.

TRIPARTITUS. See Three-parted.

TRIPETALA corolla. See Three-petalled. Hence

of plants, which adde

Tripetalodeæ. The name of the fixth order in Linneus's Fragments; and of the fifth in his Natural Orders.

TRIPHYLLUS calyx. See Three-leaved.

TRIPINNATUM folium. A Tripinnate, or three times pinnate leaf. A fpecies of Superdecompound leaf; when a petiole has bipinnate leaves ranged on each fide of it: as in common Fern, Pteris aquilina.

Triplinerve. See under Trinerve. Triply Compound. See Supradecompositum. TRIQUETER f. Triquetrus caulis—latera tria plana obtinet. See Three-fided.

TRI-

TRISPERMA capfula, bacca. See Three-feeded.

TRITERNATUM folium. A Triternate, or triply-three-fold leaf. A fpecies of Superdecompound leaf, when a petiole has three biternate leaves.—Cum petiolus affigit tria foliola biternata.

TRIVALVE pericarpium. See Three-valued.

- TRIVIALIA nomina. Trivial names. The common or vulgar names for the fpecies of plants, which added to the name of the genus, form a complete denomination of the fpecies. Thefe were invented by Linneus, and first used in the Pan Suecus; afterwards in the Species Plantarum, and thenceforward in all his other works. Antecedent to this, what we now call the Diagnosis or Specific character feems to have been confidered as the Specific name, which fee.
- TROPICI Solares flores. Tropical Solar flowers. Mane aperiuntur, & ante vesperam excluduntur quotidie, sed hora explicationis adscendit vel descendit, uti dies adcrescit aut decrescit; adeoque observant horas Turcicas f. inæquales. See Vigiliæ. TRUN-

TRUNCATUM folium. A Truncate leaf.— Quod linea transfversali desinit. Ending in a transfverse line—so that it seems as if the tip of the leaf had been cut off. The Tulip-tree is a remarkable instance of this. This term is applied also to the Petal and to the Nectary, in Narcisfus Tazetta.

TRUNCUS. Anciently and in common English, Trunk is put for the stem, body, ftock, or bole of a tree: for which Linneus uses the word Caudex. He applies Truncus to the ftem or main body of vegetables in general; and explains it to be -that which produces the leaves and fructification; or the organ multiplying the plant. The ftem or trunk of herbs he - names Caulis. When it elevates the fructification, and not the leaves, he calls it Scapus, Scape or Shaft. The ftem of Corn and Graffes, having a peculiar ftructure, he names Culmus, Culm or Straw. Stipes is the bafe of a Frond; or a ftem paffing into leaves, or not diffinct from the leaves. See Stem.

Tuber. A knob, in roots. Solidus particulis indiferetis. Solid, with the component nent particles all fimilar.-It is also the Latin name for the Truffle.

- TUBERCULUM (dimin. from Tuber). A little knob, like a pimple.—Fructificatio conftans punctis feabris ex pulvere quafi congestis. A little knob, or rough point, on the leaves of some Lichens, supposed to be the fructification.—Hence such are said to be Tubercled, Tuberculati.
- TUBEROSA radix. A Tuberous or knobbed root. E partibus carnofis filo basi connexis constans—f. subrotundus corporibus in fasciculum collectis.—Consisting of roundish fleshy bodies, or Tubers, connected into a bunch by intervening threads. As in Pæonia, Hemerocallis, Filipendula, Jerusalem Artichoke, Potatoe.
- TUBULATUS calyx. A tubular calyx. Running into the form of a tube.—Applied to the Corolla, in the clafs *Didynamia*—and to the Nectary of *Hellebore*.

TUBULOSUS flos. A Tubulous compound. flower, composed wholly of Tubulous florets. The fame with *Flosculofus flos* of Tour-

FR

Tournefort. Exemplified in Tanfey, and other naked difcous flowers.—Tubulofus flofculus. A tubulous floret. Having a bell-fhaped border, with five reflex fegments, rifing from a tube. Thefe are the regular-fhaped little component flowers in the difk of Compound flowers: as in the Sun-flower, Daify, &c.—Tubulofus caulis. A hollow ftem.—Tubulofum folium. A hollow leaf: as in Onion.

- TUBUS. A Tube or hollow pipe. Put for the lower, narrow, hollow part of a monopetalous or one-petalled corolla, by which it is fixed into the receptacle. Vaillant and Haller call the ftyle *Tuba*, from its refemblance to a trumpet.
- TUNICATUS bulbus. A tunicated or coated bulb. Tunicis numerofis conftans. Composed of numerous concentric coats; as the Onion.—Tunicatus caulis. A tunicated stem. Membranis vestitus. Clothed with membranes.

TURBINATUM (Turbo, a top). Turbinate, or top-fhaped. Dr. Withering translates it Turban-fhaped, which must furely be a D d mistake. miftake. Bafi angustatum. Philof. Bot.— Obverse conicum. Delim Pl.—Narrowed at the base, or inversely conical. Shaped like a boy's top, or a pear. Applied commonly to the Germ and Pericarp.—Also to the Perianth, as in Grislea, Memecylon —and to the Nectary, in Narcisfus Bulbocodium.

- TURGIDUM legumen. A Turgid or fwollen legume or pod: as in Ononis.—Thought by fome to be the fame with Inflatum; but in the latter I apprehend the pericarp to be in fubftance as well as form fomewhat like a blown bladder; whereas in the former it is merely more fwelled out, and has a wider cavity than is ufual.
- TURIO (q. terio, quia facile teratur; as tugurium, q. tegurium from tego, or q. tenerio from tener.—How Dr. Berkenhout came to derive it from Tyro, a novice, I am at a lofs to conceive). This word is ufed by Columella for the extreme twig or young fhoot of a tree. I do not find it in Philof. Bot.—Termini Botanici—or Delin. Pl.—Gifeke makes it fynonymous with Stolo.—Dr. Berkenhout fays it is the Gemma

Gemma fo called, by Ludwig, when proceeding from the root .- Ray, whofe ideas and expreffions are ever claffical, fays: Tenella arborum, fruticum aut herbarum cacumina, quasi teneriones; vel, ut Vosfius vult, quia facile teruntur.-Leers explains Turiones to be-tenellæ plantarum soboles, verno tempore cum foliis e terra erumpentes: ut Asparagus, Humulus. The tender fhoots of plants which come up in the fpring; as in the Afparagus and Hop. Such are called A/paragi; the tender fprouts or fhoots of any herb from the ground. Ray thus explains the word Afparagus :- dicitur primum germen berbarum quod edendo est vel oleris cujusque turio antequam in folia explicatur, a oneipe.

- TWIN anther. Didyma anthera. Swelling out into two protuberancies: as in Ranunculus, Mercurialis.—Applied alfo to Germ and Pericarp; as in Veronica.
- TWINING ftem. Caulis Volubilis. Afcending fpirally round a branch, ftem, or prop. This is done either from right to left, contrary to the fun's apparent motion, as D d 2 in

in Hops, Honeyfuckle, Black Bryony, &c. or from left to right, with the fun, as in Convolvulus, Bafella, Phafeolus, Cynanche, Euphorbia, Eupatorium.

In order to underftand this, we muft conceive the fpectator to ftand with his face towards the fouth, when of courfe the eaft will be towards his left hand. Thus ftationed, if he obferves a ftalk of *Convolvulus* or *Kidney Bean*, he will fee that it twines from the left or eaft, by the fouth, towards the weft; and that a *Honeyfuckle* or *Hop* takes a contrary direction.—Who will reveal the caufe of this difference?

TWISTED. See Tortilis. If we are to make any difference between this and Coiled, I fhould conceive the deviation of the latter to be in the fame plane, and that of the former to be in differerent planes.

Two-capfuled. See Bicapfular.

Two-celled. See *Bilocular*. This term however is to be preferred to that; fince we use the word *Cell* in English.

Two-

Two-cleft, or Bifid. See Cleft.—Utricularia is an inftance of the two-cleft perianth.

Two-edged or Ancipital, See Anceps.

Two-faced leaves. See Bifarious.

- Two-flowered peduncle. *Pedunculus biflorus*. Proceeding fimple from the ftem or branch, but bearing two flowers at the end.
- Two-fold leaves. *Bina folia*. Two and two together, from the fame place, or at the fame joint. See *Bina* and *Binate*.

Two-forked. See Dichotomous.

Two-horned. See Bicornes.

- Two-leaved calyx. Diphyllus. As Papaver, Fumaria. Applied to the Tendril—and to the Peduncle in Gomphrena.
- Two-lipped corolla. Bilabiata. As in Pinguicula, and most flowers of the Didynamia class.

Two-lobed leaf. Bilobum folium. See Lobatum.

Dd3

Two-

- Two-parted leaf, perianth. Bipartitum folium, perianthium. Divided in two down to the bafe.
- Two-petalled corolla. Dipetala. As in Circæa, Commelina.

Two-ranked or Two-rowed. See Distichus.

- Two-feeded fruit. Difpermus fructus. Containing two feeds.—Difperma planta. Having two feeds to each flower: as in Umbellate and Stellate plants.
- Two-valved pericarp. Bivalve pericarpium. As in Chelidonium, and all Siliques and Legumes.—Two-valved glume. Gluma Bivalvis: as in the calyx and corolla of moft Graffes.

VAGINA.

VAGINA. A Sheath, or membrane invefting a ftem. Hence

 \mathbf{V}

- VAGINALES. The name of the twentyfeventh order in Linneus's Fragments of a Natural Method in his *Philofophia Botanica*.
- VAGINANS folium. A Sheathing leaf. See Sheathing.
- VAGINATUS caulis. A Sheathed ftem. See Sheathed.
- VALVA f. VALVULA. A Valve, Valvelet, or Valvule. But there feems to be no occation to ufe the diminutives in Englifh; for Linneus makes no diftinction between valva and valvula. He ufes valvula capfulæ, and valva glumæ; but more frequently the diminutive.—Valvula—paries quo fructus tegitur externe. The outer coat, fhell or covering of a capfule or other pericarp; or the feveral pieces which compofe it. There feems to be an impropri-D d 4 ety

ety in explaining valvula by paries: it is rather the door or opening by which the feeds are to go out or efcape. If a pericarp is entire, it is faid to be *univalve*, or to confift of one valve. If it is divided, according to the number of pieces or divifions, it is called *bivalve* or two-valved; *trivalve* or three-valved, &c.

The leaflets composing the calyx and corolla in Graffes are also named Valves: as are also the substances or scales which close the tube in some flowers: as in Borage and other Asperifolia.

Valvatum petalum. A valved petal. Refembling the glume in Graffes.

VARIETAS. A Variety. Est planta mutata a causa accidentali.—Varietates tot sunt, quot differentes plantæ ex ejusdem speciei semine sunt productæ.—Species varietatum sunt, Magnitudo, Plenitudo, Crispatio, Color, Sapor, Odor.—Philos. Bot.—A plant changed by some accidental cause. There are as many Varieties as there are different plants produced from the feed of the the fame species .- Varieties are Size, Fulnefs, Curling, Colour, Taste, and Smell.

In Delin. Pl. it is expressed more fully; thus—Variation is a change in fome less effential part or quality; as colour, fize, pubefcence, or age.—Externally; by the plaiting or interweaving of the branches by bundling or uniting of feveral stalks into one broad flat one—by the greater breadth, or narrowness, or curling of leaves—by becoming awnless, or fmooth, or hirfute,

Internally; by becoming mutilated in the corolla; or having one larger than ordinary—by luxuriancy, multiplication, or fulnefs—by becoming proliferous, or crefted—by bearing bulbs inftead of feeds —or by being viviparous.

The ufual caufes of Variation are, Climate, Soil, Exposure, Heat, Cold, Winds, Culture.

VASA. Veffels.—Conftant Vegetabilia triplicibus Vafis. 1. Succofa liquorem vebunt. 2. Utriculi alveolis fuccum confervant. 3. Tracheæ aërem attrabunt. Philof Bot. In In Regn. Veg. it stands thus-

Vafa canales succis per cos promovendis repleti, plerumque recti.

Trachez canales spirales aëri recipiendo & distribuendo nati.

Utriculi sacculi pulpa utplurimum viridi pleni, vasorum interstitia explentes.

Here Vafa is put for the Succiferous veffels only. See Veffels.

VAULTED. Fornicatus. Arched like the roof of the mouth: as the upper lip of many Ringent flowers; in Aconite, &c.

VEGETABILE. A Vegetable.—Vita compofita, abfque motu voluntario.. Regn. Veg. —Compound life, without voluntary motion.—Otherwife defined to be—an Organical body, which draws in its nourifhment by pores or veffels on its outer furface.—Or, an Organical body deftitute of fenfe and *fpontaneous* motion, adhering to fome other body in fuch a manner as to draw from it nourifhment, and having the power of propagating itfelf by feed.

The

The primary parts of a Vegetable are-1. The Root. 2. The Herb. 3. The Fructification.

Vegetable Kingdom. The fecond of the three great divisions of natural bodies, comprehending all those substances which are organized and have life, but are destitute of fense and spontaneous motion. Linneus distributes vegetables into three Tribes, seven Families, or nine Nations. In his Artificial System he arranges them in twenty-five classes. He has also made an essay to reduce them into Natural Orders.

Vegetable Substance. See Substantia. Vegetable Texture. See Textura. Veil. See Calyptra.

VENOSUM folium. A Veined leaf. Having the veffels branching, or varioufly divided, over the furface.

When it has no veins, at leaft none that are perceptible to the naked eye, it is called *Folium Avenium*, a veinlefs leaf.

VEN-

- VENTRICOSUS. Ventricofe. Bellied. Diftended. Swelling out in the middle. Ventricofa fpica: a lateribus gibba. Swelling out at the fides.—Applied to the Perianth, in Æfculus—and to the Corolla, in Digitalis.
- Ventriculosus. Swelling out a little : as the perianth of Salicornia.
- VEPRECULÆ (from Vepres, a brier). The name of the fifty-fourth order in Linneus's Fragments, and of the thirty-first in his Natural Orders.
- VERNATIO (from Ver, the Spring). See Foliatio, which is the term in Philof. Bot. for which this is fubfituted in Term. Bot. and Delin. Pl.—In the two latter Reclination is omitted, and there is fome difference in the explanations.
- VERRUCOSA capfula. A warted capfule. Having little knobs or warts on the furface. As in Euphorbia verrucofa—Verrucofum folium. A Warted leaf. Tectum punctis carnofis. Covered with flefhy points. The fame with Papillofum. VER-

VERSATILIS (Verto, to turn) anthera. A Verfatile anther. Dr. Withering tranflates it Vane-like. Quæ latere affigitur. Which is placed on the filament by its fide. Oppofed to Erecta, Upright, which is fixed by its bafe. Philof. Bot.—In Delin. Pl.—it is explained more fully thus —Parte fui affixa, ceterum libere mobilis. Fixed by fome part, but freely moveable. It is there made fynonymous with Incumbens. See Incumbent.—Exemplified in Vitex, Linnæa, Geranium.

VERTICALE folium. A Vertical leaf.—In Philof. Bot. the fame with Obverfum, which fee.—A vertically-ovate leaf is the fame with an obverfely ovate or obovate leaf; and a vertically-cordate leaf is the fame with an obverfely-cordate or obcordate leaf.—Here the form of leaves is confidered, and it feems as if the bafe and apex had changed places.

In Delin. Pl. the term Verticale appears in that fection which fets forth the Direction of leaves; and fince it is placed next after Horizontale, we are led to fuppofe that it is ufed in oppofition to that term; but but the words of the explanation will not admit of that fenfe; nor have they any thing to do with the direction of a leaf. I conclude therefore that the term is mifplaced.—The words are thefe, Obverfum, ut regio basis angustion evadat regione apicis. A Vertical leaf is Obverse, fo that the region of the base becomes narrower than the region of the tip; which is nearly the fame with Linneus's explanation of obversum.

After all, I do not fee what the term *Vertical* can have to do with the fhape of a leaf; and if it had prefented itfelf to me in company with *Horizontal*, I fhould have fuppofed that the latter term implied a po-fition of the leaf's furface parallel to the horizon: and the former perpendicular to it.

VERTICILLUS (f. Verticulus, à verto. Inftrumentum quod fuso adhibetur, ut facilius vertatur. Plinius). Anglicè Wherles dicimus, fays Ray. It is commonly written Whorl; but Whirl seems to be the proper orthography, fince it must be derived from the verb to Whirl, which fignifies to turn round rapidly. A learned friend fuggests, fuggests, that it may be derived from Orle, a term in heraldry for the bordure furrounding a shield. If so, it should be spelt Whorl.

Linneus puts this term for a fort of inflorefcence made up of many fubfeffile flowers furrounding the stem in a ring. Fit ex floribus numerofis fubfeffilibus, caulem annulatim ambientibus.—As in Mentha Pulegium, Marrubium, &c.

A Verticil, Whorl or Whirl, may be

1. Seffile or peduncled.

- 2. Naked; that is, without involucre, bracte or briftle. Bracted—or Involucred.
- 3. Crowded. Diftant-or Remote.-Hence

Verticillati flores. Verticillate flowers; or flowers growing in a Whorl; or round the ftem in rings one above another at each joint.—It is applied to peduncles; and fometimes to branches and leaves.— Plants bearing flowers in this manner are ftyled

Verticillatæ. Verticillate plants. Thefe are included included in the fifty-eighth order of Linneus's Fragments; and the forty-fecond of his Natural Orders. In the Artificial Syftem, they form the order *Gymnospermia* of the class *Didynamia*. They also conflitute one of Ray's class.

- VESICULARIS (Vesicula, a little bladder) Scabrities. Vesicular or bladdery ruggednefs. Having little glands like bladders on the furface: as on the leaves of Mesembryanthemum, Aizoon, Tetragonia, &c.— It is applied also in common language, to the pulp of the Orange, Lemon, &c.
- VESSELS. Vafa—are, 1. Succiferous or Sap veffels. Canals commonly ftraight, and of a very fmall bore, for conveying the liquor, juices, or fap of the vegetable. These are called Vafa (ματ' εξοχην) in Delin. Pl.
 - 2. Utricles, or little Bags; usually full of a green pulp, filling up the interffices of the veffels, and ferving as refervoirs wherein the fap is lodged and perhaps fecreted.

3. Air veffels. Tracheæ. Spiral Canals, ufually

ufually of a larger bore, for receiving and diffributing the air.

On this fubject fee the learned Grew's incomparable treatife on the Anatomy of Vegetables.

VEXILLUM. Standard or Banner. Petalum corollæ papilionaceæ superius adscendens; alis carinæque incumbens.

VIGILIÆ plantarum f. florum. Status floris aperti. The state of the open flower.— Abfolvuntur determinatis boris diei, quibus plantæ flores quotidie aperiunt, expandunt & claudunt. These Vigiliæ or Watchings are performed at determined hours of the day, when plants open, expand, and shut their flowers daily.

Linneus calls those flowers which obferve this stated rule of opening and shutting, Solar flowers; and divides them into three kinds.—

1. Meteorici. Opening and fhutting fooner or later, according to the temperature of the air.

2. Tro-

- 2. Tropici, or Tropical Solar flowers. Opening and flutting fooner or later as the days increase or decrease; and therefore observing the unequal or Turkish hours.
- 3. ÆquinoEtiales, or EquinoEtial Solar flowers. Opening, and ufually fhutting at certain determinate hours of the day; and therefore obferving equal or European hours.

Linneus has given a table of these, with fome observations, in *Philos Bot.* p. 273.

- VILLOSUS. Villofe: Pilis mollibus pubefcens. Pubefcent or covered with foft hairs. As the ftem in Tomex and Rhus. The leaf in Ulex europæus or Furze, Primula villofa, &c. The ftigma.
- VILLUS (from $\mu\alpha\lambda\lambda\sigma\varsigma$ —or a velando—or a vellendo—or from $\lambda\lambda\omega$ for $\kappa\lambda\omega$ —or from pilus—or from vinnus, cincinnus molliter flexus—fuch is the uncertainty of derivation). It is interpreted—pili collecti, ac flocci vestium; collected hairs, the pile or nap of cloth.—In Linneus's idea, it feems to

to be foft clofe hairs, forming a fine nap or pile like velvet.

VIMEN (a viendo, from binding) Virgultum lentum ac flexile, ad ligandum aptum.
A bending Twig or Wythe: flender and flexible, fit for binding.

VINACEUM. Granum acine, yiyaglov. A Grape-ftone. Viol shaped. See Panduræforme.

VIRGATUS (Virga a rod, or wand) caulis.
A rod-like or wand like ftem or branch.
—Ramufculis debilibus in æqualibus. Shooting forth flender weak unequal rods or twigs: as in Artemifia campeftris.

VIRGULTUM (q. Virguletum, a Virgula, dimin. a virga). Small twigs or Brufhwood. Otherwife called Cremium, a cremando, from burning.

VISCIDUM (Viscum f. Viscus, Birdlime: from Bισκος Æol. pro ξος) folium. A Viscid or clammy leaf. Humore non fluido sed tenaci oblinitum. Covered or besmeared with a tenacious juice: as in Senecio viscosus. Applied also to the Stem.

Ee2

3. Pro-

VIS-

VI

- VISCOSITAS. Viscidity or Clamminess. The quality of tenacious moisture.
 - VIVIPARA planta. Vivipărus caulis A Viviparous plant or stem. Producing its offspring alive: either by bulbs instead of seeds; or by the seeds themselves germinating on the plant, instead of falling as they usually do.—Exemplified in some forts of Allium, in Polygonum viviparum, and several of the Graffes.
 - UMBELLA. An Umbel. Withering tranflates it the Rundle. Receptaculum ex centro eodem elongatum in pedunculos filiformes proportionatos A receptacle ftretching out into filiform proportioned peduncles from the fame centre. See Carymb.—It is
 - 1. Simple or undivided ; as in Panax.
 - 2. Compound: each peduncle bearing another little umbel, umbellet, or umbellule.—The firft or larger fet of rays conftituting the *univerfal* or *general* umbel; the fecond or fubordinate fet conftituting the *partial* umbel. Dr, Withering puts Spokes for what Linneus calls Radii.

3. Pro-

3. Proliferous or fuperdecompound.

An Umbel alfo is

1. Concave. 2. Convex. 3. Faftigiate, or rifing gradually like the roof of a house.

It is also either

1. Erect; or, 2. Nodding.

Flowers growing in this manner are called Umbellati, Umbellate or Umbelled flowers; by old authors Umbelliferous. Hence

UMBELLATÆ. The name of the twentyfecond order in Linneus's Fragments; and of the forty-fifth in his Natural Orders. Included in the fecond order of the fifth clafs, in the Artificial Syftem. This order is called by Ray and others Umbelliferæ; by Cæfalpinus Ferulaceæ.

UMBELLULA. An Umbellule or Umbellet. The fame with the Partial umbel. Rundlet of Withering.

UMBILICUS. The Navel. Used for the cavity at the end of fome fruits opposite

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to the footftalk. It is the place of the receptacle in fuperior flowers, and is commonly furrounded by the remains of the calyx : as in *Pyrus*.

It is fometimes applied to the centre of a corolla; as in Brozvallia.

Umbilicatus flos, fructus. An umbilicate flower or fruit. Formed in the middle like a navel.

UNANGULATUS caulis. A stem of one angle: as in Iris fætidissima.

UNARMED. Inermis. Without thorns or prickles. Applied to the ftem, leaf, and calyx.

UNCINATUS. Uncinate. Hooked at the end. As the awn of the feed in Geum urbanum; and the ftigma in Viola, Lantana, &c. This term is used, but not explained by Linneus. In what it differs from hamofus I know not.

UNDATUS, Undulatus. Waved. The furface rifing and falling in waves, or obtufely; not in angles.—Applied to the leaf in in Potamogeton crifpum; and to the corolla, in Gloriofa.

Linneus, in Philof. Bot. has only the fecond of thefe terms, which he applies to a leaf thus—folium undulatum fit, cum difcus verfus marginem convexe adfcendit & defcendit.—In Term. Bot. we meet only with the first, thus explained—difco plicis obtufis alternatim flexo.—In Delin. Pl. both terms occur. But I do not apprehend that they are used in different senses any more than patens and patula, valva and valvula, &c.

UNDERSHRUB. See Suffrutex.

- UNEQUAL. Inæqualis. The parts not correfponding in fize, but in proportion only. Applied to the corolla; and to the florets in many of the Umbellatæ.
- UNGUICULARIS mensura f. Unguis. A measure of fix lines, or half a French inch.

UNGUICULATUM petalum. A petal with a claw.

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- UNGUIS. See Measures.—A Claw. The base of the petal in a polypetalous corolla.
- UNGULATA filicula. A Hoof-shaped filicle : as in Rose of Jericho.
 - UNICAPSULARE *pericarpium*. A Unicapfular pericarp. Having one capfule to each flower.
- -UNICUS. One only, fingle. Unicum folium A fingle leaf on a stem — Unicus flos, synonymous with folitarius in Delin. Pl. Pedunculus folitarius, qui unicus est in loco. Philof. Bot. See Single.
- UNIFLORUS *pedunculus*. A one-flowered peduncle.
- UNILABIATA corolla. A one-lipped corolla, or a corolla of one lip.
- UNILATERALIS racemus. A one-fided raceme. When the flowers grow only on one fide of the common peduncle.

UNILOCULARE pericarpium. A unilocular or one-celled pericarp—or of one cell. UNI-

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UNIVALVE pericarpium. A univalvular or one-valved pericarp.

- UNIVERSALIS umbella. A univerfal, rather general, or primary umbel.—Univerfale involucrum. A Univerfal involucre. Placed at the foot of the univerfal umbel.
- VOLVA (The Ruffle, Withering). The membranaceous calyx of a Fungus.—This is faid to be—Approximating when it is near the cap. Remote, when at a diftance.

VOLUBILIS. Twining: which fee.

UPRIGHT or Erect. Erectus. See Erect.

URCEOLATUS. Pitcher-fhaped. Urceoli f. pelvis inftar inflatus & undique gibbus. Bellying out like a pitcher. Applied to the calyx, corolla, and nectary.

URENS. Stinging, or armed with ftings.

UTRICULI (dimin. from Uter, a wine bag or bottle). Utricles. Refervoirs to fecrete and receive the fap. See Veffels.

Alfo the bags or bladders at the root of Utricularia.

F f WAKING

WAKING or Watching of plants. See Vigiliæ.

Wand-like or Rod-like ftem. See Virgatus. Warted. See Verrucofa. Waved. See Undatus.

Weapons. See Arms.

WEDGE-SHAPED leaf. Folium cuneiforme. Having the longitudinal diameter exceeding the transverse one, and narrowing gradually downwards: as in Apium graveolens, Saxifraga tridactylites.

WHEEL-SHAPED corolla. Rotata. Monopetalous, and expanded flat without any tube.

WHIRL, Wherl, or Whorl. See Verticillus.

WINGS. Alæ. The two fide petals in a papilionaceous corolla.—Alfo, membranes affixed to the feed.

Winged

Winged petiole. Alatus. Having a thin membrane or border on each fide; or, dilated on the fides: as in Orange.—Winged leaf. See Pinnatum.

WITHERING or Shrivelling. Decaying without falling off. See Marcefcens.

WOOD. Lignum. The folid part of the trunk, formed gradually from the inner bark of the preceding year, become juicelefs, hardened, and agglutinated.

Woody ftems. Opposed to herbaceous.

- WOOL. Lana. A fort of pubefcence, or a clothing of denie curling hairs on the furface of fome plants.
- Woolly. Lanatus. Clothed with a pubefcence refembling wool: as the leaves of Horebound, Great Mullein, Furze, &c. See Lanatus.

Woollyish, or somewhat woolly. Sublanatus.

WRINKLED. See Rugofum.

WRITHED.

WRITHED. Contortuplicatus. Twifted very much. See Tortilis.—I perceive this word to be confounded even by refpectable writers, in orthography at leaft, with Wreathed, which is of very different import.

WYTHE, or Withe. See Vimen.

ZIGZAG, or Ziczac. Ufed by fome English writers for *Flexuofe*; which fee.

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hardened, and

THE END. THE BOG

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