A
SYNOPTICAL COMPEND
OF
BRITISH BOTANY,

ARRANGED AFTER THE
LINNEAN SYSTEM;

And containing
THE ESSENTIAL CHARACTERS OF THE GENERA,
THE SPECIFIC CHARACTERS,
English Names,
PLACES OF GROWTH, SOIL AND SITUATION,
COLOUR OF THE FLOWERS,
TIMES OF FLOWERING, DURATION,
AND
REFERENCES TO FIGURES.

ORIGINALLY
By JOHN GALPINE, A. L. S.

THE SECOND EDITION
With Corrections and considerable Additions,
Including
THE LINNEAN ORDER OF FERNS, TOGETHER WITH ESSENTIAL
CHARACTERS AND TYPES OF THE GENERA OF ALL
THE OTHER ORDERS OF CRYPTOGAMIA.

LONDON:
PRINTED FOR SAMUEL BAGSTER, No. 15, PATERNOSTER-RROW,
By G. F. Harris's Widow & Brothers, Liverpool.

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TO THE
PRESIDENT AND FELLOWS
OF
THE LINNEAN SOCIETY
OF LONDON,

This Improved Edition
OF A
COMPEND OF BRITISH BOTANY,
WHICH OWES ITS
ENLARGEMENT AND CORRECTNESS
TO THE
KIND REVISION
OF
ONE OF THEIR MOST DISTINGUISHED MEMBERS,
IS RESPECTFULLY DEDICATED,
BY THEIR OBEDIENT SERVANT,
THE PUBLISHER.

No. 15, PATERNOSTER-ROW.

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PREFACE

TO THE FIRST EDITION.

THE design of the following publication is to facilitate the knowledge of our English Plants among the lovers of Botany. To those conversant with the Latin language the *Compendium Floræ Britannicæ* of SMITH may appear entirely to have superseded the necessity of such a publication. The truth of this, as far as it relates to such persons, cannot be denied ; but among the admirers of Botany, some may be found who are wholly ignorant of, or partially acquainted with, that language ; and to such, perhaps, it may be presumed, without arrogance or vanity, that the present small work, or rather translation, will be no unacceptable publication.

The elegant productions of WITHERING and HULL, on Indigenous Botany, have no doubt induced many to become acquainted with this most pleasing branch of natural history, who otherwise would not have attempted it ; but from the size and number of volumes they are not conveniently portable, and consequently not always at hand for immediate reference. For the purpose, therefore, of rendering the present volume as commodious as possible for the pocket, such abbreviations as could with propriety be adopted have been made, which the explanatory table prefixed will sufficiently elucidate : and in one view the student has an opportunity of marking on the one page, the class and order of every English species, according to the system of Linnæus ; the Linnean and English names, their soil or situation, the colour of each flower, the time of flowering, and duration, together with references to the figures of plants as described by CURTIS, SOWERBY, &c. and on the opposite page their specific characters. To have included the class *Cryptogamia* would have extended the present publication to thrice its bulk, and thereby have rendered it less portable. Al-

though this class comprehends an assemblage of vegetables whose structure excites the highest admiration, yet the greater part of them, on account of the minuteness of their parts of fructification, not admitting of that mode of investigation usually adopted throughout the preceding classes, is seldom attended to but by the experienced botanist. The author has to apologise for any inaccuracies that may appear in this volume, disclaiming any merit whatever on his part, further than endeavouring to promote the cultivation of one of the most innocent, rational, and useful accomplishments.

PREFACE

TO THE SECOND EDITION.

THE estimated utility of this work was satisfactorily proved by the very rapid sale of the first edition; but the death of the author has hitherto delayed its republication. A new edition, however, having long been called for, and the publisher having been favoured by a scientific friend with an interleaved copy, containing not only corrections, but also, the addition of all the British species of Plants described and figured in SMITH and SOWERBY's *English Botany*, and in other works, since the publication of the first edition, he has now the satisfaction of complying with the often expressed wishes of many lovers of Botany, by submitting to them the present work. This, like the former edition, neither has nor pretends to have any claim to originality; but the publisher trusts, that as forming a systematic Index to the figures in *English Botany*, besides containing descriptions of several Plants which are not figured in that extensive and admirable work, this edition will be acceptable even to the possessors of the former one. In the first edition the author strictly adhered to the names of genera and species as given by the learned President of the Linnean Society, and respect for the deservedly eminent character of that individual would have led to a similar course in the present publication, if in a work of this nature respect for the character of an author or private friendship were alone to be consulted; but the worthy individual alluded to possesses too much candour and love of science to object to deviations from his works, when they appear to be the result of investigation. The genera and species as given in *English Botany* are, however, still retained, excepting where the author of that work has himself altered them in subsequent publications, or where a reference to the second edition of the *Hortus Kewensis*, enriched by the superlative science of BROWN, as well as to other late works, has appeared to make an alteration necessary.

The principal novelty in the present publication is the introduction of the class Cryptogamia, which was totally omitted in the former edition. To have included a full description of all the Plants of that class would necessarily have increased the volume to a very inconvenient size; but it is presumed, that the essential characters of the genera, with descriptions of all the species of the Linnean Order of Ferns, and of at least one species of each genus of the other Orders, will be considered as forming a valuable addition to Mr. GALPINE'S work. The books from which this part of the following pages is chiefly compiled, are *English Botany*, *Hortus Kewensis*, *Hooker and Taylor's Muscologia Britannica*, *Acharius's Lichenographia Universalis*, *Persoon's Synopsis Fungorum*, and *Sowerby's English Fungi*. The species given as types of the genera are principally selected either as the most common, or as the most remarkable for their appearance, or for some real or supposed quality. In some cases a species is given of each family or subdivision of a genus; and in *Fucus* and *Ulva* a species is given of each of the new genera of LAMOUROUX; this plan being considered preferable to the full adoption of his genera, because a better arrangement of this interesting tribe of plants is soon expected from the able hand of Mr. DAWSON TURNER. Much, indeed, is yet required to be done in the cryptogamic department of British Botany; particularly with respect to *Algae*, *Lichenes* and *Fungi*.

The pages containing the generic characters at the beginning of each class are not numbered; but as the Index to the Genera contains the number prefixed to each genus throughout the work, as well as the numbers of its class and order, the generic character may be referred to without difficulty. The English Index contains not only the names given in the body of the work, but also a considerable number of synonymus.

EXPLANATORY TABLE

OF

MARKS AND ABBREVIATIONS.

MARKS.

- † Put after the specific names of Plants which are not now found wild.
- § After the names of Plants which are doubtful natives.
- ! After the Soil or Situation of such Plants as are rare.
- * In the column for figures, denotes that the figure there quoted is given under a name different from that under which the Plant is described in this work.

SOIL, OR SITUATION.

Alp. bogs ...	Alpine bogs.	Bushy fi.....	Bushy fields.
— bu. pl...	— bushy places.	— hi.....	— hills.
— hea.....	— heaths.	— pl.....	— places.
— lak.....	— lakes.	Calc. ba.	Calcareous banks.
— mar.....	— marshes.	— roc.....	— rocks.
— mea. ...	— meadows.	Chal. ba.....	Chalky banks.
— riv.....	— rivulets.	— cl.	— cliffs.
— roc... ..	— rocks.	— fi.....	— fields.
— roc.& tr.	— rocks and trees.	— hil.....	— hills.
Ba.	Banks.	— pa.	— pastures.
Bar. gro.....	Barren ground.	— so.	— soil.
— hea.....	— heaths.	— wo.....	— woods.
— past. ...	— pastures.	Clov. fi.	Clover fields.
— san.....	— sandy places.	Corn fi.....	Corn fields.
Boggy hea...	Boggy heaths.	Cult. gr.	Cultivated ground.
— m.....	— meadows.	Dit.....	Ditches.
— pl.....	— places.	— ban.....	Ditch banks.
Bo on M. }	Bogs on Mountains.	Dry com.....	Dry commons.
Bgs. on M. }		— fi.....	— fields.
Bor. of fi.....	Borders of fields.	— hea.	— heaths.
Br.	Branches.	— m. pl.....	— mountainous places

Dry pas.....	Dry pastures.	M. wo.....	Mountainous woods.
— st. pl.....	— stony places.	Mud. dit.....	Muddy ditches.
— st. w.....	— stony woods.	— sh.	— shores.
— wo.	— woods.	N. of Eng....	North of England.
Dunghil	Dunghills.	N. of Sco. ...	— of Scotland.
Edges of D...	Edges of Ditches.	Old w.....	} Old walls.
Grav. ban. ...	Gravelly banks.	Old wa. ...	
— hea.....	— heaths.	Osier hol. ...	Osier holts.
— pas.....	— pastures.	Pas	Pastures.
— so.	— soil.	Peaty dit.....	Peaty ditches.
Hea.....	Heaths.	Riv. ban.....	River banks.
Hea. & wo...	Heaths and woods.	Rivul.	Rivulets.
Hed. ban. ...	Hedge banks.	Road si.	Road sides.
Highl. va. ...	Highland valleys.	Rub.....	Rubbish.
Hilly pas.....	Hilly pastures.	Salt mar.....	Salt marshes.
Ir. bogs	Irish bogs.	S. W. dit. ...	Salt water ditches.
— mount.....	— mountains.	San. fi.....	Sandy fields.
— roc.....	— rocks.	— gr.	— ground.
— shores ...	— shores.	— hea.....	— heaths.
— thick.	— thickets.	— mar. ...	— marshes.
Lak.	Lakes.	— pas.....	— pastures.
Marg. lak. ...	Margins of lakes.	— pl.	— places.
Marit. roc. ...	Maritime rocks.	— sh.	— shores.
Mar.	Marsbes.	— w. pl...	— wet places.
Mea.	Meadows.	Sc. alps	Scottish alps.
Mea. pas.....	Meadows and pastures.	— bogs	— bogs.
Mic. rocks ...	Micaceous rocks.	— isl.....	— islands.
M. alp. pl. ...	Moist alpine places.	— mar.	— marshes.
— alp. wo....	— alpine woods.	— mount. ...	— mountains.
Moi. chal. ...	— chalky soil.	— pas.....	— pastures.
— cha. h....	— chalky hills.	— roc.	— rocks.
— fi.....	— fields.	— sh.	— shores.
— gr.	— ground.	— thick. ...	— thickets.
— hea.....	— heaths.	— wo.....	} — woods.
— hed.....	— hedges.	— wds. ...	
— mea. ...	— meadows.	Sea co... ..	Sea coast.
— pas.....	— pastures.	— sh.....	— shore.
— pl.	— places.	Sev. isles.....	Severn isles.
— roc... ..	— rocks.	Shad. ba.	Shady banks.
— roc.&tr. ...	— rocks and trees.	— bogs ...	— bogs.
— s. p.....	— shady places.	— la.	— lanes.
— wo.....	— woods.	— m. pl....	— moist places.
Mos. bog. ...	Mossy bogs.	— pl.	— places.
Mount.....	Mountains.	— roc.....	— rocks.
Mount. h. }	} Mountainous heaths.	So. coast.....	South coast.
M. hea. ... }		S. of Sco.....	South of Scotland.
M. pas.....	— pastures.	Sp. bogs	Spongy bogs.
Mou. pl.	— places.	Stag. wa. ...	Stagnant water.
— — — — —	— rocky	Ston. in wa...	Stones in water.
M. roc. hea {	heaths.	Sto. & wa ...	Stones and walls.
— thick.....	— thickets.	Stony hi.....	Stony hills.

Stony pa.....	Stony pastures.	Wat. pl.	Watery places.
— pl.....	— places.	— sh. pl...	— shady places.
Sun. hil.	Sunny hills.	W. Alps.....	Welsh alps.
— roc.....	— rocks.	Wel. bogs ...	— bogs.
Thick.....	Thickets.	— lak.....	— lakes.
Tr.	Trees.	— roc.....	— rocks.
Tr. & st.	Trees and stones.	Wet alp. hea.	Wet alpine heaths.
Trn. of trees,	Trunks of trees.	— com.....	— commons.
Tu. bogs.....	Turfy bogs.	— gr.	— ground.
— hea.	— heaths.	— sa. p. ...	— sandy places.
Uncul. gr. ...	Uncultivated ground.	— s. gr. ...	— shady ground.
— pl. ...	— places.	— sha. pl.	— shady places.
Wa. gr.	Waste ground.	— thick....	— thickets.
Wat. com ...	Watery commons.		

COLOUR OF THE FLOWERS.

Apetal.....	{ Apetalous, without petals.	Scar.....	Scarlet.
Pur.....		Viol.	Violet.
		Yel.....	Yellow.

TIME OF FLOWERING.

1. January. 2. February. 3. March, &c.

DURATION.

A. Annual.	P. Perennial.	S. Shrub.
B. Biennial.		T. Tree.

DESCRIPTIONS.

Androg.	Androgynous.	Leaf.	Leaflets.
Anth.	Author.	L.....	Leaves.
Cal.	Calyx.	M.	Male.
Calyp.....	Calyptra.	Nect.	Nectary.
Caps.	Capsule.	Pan.....	Panicle.
Cor.....	Corolla.	Pedunc.	Peduncle, or peduncled
Corymb.	Corymbus.	Perist....	Peristome.
Cylind.....	Cylindrical.	Pet.....	Petal.
Dichot.	Dichotomous.	Pist.....	Pistil.
Fem.	Female.	Polyg.....	Polygamous.
Filam.....	Filament.	Recept.	Receptacle.
Fl.	Flower.	Seg.....	Segment.
Flor.	Floret.	Silic.	Silicle.
Flow.	Flowered.	Spikel.....	Spikelet.
Fruct.	Fructification.	Stig.	Stigma.
Germ.	Germen.	Stam.	Stamen.
Herm.....	Hermaphrodite.	Term.	Terminal.
Invol.	Involute.	Unb.....	Umbel.

BOOKS QUOTED.

<i>Achar.</i>	}	Acharius, Lichenographia Universalis.
<i>Achar. Lichenog. univ.</i>		
<i>Annals of Bot.</i>		Annals of Botany by C. Konig and J. Sims.
<i>Bot. Mag.</i>		Curtis and Sims's Botanical Magazine.
<i>De Candolle</i>	{	De Candolle, Flore Française.
		_____ Systema naturale.
<i>Dillwyn Conf.</i>		Dillwyn's Synopsis of the British Confervæ.
<i>Eng. Bot.</i>		Smith and Sowerby's English Botany.
<i>Flor. Dan.</i>		Icones Plantarum sponte nascentium in Regnis Daniæ et Norwegiæ.
<i>Haller.</i>		Haller, Historia stirpium indigenarum Helvetiæ inchoata.
<i>Hooker's Musc. Brit.</i>		Hooker and Taylor's Muscologia Britannica.
<i>Hort. Kew.</i>		Hortus Kewensis. Ed. 2.
<i>Hudson.</i>		Hudson's Flora Anglica.
<i>Jussieu</i>		Jussieu, Genera Plantarum.
<i>Lam.</i>	}	Lamoureux in Annales du Museum d'Histoire naturelle.
<i>Lamoureux.</i>		
<i>Linn.</i>		Linnæi Genera Plantarum.
<i>Pers. Syn. Fung.</i>		Persoon, Synopsis methodica Fungorum.
<i>Pluk. Phyt.</i>		Plukenet, Phytographia.
<i>Sow. Eng. Fung.</i>		Sowerby's Coloured figures of the English Fungi or Mushrooms.
<i>Swartz.</i>		Swartz in Kongl. Vetenscaps Academiens Handlingar.
<i>Trans. Linn. Soc.</i>		Transactions of the Linnean Society of London.
<i>Ventenat.</i>		Ventenat, Choix des plantes.
<i>Willd.</i>		Willdenow, Species plantarum.

CLASS I.

MONANDRIA.

ORDER I. MONOGYNIA.

* *Seeds naked.*

1. SALICORNIA. *Cal.* ventricose, entire, *Cor.* 0. *Stam.* 1 or 2. *Seed* 1, in the bottom of the calyx.
2. HIPPURIS. *Cal.* obsolete. *Cor.* 0. *Seed* 1, inferior.
Valeriana 1. *Alchemilla* 3.

** *Seeds capsular.*

3. CHARA. *Berry* many-seeded. *Style* 0.
4. ZOSTERA. *Caps.* 1-seeded. *Spadix* sheathed, many-flow. disposed in a double row. *Stig.* 2.

ORDER II. DIGYNIA.

5. CALLITRICHE. *Cal.* 0. *Pet.* 2. *Seeds* 4, naked, marginate on one side, *Fl.* some monocious.

CLASS I. MONANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the flower.	Time of Flowering.	Duration.	Figure in English Botany
1	SALICORNIA.	SAMPHIRE.					
1	herbacea	marsh.....	Sea sh.	apetal.	8,9	A.B.	415.
2	procumbens	procumbent	Salt mar.	.....	8	A.	2475.
3	radicans	creeping-rooted...	Sea sh.	.....	9	P.	1691.
4	fruticosa	shrubby	Sea sh. !	.....	8,9	P.	2467.
2	HIPPURIS.	MARE'S-TAIL.					
1	vulgaris.....	common.....	Ditches	apetal.	5	P.	763.
3	CHARA.	CHARA.					
1	vulgaris.....	common.....	Pools	apetal.	7	A.	336.
2	hispida	prickly	Ditches	.....	7,8	A.	463.
3	flexilis	smooth	Ditches	.....	7,8	A.	1070.
4	translucens	transparent	Pools !	.....	6,7	A.	1855.
5	nidifica	proliferous	S.W. dit.	.....	7,8	A.	1703.
6	gracilis	slender	Pools !	.....	9	A.	2140.
4	ZOSTERA.	GRASS-WRACK					
I	marina	sea	Sea sh.	apetal.	8,9	P.	467.
ORDER II. DIGYNIA.							
5	CALLITRICHE.	STAR-WORT.					
I	aquatica	water	Ditches	white	4-10	A.	722.

CLASS I. MONANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

1. SALICORNIA.

1. Herbaceous, erect ; internodes obconic. joints compressed : spikes tapering.
2. Herbaceous, procumbent ; internodes obconic. branches simple : spikes tapering : 2 stamens.
3. Woody, procumbent ; internodes nearly cylind. joints compressed : spikes oblong : 2 stamens.
4. Woody, ascending ; joints and internodes cylind. spikes nearly sessile, cylind. obtuse.

2. HIPPURIS.

1. L. verticillate, linear : Fl. sessile, one in the bosom of each leaf.

3. CHARA.

1. Striated without prickles ; L. subulate, jointed.
2. Furrowed : L. subulate, jointed : leaf. verticillate : stem prickles setaceous, deflexed.
3. Smooth, transparent, without prickles : L. cylind. obtuse, mucronulated, without internal partitions.
4. Smooth, transparent, without prickles : L. simple cylind. obtuse, mucronulated, with transverse internal partitions.
5. Smooth, transparent, without prickles : L. simple cylind. elongated : anther sometimes stalked.
6. Smooth, transparent, shining, without prickles ; branches dichotomous, acute : L. awl-shaped, subdivided.

4. ZOSTERA.

1. Capsules sessile : L. linear, long, flaccid.

ORDER II. DIGYNIA.

5. CALLITRICHE.

1. L. opposite : Fl. axillary, solitary, sessile.

CLASS II.

DIANDRIA.

ORDER I. MONOGYNIA.

* *Fl. inferior, 1-pet. regular.*

6. LIGUSTRUM. *Cor.* 4-cleft. *Berry* 4-seeded.
7. FRAXINUS. *Cor.* 0. or 4-parted. *Caps.* compressed, 2-seeded *Fl.*
some female.

** *Fl. inferior, 1-pet. irregular, capsular.*

9. VERONICA. *Cor.* 4-parted, wheel-shaped. *Caps.* 2-celled.
10. PINGICULA. *Cor.* ringent, spurred. *Caps.* 1-celled. *Cal.* 5-cleft.
11. UTRICULARIA. *Cor.* ringent, spurred. *Caps.* 1-celled. *Cal.* 2-leaved.

*** *Fl. inferior, 1-pet. irregular: seeds naked.*

13. LYCOPUS. *Cor.* nearly equal, 4-cleft, one lobe notched. *Stam.* distant, simple. *Seeds* retuse.
14. SALVIA. *Cor.* ringent. *Filam.* fixed transversely on a little pedicle.

**** *Fl. superior.*

8. CIRCÆA. *Cor.* 2-pet. *Cal.* 2-leaved. *Caps.* 2-celled. *Seeds* solitary.

***** *Fl. apetalous, or 4-petalled.*

12. LEMNA. *Cor.* 0. *Cal.* 1-leaved. *Caps.* many seeded.
Salicornia 2, 3. *Fraxinus.* *Schœnus* 5. *Lepidium* 2. *Coronopus* 2.

ORDER II. DIGYNIA.

15. ANTHOXANTHUM. *Cal.* glume 2-valved, 1-flow. *Cor.* glume 2-valved, awned. *Seed* 1.
Bromus 11.

CLASS II. DIANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
6	LIGUSTRUM.	PRIVET.					
	1 vulgare	common	Hedges	white ...	5,6	S.	764.
7	FRAXINUS.	ASH.					
	1 excelsior	common	Woods	apetal ...	4,5	T.	1692.
	2 heterophylla.....	simple-leaved.....	Woods!	apetal ...	4,5	T.	2476.
8	CIRCÆA.	ENCHIANTERS' NIGHTSHADE.					
	1 lutetiana	common	Sha. pla.	reddish	6,7	P.	1056.
	2 alpina	mountain	Mount.	reddish	7,8	P.	1057.
9	VERONICA.	SPEEDWELL.					
	*						
	1 spicata	spiked	Chal. pas.	blue	7-9	P.	2.
	2 hybrida	welsh	Mount.!	blue	7	P.	673.
	3 officinalis	common	Bar. gro.	blue	5,6	P.	765.
	***						
	4 saxatilis	blue rock	Sc. alps.	blue	7	P.	1027.
	5 fruticulosa.....	shrubby	Sc. alps.	flesh	7	P.	1028.
	6 alpina	alpine	Sc. alps.	blue	7,8	P.	484.
	7 serpyllifolia	smooth	Mea. pas.	blue	5,6	P.	1075.
	8 Beccabunga	Brooklime	Rivulets	blue	7	P.	655.
	9 anagallis	water	Marshes	blue	7	P.	781.
	10 scutellata	marsh.....	Marshes	flesh	7,8	P.	782.
	11 montana	mountain	Moi. wo	blue	5,6	P.	766.
	12 Chamædrys	Germander	Mea. pas.	blue	5	P.	623.
	***						
	13 agrestis.....	procumbent	Cult. gro.	blue	4-9	A.	733.
	14 arvensis	wall	Old wa.	blue	5	A.	734.
	15 hederifolia	ivy-leaved	Cult. gro.	blue	4-9	A.	784.
	16 triphyllos	finger'd	San. fi.!	blue	4	A.	26.
	17. verna	vernal.....	San. fi.	blue	4	A.	25.

CLASS II. DIANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

6. LIGUSTRUM.

1. L. elliptic-lanceolate, obtuse, mucronulated.

7. FRAXINUS.

1. Leaf. serrated: Fl. destitute of calyx and corolla.
2. L. both simple and compound, with tooth-like serratures.

8. CIRCÆA.

1. Stem erect: L. ovate, denticulate, opaque, downy.
2. Stem ascending: L. cordate, serrated, shining: cal. membranous.

9. VERONICA.

* *Spiked.*

1. Spike term. L. opposite, bluntish, crenato-serrulated; very entire at the apex: stem ascending, simple.
2. Spikes term. L. opposite, elliptic, obtuse, unequally crenato-serrated: stem nearly erect.
3. Spikes lateral, peduncled: L. opposite, rough: stem procumbent.

** *Corymboso-racemous.*

4. Corymb. term. few. flow. L. elliptical: stems diffuse: caps. ovate, 4-valved.
5. Corymb. term. many-flow. spiked: L. elliptic-lanceolate: stems erect: caps. ovate, 4-valved.
6. Corymb. term. somewhat spiked: L. ovate, smooth, slightly serrated: cal. ciliate: stem ascending, simple.
7. Raceme term. somewhat spiked: L. ovate, slightly crenate, 3-nerved, smooth: caps. obcordate, shorter than the style.
8. Racemes lateral: L. elliptical, flat: stem creeping.
9. Racemes lateral, opposite: L. lanceolate, serrated: stem erect.
10. Racemes lateral, alternate: pedicles divaricate: L. linear, denticulate.
11. Racemes lateral, elongated, filiform, few flow. L. ovate, petioled, serrated: stem hairy on every side.
12. Racemes lateral: L. ovate, sessile, rugged, inciso-serrated: stem hairy bifariously.

*** *Fl. solitary.*

13. L. ovate, inciso-serrated, shorter than the pedunc: stems procumb: seeds pitcher-shaped.
14. L. ovate, inciso-serrated; floral leaves lanceolate, longer than the pedunc: stem erect.
15. L. cordate, flat, 5-lobed: cal. segments cordate: seeds pitcher-shaped.
16. L. uppermost, with fingered divisions: pedunc. longer than the calyx: seeds flat.
17. L. with fingered divisions: pedunc. shorter than the calyx: stem straight.

CLASS II. DIANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
10	PINGUICULA.	BUTTERWORT					
	1 lusitanica	pale	Bogs !	lilac	6,7	P.	145.
	2 vulgaris	common	Bogs	violet	5,6	P.	70.
	3 grandiflora	large-flowered ...	Ir. bogs	blue	5,6	P.	2184.
11	UTRICULARIA.	HOODED MILFOIL.					
	1 vulgaris	greater	Stag. wa.	yel.	7	P.	253.
	2 intermedia	intermediate	Ir. bogs	yel.	7	P.	2489.
	3 minor	lesser	Bogs	yel.	7	P.	254.
12	LEMNA.	DUCK-WEED.					
	1 trisulca	ivy-leaved	Stag. wa.	.....	6	A.	926.
	2 minor	lesser	Stag. wa.	.....	6,7	A.	1095.
	3 gibba.....	gibbous	Stag. wa.	.....	6,7	A.	1233.
	4 polyrrhiza.....	greater	Ditches	.....	7,8	A.	2458.
13	LYCOPUS.	WATER-HOREHOUND.					
	1 europæus	common	Riv. ban.	white	7,8	P.	1105.
14	SALVIA.	CLARY.					
	1 pratensis	meadow	Dry pas !	violet	7	P.	153.
	2 verbenaca.....	wild english	Pas.....	violet	6-10	P.	154.
ORDER II. DIGYNIA.							
15	ANTHOXANTHUM.	VERNAL-GRASS.					
	1 odoratum	sweet-scented ...	Mea. pas.	.....	5	P.	647

CLASS II. DIANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

10. PINGUICULA.

1. Nect. obtuse, shorter than the petal: scape villous: caps. globose.
2. Nect. cylind. acute, the length of the petal: caps. ovate.
3. Nect. cylind. acute, as long as the petal, which is reticulated; upper lip dilated: caps. ovate.

11. UTRICULARIA.

1. Nect. conical: scape few-flow.
2. Nect. conical: scape 3-flow: upper lip of the cor. flat: L. crowded in 3 deep-forked segments.
3. Nect. keeled, very short, obtuse.

12. LEMNA.

1. L. petioled, lanceolate, proliferous.
2. L. sessile, flattish on both sides: roots solitary.
3. L. sessile, somewhat convex, hemispherical beneath: roots solitary.
4. L. sessile: roots crowded.

13. LYCOPUS.

1. L. sinuato-serrated.

14. SALVIA.

1. L. cordate-oblong, crenate; upper embracing the stem: whorls nearly naked: cor. helmet glutinous.
2. L. serrated, sinuated, smoothish: cor. narrower than the calyx.

ORDER II. DIGYNIA.

15. ANTHOXANTHUM.

1. Spike ovate-oblong: Fl. longer than their awns, somewhat pedunc.

CLASS III.

TRIANDRIA.

ORDER I. MONOGYNIA.

* *Fl. superior.*

- 16. VALERIANA. *Cor.* 5-cleft, gibbous at the base. *Seed* 1, naked.
- 17. CROCUS. *Cor.* 6-parted, equal. *Stig.* convolute.
- 18. IXIA. *Cor.* 6-parted, equal. *Stig.* filiform.
- 19. IRIS. *Cor.* 6-parted, alternate petals reflexed. *Stig.* petaliform.

** *Fl. inferior glumose. Seed* 1. (Grass-like).

- 20. SCHOENUS. *Glumes* clustered; outer ones barren. *Seed* roundish.
- 21. CYPERUS. *Glumes* 2-rowed, imbricated. *Seed* beardless.
- 22. SCIRPUS. *Glumes* imbricated on every side.
- 23. ERIOPHORUM. *Glumes* imbricated on every side. *Seed* beset with very long wool.
- 24. NARDUS. *Cal.* 0. *Cor.* glume 2-valved.
Juncus 4.

ORDER II. DIGYNIA. (True Grasses.)

* *Calyxes* 1-flow. scattered.

- 29. KNAPPIA. *Cal.* 2-valved, truncated. *Cor.* 1-valved, very hairy, abrupt.
- 28. ALOPECURUS. *Cal.* 2-valved. *Cor.* 1-valved, simple at the apex, awned at the base.
- 27. PHLEUM. *Cal.* 2-valved, linear, acuminate, sessile. *Cor.* 2-valv. awnless included in the calix.
- 26. PHALARIS. *Cal.* 2-valved; valves keeled, equal, including a double corolla.
- 30. POLYPOGON. *Cal.* 2-valves, awned at the apex. *Cor.* included, outer valve awned at the apex.
- 31. MILIUM. *Cal.* 2-valved, ventricose, larger than the corolla. *Stig.* villous.
- 32. AGROSTIS. *Cal.* 2-valved; valves acute, shorter than the corolla. *Cor.* membranaceous, hairy at the base. *Stigm.* plumose.
- 39. DACTYLIS. *Cal.* 2-valved, compressed; larger valve keeled.
- 43. STIPA. *Cal.* 2-valved. *Cor.* awn terminal, jointed at its base.
- 45. LAGURUS. *Cal.* 2-valved, awns villous. *Cor.* outer glume 3-awned.
Arundo 2, 3, 5. *Melica* 1.

** *Calyxes* 2-flow. scattered, 2-valved.

- 33. AIRA. *Florets* without a rudiment between them.
- 35. MELICA. *Rudiment* of a third flow. between the florets.
- 34. HOLCUS. *Cor.* awned; one floret male.
- 25. PANICUM. *Cor.* cartilaginous, persisting; one floret neuter.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

*** *Calyxes many-flow. scattered, 2-valved.*

33. BRIZA. *Cor.* ventricose, valves cordate, obtuse. *Seed* depressed, growing to the corolla.
 37. POA. *Cor.* valves ovate, rather acute, awnless. *Spikel.* rounded at the base.
 36. SESLERIA. *Cor.* valves toothed at the apex. *Cal.* awned. *Styles* connate.
 41. FESTUCA. *Spikel.* oblong, somewhat cylindrical: glumes acuminate.
 42. BROMUS. *Spikel.* oblong: glumes awned beneath the apex: innermost pectinato-ciliated.
 44. AVENA. *Cor.* glume almost cylindrical: awn twisted from its back.
 46. ARUNDO. *Flor.* beset with permanent wool.
Dactylis 2.

**** *Spiked, common receptacle scrobiculate.*

47. LOLIUM. *Cal.* 1-leaved, fixed, many flow.
 48. ROTTBOLLIA. *Cal.* 1-leaved, sometimes 2-parted, mostly 1-flow. *Fl.* alternate, on a jointed rachis.
 51. TRITICUM. *Cal.* 2-valved, solitary, many flow. *Rachis* flexuose, toothed.
 40. CYNOSURUS. *Cal.* 2-valved, solitary, many-flow. *Recept.* proper unilateral, leafy.
 49. ELYMUS. *Cal.* 2-valved, lateral, aggregate, many-flow.
 50. HORDEUM. *Cal.* 2-valved, lateral, 1-flow, growing 3-together.

ORDER III. TRIGYNIA.

52. MONTIA. *Cal.* 2-leaved. *Cor.* 1-pet. *Caps.* 3-valved, 3-seeded.
 54. POLYCARPON. *Cal.* 5-leaved. *Pet.* 5. *Caps.* 3-valved, many seeded.
 53. HOLOSTEUM. *Cal.* 5-leaved. *Pet.* 5, eroded. *Caps.* nearly cylindrical, opening at the apex.
Tillaea 1. *Stellaria* 2.

CLASS III. TRIANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
16	VALERIANA.	VALERIAN.					
	1 rubra§.....	red	Old w.	rose.....	6-9	P.	1531.
	2 dioica	marsh	Marshes	flesh	6	P.	628.
	3 officinalis	great wild	Marshes	flesh	6	P.	693.
	4 pyrenaica	heart-leaved	Sc. Wds.	rose.....	6	P.	1591.
	5 Locusta	corn sallad	Corn fi.	blue.....	4	A.	811.
	6 dentata	oval fruited	Corn fi.!	flesh	6-7	A.	1370.
17	CROCUS.	CROCUS.					
	1 sativus§	saffron	Meadow,	viol.....	9	P.	543.
	2 vernus	spring	Meadow,	yel.	3	P.	344.
	3 nudiflorus	naked-flowering ..	Meadow,	viol.....	10	P.	491.
18	IXIA	IXIA.					
	1 Bulbocodium ...	dwarf.....	Guernsey	blue.....	4	P.	2549.
19	IRIS.	IRIS.					
	1 pseudacorus.....	yellow	Moi. pla.	yel.	7	P.	578.
	2 fetidissima.....	stinking	Sha. pla.	lead.....	6	P.	596.
20	SCHOENUS.	BOG-RUSH.					
	1 Mariscus	prickly	Bogs		7,8	P.	950.
	2 nigricans.....	black	Sp. bogs		6	P.	1121.
	3 compressus.....	compressed	Tu. bogs		7	P.	791.
	4 rufus	brown	Sc. bogs		7	P.	1010.
	5 albus.....	white-headed.....	Sp. bogs		8	P.	985.
	6 fuscus.....	brown-headed ...	Wel.bogs		8	P.	1575.
21	CYPERUS.	GALANGALE.					
	1 longus.....	sweet	Mar. !		7	P.	1309.
22	SCIRPUS.	CLUB-RUSH.					
	* 1 palustris	marsh-creeping ...	Mar.		6,7	P.	131.

CLASS III. TRIANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

16. VALERIANA.

1. Fl. monandrous, tailed: L. lanceolate, very entire.
2. Fl. triandrous dioicous: L. radical ovate, stem pinnate.
3. Fl. triandrous: L. all pinnate: leaf. lanceolate, almost uniform.
4. Fl. triandrous: L. of the stem cordate, serrated, on footstalks, the uppermost pinnate.
5. Fl. triandrous, stem dichotomous: L. linear-tongue-shaped, obtuse.
6. Fl. triandrous: stem dichotomous with axillary flowers: L. linear-tongue-shaped: fruit ovate, 3-toothed.

17. CROCUS.

1. Stig. projecting, three-parted: segments linear.
2. Stig. inclosed, trifid: lobes wedge-shaped, incised.
3. Stig. inclosed, trifid: with many-cleft lacinated pencil-form lobes: Fl. leafless.

18. IXIA.

1. Stalk short, mostly 1-flow: L. linear, channelled: Stig. 2-parted.

19. IRIS.

1. Cor. beardless: inner petals less than the stigma, erect: L. ensiform.
2. Cor. beardless: inner petals greatly spreading: stem 1-angled: L. ensiform.

20. SCHOENUS.

1. Culm cylind. leafy: L. prickly on the back and margin.
2. Culm cylind. naked: head ovate: invol. 2-leaved, one valve subulate, longer.
3. Culm roundish naked, spike 2-rowed, shorter than the 1-leaved invol: spikel. many-flow: L. flat.
4. Culm cylind. naked: spike 2-rowed, longer than the 1-leaved obtuse invol: spikel. few-flow: L. channelled.
5. Culm 3-sided, leafy: Fl. clustered diandrous: L. setaceous: seed bristly at the base.
6. Culm 3-sided, leafy: Fl. clustered, triandrous: L. thread-shaped: seed with 3 bristles at the base.

21. CYPERUS.

1. Culm 3-sided, leafy: umb. leafy, decompound: pedunc. naked: spikel. alternate.

22. SCIRPUS.

* *Spike single.*

1. Culm cylind. sheathed at the base: spike almost oval: term. glumes acute: root creeping.

CLASS III. TRIANDRIA.

ORDER I. MONOGYNIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
SCIRPUS.	CLUB-RUSH.					
2 multicaulis	many-stalked.....	Tu. bogs	.....	7	P.	1187.
3 cæspitosus	scaly-stalked	Tu. heath	.....	7	P.	1029.
4 pauciflorus	chocolate-headed	Bgs.on M.	.....	8	P.	1122.
5 acicularis	least	M.heaths	.....	8	B.	749.
6 fluitans	floating	Ditches	.....	7,8	B.	216.

7 lacustris	bull-rush	Rivers	.....	7	P.	666.
8 glaucus	glaucous.....	Salt mar.	.....	7,8	P.	2321.
9 Holoschoenus .	round chust.headed	Sea sh.	.....	8-11	P.	1612.
10 setaceus	bristly-stalked	San. w.pl.	.....	7,8	A.	1693.

11 triqueter.....	triangular	Mar.	.....	8	P.	1694.
12 carinatus	blunt-edged	Riv. ban.	.....	8	P.	1933.

13 maritimus	salt-marsh	Salt mar.	.....	7,8	P.	542.
14 sylvaticus	wood	Moi. s. p.	.....	7	P.	919.
ERIOPIHORUM.	COTTON GRASS.					
1 vaginatum	hare's-tail	Moors	.....	3,4	P.	873.
2 capitatum	round-headed	Sc. mou.	.....	8	P.	2387.
3 polystachion.....	broad-leaved	Bogs	.....	4	P.	563.
4 angustifolium...	common	Bogs	.....	4	P.	564.
5 gracile.....	slender	Sc. mou.	.....	7	P.	2402.
6 alpinum	alpine.....	Tu. bogs	.....	4,5	P.	311.
NARDUS.	MAT-GRASS.					
1 stricta.....	common	Moi. hea.	.....	7	P.	290.

23

24

CLASS III. TRIANDRIA.

ORDER 1. MONOGYNIA.

SPECIFIC CHARACTER.

SCIRPUS.

2. Culm cylind. sheathed at the base: spike ovate: term. glumes obtuse, equal: root fibrous.
3. Culm cylind. striated, sheathed, encompassed with numerous scales at the base: spike term. outer glumes largest.
4. Culm cylind. striated, sheathed at the base: spike term. few-flow. longer than the outer glumes.
5. Culm quadrangular: sheath at the base awnless: spike ovate, acute, term: outer glumes largest.
6. Stem leafy, flaccid, floating: pedunc. alternate, naked: spikes solitary, term.

** *Spikes many: culm cylindrical.*

7. Culm naked: pan. cymose, decomposed, term. spike. ovate.
8. Culm naked, glaucous: pan. cymose, not higher than the bractea: spike. ovate: stig. bifid.
9. Culm naked: heads clustered, pedunc. or sessile: invol. 2-leaved, unequal: L. channelled.
10. Culm naked, setaceous: lateral spikes sometimes in pairs, sessile, without bractea.

*** *Culm 3-sided: panicle naked.*

11. Culm erect, naked, acuminate: spikes lateral, sessile, or peduncled.
12. Culm naked, triangular upwards: pan. cymose: term. bractea pungent: stig. bifid.

**** *Culm 3-sided: panicle leafy.*

13. Pan. corymbate, term: glumes mucronate, lacero-3-cleft.
14. Culm leafy, cyme term: pedunc. naked, superdecompound: spikes crowded.

23. ERIOPHORUM.

1. Culms sheathed, cylind: 3-sided at the apex: spike solitary: glumes scariose.
2. Culm sheathed, entirely cylind: spike solitary, roundish: glumes scariose.
3. Culms cylind: L. flat: spikes peduncled.
4. Culms cylind: L. channelled, 3-sided at the apex: spikes pedunc.
5. Culms compressed towards the top: L. 3-sided, channelled above: spikes pedunc. longer than the bractea.
6. Culms naked, angular: spike solitary, erect, shorter than the pappus.

24. NARDUS

1. Spike setaceous, straight, 1-rowed.

CLASS III. TRIANDRIA.

ORDER II. DYGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
25	PHALARIS.	CANARY-GRASS.					
	1 canariensis § ...	manured	uncul. pl.	.....	6-8	A.	1310.
	2 arundinacea	reed	Ditches	.....	7	P.	402.
26	PANICUM.	PANICK GRASS.					
	1 verticillatum....	rough.....	Moi. fi.	.....	6,7	A.	874.
	2 viride.....	green	San. fi.	.....	7	A.	875.
	3 Crus-galli	loose	Moi. fi.	.....	7	A.	876.
	4 sanguinale.....	cock's-foot.....	Corn. fi.!	.....	7	A.	849.
	5 dactylon	creeping	Sea shore	.....	7,8	P.	850.
27	PHLEUM.	CAT'S-TAIL-GRASS.					
	1 pratense	common	Mea. pas.	.....	6-10	P.	1076.
	2 alpinum	alpine.....	Sc. alps.	.....	7	P.	519.
	3 paniculatum ...	panicked.....	Mead.!	.....	7	A.	1077.
	4 Boehmeri	canary	Plains	.....	7	P.	*459.
	5 Michelii	Michelian.....	Alp. roc.	.....	7	P.	2265.
	6 arenarium	Sea.....	San. fi.	.....	6	A.	*222.
28	ALOPECURUS.	FOX-TAIL-GRASS.					
	1 pratensis.....	meadow.....	Mead.	.....	5	P.	759.
	2 alpinus	alpine.....	Sc. mou.	.....	7	P.	1126.
	3 agrestis	slender	Road side	.....	7	A.	848.
	4 bulbosus	bulbous	Salt mar.	.....	7	P.	1249.
	5 geniculatus.....	floating	Mead.	.....	7	P.	1250.
	6 fulvus	orange-spiked ...	Ponds	.....	7	P.	1467.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

25. PHALARIS.

- 1 Pan. ovate, spike-like: cal. glumes boat-shaped, entire: cor. 4-valved.
- 2 Pan. upright with spreading branches: Fl. crowded, leaning one way: cor. 2-valved, hairy.

26. PANICUM.

- 1 Spike verticillate: spikel. in fours: invol. 1-flow. 2-bristled, rough: culms diffuse.
- 2 Spike cylind: spikel. crowded: invol. 2-flow. many-bristled, roughish: cor. smoothish.
- 3 Spike decomposed: spikel. alternate or in pairs, subdivided: cal. awned, hispid: rachis mostly 5-angled.
- 4 Spikes digitate, knotty at the base on the inside: Fl. in pairs, awnless: sheath of the leaves dotted.
- 5 Spikes digitate, villous at the base on the inside: Fl. solitary: cal. equal, contrary to the corolla: runners creeping.

27. PHILEUM.

- 1 Spike cylind. very long: glumes ciliate on the back, longer than the awns.
- 2 Spike ovate-cylind. awns the length of the glumes.
- 3 Pan cylind. spike-like: glumes naked, thickening upward: culm branched.
- 4 Pan. nearly cylind. spike-like: glumes linear-lanceolate, their inner margin abrupt. *Phalaris. Eng. Bot.*
- 5 Pan. nearly cylind. spike-like: glumes lanceolate awn-pointed, hairy, fringed: cor. oblong, hairy.
- 6 Spike ovate-lanceolate blunt: glumes lanceolate fringed: cor. shortened, crenated. *Phalaris. Eng. Bot.*

28. ALOPECURUS.

- 1 Culm erect, smooth: spike somewhat lobed: cal. glumes united at their base, villous.
- 2 Culm erect, smooth: spike ovate: cal.-glumes downy, awnless, nearly as long as the awns of the corolla.
- 3 Culm erect, roughish: spike very simple, attenuated: glumes nakedish, united at their base; keel dilated.
- 4 Culm erect: spike very simple, attenuated: cal. glumes separate, villous: root bulbous.
- 5 Culm ascending, geniculate: spike somewhat lobed, cylind: glumes retuse, hairy, shorter than the awn.
- 6 Culm bent at the joints: spike somewhat lobed, cylind: glumes retuse, hairy, inclosing the awn: anth. roundish.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
29	KNAPPIA.	KNAPPIA.					
	1 agrostidea	early	San. pl. !	.....	3,4	A.	1127.
30	POLYPOGON.	BEARD-GRASS.					
	1 monspeliensis...	long-awned	Salt mar.	.....	7,8	A.	*1704.
	2 littoralis	short-awned	Salt mar.	.....	8	P.	*1251.
31	MILIUM.	MILLET-GRASS.					
	1 effusum	spreading	Moi. s. p.	.....	6,7	P.	1106.
	2 lendigerum	panick	San. fi.	.....	8	A.	1167.
32	AGROSTIS.	BENT-GRASS.					
	*	.					
	1 Spica-venti.....	silky	San. fi.	.....	6,7	A.	951.
	2 canina.....	brown.....	Moi. pas.	.....	7	P.	1356.
	3 setacea	bristly	Dry hea.	.....	7,8	P.	1188.
	**						
	4 vulgaris	fine.....	Mea. pas	.....	7	P.	1671.
	5 stolonifera	creeping.....	Moi. m.	.....	7,8	P.	1532.
	6 alba.....	marsh.....	Marshes	.....	7	P.	1189.
33	AIRA.	HAIR-GRASS.					
	*						
	1 cristata	crested	Dry pas.	.....	7,8	P.	648.
	2 aquatica	water.....	Pools ..	.....	5,6	P.	1557.
	**						
	3 cæspitosa	turfy	Moi. s. p.	.....	6,7	P.	1453.
	4 lavigata	smooth-sheathed	Sc. alps	.....	5,6	P.	2102.
	5 flexuosa	waved mountain	Heaths	.....	7	P.	1519.
	6 canescens	grey	San. sho.	.....	7	P.	1190.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

29. KNAPPIA.

- 1 *Agrostis minima*. Fl. Brit. 82.

30. POLYPOGON.

- 1 Awn much longer than the cal: root fibrous. *Agrostis panicea*, Eng.
Bot.
2 Awn not longer than the cal: root creeping. *Agrostis littoralis*, Eng.
Bot.

31. MILIUM.

- 1 Fl. panicked, diffuse, awnless.
2 Pan. somewhat spiked: Fl. awned.

32. AGROSTIS.

* *Awned*.

- 1 Outer pet. with a very long straight stiff awn, beneath the apex: pan. spreading.
2 Cal. ovate, coloured: cor. naked: awn on the back incurved: culms prostrate, somewhat branched.
3 Cal. lanceolate: cor. awned at the base: awn geniculate: L. radical setaceous.

** *Awnless*.

- 4 Pan. spreading: branches divaricate, capillary: cal. equal, inner petal twice as short, retuse.
5 Pan. compact: culm branched, creeping: Fl. heaped: cal. equal, lanceolate, pubescent.
6 Pan. loose: culm creeping: cal. equal, lanceolate, shining: keel rough.

33. AIRA.

* *Awnless*.

- 1 Pan. spiked: cal. longer than the pedunc: pet. acuminate, unequal.
2 Pan. spreading: Fl. awnless, smooth, obtuse, longer than the calyx: L. flat.

** *Awned*.

- 3 L. flat: pan. spreading: pet. awned, villous at the base: awn short, straight.
4 L. flat with very smooth sheaths: pan. close: pet. awned, villous at the base.
5 L. setaceous: culm almost naked: pan. spreading trichotomous: pedunc. flexuose: awns geniculate.
6 L. setaceous: culm leafy: pan. compact: awns clubbed at the apex, shorter than the calyx.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	AIRA.	HAIR-GRASS.					
	7 præcox	early	Dry com.		5,6	A.	1296.
	8 caryophyllea.....	silver	San. pas.		7	A.	812.
34	HOLCUS.	SOFT-GRASS.					
	1 lanatus	meadow	Mea.pas.		6,7	P.	1169.
	2 mollis	creeping.....	Corn fi.		7,8	P.	1170.
	3 avenaceus	oat-like	Mea.pas.		6,7	P.	813.
35	MELICA.	MELIC-GRASS.					
	1 uniflora	wood	Groves		5,6	P.	1058.
	2 nutans.....	mountain	Mount.		6,7	P.	1059.
	3 cærulea	purple	Bog on M.		8	P.	750.
36	SESLERIA.	MOOR-GRASS.					
	1 cærulea	blue	Mo.cha.h.		4	P.	1613.
37	POA.	MEADOW-GRASS.					
	1 aquatica	reed	Ditches		7	P.	1315.
	2 fluitans	flote	Rivulets		6,8	P.	1520.
	3 distans	reflexed	San. pla.		7	P.	986.
	4 maritima.....	creeping sea.....	Salt mar.		7	P.	1140.
	5 procumbens	procumb. sea.....	Seacoast		7,8	A.	532.
	6 rigida	hard	San. pla.		6	A.	1371.
	7 compressa	flat-stalked	Walls		7,8	P.	365.
	8 alpina	alpine.....	Sc. alps		7	P.	1073.
	9 flexuosa	zigzag	Sc. alps		7	P.	1123.
	10 bulbosa	bulbous.....	Past.		5,6	P.	1071.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

AIRA.

- 7 L. setaceous: sheaths angular: Fl. paniculate-spiked: flor. sessile, naked at the base, awned on the back.
- 8 L. setaceous: pan. trichotomous, divaricate: flor. sessile, awns geniculate from the back.

34. HOLCUS.

- 1 Glumes villous: hermaph. floret awnless: male with a bowed-recurved awn.
- 2 Glumes nearly equal, almost naked: inferior hermaph. floret awnless: male with a geniculate awn: root creeping.
- 3 Glumes unequal, smooth: hermaph. floret superior, scarcely awned: male with a geniculate refracted awn: root knotty.

35. MELICA.

- 1 Pan. 1-rowed, branched: Fl. erect: calyx 1-flow.
- 2 Pan. compact, 1-rowed, almost simple: Fl. pendulous: cal. 2-flow.
- 3 Pet. acute: pan. compact: Fl. erect, cylindrical.

36. SESLERIA.

- 1 Spike ovate-oblong, imbricated: bractea alternate.

37. POA.

- 1 Pan. erect, branched, lax: spikel. 6-flow. linear: flor. obtuse, 7-nerved.
- 2 Pan. branched, divaricate: spikel. appressed, cylind. many-flow: flor. obtuse 7-nerved; doubly nerved at the base.
- 3 Pan. branched, effuse: branches at length reflexed: spikel. 5-flow: florets very obtuse, slightly 5-nerved, polished.
- 4 Pan. branched, rather compact: spikel. 5-flow: florets rather obtuse, almost cylind. slightly 5-nerved: root creeping.
- 5 Pan. lanceolate, 1-rowed, compact, rough: rachis cylind: spikel. about 5-flow: florets rather obtuse, nerved.
- 6 Pan. lanceolate, distich.-1-rowed, compact, smooth: rachis margined: spikel. 7-flow: florets cylind. nerveless.
- 7 Pan. 1-rowed, compact: culm ascending, compressed: florets angular, united at their base by a complicated villus.
- 8 Pan. diffuse: spikel. 4-flow. cordate: glumes ovate, rather falcate, free: lower stipulae very short.
- 9 Pan. flexuose: spikel. 3-flow: glumes ovate, united at their base by a villus: stipulae all lanceolate.
- 10 Pan. slightly flexuose: spikel. 4-flow: glumes united by a villus. L. serrulated: culm bulbous at the base.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

LINNEAN NAMES.		ENGLISH NAMES.	Soil or situation.	Colour of the flower.	Time of flowering.	Duration.	Figure in English Botany.
POA.		MEADOW-GRASS.					
11	cæsia	sea-green	Sc. mou.		6,7	P.	1719.
12	trivialis	roughish	Mea.pas.		6-9	P.	1072.
13	pratensis.....	smooth-stalked ...	Mea.pas.		5,6	P.	1073.
14	humilis	blueish	Mea.pas.		6	P.	*1004.
15	annua	annual	Past.		3-11	A.	1141.
16	glaucæ.....	glaucous	Mount.		6,7	P.	1720.
17	nemoralis	wood	Woods		6	P.	1265.
18	decumbens	decumbent.....	Bar. gro.		7	P.	792.
38	BRIZA.		QUAKING-GRASS.				
1	minor	small	Corn. fi.!		7	A.	1316.
2	media.....	common	Past.		5,6	P.	340.
39	DACTYLIS.		COCK'S-FOOT-GRASS.				
1	stricta	smooth	Marshes		8	P.	380.
2	glomerata	rough	Mead....		6-8	P.	335.
40	CYNOSURUS.		DOG'S-TAIL-GRASS.				
1	cristatus.....	crested	Past.		7	P.	316.
2	echinatus	rough	San. gr.		7	A.	1333.
41	FESTUCA.		FESCUE-GRASS.				
1	ovina	sheep's	Dry pas.		6	P.	585.
2	vivipara	viviparous	Sc. moun.		7	P.	1355.
3	cæsia	sea-green-heath	Bar. hea.		6	P.	1917.
4	duriuscula	hard	Mea.pas.		6	P.	470.
5	rubra	creeping.....	Mea.pas.		7	P.	2056.
6	bromoides	barren	Walls		6	A.	1411.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

POA.

- 11 Pan. diffuse : spikel. ovate, 5-flow : glumes lanceolate, somewhat silky, free : stipulæ very short, obtuse.
- 12 Pan. diffuse : spikel. 3-flow : glumes lanceolate, 5-nerved, united at their base by a web : stipulæ elongated.
- 13 Pan. diffuse : spikel. 4-flow : glumes lanceolate, 5-nerved, united at their base by a web : stipulæ short, obtuse.
- 14 Pan. lax : spikel. cordate, about 3-flow : glumes ovate, acute, united at the base by a web : stipulæ short, blunt. *P. subcærulea*, *E. B.*
- 15 Pan. divaricate : spikel. ovate : flor. rather remote, 5-nerved, free ; culm oblique, compressed.
- 16 Pan. attenuated, erect : spikel. ovate, about 3-flow : glumes bluntish, villous at the base : stipulæ very short.
- 17 Pan. and *L.* attenuated : spikel. lanceolate, about 3-flow : glumes acute, indistinctly 5-nerved : stipulæ very short, notched.
- 18 Pan. generally simple, compact, erect : spikel. ovate, 4-flow. the length of the calyx : stipulæ formed of dense hairs.

38. BRIZA.

- 1 Spikel. triangular, 7-flow : cal. longer than the flor : stipulæ lanceolate, very long.
- 2 Spikel. ovate, 7-flow : cal. shorter than the flor : stipulæ very short, obtuse.

39. DACTYLIS.

- 1 Spikes in pairs, erect, smooth : spikel. 1-rowed, downy.
- 2 Pan. 1-rowed, superdecompound, crowded.

40. CYNOSURUS.

- 1 Bractææ pinnate-2-rowed, awnless : spike simple, linear.
- 2 Bractææ pinnate, chaffy, awned : spike compound, ovate.

41. FESTUCA.

- 1 Pan. 1-rowed, compact : flor. roundish, smooth at the base : culm square : *L.* setaceous, rough.
- 2 Pan. 1-rowed, compact : flor. compressed, keeled, awnless, somewhat downy, as well as the calyx : culm. square : *L.* setaceous, smooth.
- 3 Pan. 1-rowed, close, glaucous : flor. cylind. awned : culm. square : *L.* compressed, channelled.
- 4 Pan. 1-rowed, diffuse : flor. awned : culm. cylind. : stem leaves flat : root fibrous.
- 5 Pan. 1-rowed : flor. roundish, awned : leaves downy above : root creeping.
- 6 Pan. 1-rowed, erect : flor. subulate, awned, rough at the apex : *L.* setaceous, shorter than the sheath.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	u on.	Figure in English Botany.
FESTUCA.	FESCUE-GRASS.					
7 myurus	wall	Walls...		6	A.	1412.
8 uniglumis	single-husked ...	Sea coast		6	A.B.	1430.
9 triflora	three flowered ...	Woods		8	P.	1918.
10 gigantea	gigantic.....	Woods		7,8	P.	1820.
11 calamaria	reed-like	M. woods		7	P.	10 5.
12 decidua	deciduous	M. woods		8	P.	2266.
13 loliacea	spiked	Moi. pas.		6,7	P.	1821.
14 pratensis.....	meadow	Mea. pas.		6,7	P.	1592.
15 elatior.....	tall.....	Moi.mea.		6,7	P.	1593.
BROMUS.	BROME-GRASS.					
1 secalinus.....	smooth rye	Corn fi.		7	A.	1171.
2 multiflorus	downy rye.....	Corn fi.		7	A.	1884.
3 mollis	soft	Walls...		6	B.	1678.
4 racemosus	smooth	Mea. pas.		6	A.	1079.
5 squarrosus† ...	corn	Corn fi.		7	A.	1885.
6 arvensis	taper-field	Corn fi.		7	A.	1984.
7 pratensis.....	tumid-field.....	Corn fi.		6	A.	920.
8 erectus	upright perennial	Chal. pas.		7	P.	471.
9 asper	hairy wood	Moi. s. p.		7	A.B.	1172.
10 sterilis	barren	Rubbish		6,7	A.	1030.
11 diandrus	upright annual ...	San. gr.		6	A.	1006.
12 sylvaticus	slender wood.....	Hedges		7	P.	729.
13 pinnatus	spiked heath	Heaths		7	P.	730.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

FESTUCA.

- 7 Pan. 1-rowed, elongated, nodding: flor. subulate, awned, rough at the apex: L. setaceous, somewhat keeled, very short.
- 8 Pan. 1-rowed, erect, nearly simple: flor. subulate, compressed, awned: cal. 1-valve very short.
- 9 Pan. spreading: spikel. 3-flow. with long awns.
- 10 Pan. 1-rowed, nodding, branched, lax: flor. lanceolate, ventricose, awned: L. ensiform, nerved.
- 11 Pan. 1-rowed, erect, much branched, compact: flor. oblong, angular, awnless: L. ensiform, striated.
- 12 Pan. 1-rowed, erect, much branched: flor. 2 or 3 oblong, angular, awnless: L. linear, striated.
- 13 Spike 2-rowed, nodding: spikel. subsessile, linear-oblong: flor. cylind. nerveless, awnless.
- 14 Pan. 1 rowed, rather upright, lax: spikel. linear, compressed, rather obtuse: flor. cylind. indistinctly nerved.
- 15 Pan. subdiffuse, nodding, much branched, lax: spikel. ovate-lanceolate, acute: flor. cylind. indistinctly nerved.

42. BROMUS.

- 1 Pan. spreading: pedunc. mostly simple: spikel. ovate, compressed, 10-flow: flor. distinct, roundish.
- 2 Pan. spreading: pedunc. nearly simple: spikel. ovate-lanceolate, compressed, 15-flow: flor. somewhat imbricated, roundish.
- 3 Pan. erect, compact: pedunc. branched: spikel. ovate: flor. imbricated, depressed, nerved, downy.
- 4 Pan. rather erect, diffuse: pedunc. simple: spikel. ovate, 6-flow: flor. imbricated. depressed, nerved, smooth.
- 5 Pan. nodding: pedunc. simple: spikel. ovate, 12-flow: flor. imbricated, depressed: awns divaricate.
- 6 Pan. spreading: pedunc. branched: spikel. lanceolate, 8-flow: flor. elliptical, imbricated, depressed, with 2 close ribs on each side.
- 7 Pan. spreading, compound: spikel. ovate, turgid, 8 or 10 flow: flor. elliptical, with 3 ribs on each side.
- 8 Pan. erect: pedunc. generally simple: flor. roundish, lanceolate: L. radical, very narrow, with hairy ciliae.
- 9 Pan. nodding, branched: flor. lanceolate, roundish, almost nerveless: L. uniform; lower hirsute.
- 10 Pan. nodding, generally simple: flor. lanceolate, nerved, furrowed: L. downy.
- 11 Pan. erect, spreading, scarcely branched: flor. lanceolate, nerved, furrowed, diandrous.
- 12 Spike simple, nodding, 1-rowed: spikel. sessile, roundish: awns longer than the glume: L. hairy.
- 13 Spike simple, erect, 2-rowed: spikel. sessile, roundish: awns shorter than the glume: L. nakedish.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering	Duration.	Figure in English Botany.
43	STIPA.	FEATHER-GRASS.					
	1 pennata†	downy.....	Alp. roc...	.....	7	P.	1356.
44	AVENA.	OAT-GRASS.					
	1 fatua.....	wild haver.....	Corn fi...	.....	8	A.	2221.
	2 strigosa.....	bristle-pointed....	Corn fi...	.....	7	A.	1266.
	3 pubescens.....	downy.....	Chal. pa.	.....	6	P.	1640.
	4 pratensis.....	narrow leaved....	Mea. pas.	.....	7	P.	1204.
	5 planiculmis.....	flat strawed.....	Sc. alps.	.....	7	P.	2141.
	6 flavescens.....	yellow.....	Mea. pas.	.....	6,7	P.	952.
45	LAGURUS.	HARE'S TAIL GRASS.					
	1 ovatus.....	oval spiked.....	Guernsey .....	.....	6	A.	1334.
46	ARUNDO.	REED.					
	1 Phragmites.....	common	Dit .....	.....	7	P.	401.
	2 epigejos.....	wood	Moi. wo.	.....	7	P.	403.
	3 Calamagrostis...	small.....	Moi. wo.	.....	7	P.	2159.
	4 stricta.....	smallest close....	Sc. mar.	.....	6	P.	2160.
	5 arenaria.....	sea	Sea coa.	.....	7	P.	520.
47	LOLIUM.	DARNEL.					
	1 perenne.....	perennial.....	Mea. pas.	.....	6	P.	315.
	2 temulentum.....	bearded.....	Corn fi.!	.....	7	A.	1124.
	3 arvense.....	white	Corn fi...	.....	7	A.	1125.
48	ROTBOLLIA.	HARD-GRASS.					
	1 incurvata.....	sea	Sea coa..	.....	8	A.	760.
	ELYMUS.	LYME-GRASS.					
	1 arenarius.....	upright sea.....	Sea coa..	.....	7	P.	1672.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

43. STIPA.

- 1 Awns woolly.

44. AVENA.

- 1 Panicked: cal. about 3-flow: flor. all awned, hairy at the base, nerveless.
- 2 Pan. oblong, 1-rowed: cal. 2-flow: flor. tipped with 2 bristles.
- 3 Pan. generally simple, erect: cal. about 3-flow: recept. bearded: L. flat, downy.
- 4 Spike erect: cal. about 5-flow: recept. hairy: L. involute, serrulated, naked; sheaths smooth.
- 5 Pan. erect: cal. about 5-flow: L. serrulated, naked; sheaths rough: culm compressed.
- 6 Pan. much branched, lax: cal. about 3-flow. unequal: recept. hairy: L. flat, somewhat pubescent.

45. LAGURUS.

- 1 Spike ovate.

46. ARUNDO.

- 1 Cal. 5-flow: panicle lax.
- 2 Cal. 1-flow. longer than the cor: pan. erect: Fl. imbricated, crowded, 1-rowed: L. lanceolate.
- 3 Cal. 1-flow. longer than the cor: pan. erect, diffuse: Fl. scattered, erect: L. linear.
- 4 Cal. 1-flow. pointed, equal with the cor: pan. erect, close: down shorter than the cor.
- 5 Cal. 1-flow. longer than the cor: pan. spiked: Fl. erect, awnless: L. involute, pungent.

47. LOLIUM.

- 1 Spike awnless: spikel. longer than the calyx: flor. lanceolate.
- 2 Spike awned: spikel. shorter than the calyx: flor. elliptical: culm rough on the upper part.
- 3 Spike scarcely awned: spikel. the length of the calyx: Fl. elliptical: culm very smooth.

48. ROTBOLLIA.

- 1 Spike cylind. subulate: cal. glume subulate, appressed, bipartite.

49. ELYMUS.

- 1 Spike erect, close: cal. lanceolate, the length of the spiculæ: L. with a spinous point.

CLASS III. TRIANDRIA.		ORDER II. DIGYNIA.				
LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the flower.	Time of Flowering.	Duration.	Figure in English Botany.
ELYMUS.	LYME-GRASS.					
2 geniculatus.....	pendulous.....	Sea. sh..	.....	7	P.	1586.
3 europæus.....	wood.....	Woods..	.....	6	P.	1317.
HORDEUM.	BARLEY.					
1 murinum.....	wall.....	Rub.....	.....	6-8	A.	1971.
2 pratense	meadow	Moi. mea. ....	.....	6	P.	409.
3 maritimum	sea	Salt mar. ....	.....	6,7	A.	1205.
TRITICUM.	WHEAT GRASS.					
1 junceum.....	sea rushy	Sea sh..	.....	7	P.	814.
2 repens.....	couch or creeping	Rub.....	.....	6-9	P.	909.
3 caninum	bearded	Chal. wo. ....	.....	7	P.	1372.
4 cristatum.....	crested	Sc. roc.....	.....	7	P.	2267.
5 loliaceum.....	dwarf sea	Sea sh..	.....	6,7	A.	221.
ORDER III. TRIGYNIA.						
MONTIA.	BLINKS.					
1 fontana.....	water.....	Springs.	white ...	4,5	A.	1206.
HOLOSTEUM.	JAGGED-CHICKWEED.					
1 umbellatum.....	umbelliferous.....	Old w...	white ...	4	A.	27.
POLYCARPON.	ALL-SEED.					
tetraphyllum	four-leaved.....	San. pla.	white ...	5-8	A.	1031.

CLASS III. TRIANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

ELYMUS.

- 2 Spike bent downwards, lax : cal. setaceous, spreading, longer than the spikel : L. with a spinous point.
- 3 Spike erect : spikel. 2-flow. awned : invol. without streaks.

50. HORDEUM.

- 1 Flor. lateral male, awned : intermediate calyx glumes lanceolate, fringed.
- 2 Flor. lateral male, with shorter awns : cal. glumes all setaceous, rough.
- 3 Flor. lateral male, with shorter awns ; their inner calyx glume semi-ovate.

51. TRITICUM.

- 1 Cal. blunt, 5-flow : L. involute, with a spinous point.
- 2 Cal. awl-shaped, many-nerved, 5-flow : flor. sharp-pointed : L. flat : root creeping.
- 3 Cal. pointed, about 5-nerved, 4-flow : flor. awned : L. flat : root fibrous.
- 4 Cal. elliptical, awned, keeled : flor. awned : spikel. 2-rowed, close : culm simple.
- 5 Cal. obtuse, many-flow : spike simple, 1-rowed : flor. awnless : culm branched.

ORDER III. TRIGYNIA.

52. MONTIA.

- 1 Much branched, smooth : L. opposite, spatulate, entire.

53. HOLOSTEUM.

- 1 Fl. in umbels : stam. various in number.

54. POLYCARPON.

- 1 Much branched : L. opposite, often in double pairs.

CLASS IV.

TETRANDRIA.

ORDER I. MONOGYNIA.

* *Fl. 1-pet. 1-seeded, superior.*

55 DIPSACUS. *Cal. common many-leaved; proper superior, 1-leaved. Seed-crown cup-shaped.*

56 SCABIOSA. *Cal. common many-leaved; proper double, superior.*

64 SANGUISORBA. *Cal. 1-flow. inferior. Cor. superior.*

** *Fl. 1-pet. 2-seeded, superior.*

60 RUBIA. *Cor. campanulate. Fruit berry-like.*

59 GALIUM. *Cor. flat. Fruit dry.*

58 ASPERULA. *Cor. tubular. Fruit awnless.*

57 SHERARDIA. *Cor. tubular. Fruit crowned. Seed 3-toothed.*

*** *Fl. 1-pet. many-seeded, inferior.*

61 EXACUM. *Cor. salver-shaped. Caps. 2-celled, opening at the apex.*

62 PLANTAGO. *Cor. refracted. Caps. 2-celled, cut round. Stam. very long.*

63 CENTUNCULUS. *Cor. tubular. Caps. 1-celled, cut round. Stam. inclosed.*

Gentiana 6.

**** *Fl. 4-petalled.*

65 EPIMEDIUM. *Nect. 4, incumbent on the petals, sack-like. Pod many-seeded, superior, 1-celled. Cal. caducous.*

66 CORNUS. *Nect. 0. Drupe an inferior 2-celled nut.*

Cardamine 3. Coronopus 2.

***** *Fl. apetalous.*

67 PARIETARIA. *Cal. 4-cleft. Seed covered with the elongated calyx. Stam. elastic. Fl. some female, whose calyx remains unchanged.*

68 ALCHEMILLA. *Cal. 8-cleft. Seed naked.*

ORDER II. DIGYNIA.

69 BUFFONIA. *Cor. 4-pet. Caps. 2-valved, 2-seeded.*

Gentiana 6. Cuscuta.

ORDER III. TETRAGYNIA.

70 ILEX. *Cor. 1-pet. wheel-shaped. Berry 4-seeded. Style. 0. Fl. some male.*

73 SAGINA. *Pet. 4. Caps. 1-celled. Cal. 4-leaved.*

75 RADIOLA. *Pet. 4. Caps. 8-celled, 8-valved. Cal. many-cleft.*

74 TILLÆA. *Pet. 3-5. Caps. many, many-seeded.*

71 POTAMOGETON. *Pet. 4. Cal. 0. Seed 4, naked, sessile.*

72 RUPPIA. *Pet. 0. Cal. 0. Seed 4, pedicelled.*

Cerastium 4.

CLASS IV. TETRANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
55	DIPSACUS.	TEASEL.					
	1 fullonum §	fullers.....	Hedges.	purple...	7	B.	2030.
	2 sylvestris	wild	Moi. hed.	purple...	7	B.	1032.
	3 pilosus	small	Moi. pla.	white ...	8	P.	877.
56	SCABIOSA.	SCABIOUS.					
	1 succisa	devil's bit	Past. ...	viol.....	8-10	P.	878.
	2 arvensis	field.....	Corn fi...	purple...	7	P.	659.
	3 columbaria	small	Dry pas.	purple...	6,7	P.	1311.
57	SIHERARDIA.	FIELD MADDER.					
	1 arvensis	blue	Corn fi..	blue.....	5-8	A.	391.
58	ASPERULA.	WOODRUFF.					
	1 odorata.....	sweet.....	Woods...	white ...	5	P.	755.
	2 cynanchica.....	small	Chal. hil.	flesh.....	6	P.	33.
59	GALIUM.	BED-STRAW.					
	*						
	1 cruciatum.....	cross-wort	Bushy pl.	yel.	5	P.	143.
	2 palustre	white-water	Moi. mea.	white ...	7	P.	1357.
	3 Witheringii	Rough Heath ...	Heaths..	white ...	7	P.	2206.
	4 saxatile	smooth heath.....	Heaths..	white ...	7,8	P.	315.
	5 uliginosum	rough marsh	Marshes.	white ...	8	P.	1972.
	6 erectum	upright marsh ...	Moi. pas.	white ...	6,7	P.	2067.
	7 verrucosum.....	warty-fruited.....	Corn fi.	yel.	6-8	A.	2173.
	8 tricornis	corn	Corn fi.	cream...	7	A.	1641.
	9 spurium	smooth-seeded ...	Corn fi !	green ...	6,7	A.	1871.
	10 pusillum	least.....	Moumt.	white ...	7,8	P.	74.
	11 verum.....	yellow.....	Bushy pl.	yel.	7,8	P.	660.

CLASS IV. TETRANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

55. DIPSACUS.

- 1 L. connate, serrated : chaff recurved : invol. reflexed.
- 2 L. opposite, serrated : chaff straight : invol. inflexed, longer than the head.
- 3 L. petioled, appendiculate : invol. deflexed, equal to the head.

56. SCABIOSA.

- 1 Cor. 4-cleft equal : L. stem toothed : Fl. almost globular.
- 2 Cor. 4-cleft radiating : L. pinnatifid, incised : stem rough.
- 3 Cor. 5-cleft radiating : L. radical ovate or lyrate, crenate : stem leaves pinnatifid : segm. linear.

57. SHERARDIA.

- 1 L. all whorled : Fl. terminal.

58. ASPERULA.

- 1 L. eight together, lanceolate : Fl. in tufts, peduncled : fruit bristly.
- 2 L. linear, four together ; upper very unequal : Fl. all 4-cleft : fruit smooth.

59. GALIUM.

* *Fruit smooth.*

- 1 L. in fours, ovate, hairy : stem simple above, hairy : pedunc. lateral, 2-leaved.
- 2 L. in fours, obovate, unequal, obtuse : stems diffuse, branched above.
- 3 L. in fives, reflexed, lanceolate, awned, ciliate : stem rather upright, simple, rough.
- 4 L. in sixes obovate, obtuse, mucronate : stem much branched, prostrate, smooth : fruit granulated.
- 5 L. in sixes, lanceolate, serrato-aculeate backwards, mucronate, stiff : cor. larger than the fruit.
- 6 L. about 8-together, lanceolate, aculeato-serrulated forward, mucronate : pan. trichotomous : stem smoothish, flaccid.
- 7 L. in sixes, lanceolate, with marginal prickles pointing forward : pedunc. axillary 3-flow : fruit warty, drooping.
- 8 L. about 8-together, lanceolate ; margin and stem aculeate backwards : pedunc. axillary, 3-flow : fruit granulated, nodding.
- 9 L. about 8-together ; margin and stem prickled backward : pedunc. axillary, cymose : fruit smooth, erect.
- 10 L. 8-together, linear-lanceolate, mucronate, very entire, subpubescent : pedunc. dichot. : fruit very smooth.
- 11 L. 8-together, linear, furrowed, very entire, rough : Fl. panicked, heaped.

CLASS IV. TETRANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the flower.	Time of Flowering	Duration.	Figure in English Botany.
	GALIUM.	BED-STRAW.					
	12 Mollugo	great hedge	Hedges	white ...	7,8	P.	1673.
	13 anglicum.....	wall	walls ...	yel.	6,7	A.	384.

	14 boreale	cross-leaved	Mount.	white ...	7	P.	105.
	15 Aparine	goose-grass	Hedges	white ...	5-8	A.	816.
60	RUBIA.	MADDER.					
	1 peregrina	wild	Bushy pl.	yel.	6,7	P.	851.
61	EXACUM.	GENTIANELLA.					
	1 filiforme	least	San. mar.	yel.	7	A.	235.
62	PLANTAGO.	PLANTAIN.					
	1 major	greater	Mea. pas.	.....	5-9	P.	1558.
	2 media	hoary	Mea. pas.	.....	5-8	P.	1559.
	3 lanceolata	ribwort	Mea. pas.	.....	6,7	P.	507.
	4 maritima.....	sea	Sea coast	.....	8	P.	175.
	5 Coronopus	buck's-horn	Sea sh.	.....	5-8	A.	892.
63	CENTUNCULUS.	CHIAFF-WEED.					
	1 minimus	small	Moi. hea.	flesh ...	6,7	A.	531.
64	SANGUISORBA.	BURNET.					
	1 officinalis	great	Mea. pas.	purple...	6	P.	1312.
65	EPIMEDIIUM.	BARRENWORT					
	1 alpinum	alpine.....	M. thick!	blood ...	5	P.	433.
66	CORNUS.	CORNEL.					
	1 sanguinea	wild	Woods	white ...	6	S.	249.
	2 Suecica	dwarf.....	Sc. alps.	purple...	6,7	P.	310.

CLASS IV. TETRANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

GALIUM.

- 12 L. 3-together, elliptical, rather obtuse, mucronate, margin rough : Fl. paniced, divaricate.
 13 L. about 6-together, lanceolate, mucronate, margin and stem rough : pedunc. bifid : fruit granulated.

** *Fruit hispid.*

- 14 L. in fours, lanceolate, 3-nerved, smooth : stem erect.
 15 L. 3-together, lanceolate, keeled, rough : prickles pointing backwards : stem flaccid.

60. RUBIA.

- 1 L. generally in fours, elliptical, shining and smooth on their upper surface : Fl. 5-cleft.

61. EXACUM.

- 1 L. sessile : stem filiform dichot : pedunc. elongated.

62. PLANTAGO.

- 1 L. ovate, smoothish, shorter than the petiole : scape cylind : spike with imbricated flow : seeds numerous.
 2 L. ovate, pubescent, longer than the petioles : scape cylind : spike cylind : seeds solitary.
 3 L. lanceolate, acute at each end : spike ovate, naked : scape angular.
 4 L. linear, mostly entire, channelled, woolly at the base : spike cylind : scape cylind.
 5 L. linear, pinnato-dentate : scape cylind.

63. CENTUNCULUS.

- 1 L. ovate : Fl. axillary.

64. SANGUISORBA.

- 1 Spikes ovate.

65. EPIMEDIUM.

- 1 L. twice or thrice compound.

66. CORNUS.

- 1 Branches erect : L. ovate, green on both sides : cymes naked, flat.
 2 Herbaceous : branches in pairs : umb. axillary, peduncled, involuered : nerves of the leaves almost all separate.

CLASS IV. TETRANDRIA.

ORDER I. MONOGYNIA.

	LINSEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the flower.	Time of Flowering.	Duration.	Figure in English Botany.
67	PARIETARIA.	PELLITORY OF THE WALL.					
	1 officinalis	common.....	Walls...	green ...	6-9	P.	879.
68	ALCHEMILLA.	LADIES' MANTLE.					
	1 vulgaris	common	Mea. pas.	green ...	6,7	P.	597.
	2 alpina	alpine.....	Rocks...	green ...	7	P.	244.
	3 arvensis	field	Fields...	green ...	5-8	A.	1011.

ORDER II. DIGYNIA.

69	BUFFONIA.	BUFFONIA.					
	1 tenuifolia†	slender	Sea coa.	white ...	6	A.	1313.

ORDER III. TETRAGYNIA.

70	ILEX.	HOLLY.					
	1 Aquifolium.....	common.....	Hedges	white ...	5	T.	496.
71	POTAMOGETON.	POND-WEED.					
	1 natans.....	broad-leaved	Riv. ...	green ...	7	P.	1822.
	2 heterophyllum	various-leaved ...	Dit	green ...	7-9	P.	1285.
	3 perfoliatum ...	perfoliate	Riv. ...	purple...	7,8	P.	163.
	4 densum	close-leaved	Dit	green ...	6	P.	397.
	5 fluitans	long-leaved	Dit	reddish	3,9	P.	1286.
	6 lucens	shining	Dit	green ...	6,7	P.	376.
	7 lanceolatum ...	lanceolate	Wel. lake	olive ...	8	P.	1985.
	8 crispum	curled	Rivul...	reddish	6,7	P.	1012.
	9 compressum ...	flat-stalked	Rivul...	green ...	6,7	P.	418.
	10 gramineum.....	grassy	Dit	green ...	7	P.	2253.
	11 pusillum	small	Dit... ..	green ...	7	P.	215.
	12 pectinatum	fennel-leaved.....	Dit.....	olive ...	7	P.	323.

CLASS IV. TETRANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

67. PARIETARIA.

- 1 L. lanceolate-ovate, 1-nerved from the base: segm. of the invol. ovate: stem rather upright.

68. ALCHEMILLA.

- 1 L. lobed, plaited.
- 2 L. digitate, serrated, silky beneath.
- 3 L. flat, trilobate, incised.

ORDER II. DIGYNIA.

69. BUFFONIA.

- 1 L. opposite, awl-shaped.

ORDER III. TETRAGYNIA.

70. ILEX.

- 1 L. ovate, acute, spinous.

71. POTAMOGETON.

- 1 L. upper oblong-ovate, petioled, floating.
- 2 L. inferior membran. linear-lanceolate, sessile: floating ones elliptical, petioled: pedunc. clavated.
- 3 L. cordate, embracing the stem, all immersed.
- 4 L. ovate, acuminate, opposite, crowded: stem dichot: spike 4-flow.
- 5 L. inferior lanceolate, acute, membran: upper ones elliptic-lanceolate, somewhat coriaceous.
- 6 L. ovate-lanceolate, flat, attenuated into petioles: spike many-flow. compact.
- 7 L. lanceolate, membranous, entire, tapering at the base: spike ovate, dense, few flow.
- 8 L. lanceolate, alternate, undulated, serrated.
- 9 L. linear, obtuse: stem compressed.
- 10 L. linear-lanceolate, alternate, sessile, broader than the stipulæ: stem cylind: primordial ones dichotomous.
- 11 L. linear, opposite and alternate, much narrower than the stipula, spreading from the base: stem cylind: pedunc. axillary.
- 12 L. setaceous, parallel, approximate, 2-rowed, sheathing at the base.

CLASS IV. TETRANDRIA. ORDER III. TETRAGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
72	RUPPIA	RUPPIA.					
	1 maritima.....	sea	S.W.dit.	.....	7	P.	136.
73	SAGINA.	PEARL-WORT.					
	1 procumbens ...	procumbent	Rub. ...	white ...	5-8	P.	880.
	2 maritima.....	sea	Sc. alps.	.....	5-8	A.	2195.
	3 apetala	annual small flow.	Rub. ...	white ...	5,6	A.	881.
	4 erecta	upright	Grav. pa.	white ...	5	A.	609.
74	TILLEA.	TILLEA.					
	1 muscosa	mossy.....	San. hea.	pellu. ...	5,6	A.	116.
75	RADIOLA.	FLAX-SEED.					
	1 millegrana	all-seed	San. pl.	white ...	7,8	A.	893.

CLASS IV. TETRANDRIA. ORDER III. TETRAGYNIA.

SPECIFIC CHARACTER.

72. RUPPIA.

- 1 L. setaceous, immersed.

73. SAGINA.

- 1 Stems procumbent, smooth : petals very short.
- 2 Stems almost erect, divaricated, smooth : L. obtuse, without bristles : petals obsolete.
- 3 Stems almost upright, pubescent : petals indistinct : L. bristly.
- 4 Stem erect, mostly 1-flow : cal. leaflets acute : petals entire.

74. TILLÆA.

- 1 Stems procumbent : Fl. sessile, mostly 3-cleft.

75. RADIOLA.

- 1 Stem dichotomous : L. ovate.

CLASS V.

PENTANDRIA.

ORDER I. MONOGYNIA.

* *Fl. 1-pet. inferior, 4-seeded. (Rough leaved.)*

- 85 ECHIU. *Cor.* throat naked, irregular. *Stig.* 2-parted.
- 80 PULMONARIA. *Cor.* throat naked, funnel-shaped. *Cal.* prismatic.
- 77 LITHOSPERMUM. *Cor.* throat naked, funnel-shaped. *Cal.* 5-parted.
- 81 SYMPHYTUM. *Cor.* throat toothed, ventricose.
- 82 BORAGO. *Cor.* throat-toothed, wheel-shaped.
- 84 LYCOPSIS. *Cor.* throat arched, funnel-shaped, tube curved.
- 83 ASPERUGO. *Cor.* throat arched, funnel-shaped. *Cal.* of the fruit compressed, lamellar sinuated.
- 79 CYNOGLOSSUM. *Cor.* throat arched, funnel-shaped. *Seed* depressed, fixed laterally.
- 78 ANCHUSA. *Cor.* throat arched, funnel-shaped, prismatic at the base. *Seed* hollowed out at the base.
- 76 MYOSOTIS. *Cor.* throat arched, salver-shaped : lobes slightly emarginate.

** *Fl. 1-pet. inferior, seeds capsular.*

- 91 ANAGALLIS. *Caps.* 1-celled, cut round. *Cor.* wheel-shaped. *Stam.* hairy.
- 90 LYSIMACHIA. *Caps.* 1-celled, 10-valved, globose. *Cor.* wheel-shaped.
- 87 CYCLAMEN. *Caps.* 1-celled, pulpy within. *Cor.* wheel-shaped, reflexed. *Stig.* acute.
- 86 PRIMULA. *Caps.* 1-celled, mouth 10-cleft. *Cor.* throat pervious, tube cylind. *Stig.* globose.
- 89 HOTTONIA. *Caps.* 1-celled. *Cor.* salver-shaped. *Stam.* standing on the throat. *Stig.* globose. *Cal.* 5-parted.
- 88 MENYANTHES. *Caps.* 1-celled. *Cor.* hairy. *Stig.* 2-cleft.
- 102 DATURA. *Caps.* 2-celled, 4-valved. *Cor.* funnel-shaped. *Cal.* deciduous.
- 103 HYOSCYAMUS. *Caps.* 2-celled, covered with a lid. *Cor.* funnel-shaped. *Stig.* capitate.
- 101 VERBASCUM. *Caps.* 2-celled. *Cor.* wheel-shaped, irregular. *Stig.* simple. *Stam.* declining, bearded.
- 106 CHIRONIA. *Caps.* 2-celled. *Cor.* salver-shaped. *Anth.* becoming spiral. *Style.* declining.
- 93 CONVULVULUS. *Caps.* 2 or 3-celled. *Seed* 2. *Cor.* bell-shaped, plaited. *Stig.* 2.
- 94 POLEMONIUM. *Caps.* 3-celled. *Cor.* 5-parted. *Stam.* standing on the valves.
- 92 AZALEA. *Caps.* 5-celled. *Cor.* bell-shaped. *Stam.* inserted into the receptacle. *Stig.* obtuse.
- 116 VINCA. *Follicles* 2, erect. *Cor.* salver-shaped, twisted. *Seed* naked.
- 105 SOLANUM. *Berry* 2-celled. *Cor.* wheel-shaped. *Anth.* with 2 pores.
- 104 ATROPA. *Berry* 2-celled. *Cor.* bell-shaped. *Stam.* distant, incurved.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

*** *Fl. 1-pet. superior.*

- 107 SAMOLUS. *Caps.* 1-celled, 5-valved at the apex. *Cor.* salver-shaped, 5-cleft, with intermediate scales.
- 97 JASIONE. *Caps.* imperfectly 2-celled, opening at the apex. *Cor.* wheel-shaped, 5-parted. *Stig.* club-shaped. *Anth.* united at the base.
- 96 PHYTEUMA. *Caps.* 2 or 3-celled, perforated. *Cor.* wheel-shaped, 5-parted. *Stig.* 2 or 3-cleft.
- 98 LOBELIA. *Caps.* 2 or 3-celled. *Cor.* irregular, slit. *Stig.* simple.
- 95 CAMPANELA. *Caps.* 3 or 5-celled, perforated. *Cor.* bell-shaped. *Stig.* 3-cleft.
- 108 LONICERA. *Berry* 2-celled, many-seeded. *Cor.* irregular. *Rubia* 1.

**** *Fl. 5-pet. inferior.*

- 109 RHAMNUS. *Berry* 3-celled. *Cal.* pitcher-shaped, bearing the corolla.
- 110 EUONYMUS. *Caps.* 5-celled. *Seed* in a pulpy covering. *Cal.* flat.
- 99 IMPATIENS. *Caps.* 5-celled, elastic. *Cal.* 2-leaved. *Cor.* irregular.
- 100 VIOLA. *Caps.* 1-celled, 3-valved. *Cal.* 5-leaved. *Cor.* irregular, spurred behind.

***** *Fl. 5-pet. superior.*

- 111 RIBES. *Berry* many-seeded. *Cal.* bearing the corolla. *Style* 2-cleft.
- 112 HEDERA. *Berry* 5-seeded, surrounded by the calyx. *Style* simple. *Pet.* broad at the base.

***** *Fl. incomplete.*

- 114 GLAUX. *Caps.* 5-seeded, superior. *Cal.* coloured, 1-leaved.
- 113 ILLECEBRUM. *Caps.* 1-seeded, superior. *Cal.* 5-leaved, cartilaginous.
- 115 THESMUM. *Seed* 1, corticated, inferior. *Cal.* stamiferous. *Polygonum* 1.

ORDER II. DIGYNIA.

* *Fl. 1-pet. inferior.*

- 123 SWERTIA. *Caps.* 1-celled. *Cor.* wheel-shaped, with nectariferous pores at the base of each segment.
- 124 GENTIANA. *Caps.* 1-celled. *Cor.* tubular at the base, destitute of nectariferous pores.
- 122 CUSCUTA. *Caps.* 2-celled. *Cor.* bell-shaped.

** *Fl. 5-pet. inferior.**Staphylea* 1.*** *Fl. incomplete.*

- 120 SALSOLA. *Seed* 1, cochleate, covered.
- 118 CHENOPODIUM. *Seed* 1, lenticular superior.
- 119 BETA. *Seed* 1, reniform, immersed in a fleshy calyx.
- 117 HERNIARIA. *Caps.* 1-seeded, corticated. *Filam.* 5. barren.
- 121 ULMUS. *Caps.* 1-seeded, membranous, compressed.

**** *Fl. 5-pet. superior, 2-seeded. Umbelliferous.*

A. Involucres universal and partial.

- 125 ERYNGIUM. *Fl. capitate. Recept. chaffy. Seed bristly.*
 126 HYDROCOTYLE. *Umbel simple. Seed compressed. Pet. entire.*
 127 SANICULA. *Umbels somewhat capitate; Florets of the disk abortive. Seed with hooked-prickles.*
 139 HERACLEUM. *Fl. radiate. Pet. notched, with point inflexed. Invol. deciduous. Seed membranous, compressed.*
 144 OENANTHE. *Fl. radiate: those of the disk barren. Seed crowned sessile, with a corky bark.*
 129 ECHINOPHORA. *Fl. marginal radiate, abortive: central ones female. Seed immersed in the involucl.*
 131 CAUCALIS. *Fl. radiate, some abortive. Invol. simple. Seed bristly.*
 132 DAUCUS. *Fl. radiate, some abortive. Invol. pinnate. Seed bristly.*
 130 TORDYLIUM. *Fl. radiate, fertile. Invol. simple. Seed crenate at the margin.*
 145 CORIANDRUM. *Fl. radiate, centre ones barren. Involucl going but half way round. Fruit spherical.*
 137 PEUCEDANUM. *Fl. of the disk abortive. Invol. simple. Seed compressed, winged, striated.*
 134 CONIUM. *Fl. of the disk fertile. Pet. cordate. Seed gibbous, ribbed and furrowed. Involucels going but half way round.*
 133 BUNIUM. *Fl. of the disk fertile. Pet. cordate. Involucl setaceous.*
 136 ATHAMANTA. *Fl. of the disk fertile. Pet. cordate. Seed convex, striated.*
 128 BUPLEURUM. *Fl. of the disk fertile. Pet. involute. Seed compressed, striated.*
 142 SIUM. *Fl. of the disk fertile. Pet. cordate. Seed almost ovate, striated.*
 135 SELINUM. *Fl. of the disk fertile. Pet. cordate. Seed compressed, striated in the middle.*
 138 CRITHMUM. *Fl. of the disk fertile. Pet. broad at the base. Invol. horizontal. Cal. entire.*
 140 LIGUSTICUM. *Fl. of the disk fertile. Pet. involute. Invol. membranous. Cal. 5-toothed, small.*
 141 ANGELICA. *Fl. of the disk fertile. Pet. incurved. Umbellcts globose. Seed hemispherical, 3-winged.*
 143 SISON. *Fl. of the disk fertile. Pet. inflexed. Umbel of few rays. Seed ovate, striated.*

B. Invol. partial; universal none.

- 148 AETHUSA. *Fl. somewhat radiate, fertile. Involucl going half way round.*
 150 CHEROPHYLLUM. *Fl. somewhat radiate, central abortive. Involucels reflexed, concave, 5-leaved.*
 149 SCANDIX. *Fl. radiate, central abortive. Fruit awl-shaped.*
 146 PHELLANDRIUM. *Fl. of the disk fertile. Fruit crowned.*

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

- 151 IMPERATORIA. *Fl.* of the disk fertile. *Umbel* expanding flat.
Fruit compressed, marginate
- 147 CICUTA. *Fl.* of the disk fertile. *Fruit* nearly ovate, furrowed.
Bupleurum 1. *Caucalis* 4. *Angelica* 2. *Sium* 3. *Oenanthe* 1, 3.
C. Invol. none: scarcely universal; never partial.
- 157 APIUM. *Invol.* 1-leaved. *Fl.* of the disk fertile. *Fruit* ribbed.
Pet. inflexed.
- 156 PIMPINELLA. *Fl.* of the disk fertile. *Fruit* striated. *Stig.* nearly
globular.
- 158 AEGOPodium. *Fl.* of the disk fertile. *Fruit* ovate, striated. *Stig.*
simple.
- 154 ANETHUM. *Fl.* of the disk fertile. *Fruit* somewhat compressed:
3-ribbed on both sides.
- 152 PASTINACA. *Fl.* all fertile. *Fruit* compressed, flat.
- 153 SMYRNIUM. *Fl.* many abortive. *Seed* reniform, angular.
- 155 CARUM. *Fl.* outer abortive. *Seed* gibbous, striated.

ORDER III. TRIGYNIA.

* *Fl. superior.*

- 159 VIBURNUM. *Cor.* 5-cleft. *Berry* 1-seeded.
- 160 SAMBUCUS. *Cor.* 5-cleft. *Berry* 3-seeded.

** *Fl. inferior.*

- 161 STAPHYLEA. *Cor.* 5-pet. *Caps.* inflated, 2 or 3 joined together.
- 162 TAMARIX. *Cor.* 5-pet. *Caps.* 3-valved. *Seed* feathery.
- 163 CORRIGIOLA. *Cor.* 5-pet. *Seed* 1, triangular.
Stellaria 2.

ORDER IV. TETRAGYNIA.

- 164 PARNASSIA. *Nect.* fringed with bristles terminated by globules.
Caps. 4-valved.

ORDER V. PENTAGYNIA.

- 166 LINUM. *Pet.* 5. *Caps.* 10-celled.
- 167 SIBBALDIA. *Pet.* 5. *Seeds* 5, naked. *Cal.* 10-cleft.
- 165 STATICE. *Pet.* 5. *Seed* 1, covered by the funnel-shaped calyx.
Cerastium 3. *Spergula*.

ORDER VI. HEXAGYNIA.

- 168 DROSERA. *Pet.* 5. *Caps.* 3-valved, many-seeded.

ORDER VII. POLYGYNIA.

- 169 MYOSURUS. *Pet.* 5, with nectariferous tubular claws. *Seed* naked.
Cal. of 5 leaves, each spurred at the base.
Ranunculus 13.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
76	MYOSOTIS.	SCORPION-GRASS.					
	1 arvensis	field	Dry fi....	blue.....	6	A.	2558.
	2 versicolor	yellow and blue...	San. pl. ....	.....	6	A.	*480.
	3 palustris	water	Wat. pl.	blue.....	7,8	.	1973.
	4 rupicola	rock	Alp. rock	blue.....	7	P.	2559.
77	LITHOSPERMUM	GROMWELL.					
	1 officinale.....	common	Chal. hill	yel.	5	P.	134.
	2 arvense	corn	Corn fi.	white ...	5,6	A.	123.
	3 purpureo-cæruleum	purple	Chal. so.!	purple...	5	P.	117.
78	ANCHUSA.	ALKANET.					
	1 officinalis	common	Sea coast	purple...	6,7	P.	662.
	2 sempervirens ...	evergreen	Rub. !....	blue.....	5,6	P.	45.
79	CYNOGLOSSUM.	HOUNDS-TONGUE.					
	1 officinale.....	common	Rub.....	pur. red	6	B.	921.
	2 sylvaticum	green-leaved	Sha. la.	blue.....	6	B.	1642.
80	PULMONARIA.	LUNG-WORT.					
	1 officinalis	common	Woods	blue.....	5	P.	118.
	2 angustifolia	narrow-leaved	Woods!	blue.....	5	P.	1628.
	3 maritima.....	sea	Sea sh.	blue.....	7	P.	363.
81	SYMPHYTUM.	COMFREY.					
	1 officinale	common	Wet pl.	white ...	5,6	P.	817.
	2 tuberosum	tuberous-rooted...	Moi. s. p.	yel.	7	P.	1502.
82	BORAGO.	BORAGE.					
	1 officinalis §.....	common	Rub.....	blue.....	6,7	B.	36.
83	ASPERUGO.	MADWORT.					
	1 procumbens	german.....	Rub. ! ...	blue.....	6,7	A.	661.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

76. MYOSOTIS.

- 1 Racemes without bracteas, lower stalks axillary, remote: cal. with spreading incurved bristles.
- 2 Racemes without bracteas, on long naked pedunc: cal. with spreading incurved bristles. *M. Scorpioides. Eng. Bot.*
- 3 Racemes without bracteas: cal. funnel-shaped, with straight and close-pressed hairs.
- 4 Racemes without bracteas: L. radical on foot stalks: cal. 5-cleft with long spreading hairs.

77. LITHOSPERMUM.

- 1 Seeds smooth: cor. scarcely exceeding the calyx: L. lanceolate, rather acute, veined.
- 2 Seeds rugose: cor. scarcely exceeding the calyx: L. obtuse, veinless.
- 3 Seeds smooth: cor. greatly exceeding the length of the calyx: L. lanceolate, acute, veinless.

78. ANCHUSA.

- 1 Spikes imbricated, 1-rowed, bracteas ovate: L. lanceolate.
- 2 Pedunc. axillary, 2-leaved, capitate: L. ovate.

79. CYNOGLOSSUM.

- 1 Stam. shorter than the cor: L. broad-lanceolate, downy, sessile.
- 2 Stam. shorter than the cor: L. spatulate-lanceolate, shining, partly naked, rough beneath.

80. PULMONARIA.

- 1 Cal. nearly the length of the tube: L. ovate, rough.
- 2 Cal. nearly the length of the tube: L. all lanceolate, rough.
- 3 Cal. short: L. ovate, glaucous: stem branched, procumbent.

81. SYMPHYTUM.

- 1 L. ovate-lanceolate, decurrent.
- 2 L. ovate, slightly decurrent; highest opposite.

82. BORAGO.

- 1 L. all alternate: calyx spreading.

83. ASPERUGO.

- 1 Calyx of the fruit flattened.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
84	LYCOPSIS.	BUGLOSS.					
	1 <i>arvensis</i>	small	Corn fi..	blue.....	6,7	A.	938.
85	ECHIU.	VIPER'S-BUGLOSS.					
	1 <i>italicum</i>	white	Jersey!	white ...	7	B.	2081.
	2 <i>vulgare</i>	common	Fields ...	blue.....	6,7	B.	181.
86	PRIMULA.	PRIMROSE.					
	1 <i>vulgaris</i>	common	Woods	yel.	4	P.	4.
	2 <i>elatior</i>	oxlip	Woods!	yel.	4	P.	513.
	3 <i>veris</i>	cowslip	Mea.pas.	yel.	4,5	P.	5.
	4 <i>farinosa</i>	bird's eye	M. pas.	red	6,7	P.	6.
87	CYCLAMEN.	SOW-BREAD.					
	1 <i>hederifolium</i> §	ivy-leaved	Woods!	white ...	10	P.	*548.
88	MENYANTHES.	BUCKBEAN.					
	1 <i>trifoliata</i>	common	Moi. pla.	white ...	6,7	P.	495.
	2 <i>nymphæoides</i> ...	fringed	Rivers..	yel.	8	P.	217.
89	HOTTONIA.	WATER-VIOLET.					
	1 <i>palustris</i>	marsh	Ditches	flesh.....	6,7	P.	364.
90	LYSIMACHIA.	LOGSESTRIFE.					
	1 <i>vulgaris</i>	yellow	Wat. sh.	yel.	7	P.	761.
	2 <i>thyrsiflora</i>	tufted	Boggy pl!	yel.	7	P.	176.
	3 <i>nummorum</i>	wood	moi. sh. p.	yel.	5-9	P.	527.
	4 <i>Nummularia</i> ...	moneywort.....	Moi.mea.	yel.	6,7	P.	528.
91	ANAGALLIS.	PIMPERNEL.					
	1 <i>arvensis</i>	scarlet	Corn fi.	scarlet...	6,7	A.	529.
	2 <i>carnea</i>	blue	Corn fi!	blue.....	6,7	A.	1823.
	3 <i>tenella</i>	hog.....	Boggy pl.	rose.....	7,8	P.	530.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

84. LYCOPSIS.

- 1 L. lanceolate, bristly : cal. erect when flowering.

85. ECHIUM.

- 1 Stem erect, hairy : spikes lateral, very hairy, spreading upward : cor. nearly equal : stam. very long.
- 2 Stem tubercled, bristly : L. stem lanceolate, hispid ; spikes lateral, hairy, deflexed.

86. PRIMULA.

- 1 L. dentated, wrinkled : scape 1-flow : limbus of the cor. flat.
- 2 L. dentated, wrinkled, contracted towards the middle : scape many-flow : limbus of the cor. flat.
- 3 L. dentated, wrinkled, contracted towards the middle : scape many-flow : limbus of the cor. concave.
- 4 L. crenate, smooth, powdery beneath : limbus of the cor. flat.

87. CYCLAMEN.

- 1 Cor. retroflexed : L. cordate, angular, denticulate, nerves and foot-stalks rough. *C. europæum. Eng. Bot.*

88. MENYANTHES.

- 1 L. ternate : cor. very plumose on the upper surface.
- 2 L. cordate, waved : corolla ciliated.

89. HOTTONIA.

- 1 Stem many-flow : peduncles in whorls.

90. LYSIMACHIA.

* *Peduncles many-flow.*

- 1 Panicked, racemes term : L. ovate-lanceolate, acute.
- 2 Racemes lateral, peduncled.

** *Peduncles 1-flow.*

- 3 L. ovate, acute : Fl. solitary : stem procumb : stam. smooth.
- 4 L. somewhat cordate : Fl. solitary : stem creeping : stam. glandular.

91. ANAGALLIS.

- 1 L. ovate, dotted beneath : stem procumbent.
- 2 L. lanceolate-ovate, dotted beneath : stem erect : cor. strongly crenate.
- 3 L. roundish, rather acute, petioled : stem creeping : stigma acute.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
92	AZALEA.	AZALEA.					
	1 procumbens	trailing	Sc. moun.	rose.....	7	S.	865.
93	CONVOLVULUS.	BINDWEED.					
	1 arvensis	small	Corn fi.	flesh.....	6,7	P.	312.
	2 sepium	great	Moi. hed.	white ...	7,8	P.	313.
	3 Soldanella	sea	Sea. sh.	flesh.....	7	P.	314.
94	POLEMONIUM.	JACOB'S-LADDER.					
	1 caeruleum	blue	Bushy p.	blue.....	6	P.	14.
95	CAMPANULA.	BELL-FLOWER					
	1 rotundifolia	round leaved.....	Heaths.	blue.....	8,9	P.	866.
	2 patula	spreading	Pasture.	viol	7,8	B.	42.
	3 Rapunculus	rampion	Hedge b	purple...	7,8	B.	283.
	1 latifolia	giant	Sh. m. p.	purple...	8	P.	302.
	5 rapunculoides...	creeping	Woods !	blue.....	8	P.	1369.
	6 Trachelium	nettle-leaved	Woods	viol	7	P.	12.
	7 glomerata	clustered	Chal. pa.	viol	7,8	P.	90.
	8 hybrida	corn	Chal. fi.	viol	8	A.	375.
	9 hederacea	ivy-leaved	Moi.s.p.	blue.....	6-8	P.	73.
96	PHYTEUMA.	RAMPION.					
	1 orbiculare	round-headed	Chal. pa.	viol	8	P.	142.
97	JASIONE.	SHEEP'S-SCABIOUS.					
	1 montana	common	San. pas.	blue.....	6,7	A.	882.
98	LOBELIA.	LOBELIA.					
	1 Dortmanna.....	water	Lakes ...	blue.....	7	P.	140.
	2 urens	acid	Heaths !	blue.....	8,9	P.	953.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

92. AZALEA.

- 1 Branches diffuse, procumbent: L. opposite, revolute, very smooth.

93. CONVULVULUS.

- 1 L. arrow-shaped, lobes acute: pedunc. mostly 1-flow: bracteas minute, remote from the flower.
- 2 L. arrow-shaped, lobes truncated: pedunc. square, 1-flow: bracteas cordate, close to the calyx.
- 3 L. kidney-shaped, pedunc. 1-flow. with membranous angles.

94. POLEMONIUM.

- 1 L. pinnated: Fl. erect: cal. longer than the tube of the corolla.

95. CAMPANULA.

- 1 L. radical kidney-shaped; those of the stem linear.
- 2 L. straight; radical lanceolate-oval: pan. spreading: cal. denticulated.
- 3 L. waved; radical lanceolate-oval: pan. compact.
- 4 L. ovate-lanceolate: stem very simple, cylind: pedunc. 1-flow: fruit drooping.
- 5 L. cordate-lanceolate: stem branched: Fl. scattered, 1-rowed, nodding: cal. reflexed.
- 6 Stem angular: L. cordate-lanceolate, sharply serrated: cal. hispid: pedunc. axillary, few-flow.
- 7 Stem angular, simple: Fl. sessile, in a terminal head: L. ovate, crenate.
- 8 Stem often branched at the base, straight: L. oblong, crenate, undulated: cor. shorter than the calyx: caps. prismatic.
- 9 L. cordate, 5-lobed, petioled, smooth: stem lax.

96. PHYTEUMA.

- 1 Head roundish: L. crenate; radical ones cordate.

97. JASIONE.

- 1 L. linear-lanceolate, narrower at the base, waved, rough.

98. LOBELIA.

- 1 L. linear 2-celled, very entire: stem nearly naked.
- 2 Stem rather upright: lower leaves obovate, denticulated: uppermost lanceolate, serrated: Fl. racemose.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
99	IMPATIENS.	BALSAM.					
	1 Noli me tangere	yellow	Wat. s. pl.	yel.	8	A.	937.
100	VIOLA.	VIOLET.					
	1 hirta	hairy	Chal. so.	blue.	4	P.	894.
	2 odorata	sweet	Sha. pl.	purple ...	3,4	P.	619.
	3 palustris	marsh	Mos. bog	blue.	4	P.	444.
	4 canina	dogs	Heaths	blue.	4-6	P.	620.
	5 lactea	cream-coloured ...	M. hea.	cream ...	5	P.	445.
	6 tricolor	pansy	Corn fi.	yel. pu. ...	5-9	A.	1297.
	7 lutea	yellow mountain..	M. pas.	yel.	5-9	P.	721.
101	VEREASCUM.	MULLEIN.					
	1 Thapsus	great	Road si.	yel.	7,8	B.	549.
	2 Lychnitis	white	Road si.	cream ...	7,8	B.	58.
	3 pulverulentum ..	yellow hoary	Bar. of fi.	yel.	7	B.	487.
	4 nigrum	black	Chal. so.	yel.	7,8	P.	59.
	5 virgatum	large-flowered ...	Grav. pl.	yel.	8	B.	550.
	6 Blattaria	moth	Grav. pl.	yel.	7	A.	393.
102	DATURA.	THORN-APPLE					
	Stramonium §...	common	Rub. ...	white ...	7	A.	1238.
103	HYOSCYAMUS.	HENBANE.					
	1 niger	common	Rub. ...	straw ...	7	A.	591.
104	ATROPA.	DEADLY NIGHTSHADE.					
	1 Belladonna	common	Rub. ...	viol	6	P.	592.
105	SOLANUM.	NIGHTSHADE.					
	1 Dulcamara	woody	Hedges	viol	6,7	S.	565.
	2 nigrum	common	Rub. ...	white ...	6-9	A.	566.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

99. IMPATIENS.

- 1 Pedunc. many-flow. solitary : L. ovate : joints of the stems swelling.

100. VIOLA.

- 1 Stemless : L. cordate, rough with hairs, as well as their petioles : cal. obtuse.
- 2 Stemless : scyons creeping : L. cordate, smoothish, as well as their petioles : cal. obtuse.
- 3 Stemless : L. kidney-shaped, smooth : root creeping.
- 4 Stem when becoming adult, ascending, channelled : L. oblong-cordate : cal. acute.
- 5 Stem ascending, cylind. : L. ovate-lanceolate : stipulæ inciso-serrated.
- 6 Stem angular, diffuse : L. oblong, deeply crenate : stipulæ lyrate, pinnatifid.
- 7 Stem triangular, simple : L. ovate, oblong, crenate, ciliated : stipulæ lobed, palmate.

101. VERBASCUM.

- 1 L. decurrent, woolly on both sides : stem simple.
- 2 L. oblong-wedge-shaped, almost naked on the upper surface : stem angular, paniced.
- 3 L. ovate-oblong, slightly serrated, powdery on both sides : stem cylind. paniced.
- 4 L. oblong-cordate, petioled, crenate, undulated, sometimes pubescent.
- 5 L. oblong-lanceolate, dentate, sessile : radical ones somewhat lyrate, pubescent : stem branched : Fl. clustered, almost sessile.
- 6 L. embracing the stem, oblong, smooth, serrated : pedunc. 1-flow. solitary.

102. DATURA.

- 1 Pericarps spinous, erect, ovate : L. ovate, smooth.

103. HYOSCYAMUS.

- 1 L. embracing the stem, sinuated : Fl. sessile.

104. ATROPA.

- 1 Stem herbaceous : L. ovate, entire.

105. SOLANUM.

- 1 Stem unarmed, shrubby, flexuose : upper leaves hastate : racemes cymose.
- 2 Stem unarmed, herbaceous : L. ovate, dentate, angular : umbels lateral, nodding.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
106	CHIRONIA.	CENTAURY.					
	1 Centaurium ...	common	Grav. pa.	rose.....	7,8	A.	417.
	2 littoralis.....	dwarf-tufted	Sea coa.	rose.....	6	A.	2305.
	3 pulchella.....	dwarf-branched...	Sea coa.	rose.....	3,9	A.	453.
107	SAMOLUS.	BROOKWEED.					
	1 Valerandi	common	Mar. ...	white ...	7	P.	703.
108	LONICERA.	HONEYSUCKLE.					
	1 Caprifolium ...	pale perfoliate ...	Woods	yel.	5,6	S.	799.
	2 Periclymenum..	common	Hedges	yel.	6,7	S.	800.
	3 Xylosteum.....	upright	Woods!	yel.	7	S.	916.
109	RHAMNUS.	BUCKTHORN.					
	1 catharticus ...	purging	Hedges	green....	5,6	S.	1629.
	2 Frangula.....	alder-leaved	Woods	white ...	5	S.	250.
110	EUONYMUS.	SPINDLE-TREE.					
	1 europæus	common	Hedges	white ...	5	S.	362.
111	RIBES.	CURRENT.					
	* 1 rubrum	common.....	Riv. ban.	green....	5	S.	1269.
	2 alpinum	tasteless mountain	Woods	green....	4,5	S.	704.
	3 spicatum.....	acid mountain ...	M. woods	green ...	5	S.	1290.
	4 petreum.....	rock	Mount..	reddish..	5	S.	705.
	5 nigrum	black	Moi. hed.	green ...	5	S.	1291.
	** 6 Grossularia.....	rough gooseberry	Hedges	green ...	4	S.	1292.
	7 Uva-crispa.....	smooth gooseberry	Hedges	green ...	4	S.	2057.
112	HEDERA.	IVY.					
	1 Helix	common	Woods	green ...	10	S.	1267.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

106. CHIRONIA.

- 1 Stem herbaceous, dichotomously paniced: L. ovate-lanceolate: cal. shorter than the tube.
- 2 Stem herbaceous, simple, straight: L. linear-obovate: cal. teeth awl-shaped: Fl. corymbose.
- 3 Stem herbaceous, much branched on all sides: L. ovate: cal. segments awl-shaped, little shorter than the tube.

107. SAMOLUS.

- 1 L. obtuse: raceme many-flow: pedicels furnished with bracteas.

108. LONICERA.

- 1 Fl. ringent, whorled, term.: L. deciduous; upper united and perfoliate.
- 2 Heads ovate, imbricated, term: L. all distinct, deciduous: Fl. ringent.
- 3 Stem. 2-flow: berries distinct: L. entire, downy.

109. RHAMNUS.

- 1 Spines term: Fl. 4-cleft. dioicous: L. ovate: stem erect: berry 4-seeded.
- 2 Unarmed: Fl. hermaph. monogynous: L. very entire, smooth: berry 2-seeded.

110. EUONYMUS.

- 1 Fl. mostly 4-cleft: pet. acute: branches smooth.

111. RIBES.

* *Unarmed.*

- 1 Racemes smooth, pendulous: Fl. flatish: pet. obcordate.
- 2 Racemes erect: bracteas longer than the flow: L. shining beneath.
- 3 Spikes erect: pet. oblong, bracteas shorter than the flow.
- 4 Racemes erect: fruit pendulous: pet. obtuse, bracteas shorter than the flow.
- 5 Racemes, hairy, pendulous: pedunc. simple at the base: Fl. oblong.

** *Prickly.*

- 6 Petioles hairy: pedunc. 1-flow: bracteas separate: fruit hirsute.
- 7 Pedunc. 1-flow: bracteas connate: fruit smooth.

112. HEDERA.

- 1 L. ovate and lobed.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
113	ILLECEBRUM.	KNOT-WEED.					
	1 verticillatum ...	whorled	Boggy pl.	white ...	7	P.	895.
114	GLAUX.	SALT-WEED.					
	1 maritima.....	black	Salt mar.	flesh.....	6,7	P.	13.
115	THESIUM.	TOAD-FLAX.					
	1 linophyllum ...	bastard	Chal. pa.	white ...	7	P.	247.
116	VINCA.	PERIWINKLE.					
	1 minor	lesser	Bushy pl.	viol	5	P.	917.
	2 major	greater	Groves..	blue.....	5	P.	514.

ORDER II. DIGYNIA.

117	HERNIARIA.	RUPTURE-WORT.					
	1 glabra.....	smooth	San. gr.	green ...	7,8	P.	206.
	2 hirsuta.....	hairy	San. gr.!	green ...	7,8	P.	1379.
118	CHENOPODIUM.	GOOSE-FOOT.					
	* 1 Bonus Henriens	perennial	Rub.....	green ...	5,6	P.	1033.
	2 urticum	upright	Dung hill	green ...	8,9	A.	717.
	3 rubrum	red	Dung hill	green ...	8	A.	1721.
	4 botryodes	many-clustered ...	Sea sh.	reddish..	8	A.	2247.
	5 murale	nettle-leaved	Rub.	green ...	8,9	A.	1722.
	6 hybridum	maple-leaved.....	Rub.	green ...	8	A.	1919.
	7 album	white	Rub.	green ...	7,8	A.	1723.
	8 ficifolium	fig-leaved	Dung hill	green ...	8	A.	1724.
	9 glaucum	oak-leaved.....	Rub.	green ...	8	A.	1454.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

113. ILLECEBRUM.

- 1 Fl. whorled, naked : stems procumbent.

114. GLAUX.

- 1 Stem erect, leafy : Fl. solitary, axillary.

115. THESIUUM.

- 1 Spike branched : bracteas ternate : L. linear lanceolate : tube of the calyx very short.

116. VINCA.

- 1 Stems procumb : L. elliptic-lanceolate, margin smooth : Fl. peduncled : calyx-teeth lanceolate.
- 2 Stems uprightish : L. ovate, ciliate : Fl. peduncled : calyx-teeth setaceous, elongated.

ORDER II. DIGYNIA.

117. HERNIARIA.

- 1 Herbaceous : smooth.
- 2 Herbaceous : hairy.

118. CHENOPODIUM.

* *Leaves angular.*

- 1 L. triangular, arrow-shaped, very entire : spikes compound, leafless.
- 2 L. triangular, denticulated : racemes crowded, very straight, approximate to the stem, very long, almost leafless.
- 3 L. rhomboid-triangular, sinuate-dentate : racemes erect, compound, leafy.
- 4 L. triangular, somewhat toothed, upper ones bluntish : racemes erect, compound, rounded, leafy.
- 5 L. ovate, shining, acute, dentate : racemes much branched, cymose, leafless.
- 6 L. cordate, angular-dentate, acuminate : racemes much branched, subcymose, divaricate, leafless.
- 7 L. rhomboid-ovate, jagged, entire behind ; uppermost oblong, very entire : seeds smooth.
- 8 L. hastate-sinuated, jagged, entire behind ; uppermost oblong, very entire : seeds dotted.
- 9 L. all oblong with deeply waved edges, glaucous beneath : racemes leafless, clustered.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	CHENOPODIUM.	GOOSE-FOOT.					

	10 <i>olidum</i>	stinking.....	Rub	green ...	8	A.	1034.
	11 <i>polyspermum</i> ...	round-leaved.....	Rub. ...	green ...	7,8	A.	1480.
	12 <i>acutifolium</i>	sharp-leaved	uncul.gr.	green ...	7,8	A.	1481.
	13 <i>maritimum</i>	sea	Salt mar.	green ...	7,8	A.	633.
119	BETA.	BEET.					
	1 <i>maritima</i>	sea	Sea coast	green...	8	P.	285.
120	SALSOLA.	SALTWORT.					
	1 <i>Kali</i>	prickly	Sea shore	flesh ...	7	A.	634.
	2 <i>fruticosa</i>	shrubby.....	Sea shore	green ...	7,8	S.	635.
121	ULMUS.	ELM.					
	1 <i>campestris</i>	common.....	Hedges	brown...	4	T.	1886.
	2 <i>suberosa</i>	cork-barked	Hedges	brown...	3	T.	2161.
	3 <i>glabra</i>	wych	Hedges	brown...	3	T.	2248.
	4 <i>montana</i>	broad-leaved	Woods	brown...	4	T.	1887.
	5 <i>major</i> §	dutch	Hedges	brown...	3	T.	2542.
122	CUSCUTA.	DODDER.					
	1 <i>europæa</i>	greater	On thistl.	pellu. ...	8,9	A.	378.
	2 <i>Epithymum</i> ...	lesser	On shrub.	pellu. ...	8	P.	55.
123	SWERTIA.	FELWORT.					
	1 <i>perennis</i> †	marsh.....	Alp. mar.	purple...	8	P.	1441.
124	GENTIANA.	GENTIAN.					
	1 <i>Pneumonanthe</i>	marsh	Moi. hea.	blue.....	8,9	P.	20.
	2 <i>acaulis</i> §.....	dwarf.....	Walls	blue.....	5	P.	1594.
	3 <i>verna</i>	spring	Mount...	blue.....	4	P.	493.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

CHENOPODIUM.

** *Leaves entire.*

- 10 L. rhomboid-ovate, very entire : racemes conglomerate.
- 11 L. ovate, very entire : stem prostrate : racemes cymose, divaricate, leafless.
- 12 L. ovate, acute, very entire : stem erect : racemes somewhat cymose, elongated ; leafless.
- 13 L. awl-shaped semicylind : Fl. axillary, sessile.

119. BETA.

- 1 Stems decumb. Fl. in pairs : calyx-segments very entire.

120. SALSOLA.

- 1 Herbaceous, decumbent : L. awl-shaped, spinous, rough : cal. marginate, axillary.
- 2 Shrubby erect : L. semicylind : rather obtuse, spineless.

121. ULMUS.

- 1 L. doubly-serrated, scabrous, unequal at the base : Fl. subsessile, 4-cleft : fruit oblong, naked.
- 2 L. pointed, doubly serrated, rough, unequal at the base : Fl. peduncled 4 or 5-cleft : fruit round, naked.
- 3 L. doubly serrated, smooth, unequal at the base : Fl. subsessile, 5-cleft : fruit oblong, naked.
- 4 L. doubly-serrated, acuminate, round, unequal at the base : Fl. peduncled, 5 or 6-cleft : fruit round.
- 5 L. unequally-serrated, rough, unequal at the base : Fl. subsessile, 4-cleft : fruit obovate, naked.

122. CUSCUTA.

- 1 Fl. nearly sessile : cor. throat naked : stigmas acute.
- 2 Fl. sessile : stam. with minute crenate scales at the base : stigmas acute.

123. SWERTIA.

- 1 Cor. 5-cleft : radical leaves ovate.

124. GENTIANA.

- 1 Cor. bell-shaped, 5-cleft : Fl. peduncled : L. linear.
- 2 Cor. 5-cleft, bell-shaped : stem 4-angular, scarcely the length of the flower.
- 3 Cor. 5-cleft, salver-shaped, crenate : segments toothed at the base : L. ovate, crowded.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	GENTIANA.	GENTIAN.					
	4 nivalis	small alpine	Sc. alps	blue.....	8	A.	896.
	5 Amarella	autumnal	Chal. pa.	purple...	8	A.	236.
	6 campestris	field	Grav. pa.	purple...	9	A.	237.
	UMBELLIFEROUS PLANTS.						
125	ERYNGIUM.	ERYNGO.					
	1 maritimum	sea	Sea. sh.	blue.....	7,8	P.	718.
	2 campestre	field	Pas. !	blue.....	7,8	P.	57.
126	HYDROCOTYLE.	PENNYWORT.					
	1 vulgaris	common	Wat. pl.	reddish	5,6	P.	751.
	2 inundata	floating	Ditches	white ...	5	B.	227.
127	SANICULA.	SANICLE.					
	1 europæa	wood	Woods	white ...	5	P.	98.
128	BUPLEURUM.	THOROW-WAX.					
	1 rotundifolium ...	round leaved.....	Corn fi.	yel.	7	A.	99.
	2 odontites	narrow-leaved	Rocks...	cream...	7	A.	2468.
	3 tenuissimum ...	slender	Sea sh.	yel.	7,8	A.	478.
129	ECHINOPHORA.	PRICKLY-SAMPHIRE.					
	1 spinosa †.....	common.....	Sea coast	white ...	7	P.	2413.
130	TORDYLIUM.	HART-WORT.					
	1 officinale †.....	small	Corn fi. !	flesh.....	6,7	A.	2440.
	2 maximum.....	great	Corn fi. !	flesh ...	6,7	A.	1173.
131	CAUCALIS.	BUR-PARSLEY.					
	1 daneoides	small	Chal. fi.	reddish	6	A.	197.
	2 latifolia	great	Chal. fi. !	reddish	7	A.	198.
	3 Anthriscus	upright hedge ...	Hedges	reddish	7	A.	987.
	4 infesta	spreading hedge	Corn fi.	yel. ish	7	A.	1314.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

GENTIANA.

- 4 Cor. 5-cleft funnel-shaped; Cal. angles equal, acute: stem many-flow.
- 5 Cor. 5-cleft salver-shaped; throat bearded: cal. segments equal.
- 6 Cor. 4-cleft salver-shaped; throat bearded: outer calyx-segments larger.

UMBELLIFEROUS PLANTS.

125. ERYNGIUM.

- 1 L. radical roundish, plaited, spinous: heads peduncled.
- 2 L. embracing the stem, divided in a pinnated manner.

126. HYDROCOTYLE.

- 1 L. peltate: umbels 5-flowered.
- 2 L. pinnate, 3-cleft: those submersed are capillary and many-cleft: umbels 5-flow. in pairs.

127. SANICULA.

- 1 L. radical simple: Fl. all sessile.

128. BUPLEURUM.

- 1 Invol. universal none: L. perfoliate.
- 2 Involucel. 5 ovate, pointed, 3-ribbed leaves: Invol. 3-leaved: branches spreading: umbels peduncled.
- 3 Umbels simple, alternate, about 3-flow: invol. 5 awl-shaped leaves.

129. ECHINOPHORA.

- 1 Leaf. awl-shaped, spinous, trifid, or undivided, very entire.

130. TORDYLIUM.

- 1 Involuerets as long as the flow: leaf. ovate, cut, crenate: stem pubescent.
- 2 Umbels crowded, radiate: leaf. lanceolate, deeply serrated: stem rough, with bristles bent downwards.

131. CAUCALIS.

- 1 Umbels trifid, naked: umbellets 3-seeded: involuerets 3-leaved: L. more than doubly compound.
- 2 Umbels trifid, involuered: umbellets 5-seeded: L. pinnate, serrated.
- 3 Umbels many-cleft, crowded: invol. many-leaved: leaf. pinnatifid: branches rather upright.
- 4 Umbels many-cleft, crowded: universal invol. scarcely any: leaf. pinnatifid: branches spreading.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	CAUCALIS.	BUR-PARSLEY.					
	5 nodosa	knotted.....	Corn fi.	white ...	5,6	A.	199.
132	DAUCUS.	CARROT.					
	1 Carota	wild	Bor. of fi	white ...	6,7	B.	1174.
	2 maritimus	sea-coast	Cornwall	white ...	7,8	B.	2560.
133	BUNIUM.	EARTH-NUT.					
	1 Bulbocastanum	common.....	Past. ...	white ...	5,6	P.	*988.
134	CONIUM.	HEMLOCK.					
	1 maculatum	common.....	Hedges	white ...	6,7	B.	1191.
135	SELINUM.	MILK-PARSLEY.					
	1 palustre	marsh.....	Marshes	white ...	7	P.	229.
136	ATHAMANTA.	SPIGNET.					
	1 Libanotis	mountain	Chal.pa.!	white ...	8	P.	138.
137	PEUCEDANUM.	SULPHUR-WORT.					
	1 officinale	sea	Salt mar.	yel.	6,7	P.	1767.
	2 Silaus	meadow	Mead....	yel.	8	P.	2142.
138	CRITHMUM.	SAMPHIRE.					
	1 maritimum	sea	sea cliffs	white ...	8	P.	819.
139	HERACLEUM.	COW-PARSNEP					
	1 Sphondylium....	common.....	Hedges	white ...	7	B.	939.
140	LIGUSTICUM.	LOVAGE.					
	1 scoticum	scottish	Scot. sh.	white ...	7	P.	1207.
	2 cornubiense	cornish	Bushy fi.	white ...	7	P.	683.
	3 Meum.....	spignel	M. pas.	white ...	5	P.	*2249.
141	ANGELICA.	ANGELICA.					
	1 Archangelica §	garden	Wat.pl.!	white ...	9	B.	2561.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

CAUCALIS.

- 5 Umbels lateral simple, nearly sessile: stem prostrate.

132. DAUCUS.

- 1 Fruit bristly: petioles nerved beneath: umbels when in seed concave.
 2 Fruit rough, with compressed bristles: leaf. dilated, succulent, hairy: umbels when in seed convex.

133. BUNIUM.

- 1 Invol. about 3-leaved: L. thrice pinnate, linear, smooth: fruit ovate.
B. flexuosum. Eng. Bot.

134. CONIUM.

- 1 Seeds unarmed: stem much branched, shining, spotted.

135. SELINUM.

- 1 Milky: root generally single: stem solitary: styles divaricated after flowering: pet. involute.

136. ATHAMANTA.

- 1 L. bipinnated, flat. umbel hemispherical: seeds hairy.

137. PEUCEDANUM.

- 1 L. five times 3-parted: leaf. linear, undivided.
 2 Leaf. pinnatifid: segm. opposite, decurrent: universal invol. about 2-leaved.

138. CRITHMUM.

- 1 Leaf. lanceolate, fleshy.

139. HERACLEUM.

- 1 L. pinnate: leaf. pinnatifid, deeply serrated.

140. LIGUSTICUM.

- 1 L. bitter-nate.
 2 L. radical decom-pound, cut; those on the stem ternate, lanceolate, entire: furrows of the seed indistinct.
 3 Leaf. all setaceous, many-cleft. *Meum athamanticum. Eng. Bot.*

141. ANGELICA.

- 1 Terminating leaflet lobed.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	ANGELICA.	ANGELICA.					
	2 sylvestris	wild	M. woods	flesh	7	P.	1128.
142	SIUM.	WATER-PARSNEP.					
	1 latifolium	broad leaved	Rivulets	white ...	7,8	P.	204.
	2 angustifolium...	narrow leaved	Rivulets	white ...	7,8	P.	139.
	3 nodiflorum	procumbent	Rivulets	white ...	7,8	P.	639.
	4 repens.....	creeping.....	Moi. gr.	white ...	6-8	P.	1431.
	5 verticillatum. ..	whorled	M. mea.	white ...	7,8	P.	*395.
143	SISON.	HONE-WORT.					
	1 Amomum	hedge.....	Mo. chal.	white ...	8	A.	954.
	2 segetum	corn	Chal. fl.	white ...	8	A.	228.
144	OENANTHE.	WATER-DROP-WORT.					
	1 fistulosa	common	Ditches	flesh	7,8	P.	363.
	2 pimpinelloides	parsley	Salt mar.	white ...	7	P.	347.
	3 pencedanifolia	sulphur wort	Ditches	white ...	6	P.	348.
	4 crocata	hemlock	Ditches	white ...	7	P.	2313.
145	CORIANDRUM.	CORIANDER.					
	1 sativum §	common	Fields !	white ...	6	A.	67.
146	PIHELLANDRIUM	WATER-HEMLOCK.					
	1 aquaticum	common	Rivulets	white ...	6,7	B.	684.
147	CICUTA.	COW-BANE.					
	1 virosa	water	Ditches	white ...	8	P.	479.
148	AETHUSA.	FOOL'S PARSLEY.					
	1 Cynapium	common	Corn fi.	white ...	7,8	A.	1192.
149	SCANDIX.	CHERVILL.					
	1 odorata	sweet scented	Moi. pas.	white ...	5	P.	697.
	2 Pecten-Veneris	needle	Corn fi.	white ...	6,7	A.	1397.
	3 Anthriscus	rough	Hedge ba	white ...	5	A.	818.
	4 cerefolium §....	garden	Hedge ba	white ...	6	A.	1268.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

ANGELICA.

- 2 Leaf. equal, ovate, serrated.

142. SIUM.

- 1 L. pinnate: leaf. oblong-lanceolate, equally serrated.
 2 L. pinnate: leaf. unequally lobed and serrated: umbels peduncled, opposite the leaves: stem erect.
 3 L. pinnate: leaf. ovate, equally serrated: umbels sessile, opposite the leaves: stem procumbent.
 4 L. pinnate: leaf. roundish, deeply toothed: umbels peduncled, opposite the leaves: stem creeping.
 5 Leaf. whorled, capillary, many-cleft. *Sison. Eng. Bot.*

143. SISON.

- 1 L. pinnate: umbels erect, about 4-rays.
 2 L. pinnate: leaf. roundish numerous: umbels drooping variously.

144. OENANTHE.

- 1 Stoloniiferous: stem leaves pinnate, filiform, fistulous: universal invol. oftentimes wanting.
 2 Radical leaf. wedge-shaped, cloven; those on the stem linear, very entire, elongated: invol. many-leaved, linear.
 3 Leaf. all linear: invol. none: knobs of the root sessile, elliptical.
 4 Leaf. all wedge-shaped, many-cleft, nearly equal.

145. CORIANDRUM.

- 1 Fruit globular: seeds hemispherical.

146. PHELLANDRIUM.

- 1 Segments of the leaves divaricated.

147. CICUTA.

- 1 Umbels opposite the leaves: stipulæ running up the petioles, obtuse.

148. AETHUSA.

- 1 L. all alike.

149. SCANDIX.

- 1 Seeds furrowed, angular smooth.
 2 Seeds with a very long roughish beak: leaf. linear, many-parted.
 3 Seeds ovate, hispid: corollas uniform: stem smooth.
 4 Seeds polished, a little swelling: umbels sessile, lateral.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
150	CHEROPHYLLUM.	COW-PARSLEY.					
	1 sylvestre.....	smooth	Hedges	white ...	4,5	P.	752.
	2 tenulentum	rough.....	Hedges	white ...	6,7	B.	1521.
	3 aureum	tawny-seeded	Bor. of fl!	cream ...	6	P.	2103.
151	IMPERATORIA.	MASTERWORT.					
	1 Ostrnithium	common.....	M. alp. p!	white ...	6	P.	1360.
152	PASTINACA.	PARSNEP.					
	1 sativa	wild	Chal. pl.	yel.	7	B.	556.
153	SMYRNIUM.	ALEXANDERS.					
	2 Olusatrum	common	Sea coast	greenish	5	B.	230.
154	ANETHUM.	FENNEL.					
	I Fœniculum.....	common	Chal. pl.	yel.	7,8	B.	1203.
155	CARUM.	CARAWAY.					
	1 Carui §	common	Mea.pas.	white ..	6	B.	1503.
156	PIMPINELLA.	BURNET-SAXIFRAGE.					
	1 saxifraga	common	Dry pas.	white ...	7,8	P.	407.
	2 magna.....	great	Woods	white ...	7,8	P.	408.
	3 dioica	dwarf.....	Rocks!	white ...	5,6	P.	1209.
157	APIUM.	CELERY.					
	1 graveolens	wild	Ditches	white ...	8	B.	1210.
158	ÆGOPODIUM.	GOUT-WEED.					
	1 Podagraria.....	common.....	Sha. pl.	white ...	5,6	P.	940.

ORDER III. TRIGYNIA.

159	VIBERNUM.	GUELDER-ROSE.					
	1 Lantana	mealy.....	Hedges	white ...	5	S.	331.
	2 Opulus	common.....	Moi. wa.	white ...	6	S.	332.

CLASS V. PENTANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

150. CILEROPHYLLUM.

- 1 Stem striated, smooth; joints rather swollen.
- 2 Stem rough; joints swollen.
- 3 Stem somewhat swelling, angular, hairy: L. pinnatifid, acute, cut: seeds coloured, striated.

151. IMPERATORIA.

- 1 L. biternate, serrated.

152. PASTINACA.

- 1 L. simply pinnate, pubescent beneath.

153. SMYRNIUM.

- 1 Stem leaves ternate, petioled, serrated.

154. ANETHUM.

- 1 Fruit gibbous: stem leaves numerous, curved downwards.

155. CARUM.

- 1 Stem branched: L. doubly pinnate.

156. PIMPINELLA.

- 1 L. pinnate: radical leaf. roundish; uppermost linear.
- 2 L. pinnate: leaf. all ovate, terminating one 3-lobed.
- 3 Leaf. all linear: umbels panicled: Fl. dioicous.

157. APIUM.

- 1 Leaf. of the stem-leaves wedge-shaped: stem furrowed.

158. ÆGOPODIUM.

- 1 L. radical biternate; uppermost ternate, ovate.

ORDER III. TRIGYNIA.

159. VIBURNUM.

- 1 L. cordate, serrated, veiny, tomentous beneath.
- 2 L. lobed: petioles glandular.

CLASS V. PENTANDRIA.

ORDER III. TRIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
160	SAMBUCUS.	ELDER.					
	1 <i>Ebulus</i>	dwarf	Wa. gr.	red.	7	P.	475.
	2 <i>nigra</i>	common	Hedges	white ...	6	T.	476.
161	STAPHYLEA.	BLADDER-NUT.					
	1 <i>pinnata</i> §	pinnate	Hedges!	yel'ish	6	S.	1560.
162	TAMARIX.	TAMARISK.					
	1 <i>gallica</i>	french	So. coast	flesh	7	S.	1313.
163	CORRIGIOLA.	STRAPWORT.					
	1 <i>littoralis</i>	sand	So. coast	white ...	7,8	A.	668.

ORDER IV. TETRAGYNIA.

164	PARNASSIA.	GRASS OF PARNASSUS.					
	1 <i>palustris</i>	common.....	Bogs ...	white ...	8,9	P.	82.

ORDER V. PENTAGYNIA.

165	STATICE.	SEA-LAVENDER.					
	1 <i>Armeria</i>	thrift	Sea coast	rose.....	7,8	P.	226.
	2 <i>Limonium</i>	common	Mud. sh.	blue.....	7,8	P.	102.
	3 <i>reticulata</i>	matted	Mud. sh.	blue.....	7,8	P.	328.
166	LINUM.	FLAX.					
	* 1 <i>usitatissimum</i> ...	common	Corn fi.	blue.....	7	A.	1357.
	2 <i>perenne</i>	perennial	Chal. so.	blue.....	6,7	P.	40.
	3 <i>angustifolium</i> ...	narrow-leaved	San. pas.	purple...	7	P.	381.
	** 4 <i>catharticum</i>	purg'ing	Dry pas.	white ...	6-8	A.	382.

CLASS V. PENTANDRIA.

ORDER III. TRIGYNIA.

SPECIFIC CHARACTER.

160. SAMBUCUS.

- 1 Cymes 3-parted: stipulæ leafy: stem herbaceous.
- 2 Cymes 5-parted: leaf. ovate, serrated: stem a tree.

161. STAPHYLEA.

- 1 L. pinnate: styles and capsules 2-together.

162. TAMARIX.

- 1 Fl. pentandrous.

163. CORRIGIOLA.

- 1 Stems numerous, prostrate.

ORDER IV. TETRAGYNIA.

164. PARNASSIA.

- 1 L. cordate.

ORDER V. PENTAGYNIA.

165. STATICE.

- 1 Scape simple, headed: L. linear.
- 2 Scape paniced, cylind: L. smooth, nerveless, awned at the apex.
- 3 Scape paniced, prostrate, zigzag; lower branches barren: L. wedge-shaped, awnless.

166. LINUM.

* *Leaves alternate.*

- 1 Leaf. of the cal. ovate, acute, 3-nerved: pet. crenate: L. lanceolate, alternate: stem mostly solitary.
- 2 Leaf. of the cal. obovate, obtuse, about 5-nerved, smooth: stems numerous, ascending.
- 3 Leaf. of the cal. elliptical, about 3-nerved, acuminate as well as the capsules: L. linear-lanceolate 3-nerved: stems numerous.

** *Leaves opposite.*

- 4 L. obovate-lanceolate: stem dichotomous above: petals acute.

CLASS V. PENTANDRIA.

ORDER V. PENTAGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
167	SIBBALDIA.	*SIBBALDIA.					
	1 procumbens	procumbent	Sc. alps	yel.	7	P.	897.

ORDER VI. HEXAGYNIA.

168	DROSERA.	SUN-DEW.					
	1 rotundifolia	round-leaved	Tu. bogs	white ...	7,8	P.	867.
	2 longifolia	long-leaved	Tu. bogs	white ...	7,8	P.	868.
	3 anglica	great	Tu. bogs!	white ...	7,8	P.	869.

ORDER VII. POLYGYNIA.

169	MYOSURUS.	MOUSE-TAIL.					
	1 minimus	common	Corn fi.	yel.	5	A.	435.

CLASS V. PENTANDRIA.

ORDER V. PENTAGYNIA.

SPECIFIC CHARACTER.

167. SIBBALDIA.

- 1 Leaflets wedge-shaped, 3-toothed.

ORDER VI. HEXAGYNIA.

168. DROSERA.

- 1 L. orbicular, radical: scape bearing a simple racemus.
- 2 L. obovate, radical: scape bearing a simple racemus.
- 3 L. oblong, obtuse, radical: Fl. with 8-styles; caps. 4-valved.

ORDER VII. POLYGYNIA.

169. MYOSURUS.

- 1 L. entire, linear.

CLASS VI.

HEXANDRIA.

ORDER I. MONOGYNIA.

* *Fl. calycted, furnished with calyx and corolla.*

- 187 FRANKENIA. *Cor.* 5-pet. *Cal.* 1-leaved, inferior. *Caps.* 1-celled, many-seeded.
 186 BERBERIS. *Cor.* 6-pet. *Cal.* 6-leaved, inferior. *Berry* 2-seeded.
 188 PEPLIS. *Cor.* 6-pet. *Cal.* 10-cleft. *Caps.* 2-celled.
Lythrum 2.

* * *Fl. with a Spathe.*

- 171 LEUCOJUM. *Cor.* superior, 6-pet. bell-shaped. *Stam.* equal.
 170 GALANTHUS. *Cor.* superior, 6-pet; 3 inner petals shorter, emarginate.
 172 NARCISSUS. *Cor.* superior, 6-pet. *Nect.* bell-shaped, bearing the petals, inclosing the stamina.
 173 ALLIUM. *Cor.* inferior, 6-pet; petals ovate, sessile.

* * * *Fl. naked.*

- 182 CONVALLARIA. *Cor.* inferior, 6-cleft. *Berry* 3-celled. *Stig.* 3-cornered.
 177 HYACINTHUS. *Cor.* inferior, 6-cleft, with inflated tube. *Stam.* uniform. *Caps.* 3-celled. *Seeds* globose.
 181 ASPARAGUS. *Cor.* inferior, 6-parted. *Berry* 3-celled. *Stig.* 3.
 179 ANTHERICUM. *Cor.* inferior, 6-pet. spreading. *Seeds* angular.
 180 NARTHECIUM. *Cor.* inferior, 6-pet. spreading. *Seeds* with an appendage at each end. *Stam.* hairy.
 176 ORNITHOGALUM. *Cor.* inferior, 6-pet. *Stam.* dilated at the base.
 178 SCILLA. *Cor.* inferior, 6-pet. *Stam.* filiform.
 174 FRITILLARIA. *Cor.* inferior, ovate, 6-pet. with a nectariferous hollow at the base.
 175 TULIPA. *Cor.* inferior, bell-shaped, 6-pet. *Style* 0. *Seeds* flat.
 183 ACORUS. *Cor.* inferior, 6-pet. *Spadix* many-flow.

* * * *Fl. incomplete.*

- 184 JUNCUS. *Cal.* 6-leaved. *Cor.* 0. *Caps.* superior, 3-valved, 3-celled, many-seeded.
 185 LUZULA. *Cal.* 6-leaved. *Cor.* 0. *Caps.* superior 3-valved, 1 celled, 3-seeded.
Peplis 1. *Polygonum.*

ORDER III. TRIGYNIA.

- 191 SCHEUCHZERIA. *Cal.* 0. *Pet.* 6. *Caps.* 3 inflated.
193 COLCHICUM. *Cal.* a spathe. *Cor.* 6-cleft, with a tube from the
root.
192 TRIGLOCHIN. *Cal.* 3-leaved. *Pet.* 3. *Caps.* opening at the base.
189 RUMEX. *Cal.* 3-leaved. *Pet.* 3. *Seed* 1, 3-cornered.
190 TOFIELDIA. *Cal.* 3-cleft. *Pet.* 6. *Caps.* 3. many-seeded.
Elatine.

ORDER V. POLYGYNIA.

- 194 ALISMA. *Cal.* 3-leaved. *Pet.* 3. *Caps.* numerous, aggregate,
1-seeded.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Potany.
170	GALANTHUS.	SNOW-DROP.					
	1 <i>nivalis</i>	common	Mead ...	white ...	2	P.	19.
171	LEUCOJUM.	SNOW-FLAKE.					
	1 <i>æstivum</i>	summer	Mo.mea.	white ...	5	P.	621.
172	NARCISSUS.	NARCISSUS.					
	1 <i>poeticus</i>	poetic.....	San. hea.	white ...	5	P.	275.
	2 <i>biflorus</i>	pale	Mead ...	ochre ...	4,5	P.	276.
	3 <i>Pseudo-narcissus</i>	daffodil	Woods	straw ...	3	P.	17.
173	ALLIUM.	GARLICK.					
	*						
	1 <i>Ampeloprasum</i>	gt. round-headed	Sun. hil.!	purple...	7	P.	1657.
	2 <i>arenarium</i>	sand	M.woods	purple...	7	P.	1358.
	3 <i>carinatum</i>	mountain	Rocks ...	ochre ...	7	P.	1653.

	4 <i>oleraceum</i>	streaked field.....	Corn fi.	green....	7	P.	488.
	5 <i>vineale</i>	crow	Mead....	flesh.....	7	P.	1974.

	6 <i>ursinum</i>	broad-leaved	Woods	white ...	5,6	P.	122.
	7 <i>Schœnoprasum</i>	chive	M. past.!	flesh.....	6	P.	2441.
174	FRITILLARIA.	FRITILLARY.					
	1 <i>Meleagris</i>	common	Moi.pas.	purple...	4	P.	622.
175	TULIPA.	TULIP. *					
	2 <i>sylvestris</i>	wild	Chalk pit	yellow...	4	P.	63.
176	ORNITHOGALUM	STAR OF BETHLEHEM					
	1 <i>luteum</i>	yellow	Woods!	yellow...	4	P.	21.
	2 <i>pyrenaicum</i> ...	spiked	Pasture!	greenish	6,7	P.	499.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

170. GALANTHUS.

Inner pet. tipped with green.

171. LEUCOJUM.

Spathe many-flow. style club-shaped.

172. NARCISSUS.

Spathe 1-flow : nect. wheel-shaped, very short, membranous, crenate :
L. obtusely keeled, margin reflexed.

Spathe 2-flow : nect. very short, membranous, crenate : L. acutely keeled,
margin inflexed.

Spathe 1-flow : nect. bell-shaped, erect, curled, indistinctly 6-cleft,
equalling the ovate petals.

173. ALLIUM.

* *Stem leaves flat.*

Umbel globose without bulbs : stem. 3-pointed : pet. rough on the
back.

Umbel bearing bulbs : sheaths cylind : spathe blunt : stem. 3-pointed :
pet. roughish on the keel.

Umbel bulbiferous : stem. all awl-shaped : spathe acute.

** *Stem leaves cylindrical.*

Umbel bulbiferous : L. rough, channelled, furrowed beneath : stem. simple.

Umbel bulbiferous : stamens 3-pointed.

*** *Scape naked.*

Scape semicylind : L. lanceolate, petioled : umb. flat-topped.

Scape cylindrical, as long as the leaves : L. cylindrical, somewhat
tapering.

174. FRITILLARIA.

L. all alternate : stem 1-flow : nectary linear.

175. TULIPA.

Fl. solitary, somewhat nodding : L. lanceolate : stigma obtuse, trian-
gular : stem. hairy at the base.

176. ORNITHOGALUM.

Stem angular, 2-leaved : pedunc. umbellate, simple.

Raceme very long : filaments all dilated : pedunc. when in flower
spreading, equal : when in fruit, approaching the scape.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	ORNITHOGALUM	STAR OF BETHLEHEM					
	3 umbellatum	common	Mea.pas.	white ...	4,5	P.	130.
	4 nutans	drooping.....	Dry mea!	white ...	5	P.	1997.
177	HYACINTHUS.	HYACINTH.					
	1 racemosus.....	starch	San. fi.	blue.....	5	P.	1931.
173	SCILLA.	SQUILL.					
	1 verna	vernal	Rocks...	blue.....	4	P.	23.
	2 bifolia	two-leaved.....	Woods!	blue.....	3,4	P.	24.
	3 autumnalis	autumnal	Dry past.	rose.....	9	P.	78.
	4 nutans.....	hare-bell	Woods	blue.....	5	P.	377.
179	ANTHERICUM.	SPIDER-WORT					
	1 serotinum	mountain.....	Alp. roc.!	white ...	6	P.	793.
180	NARTHECIUM.	ASPHODEL.					
	1 ossifragum	Lancashire	Tu. bogs	yellow...	7,8	P.	535.
181	ASPARAGUS.	SPERAGE.					
	1 officinalis	common	Sea coast	greenish	8	P.	339.
182	CONVALLARIA.	SOLOMON'S SEAL.					
	1 majalis	lily of the valley	Woods	white ...	5	P.	1035.
	2 verticillata	narrow-leaved ...	Woods!	white ...	6	P.	128.
	3 Polygonatum ...	angular	Mount.!	white ...	5,6	P.	280.
	4 multiflora	common	Woods	white ...	5,6	P.	279.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

ORNITHOGALUM.

- 3 Fl. corymbous: pedunc. surpassing the scape: filam. tapering, very entire.
- 4 Fl. pendulous on one side: filam dilated, cohering, bell-shaped; alternate ones longest and bilobed.

177. HYACINTHUS.

- II Fl. ovate, 6-furrowed; the upper ones sessile, barren: L. linear, loosely spreading.

178. SCILLA.

- I Root solid: corymb. hemispherical, few-flow: bractæ lanceolate, obtuse: L. linear, channelled, numerous.
- 2 Root solid: Fl. somewhat corymbose, nearly erect, without bractæ: L. generally 2, lanceolate.
- 3 L. linear: Fl. somewhat corymbosus: pedunc. without bractæ, ascending the length of the flow.
- II L. linear: spike nodding: Fl. drooping, bell-shaped, somewhat cylind. reflexed at the points: bractæ in pairs.

179. ANTHERICUM.

L. semicylind: those on the stem dilated at their base; stem mostly I-flow.

180. NARTHECIUM.

L. ensiform.

181. ASPARAGUS.

Stem herbaceous, unarmed, nearly erect, cylind: L. setaceous, soft: stipulæ mostly solitary.

182. CONVALLARIA.

Stalk naked semicylind: Fl. spiked, pedicelled, nodding.

L. verticillate.

L. alternate, embracing the stem: stem angular: pedunc. axillary, mostly I-flow.

L. alternate, embracing the stem: stem cylind: pedunc. axillary, many-flow.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the flower.	Time of flowering.	Duration.	Figure in English Botany.
183	ACORUS.	SWEET-FLAG.					
	1 Calamus	common	Pools ...	green ...	6	P.	356.
184	JUNCUS.	RUSH.					
	1 acutus	great sharp	Sea coast		7	P.	1614.
	2 maritimus	sea	Salt mar.		8	P.	1725.
	3 glaucus	hard	M. past.		7	P.	665.
	4 conglomeratus	common	M. past.		7	P.	835.
	5 effusus	soft	M. past.		7	P.	836.
	6 filiformis	least	Tu. bogs		8	P.	1175.
	7 trifidus	three-leaved	Sc. alps		7	P.	1462.
	8 squarrosus	moss	San. hea.		6,7	P.	933.
	9 acutiflorus	sharp flowered ...	Moi. pas.		6	P.	*238.
	10 lanpocarpus ...	shining-fruited ...	Moi. pas.		6,7	P.	2148.
	11 obtusiflorus	blunt-flowered ...	Marshes		7,8	P.	2144.
	12 uliginosus	bulbous	Tu. hea.		7,8	P.	801.
	13 supinus	dwarf	Wet gr.		7	P.	.....
	14 compressus ...	round-fruited	Moi. pas.		7,8	P.	*934.
	15 cœnosus	mud	Salt mar.		7,8	P.	.....
	16 gracilis	slender	Sc. alps!		7	P.	2174.
	17 bufonius	toad	Wet s. gr		7,8	A.	802.
	18 biglumis	two-flowered	Bogon M!		8	P.	898.
	19 triglumis	three-flowered ...	Bogon M.		7	P.	899.
	20 castaneus	clustered alpine...	Sc. alps		7	P.	900.
	21 verticillatus	whorled	Marshes		7,8	P.	.....
185	LUZULA.	WOOD-RUSH.					
	1 pilosa	hairy	Groves		3,4	P.	*736.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

183. ACORUS.

- 1 Scape with a very long leaf-like point above the flowers.

184. JUNCUS.

* *Culms naked.*

- 1 Culm cylind: pan. term: invol. 2-leaved, spinous: caps. roundish, pointed.
 - 2 Culm cylind: pan. term. proliferous: invol. 2-leaved, spinous, erect: caps. oblong.
 - 3 Culm straight, glaucous: pan. lateral, erect: caps. elliptical, acute.
 - 4 Culm straight: pan. lateral, conglobate: caps. retuse: Fl. triandrous.
 - 5 Culm straight: pan. lateral, loose, thrice-compound: caps. obtuse.
 - 6 Culm filiform, nodding: pan. lateral, bracteate, mostly simple: caps. roundish.
 - 7 Culm: terminated by 3 leaves and 3 flowers.
 - 8 L. setaceous: pan. term compound. clustered.
- ** *Culms leafy.*
- 9 L. knotty-jointed, somewhat compressed: culm jointless: pan. repeatedly forked, dense: cal. leaves sharp pointed. *J. articulatus.* Eng. Bot.
 - 10 L. knotty-jointed, compressed: culm jointless: pan. erect, caps. coloured, polished.
 - 11 L. and stem knotty-jointed, cylind: pan. divaricated: cal. leaves blunt, as long as the capsule.
 - 12 L. setaceous, somewhat knotty-jointed: heads about 3-flow. in a kind of proliferous cluster: culm bulbous, taking root at its joints.
 - 13 L. channelled, filiform: heads 3-flow. term. on one side: bractea setaceous, leafy. *Bicheno, Trans. Linn. Soc. v. 12.*
 - 14 L. linear, channelled, culm compressed: corymb. term. shorter than the bractea: caps. round, longer than the cal. *Bicheno, Trans. Linn. Soc. v. 12. J. bulbosus.* Eng. Bot.
 - 15 L. setaceous, channelled: corymb. term. longer than the bractea: caps. obovate, blunt, as long as the cal. *Bicheno, Trans. Linn. Soc. v. 12.*
 - 16 L. linear, flat: stem dichot. racemose, higher than the leaves: Fl. solitary.
 - 17 L. linear, channelled: culm dichotomous, racemose: Fl. solitary.
 - 18 L. flat: head 2-flow. term. on one side, leafy at the base.
 - 19 L. flat: head 3-flow. term. erect, bracteate, leafless.
 - 20 L. flat, embracing the stem: heads term. mostly in pairs, many-flow. leafy at the base: bractea acute.
 - 21 L. of the stem awl-shaped, knotty-jointed: corymb. dichot: heads about 5-flow. whorled in clusters. *Bicheno, Trans. Linn. Soc. v. 12.*

185. LUZULA. *Decandolle.*—JUNCUS. *Eng. Bot.*

- 1 L. hairy: pan. cymose, divaricated: Fl. lateral, solitary.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	LUZULA.	WOOD-RUSH.					
	2 sylvatica.....	great	Woods	.....	5	P.	*737.
	3 campestris	field	Bar.past.	.....	4,5	P.	*672.
	4 spicata	spiked	Sc. alps	.....	7	P.	*1176.
	5 Forsteri	Forster's	Woods	.....	5	P.	*1293.
186	BERBERIS.	BARBERRY.					
	1 vulgaris	common	Bushy pl.	yellow...	5,6	S.	49.
187	FRANKENIA.	SEA-HEATH.					
	1 levis	smooth	Salt mar.	flesh	7	P.	205.
	2 pulverulenta	powdery.....	Seacoast!	reddish	7,8	A.	2222.
188	PEPLIS.	PURSLANE.					
	1 Portula	water	Wat. pl.	red	7,8	A.	1211.

ORDER III. TRIGYNIA.

189	RUMEX.	DOCK.					
	*						
	1 sanguineus.....	bloody-veined	Sha. pla.	.....	7	P.	1533.
	2 crispus	curled	Rubble	.....	6,7	P.	1998.
	3 acutus.....	sharp	Wat. pl.	.....	7	P.	724.
	4 obtusifolius.....	broad-leaved	Rubble	.....	7,8	P.	1999.
	5 pulcher.....	fiddle	Grav. pa.	.....	8	P.	1576.
	6 maritimus	golden	Salt mar.	.....	7,8	P.	725.
	7 palustris	yellow marsh.....	Marshes	.....	7,8	P.	1932.
	8 aquaticus	great water	Riv. ban.	.....	7,8	P.	2104.
	9 digynus	mountain sorrel...	BogonM.	.....	6	P.	910.
	**						
	10 Acetosa	common sorrel....	Mea. pas.	.....	6	P.	127.
	11 Acetosella	sheep's sorrel	Grav. pa.	.....	6,7	P.	1674.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

LUZULA.

- L. hairy, acuminate: pan. cymose, double compound: Fl. clustered.
 L. hairy: spikes term. sessile and pedunc: caps. obtuse.
 L. somewhat hairy: spike racemose, nodding, compound at the base:
 caps acute.
 L. hairy: panicle cymose, erect: F. solitary: caps. sharp-pointed.

186. BERBERIS.

Fl. in clusters: spines 3-forked: serratures of the leaves bristly.

187. FRANKENIA.

- L. linear, clustered, ciliated at the base.
 L. obovate, abrupt, villous and mealy beneath.

188. PEPLIS.

Fl. mostly apetalous: L. obovate.

ORDER III. TRIGYNIA.

189. RUMEX.

* *Flowers hermaphrodite.*

Valves entire, oblong, one at least bearing a grain: L. cordate-lanceolate.

Valves ovate, entire, all grained: L. lanceolate, undulated, acute.

Valves oblong, somewhat toothed, all grained: L. cordate-oblong, acuminate: racemes leafy.

Valves toothed, one chiefly grained: radical leaves cordate, obtuse: stem rather rough.

Valves toothed, one chiefly grained: radical leaves fiddle-shaped: stem smooth, divaricated.

Valves deltoid, fringed with bristly teeth, grained: L. linear; whorls crowded.

Valves lanceolate, grained, toothed at the base: L. linear-lanceolate, whorls distant.

Valves ovate, entire, indistinctly grained: L. cordate-lanceolate, acute.

Valves ovate, entire, grainless: Fl. digynous.

** *Flowers dioecious.*

L. oblong, arrow-shaped: valves grained.

L. lanceolate, hastate: valves grainless.

CLASS VI. HEXANDRIA.

ORDER III. TRIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the flower.	Time of Flowering.	Duration.	Figure in English Botany.
190	TOFIELDIA.	TOFIELDIA.					
	1 palustris.....	Scottish.....	BogonM.	greenish	8	P.	536.
191	SCHEUCHZERIA.	SCHEUCHZERIA.					
	1 palustris.....	marsh	Sp. bogs!	brown...	6	P.	1801.
192	TRIGLOCHIN.	ARROW-GRASS					
	1 palustre	marsh	Wet.mea	greenish	7	P.	366.
	2 maritimum	sea	Salt mar.	greenish	5,8	P.	255.
193	COLCHICUM.	MEADOW-SAFFRON.					
	1 autumnale	common	Mead....	purple...	9	P.	{ 133. 1432.

ORDER V. POLYGYNIA.

194	ALISMA.	WATER-PLANTAIN.					
	1 Plantago	greater	Pools ...	purple...	7	P.	837.
	2 Damasonium ...	star-headed	Ditches	white ...	6,7	P.	1615.
	3 natans.....	floating	Alp. Lak!	white ...	7,8	P.	775.
	4 ranunculoides...	small	Tu. bogs	purple...	8	P.	326.

CLASS VI. HEXANDRIA.

ORDER III. TRIGYNIA.

SPECIFIC CHARACTER.

190. TOFIELDIA.

- 1 Petals obovate, obtuse.

191. SCHEUCHZERIA.

- 1

192. TRIGLOCHIN.

- 1 Caps. 3-celled, almost linear.
2 Caps. 6-celled, ovate.

193. COLCHICUM.

- 1 L. flat, lanceolate, erect.

ORDER V. POLYGYNIA.

194. ALISMA.

- L. ovate, acute : caps. obtusely triangular.
L. cordate-oblong : Fl. with 6-styles : caps. 6, awl-shaped, spreading
in a star.
L. elliptical, obtuse : pedunc. solitary : caps. striated.
L. linear-lanceolate : caps. 5-cornered, incurved, collected into globular
heads.

CLASS VII.

HEPTANDRIA.

ORDER I. MONOGYNIA.

195. TRIENTALIS. *Cal.* 7-leaved. *Cor.* 7-parted, equal, flat. *Berry*
1-celled, juiceless.

CLASS VII. HEPTANDRIA.

ORDER I. MONOGYNIA.

195

LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
TRIENTALIS.	TRIENTALIS.					
I europæa	chickweed	M. woods	white ...	5,6	P.	15.

CLASS VII. HEPTANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

195. TRIENTALIS.

L. lanceolate and entire.

642 *Journal of Interpersonal Violence* 26(4)

CLASS VIII.

OCTANDRIA.

ORDER I. MONOGYNIA.

* *Fl. complete.*

- 03 ACER. *Pct.* 5. *Cal.* 5-cleft, inferior. *Caps.* 1-seeded, winged.
 07 EPILOBIUM. *Pct.* 4. *Cal.* 4-cleft, superior. *Caps.* 4-celled. *Seeds*
 feathered.
 06 OENOTHERA. *Pct.* 4. *Cal.* 4-cleft, superior. *Caps.* 4-celled.
 Seed naked. *Anth.* linear.
 08 CHLORA. *Cor.* 8-parted. *Cal.* 8-leaved, inferior. *Caps.* 1-celled.
 09 VACCINIUM. *Cor.* 1-pet. *Cal.* 4-toothed, superior. *Seed* vessel
 a *Berry*.
 00 MENZIESIA. *Cor.* 1-pet. *Cal.* 1-leaved, inferior. *Seed* vessel a
 Capsule.
 01 ERICA. *Cor.* 1-pet. *Cal.* 4-leaved, inferior. *Seed* vessel a *Capsule*.
 Monotropa 1.

** *Fl. incomplete.*

- 02 DAPHNE. *Cal.* corolla-like, 4-cleft, inferior. *Berry* 1-seeded.
 (DIGYNIA.)

Polygona. Chrysosplenium. Scleranthus.

ORDER III. TRIGYNIA.

- 04 POLYGONUM. *Cal.* 5-parted, corolla-like, inferior. *Cor.* 0.
 Seed 1, naked.

ORDER IV. TETRAGYNIA.

- 06 ADOXA. *Cal.* half-inferior. *Cor.* superior, 4 or 5-cleft. *Caps.*
 covered with the calyx.
 05 PARIS. *Cal.* 4-leaved. *Pct.* 4. *Berry* superior.
 07 ELATINE. *Cal.* 4-leaved. *Pct.* 4. *Caps.* superior, 4-celled.
 Sagina 2.

CLASS VIII. OCTANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
196	OENOTHERA.	EVENING PRIMROSE.					
	1 biennis	common	San. sh.	yellow...	7,9	B.	1534.
197	EPILOBIUM.	WILLOW HERB.					
	1 angustifolium...	rose bay	Mead....	purple...	7	P.	1947.
	2 hirsutum	great hairy	Wat. pl.	pink ...	7	P.	838.
	3 parviflorum ...	small flowered ...	Wat. pl.	purple...	7	P.	795.
	4 montanum	broad smooth ...	Woods	purple...	7	P.	1177.
	5 roseum	pale smooth	Marshes!	rose.....	7	P.	693.
	6 tetragonum ...	square stalked ...	Marshes	purple...	7	P.	1948.
	7 palustre	marsh	Marshes	purple...	7	P.	346.
	8 alsinifolium ...	chickweed leaved	Sc. alps.	rose.....	7	P.	2000.
	9 alpinum	alpine.....	Alp. riv.	red	6,7	P.	2001.
198	CHLORA.	YELLOW WORT.					
	1 perfoliata	common.....	Chal. so.	yellow...	7,8	A.	60.
199	VACCINIUM.	BILBERRY.					
	*						
	1 Myrtillus	bleaberry	Heaths	flesh	5	S.	456.
	2 uliginosum.....	great	M. heath	flesh ...	4,5	S.	581.
	**						
	3 Vitis Idæa.....	cowberry	M. heath	flesh ...	6	S.	598.
	4 Oxycoccus.....	cranberry	Tu. bogs	rose.....	6	P.	319.
200	MENZIESIA.	MENZIESIA.					
	1 cœrulea	Scottish.....	Heaths	red	6,7	S.	2469.
	2 Polifolia.....	Irish	Mount.	purple...	6,7	S.	*35.

SPECIFIC CHARACTER.

196. OENOTHERA.

L. ovate-lanceolate, flat : stem rough, somewhat hairy : stam. regular : pet. undivided.

197. EPILOBIUM.

L. scattered, linear-lanceolate, veined, smooth : Fl. unequal : stam. declined.

L. half embracing the stem, ovate-lanceolate, hairy : stem much branched, root creeping.

L. sessile, lanceolate, pubescent : stem nearly simple, woolly : root fibrous.

L. petioled, ovate, toothed : stem cylind. stig. 4-parted.

L. petioled, ovate, toothed ; stem erect, obscurely 4-angled : stig. undivided.

L. lanceolate, finely toothed : stem square : stig. undivided

L. sessile, lanceolate, somewhat denticulated : stem cylind : stig. undivided.

L. petioled, ovate, acute, toothed : stig. undivided, root creeping : stem decumbent, 4-angular.

L. opposite, elliptic-lanceolate, obtuse, mostly entire : stem decumbent at the base : few-flow.

198. CHLORA.

L. perfoliate.

199. VACCINIUM.

* *Leaves deciduous.*

Pedunc. 1-flow : L. ovate, serrated, deciduous : stem angular.

Pedunc. 1-flow : L. obovate, very entire, smooth : branch cylind.

** *Leaves evergreen.*

Racemes term. nodding : L. obovate, revolute, denticulated, dotted beneath.

L. ovate, very entire, revolute, acute : stems creeping, filiform, smooth.

200. MENZIESIA.

L. linear, obtuse, with cartilaginous teeth : pedunc. term. aggregate, simple : Fl. 5-cleft, decandrous

L. ovate, revolute, downy beneath : racemes term. leafy, many flow. *Erica Dabeoci, Eng. Bot.*

CLASS VIII. OCTANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
201	ERICA.	HEATH.					
	1 vulgaris	common	Heaths	rose.....	6,7	S.	1013.
	2 Tetralix	cross-leaved	M.heath	flesh ...	7,8	S.	1014.
	3 cinerea	fine-leaved.....	Heaths	purple ..	7,8	S.	1015.
	4 vagans	Cornish	Heaths	red	7,8	S.	3.
202	DAPHNE.	MEZEREON.					
	1 Mezerem	spurge-olive	Woods	rose.....	3,4	S.	1381.
	2 Laureola	spurge-laurel ...	Woods	green ...	3	S.	119.
203	ACER.	MAPLE.					
	1 Pseudo-plantanus §	sycamore	Hedges	green ...	5	T.	303.
	2 campestre	common.....	Hedges	green ...	5,6	T.	304.

ORDER III. TRIGYNIA.

204	POLYGONUM.	PERSICARIA.					
	*						
	1 amphibium	amphibious	Ditches	rose.....	7,8	P.	436.
	2 Persicaria	spotted	Ditches	rose.....	7,8	A.	756.
	3 lapathifolium ...	pale-flowered.....	Dung hill	greenish	7,8	A.	1382.
	4 Hydropiper ...	biting.....	Wat. pl.	red	9	A.	989.
	5 minus	small creeping ...	Wat.com.	red	9	A.	1043.
	**						
	6 Bistorta	snakeweed.....	Mea. pas.	rose.....	6	P.	509.
	7 viviparum	alpine bistort.....	Alp. pas.	rose.....	6,7	P.	669.
	8 aviculare.....	knotgrass	Rubble	greenish	4-10	A.	1252.
	9 Fagopyrum § ...	buck-wheat	Corn fi.	flesh ...	7,8	A.	1044.
	10 Convolvulus ...	black bind-weed	Corn fi.	white ...	6,7	A.	941.

CLASS VIII. OCTANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

201. ERICA.

- Anth. bearded, concealed: style protruded: cor. 4-parted, shorter than the calyx: L. opposite, spurred.
 Anth. bearded: style concealed: cor. ovate: L. in fours, ciliated: Fl. in round heads.
 Anth. crested: style a little protruded: stig. capitate: cor. ovate: L. in threes.
 Anth. beardless and style protruded: cor. bell-shaped: L. in fours: Fl. axillary, crowded.

202. DAPHNE.

- Fl. sessile in threes on the stems: L. lanceolate, deciduous.
 Racemes axillary, about 5-flow: L. lanceolate, smooth.

203. ACER.

- L. 5-lobed, unequally serrated: racemes pendulous.
 L. lobed, obtuse, notched: racemes erect.

ORDER III. TRIGYNIA.

204. POLYGONUM.

* *Digynous.*

- Fl. pentandrous, styles 2, united half-way up: spike ovate.
 Fl. hexandrous: styles 2, united half-way up: spikes ovate-oblong, erect: pedunc. smooth: stipulæ fringed.
 Fl. hexandrous, digynous: pedunc. rough: stipulæ not fringed: seeds concave on both sides.
 Fl. hexandrous: styles 2, united half-way up: L. lanceolate, undulated, spotless: spikes filiform, nodding: stem erect.
 Fl. hexandrous: style undivided: L. linear-lanceolate, flat: spikes filiform, almost erect: stem rooting at the base.

*** *Trigynous.*

- Stem quite simple, single spiked: L. ovate, undulated, decurrent into the petiole.
 Stem quite simple, single spiked: L. lanceolate, margin revolute.
 Fl. axillary: L. elliptic-lanceolate, margin rough: nerves of the stipulæ remote: stems procumb. herbaceous.
 L. heart-arrowshaped: stem almost upright, smooth: angles of the seeds equal.
 L. heart-arrowshaped: stem angular, twining: segments of the calyx obtusely keeled.

CLASS VIII. OCTANDRIA.

ORDER IV. TETRAGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
205	PARIS.	HERB PARIS.					
	I quadrifolia	common.....	Woods	green ...	5	P.	7.
206	ADOXA.	MOSCHATELL.					
	I Moschatellina	tuberous.....	Woods	green ...	4,5	P.	453.
207	ELATINE.	WATERWORT.					
	I Hydropiper ...	small	Mar. lak !	white ...	8	A.	955.

CLASS VIII. OCTANDRIA.

ORDER IV. TETRAGYNIA.

SPECIFIC CHARACTER.

205. PARIS.

Stem simple: L. four: Fl. solitary.

206. ADOXA.

L. biternate, lobed.

207. ELATINE.

L. in pairs.

CLASS IX.

ENNEANDRIA.

ORDER III. HEXAGYNIA.

208. BUTOMUS. <i>Cal.</i> 0. <i>Pet.</i> 6. <i>Caps.</i> 6, many-seeded.
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CLASS IX. ENNEANDRIA.

ORDER III. HEXAGYNIA.

208

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
BUTOMUS. FLOWERING RUSH.						
1 umbellatus.....	common.....	Ditches	rose.....	6,7	P.	651.

CLASS IX. ENNEANDRIA.

ORDER III. HEXAGYNIA.

SPECIFIC CHARACTER.

208. BUTOMUS.

I

CLASS X.

DECANDRIA.

ORDER I. MONOGYNIA.

* *Fl. many-petalled.*

209 MONOTROPA. *Pet.* 10; 5 outer ones gibbous at the base.

212 PYROLA. *Pet.* 5. *Antheræ* with 2-pores.

** *Fl. 1-pet. equal.*

210 ANDROMEDA. *Cor.* ovate. *Caps.* 5-celled.

211 ARBUTUS. *Cor.* ovate, pellucid at the base. *Berry* 5-celled.
Vaccinium 1, 2. *Menziesia* 1.

ORDER II. DIGYNIA.

215 SCLERANTHUS. *Cor.* 0. *Cal.* 1-leaved. *Seeds* 2.

213 CHRYSOSPLENIUM. *Cor.* 0. *Cal.* coloured. *Caps.* 2-beaked, many-seeded.

214 SAXIFRAGA. *Pet.* 5. *Cal.* 5-parted. *Caps.* 2-beaked, many-seeded.

216 SAPONARIA. *Pet.* 5. *Cal.* 1-leaved, naked at the base. *Caps.* oblong.

217 DIANTHUS. *Pet.* 5. *Cal.* 1-leaved, scaly at the base. *Caps.* oblong.

ORDER III. TRIGYNIA.

221 ARENARIA. *Caps.* 1-celled. *Pet.* entire, spreading.

220 STELLARIA. *Caps.* 1-celled. *Pet.* 2-parted, spreading.

222 CHERLERIA. *Caps.* 1-celled. *Nectariferous Glands* 5 at the base of the stamina. *Pet.* 0.

218 CUCUBALUS. *Berry* 1-celled. *Pet.* 2-cleft, with claws.

219 SILENE. *Caps.* imperfectly 3-celled. *Pet.* 2-cleft, with claws.
Cal. 1-leaved.

CLASS X. DECANDRIA.

ORDER IV. PENTAGYNIA.

- 223 COTYLEDON. *Caps.* 5. *Nect.* of 5 scales at the base of the germen. *Cor.* 1-pet.
- 224 SEDUM. *Caps.* 5. *Nect.* of 5 scales at the base of the germen. *Cor.* 5-pet.
- 225 OXALIS. *Caps.* 5-celled, angular. *Seeds* 2, coated. *Pct.* united at the base.
- 227 LYCHNIS. *Caps.* 5 or 1-celled, many-seeded. *Cal.* tubular, membranous.
- 226 AGROSTEMMA. *Caps.* 1-celled. *Cal.* tubular, coriaceous.
- 228 CERASTIUM. *Caps.* 1-celled. *Pct.* 2-cleft. *Cal.* 5-leaved.
- 229 SPERGULA. *Caps.* 1-celled. *Pct.* entire. *Cal.* 5-leaved.
- Stellaria* 6, 7.

CLASS X. DECANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
209	MONOTROPA.	BIRD'S-NEST.					
	1 Hypopithys ...	yellow	Woods	straw ...	6	P.	69.
210	ANDROMEDA.	ANDROMEDA.					
	1 polifolia	marsh.....	Tu. bogs	flesh ...	6	S.	713.
211	ARBUTUS.	ARBUTUS.					
	1 Unedo	strawberry-tree	Ir. rocks	white ...	9	S.	2377.
	2 alpina.....	black alpine	Sc. moun!	white ...	5	S.	2030.
	3 Uva-ursi	red trailing	Alp. hea.	flesh ...	6	S.	714.
212	PYROLA.	WINTER-GREEN.					
	1 rotundifolia ...	round-leaved	Woods !	white ...	7	P.	213.
	2 media.....	intermediate	Woods	white ...	6	P.	1945.
	3 rosea	rose-coloured.....	Woods	rose ...	7	P.	2543.
	4 minor	lesser	M. woods	reddish	7	P.	158.
	5 secunda	serrated.....	M. woods	white ...	7	P.	517.
	6 uniflora	single-flowered ...	Alp. wo.!	white ...	7	P.	146.

ORDER II. DIGYNIA.

213	CHRYSOSPLENIUM.	GOLDEN SAXIFRAGE.					
	1 alternifolium ...	alternate-leaved	Wt. sh. p!	yellow...	5	P.	54.
	2 oppositifolium	opposite-leaved...	Wet sh. p	yellow...	5	P.	490.
214	SAXIFRAGA.	SAXIFRAGE.					
	1 stellaris	hairy	Alp. riv.	white ...	6,7	P.	167.
	2 nivalis	clustered alpine	Sc. alps.	white ...	7	P.	440.
	3 umbrosa.....	London pride.....	Mount.	flesh ...	6	P.	663.
	4 hirsuta	hirsute	Ir. mount.	flesh ...	6	P.	2322.
	5 Geum.....	kidney-leaved ...	Ir. mount.	white ...	6	P.	1561.

CLASS X. DECANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

200. MONOTROPA.

- 1 Fl. lateral, with 8-stamens : term. with 10.

210. ANDROMEDA.

- 1 Pedunc. aggregate, term : L. alternate, lanceolate, revolute, glaucous beneath.

211. ARBUTUS.

- 1 Stem arboreous : L. smooth, obtusely serrated : pan. term : berries many-seeded.
 2 Stems procumb. : L. wrinkled, serrated.
 3 Stems procumb. : L. very entire.

212. PYROLA.

- 1 Stamens ascending : pistil declining : raceme many-flow.
 2 Stam. straight : style curved downwards, elongated : stalk spiral : raceme many-flow.
 3 Stam. and pist. straight : Fl. racemous, drooping : pet. round, blunt : stalk straight.
 4 Stam. and pistil straight : fl. racemous, 2-seeded.
 5 Raceme unilateral.
 6 Peduncle 1-flowered.

ORDER II. DIGYNIA.

213. CHRYSOSPLENIUM.

- 1 L. alternate.
 2 L. opposite.

214. SAXIFRAGA.

* *Leaves undivided : stem almost naked.*

- 1 L. serrated : stem naked, branched : petals acute : caps. superior.
 2 L. obovate, serrated : stem naked : Fl. clustered : caps half-beneath.
 3 L. obovate, bluntish, cartilaginous-crenate : stem naked, paniced : caps. superior.
 4 L. oval, somewhat heart-shaped, blunt, with cartilaginous notches : stem naked, paniced : caps. superior.
 5 L. round, kidney-shaped, toothed, hairy : stem naked, paniced : caps. superior.

CLASS X. DECANDRIA.

ORDER II. DIGYNIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
SAXIFRAGA.	SAXIFRAGE.					
6 oppositifolia ...	purple	Alp. roc.	purple...	4	P.	9.
7 Hirculus	yellow marsh ...	Tu. bogs!	yellow...	8	P.	1009.
8 aizoides	yellow mountain	Alp. riv.	yellow...	7,8	P.	39.
9 granulata	white	Mea. pas.	white ...	5	P.	500.
10 cernua	drooping bulbous	Sc. alps.	white ...	7	P.	664.
11 rivularis.....	alpine brook	Sc. alps.	white ...	6,7	P.	2275.
12 tridactylites ...	rue-leaved.....	Walls ...	white ...	5	A.	501.
13 cæspitosa	tufted alpine	W. alps!	cream ...	6	P.	794.
14 moschata	musky alpine.....	Sc. alps!	yellow...	6,7	P.	2314.
15 palmata	palmate	W. alp.	white ...	5,6	P.	455.
16 hirta	trifid hairy.....	Sc. alps.	white ...	5,6	P.	2291.
17 platypetala ...	broad petalled ...	Alp. roc.	white ...	6	P.	2276.
18 elongella	long stalked... ..	Sc. alp.	white ...	6	P.	2277.
19 hypnoides	mossy cushion ...	Alp. roc.	white ...	5,6	P.	454.
20 pedatifida	pedatifid	Sc. alps.	white ...	5,6	P.	2278.
215 SCLERANTHUS.	KNAWEL.					
1 annuus	annual	San. fi.	green ...	7	A.	351.
2 perennis.....	perennial	San. hea.!	green ...	10,11	P.	352.
216 SAPONARIA.	SOAPWORT.					
1 officinalis	common	Hedges	blush...	8,9	P.	1060.

SPECIFIC CHARACTER.

SAXIFRAGA.

** *Leaves undivided: stem leafy.*

Stem-leaves ovate, opposite, imbricated; uppermost ciliated.

Stem-leaves lanceolate, alternate, entire, smooth: stem erect: germen ovate, superior.

Stem-leaves linear, alternate, dentate-ciliated: stem decumbent at the base: germen depressed, half-inferior.

*** *Leaves lobed.*

L. reniform, lobed: stem panicled: root granulated.

L. palmate, petioled: stem bulbiferous: germen superior: petals obtuse.

L. palmate, petioled: uppermost spatulate: stem few-flow: root fibrous: germen half-inferior.

L. wedge-shaped, 3 or 5-cleft, alternate: uppermost undivided: stem panicled: germen inferior.

Radical leaves aggregate, fleshy, linear, entire or 3-cleft, nerved beneath: stem nearly naked, about 2-flow.

Rad. leaves aggregate, membranous, linear-lanceolate, entire or 3-cleft, triply-nerved: stem nearly naked, about 2-flow.

L. hairy, palmate, 5 or 3-cleft: stem leafy, panicled: petal roundish.

L. hairy, 3 or 5-cleft, lobes elliptic, acute: shoots ascending: pet. obovate, triply nerved.

L. in 3 or 5 bristle-pointed segments: shoots procumbent: stem leafy: pet. obovate, nearly orbicular.

L. in 3 or 5 bristle-pointed segments, fringed: pedunc. solitary, long, 1-flow: germ. inferior.

L. linear, entire or 3-cleft: shoots procumbent: stem almost naked: petals elliptic-elong.

Rad. leaves kidney-shaped, pedate 7-lobed: Fl. somewhat cymose: pet. linear-obovate.

215. SCLERANTHUS.

Cal. of the fruit spreading, acute: stems spreading.

Cal. of the fruit closed, obtuse: stems procumbent.

216. SAPONARIA.

Cal. cylindrical: L. elliptic-lanceolate.

CLASS 'X. DECANDRIA.

ORDER II. DIGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
217	DIANTHUS.	PINK.					
	*						
	1 Armeria.....	Deptford	Grav. pa.	red	7,8	A.	317.
	2 prolifer	proliferous.....	Grav. pa.!	purple...	7	A.	956.
	洋紫						
	3 Caryophyllus...	clove	Walls...	flesh	7	P.	214.
	4 deltoides	maiden	Grav. pa.	flesh ...	7-10	P.	61.
	紫紫						
	5 cæsius	mountain	Rocks !	flesh ...	6,7	P.	62.

ORDER III. TRIGYNIA.

218	CUCUBALUS.	BERRY CHICKWEED.					
	1 baccifer	black-fruited	Hedges !	white ...	6,7	P.	1577.
219	SILENE.	CATCHFLY.					
	1 anglica	English	San. fi.	white ...	7	A.	1178.
	2 quinquevulnera	variegated.....	San. fi.	blood ...	6,7	A.	86.
	3 nutans	Nottingham	Cal. roc.	white ...	6,7	P.	465.
	4 inflata.....	bladder	Corn fi.	white ...	7	P.	*164.
	5 maritima	sea	Sea sh.	white ...	8,9	P.	957.
	6 Otites	Spanish	Grav. so.!	yellowish	7,8	P.	*85.
	7 conica.....	corn	San fi. ...	rose.....	7	A.	922.
	8 noctiflora	night-flowering...	San fi.	cream ...	7	A.	291.
	9 Armeria§	lobels	corn fi.!	rose.....	7,8	A.	1398.
	10 acaulis	moss	Sc. alps	rose.....	6,7	P.	1081.

CLASS X. DECANDRIA.

ORDER II. DIGYNIA.

SPECIFIC CHARACTER.

217. DIANTHUS.

* *Flowers aggregate.*

- 1 Fl. fascicled : cal. scales lanceolate, downy, equal to the tube.
- 2 Fl. capitate : cal. scales ovate, blunt, beardless, membranous, surpassing the tube.

*** *Flowers solitary : stem many-flow.*

- 3 Cal. scales almost rhomboid, very short : pet. crenate, beardless.
- 4 Cal. scales mostly 2, ovate-lanceolate, acute : L. rather obtuse, somewhat pubescent : pet. crenate.

*** *Stem 1-flowered, herbaceous.*

- 5 Cal. scales roundish, short : pet. crenate, pubescent : L. rough in the margin.

ORDER III. TRIGYNIA.

218. CUCUBALUS.

- 1

219. SILENE.

- 1 hairy, viscid : pet. notched : Fl. lateral, erect, alternate : lower ones when in fruit, divaricated or reflexed.
- 2 hairy : pet. roundish, very entire : Fl. lateral, alternate, and fruit erect.
- 3 Fl. pan. 1-rowed, drooping : pet. cloven, segments linear : L. lanceolate, pubescent.
- 4 Fl. pan. drooping : pet. semibifid, almost naked : cal. smooth, with reticulated veins, stem erect. *Cucubalus Behen, Eng. Bot.*
- 5 Fl. mostly solitary, term. pet. bifid, crowned : cal. smooth, with reticulated veins : stem decumb.
- 6 Fl. pan. dioicous : pet. linear, undivided, naked. *Cucubalus, Eng. Bot.*
- 7 Stem dichot : pet. bifid, crowned : L. soft : cal. in fruit conical, with 30 furrows.
- 8 Stem dichot : pet. cloven, bluntly crowned : cal. with 10-angles, teeth as long as its tube.
- 9 Pan. dichot. clustered, many-flow : pet. notched, acutely crowned : L. upper cordate, smooth.
- 10 Stemless : L. linear, ciliated at the base : pedunc. solitary, 1-flow : pet. crowned.

CLASS X. DECANDRIA.

ORDER III. TRYGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
220	STELLARIA.	STITCHWORT.					
	1 nemorum	wood	Moi. wo.	white ...	5,6	P.	92.
	2 media	com. chickweed...	Cult. gr.	white ...	4-10	A.	537.
	3 holostea	greater	Woods	white ...	5	P.	511.
	4 graminea	lesser.....	Hed. ban.	white ...	5	P.	803.
	5 glauca	glaucous marsh...	Moi. mea.	white ...	6,7	P.	825.
	6 uliginosa	bog.....	Rivulets	white ...	6	A.	1074.
	7 cerastoides ...	alpine.....	Sc. alps.	white ...	6	P.	911.
	8 scapigera	many-stalked.....	Sc. rivul.	white ...	6	P.	1269.
221	ARENARIA.	SANDWORT.					
	1 peploides	sea	Sea shore	white ...	6,7	P.	139.
	2 trinervis.....	plantain-leaved ...	Woods	white ...	5,6	A.	1483.
	3 serpyllifolia ...	thyme leaved ...	Walls...	white ...	6,7	A.	923.
	4 rubra	purple	San. fi...	purple ..	7,8	A.	852.
	5 marina	sea spurrey	Sea coast	purple...	6,7	A.	958.
	6 tenuifolia	fine leaved.....	San. fi...	white ...	6	A.	219.
	7 verna	vernal	Mount...	white ...	5-8	P.	512.
	8 fastigiata	flat topped.....	Sc. moun.	white ...	6	A.	1744.
	9 ciliata.....	fringed	Ir. moun.	white ...	8	P.	1745.
222	CHERLERIA.	CHERLERIA.					
	1 sedoides.....	dwarf.....	Sc. alps	yellowish	7	P.	1212.

ORDER IV. PENTAGYNIA.

223	COTYLEDON.	NAVELWORT.					
	1 Umbilicus	common.....	Sha. roc.	yellowish	6,7	P.	325.

CLASS X. DECANDRIA.

ORDER III. TRIGYNIA.

SPECIFIC CHARACTER.

220. STELLARIA.

- 1 L. lower cordate, petioled; upper ovate, sessile: pan. dichot.
- 2 L. ovate: stems procumb. with a hairy, alternate, lateral line.
- 3 L. lanceolate, serrulated: pet. bifid: cal. nerveless.
- 4 L. linear-lanceolate, very entire: pan. term. divaricated: cal. 3-nerved, nearly equal to the petals.
- 5 L. linear-lanceolate, very entire, glaucous: pedunc. erect: cal. 3-nerved, shorter than the petals.
- 6 L. elliptic-lanceolate, very entire, callous at the apex: Fl. irregularly paniced, lateral: pet. shorter than the calyx.
- 7 L. elliptic-oblong, obtuse: stems generally 2-flow: cal. 1-nerved, pubescent.
- 8 Stem shorter than the pedunc: L. linear-lanceolate, rough-edged: cal. 3-nerved, the length of the petals.

221. ARENARIA.

- 1 L. ovate, acute, fleshy: cal. obtuse, nerveless.
- 2 L. ovate, acute, petioled, nerved: cal. keel rough, indistinctly 3-nerved.
- 3 L. ovate, almost sessile, rough: cal. hairy, 5-nerved.
- 4 L. linear, mucronulated: stipulæ membranous, sheathing: seeds compressed, angular, roughish.
- 5 L. semicylind. fleshy, awnless: stipulæ membranous, sheathing: seeds compressed, marginate, smooth.
- 6 L. awl-shaped, acute: stem paniced: caps. erect, 3-valved: pet. lanceolate, shorter than the calyx.
- 7 L. awl-shaped, rather obtuse: stem paniced: pet. obovate, longer than the cal: cal. 3-nerved, nerves remote, equal.
- 8 L. awl-shaped: stem erect corymbose: pet. very short: cal. nerves lateral, dilated.
- 9 L. spatulate, fringed at the base: stems prostrate, branched: Fl. term. solitary: cal. 5 or 7-nerved.

222. CHERLERIA.

ORDER IV. PENTAGYNIA.

223. COTYLEDON.

- L. peltate, crenate: stem spikd, mostly simple: Fl. pendulous, root tuberous.

CLASS X. DECANDRIA.

ORDER IV. PENTAGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation	Colour of the flower.	Time of Flowering.	Duration.	Figure in English Botany.
	COTYLEDON.	NAVELWORT.					
	2 lutea	greater yellow ...	Moi.roc.!	yellow...	6	P.	1522.
224	SEDUM.	STONECROP.					
	1 Telephium	Orpine	Bor. of fi.	purple...	8	P.	1319.
	2 dasphyllum ...	thick-leaved	Walls...	white ...	6	P.	656.
	3 anglicum.....	English	Rocks...	white ...	7	A.	171.
	4 acre	biting.....	Walls...	yellow...	6	P.	839.
	5 sexangulare ...	insipid	Walls !	yellow...	6,7	P.	1946.
	6 villosum	hairy	Mo.al.pl.	white ...	6,7	P.	394.
	7 album	white	Rocks !	white ...	7	P.	1578.
	8 reflexum	yellow	Walls...	yellow...	7	P.	695.
	9 glaucum	glaucous	Bar. san.	yellow...	7,8	P.	2477.
	10 rupestre	rock	Rocks !	yellow...	7	P.	170.
	11 Forsterianum...	Forster's	Wel.roc.	yellow...	7	P.	1802.
225	OXALIS.	WOOD-SORREL.					
	1 Acetosella	common.....	Groves	flesh ...	4,5	P.	762.
	2 corniculata.....	yellow procumb.	Sha. roc.	yellow...	5-10	P.	1726.
226	AGROSTEMMA.	COCKLE.					
	1 Githago	corn	Corn fi.	purple...	6,7	A.	741.
227	LYCHNIS.	CAMPION.					
	1 Flos-Cuculi ...	ragged robin	Moi.mea.	rose.....	6	P.	573.
	2 Viscaria	German catchfly	Rocks !	rose.....	5,6	P.	788.
	3 alpina	alpine.....	Se. roc.	rose.....	6,7	P.	2254.
	4 dioica	red or white	W.o.&fi.	red or w.	5-9	P.	1579-80.

SPECIFIC CHARACTER.

COTYLEDON.

L. crenate-toothed : lower ones peltate : stem spiked, mostly simple :
Fl. erect : root creeping.

224. SEDUM.

* *Leaves flat.*

L. flattish, serrated : corymb. leafy : stem erect.

** *Leaves cylindrical.*

L. opposite, ovate, obtuse, fleshy : stem weak : pan. glutinous.

L. alternate, ovate, fleshy, gibbous, sessile : cyme bifid, smooth.

L. alternate, somewhat ovate, fleshy, gibbous, sessile : cyme trifid, leafy.

L. subternate, somewhat cylind. obtuse, fleshy, sessile, spreading, imbricated in 6-rows : cyme trifid, leafy.

L. alternate, linear, flattish : somewhat hairy as well as the pedunc : stem erect.

L. oblong, cylind. obtuse, spreading, smooth : pan. much branched.

L. subulate, scattered, loose at the base ; lowermost recurved : Fl. somewhat cymose.

L. subulate, scattered, loose at the base ; those of the branches filiform : Fl. cymose : cal. lanceolate.

L. subulate, erect, 5-rowed, crowded, loose at the base : Fl. somewhat cymose.

L. subulate, spreading, clustered in many rows, loose at the base : Fl. cymose : cal. short, rounded.

225. OXALIS.

Scape 1-flow : L. ternate, obcordate, hairy : root scaly-jointed.

Stem branched, diffuse : pedunc. umbelliferous : petioles with stipulæ at the base.

226. AGROSTEMMA.

Hairy : cal. surpassing the corolla : petals entire, naked.

227. LYCHNIS.

Pet. 4-cleft : fruit roundish, 1-celled.

Pet. undivided : fruit 5-celled.

Pet. bifid : Fl. corymbose : L. linear-lanceolate.

Fl. dioicous : fruit 1-celled.

CLASS X. DECANDRIA.

ORDER IV. PENTAGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
228	CERASTIUM. MOUSE-EAR CHICK WEED.						
	1 vulgatum	broad leaved	San. pl.	white ...	4,5	A.	789.
	2 viscosum.....	narrow leaved ...	Pasture	white ...	5-9	P.	790.
	3 semidecandrum	little	Walls...	white ...	4,5	A.	1630.
	4 tetrandrum.....	tetrandrous	San. sh.	white ...	5,6	A.	*166.
	5 arvense	field	Corn fi.	white ...	5-8	P.	93.
	6 alpinum	alpine.....	W. alps	white ...	6,7	P.	472.
	7 latifolium	broad rough	W. alp	white ...	6	P.	473.
	8 aquaticum	water.....	Wat. pl.	white ...	7	P.	538.
	SPERGULA. SPURRY.						
229	1 arvensis	rough seeded corn	San. fi.	white ...	7,8	A.	1535.
	2 pentandra	smooth seeded corn	San. fi.	white ...	6	A.	1536.
	3 nodosa	knotted	San. hea	white ...	7,8	P.	694.
	4 saginoides	smooth awl shaped	Sc. alps	white ...	6	P.	2105.
	5 subulata	ciliated awl shaped	San. hea.	white ...	7,8	P.	1082.

SPECIFIC CHARACTER.

228. CERASTIUM.

Hairy, viscid, tufted: L. ovate: pet. equal to the cal: Fl. longer than their peduncles.

Hairy, viscid, diffuse: L. lanceolate-oblong.

Hairy, viscid: Fl. pentandrous: pet. notched.

Hairy, somewhat viscid: Fl. 4-cleft, tetrandrous: pet. bifid, shorter than the calyx. *Sagina cerastoides*, Eng. Bot.

L. linear-lanceolate, obtuse, fringed at the base: pet. twice as long as the calyx.

L. elliptical, naked or hairy: pan. dichotomous, few-flow. furnished with bractea: caps. oblong, recurved.

L. elliptical, rough: pedunc. term. simple, mostly solitary: caps. ovate.

L. cordate, sessile: pedunc. lateral, solitary, fruit drooping: caps. ovate, mouth 5-toothed.

229. SPERGULA.

L. verticillate: pedunc. of the fruit, reflexed: seeds kidney-shaped, rough.

L. verticillate: Fl. pentandrous: seeds depressed, winged, smooth.

L. opposite, subulate, smooth: uppermost tufted: cal. nerveless.

L. opposite, subulate, awnless, naked: pedunc. solitary, very long, smooth.

L. opposite, subulate, awned, fringed: pedunc. solitary, very long, somewhat hairy.

No.		Date		Description		Amount	
1		1880	Jan 1	Balance		100.00	
2		1880	Feb 1	Interest		1.00	
3		1880	Mar 1	Interest		1.00	
4		1880	Apr 1	Interest		1.00	
5		1880	May 1	Interest		1.00	
6		1880	Jun 1	Interest		1.00	
7		1880	Jul 1	Interest		1.00	
8		1880	Aug 1	Interest		1.00	
9		1880	Sep 1	Interest		1.00	
10		1880	Oct 1	Interest		1.00	
11		1880	Nov 1	Interest		1.00	
12		1880	Dec 1	Interest		1.00	
13		1880	Jan 1	Interest		1.00	
14		1880	Feb 1	Interest		1.00	
15		1880	Mar 1	Interest		1.00	
16		1880	Apr 1	Interest		1.00	
17		1880	May 1	Interest		1.00	
18		1880	Jun 1	Interest		1.00	
19		1880	Jul 1	Interest		1.00	
20		1880	Aug 1	Interest		1.00	
21		1880	Sep 1	Interest		1.00	
22		1880	Oct 1	Interest		1.00	
23		1880	Nov 1	Interest		1.00	
24		1880	Dec 1	Interest		1.00	
25		1880	Jan 1	Interest		1.00	
26		1880	Feb 1	Interest		1.00	
27		1880	Mar 1	Interest		1.00	
28		1880	Apr 1	Interest		1.00	
29		1880	May 1	Interest		1.00	
30		1880	Jun 1	Interest		1.00	
31		1880	Jul 1	Interest		1.00	
32		1880	Aug 1	Interest		1.00	
33		1880	Sep 1	Interest		1.00	
34		1880	Oct 1	Interest		1.00	
35		1880	Nov 1	Interest		1.00	
36		1880	Dec 1	Interest		1.00	
37		1880	Jan 1	Interest		1.00	
38		1880	Feb 1	Interest		1.00	
39		1880	Mar 1	Interest		1.00	
40		1880	Apr 1	Interest		1.00	
41		1880	May 1	Interest		1.00	
42		1880	Jun 1	Interest		1.00	
43		1880	Jul 1	Interest		1.00	
44		1880	Aug 1	Interest		1.00	
45		1880	Sep 1	Interest		1.00	
46		1880	Oct 1	Interest		1.00	
47		1880	Nov 1	Interest		1.00	
48		1880	Dec 1	Interest		1.00	
49		1880	Jan 1	Interest		1.00	
50		1880	Feb 1	Interest		1.00	
51		1880	Mar 1	Interest		1.00	
52		1880	Apr 1	Interest		1.00	
53		1880	May 1	Interest		1.00	
54		1880	Jun 1	Interest		1.00	
55		1880	Jul 1	Interest		1.00	
56		1880	Aug 1	Interest		1.00	
57		1880	Sep 1	Interest		1.00	
58		1880	Oct 1	Interest		1.00	
59		1880	Nov 1	Interest		1.00	
60		1880	Dec 1	Interest		1.00	
61		1880	Jan 1	Interest		1.00	
62		1880	Feb 1	Interest		1.00	
63		1880	Mar 1	Interest		1.00	
64		1880	Apr 1	Interest		1.00	
65		1880	May 1	Interest		1.00	
66		1880	Jun 1	Interest		1.00	
67		1880	Jul 1	Interest		1.00	
68		1880	Aug 1	Interest		1.00	
69		1880	Sep 1	Interest		1.00	
70		1880	Oct 1	Interest		1.00	
71		1880	Nov 1	Interest		1.00	
72		1880	Dec 1	Interest		1.00	
73		1880	Jan 1	Interest		1.00	
74		1880	Feb 1	Interest		1.00	
75		1880	Mar 1	Interest		1.00	
76		1880	Apr 1	Interest		1.00	
77		1880	May 1	Interest		1.00	
78		1880	Jun 1	Interest		1.00	
79		1880	Jul 1	Interest		1.00	
80		1880	Aug 1	Interest		1.00	
81		1880	Sep 1	Interest		1.00	
82		1880	Oct 1	Interest		1.00	
83		1880	Nov 1	Interest		1.00	
84		1880	Dec 1	Interest		1.00	
85		1880	Jan 1	Interest		1.00	
86		1880	Feb 1	Interest		1.00	
87		1880	Mar 1	Interest		1.00	
88		1880	Apr 1	Interest		1.00	
89		1880	May 1	Interest		1.00	
90		1880	Jun 1	Interest		1.00	
91		1880	Jul 1	Interest		1.00	
92		1880	Aug 1	Interest		1.00	
93		1880	Sep 1	Interest		1.00	
94		1880	Oct 1	Interest		1.00	
95		1880	Nov 1	Interest		1.00	
96		1880	Dec 1	Interest		1.00	
97		1880	Jan 1	Interest		1.00	
98		1880	Feb 1	Interest		1.00	
99		1880	Mar 1	Interest		1.00	
100		1880	Apr 1	Interest		1.00	

CLASS XI.

DODECANDRIA.

ORDER I. MONOGYNIA.

- 0. ASARUM. *Cor.* 0. *Cal.* 3-cleft, superior. *Caps.* 6-celled.
- 1. LYTHRUM. *Pet.* 6. *Cal.* 12-cleft, inferior.

ORDER II. DIGYNIA.

- 2. AGRIMONIA. *Pet.* 5, inserted in the calyx. *Seeds* 2, in the bottom of the calyx.

ORDER III. TRIGYNIA.

- 3. RESEDA. *Pet.* many-cleft. *Caps.* 1-celled, gaping.
- 4. EUPHORBIA. *Nect.* peltate. *Caps.* 3-grained, stalked.

(TETRAGYNIA.)

Tormentilla 1.

ORDER VI. DODECAGYNIA.

- 5. SEMPERVIVUM. *Pet.* 12. *Cal.* 12-parted. *Caps.* 12.

CLASS XI. DODECANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
230	ASARUM.	ASARABACCA.					
	I europæum	common	Woods !	purple...	5	P.	1083.
231	LYTHRUM.	LYTHRUM.					
	1 Salicaria.....	purple	Riv. ban.	purple...	7,8	P.	1061.
	2 hyssopifolium...	hyssop leaved ...	Wat pl.!	purple...	8	A.	292.

ORDER II. DIGYNIA.

232	AGRIMONIA.	AGRIMONY.					
	I Eupatoria	common.....	Bor. of fl.	yellow...	6,7	P.	1335.

ORDER III. TRIGYNIA.

233	RESEDA.	MIGNONETTE.					
	1 Luteola	dyers' weed	Wastegr.	yellow...	7	A.	320.
	2 lutea	wild	Chal. soil	yellow...	7,8	A.	321.
234	EUPHORBIA.	SPURGE.					
	*						
	1 Peplis.....	purple	Sea sh.	yellow...	7,8	A.	2002.
	**						
	2 Peplus	petty	Cult. gr.	yellow...	7,8	A.	959.
	3 exigua.....	dwarf.....	Corn fi.!	yellow...	7	A.	1336.

	4 Lathyris.....	caper	Dry st.pl!	purple...	5,6	B.	2255.

	5 Portlandica ...	Portland	Sea sh.	yellow...	8	P.	441.
	6 paralia	sea	Sea sh.	yellow...	8,9	P.	195.
	7 helioscopia	sun.....	Corn fi.	yellow...	7,8	A.	883.
	8 platyphylla.....	warty.....	Corn fi.!	yellow...	7,8	A.	*333.

SPECIFIC CHARACTER.

230. ASARUM.

L. 2, reniform, obtuse.

231. LYTHRUM.

L. opposite, cordate-lanceolate : Fl. spiked, dodecandrous.

L. alternate, linear-lanceolate : Fl. axillary, solitary, hexandrous.

ORDER II. DIGYNIA.

232. AGRIMONIA.

Stem leaves pinnate : terminating leaf. petioled : fruit hispid.

ORDER III. TRIGYNIA.

233. RESEDA.

L. lanceolate, entire, flat : calyx 4-cleft.

L. all trifid ; lowermost pinnate : calyx 6-cleft.

234. EUPHORBIA.

* *Dichotomous.*

L. entire, semi-cordate : Fl. solitary, axillary : stems procumbent : caps. smooth.

** *Umbels trifid.*

Umb. trifid : dichotomous : involucrets ovate : L. very entire, obovate, petioled.

Umb. trifid : dichotomous : involucrets lanceolate : L. linear.

*** *Umbels quadrifid.*

Umb. 4-cleft, dichot : L. opposite, sessile, entire, cordate at the base.

**** *Umbels 5-cleft.*

Umb. 5-cleft : dichot : involucrets nearly cordate, concave : L. linear-obovate, acute, smooth, spreading.

Umb. mostly 5-cleft, bifid : involucrets cordate-reniform : L. concave, imbricated upwards.

Umb. 5-cleft, trifid, dichot : involucrets obovate : L. wedge-shaped, serrated.

Umb. 4 or 5-cleft, trifid, dichot : involucrets ovate-rhomboid, hairy on the keel : L. serrulated : caps. warty. *E. stricta.* Eng. Bot.

CLASS XI. DODECANDRIA.

ORDER III. TRIGYNIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
EUPHORBIA. 帶葉的草藥	SPURGE.					
9 Esula.....	leafy-branched ...	Woods	yellow...	7	P.	1399.
10 Cyparissias ...	cypress	Woods	yellow...	5,6	P.	840.
11 Hiberna.....	Irish	Fields !	yellow...	6	P.	1337.
12 amygdaloides	wood	Woods	yellow...	3,4	P.	256.
13 Characias	red	Mon.pl.!	purple...	3,4	S.	442.

ORDER VI. DODECAGYNIA.

235	SEMPERVIVUM.	HOUSE-LEEK.					
1	tectorum	common.....	Roofs ...	flesh ...	7	P.	1320.

CLASS XI. DODECANDRIA.

ORDER III. TRIGYNIA.

SPECIFIC CHARACTER.

EUPHORBIA.

***** *Umbels many-cleft.*

Umb. many-cleft, bifid : involucrets nearly cordate : nectaries 2-horned :
L. all uniform.

Umb. many-cleft, dichot : involucrets somewhat cordate : L. on the
barren branches setaceous ; those on the stem lanceolate.

Umb. 6-cleft, dichot : involucrets oval : L. obtuse, very entire :
branches none : caps. warty.

Umb. many-cleft, dichot : involucrets perfoliate : L. obtuse, hairy :
caps. smooth.

Umb. many-cleft, dichot : involucrets perfoliate : L. lanceolate,
clothed with very soft pubescence : caps. hairy.

ORDER VI. DODECAGYNIA.

235. SEMPERVIVUM.

L. fringed : offsets spreading.

CLASS XII.

ICOSANDRIA.

ORDER I. MONOGYNIA.

236. PRUNUS. *Cal.* inferior, 5-cleft. *Pet.* 5. *Drupa* with an entire nucleus.
Cratægus.

ORDER II. DIGYNIA.

237. CRATÆGUS. *Cal.* superior, 5-cleft. *Pct.* 5. *Berry* 2-seeded.
Sorbus 2. *Pyrus* 3, 4.

ORDER III. TRIGYNIA.

238. SORBUS. *Cal.* superior, 5-cleft. *Pct.* 5. *Berry* 3-seeded.
Cratægus. *Pyrus* 3, 4.

(TETRAGYNIA.)

Sorbus 1. *Pyrus* 3, 4.

ORDER IV. PENTAGYNIA.

239. MESPILUS. *Cal.* superior, 5-cleft. *Pct.* 5. *Drupa* 5-seeded, concave at the top.
240. PYRUS. *Cal.* superior, 5-cleft. *Pct.* 5. *Apple* 5-celled, many-seeded.
241. SPIRÆA. *Cal.* inferior, 5-cleft. *Pct.* 5. *Caps.* 2-valved, many-seeded.
Sorbus 3.

CLASS XII. ICOSANDRIA.

ORDER V. POLYGYNIA.

42. ROSA. *Cal.* 5-cleft. *Recept.* fleshy, urn-shaped, contracted at the mouth, at length berried, many-seeded. *Pet.* 5.
43. RUBUS. *Cal.* 5-cleft. *Berry* superior, compound, granules 1-seeded. *Pet.* 5.
46. TORMENTILLA. *Cal.* 3-cleft. *Pet.* 4. *Seeds* naked, awnless.
48. DRYAS. *Cal.* 8-10-cleft. *Pet.* 5 or 8. *Seeds* downy, with a long feathery awn.
44. FRAGARIA. *Cal.* 10-cleft. *Seeds* naked, smooth, fixed to a berry-like, deciduous receptacle.
45. POTENTILLA. *Cal.* 10-cleft. *Seeds* naked, wrinkled, awnless.
47. GEUM. *Cal.* 10-cleft. *Seeds* with a jointed awn. *Recept.* columnar.
49. COMARUM. *Cal.* 10-cleft. *Seeds* naked, smooth; fixed upon an ovate, spongy, downy, permanent receptacle.
Spiraea 2, 3.

CLASS XII. ICOSANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
236	PRUNUS.	CHERRY.					
	1 Padus	bird	Woods	white ...	5	T.	1383.
	2 Cerasus	common	Woods	white ...	5	T.	706.
	3 domestica § ...	common plum ...	Hedges	white ...	4	T.	703.
	4 insiditia	bullace	Hedges	white ...	4	T.	841.
	5 spinosa	sloe	Hedges	white ...	3,4	S.	842.

ORDER II. DIGYNIA.

237	CRATEGUS.	HAWTHORN.					
	1 Oxyacantha ...	common	Hedges	white ...	5,6	T.	*2504.

ORDER III. TRIGYNIA.

238	SORBUS.	MOUNTAIN-ASH.					
	1 aucuparia	common	M. woods	white ...	5	T.	337.
	2 hybrida	bastard	Rocks!	white ...	5	T.	*2331.
	3 domestica	true service	M. woods	white ...	5	T.	*350.

ORDER IV. PENTAGYNIA.

239	MESPILUS.	MEDLAR.					
	1 germanica § ...	common	Hedges!	white ...	5	T.	1523.
240	PYRUS.	PEAR.					
	1 communis	common	Woods	white ...	4	T.	1784.
	2 Malus	apple or crab	Woods	white ...	4,5	T.	179.
	3 torminalis	wild service	Woods	white ...	4,5	T.	296.
	4 Aria	white Beam	M. woods	white ...	5	T.	1834.

CLASS XII. ICOSANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

236. PRUNUS.

- 1 Fl. in pendulous racemes: L. deciduous, with two glands at the base on the under surface.
- 2 Umbels almost sessile: L. ovate-lanceolate, folded when young.
- 3 Pedunc. mostly solitary: L. lanceolate-ovate, convolute: branches spineless.
- 4 Pedunc. in pairs: L. lanceolate-ovate, convolute, downy beneath: branches ending in a spine.
- Pedunc. solitary: L. lanceolate, smooth: branches spinous.

ORDER II. DIGYNIA.

237. CRATÆGUS.

- Spinous: L. obtuse, mostly trifid, serrated, smooth: Fl. 1 to 3 styles.
- Mespilus*, *Eng. Bot.*

ORDER III. TRIGYNIA.

238. SORBUS.

- L. pinnate, smooth on both sides: Fl. corymbose.
- L. pinnatifid or semi-pinnate, downy beneath: Fl. corymbose. *Pyrus pinnatifida*, *Eng. Bot.*
- L. pinnate, downy beneath: Fl. panicled. *Pyrus*, *Eng. Bot.*

ORDER IV. PENTAGYNIA.

239. MESPILUS.

- Unarmed: L. lanceolate, tomentous, beneath: Fl. solitary, sessile, terminal.

240. PYRUS.

- L. ovate, serrated: peduncles corymbose.
- L. ovate-oblong, serrated: Umbels simple, sessile.
- L. somewhat cordate, serrated, 7-lobed, lower lobes divaricating: Fl. corymbose. *Cratægus*, *Eng. Bot.*
- L. ovate, cut, serrated, streaked, tomentous beneath: Fl. corymbose: styles 2 to 4.

CLASS XII. ICOSANDRIA.

ORDER IV. PENTAGYNIA.

241

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
SPIRÆA.	SPIRÆA.					
1 salicifolia	willow-leaved ...	Moi. hed.	rose.....	7	S.	1468.
2 Filipendula ...	dropwort	M. past.	white ...	7	P.	284.
3 Ulmaria.....	meadow-sweet ...	Moi. mea.	white ...	6,7	P.	960.

ORDER V. POLYGYNIA.

242

ROSA.	ROSE.					
A.						
*						
1 cinnamomea ...	cinnamon	Woods !	rose.....	5	S.	2388.
**						
2 rubella	red fruited dwarf	Sea sh.!	blush ...	7	S.	2521.
3 spinosissima ...	Scottish	San. hea.	white ...	7	S.	187.
4 involuta	Dr. Walker's ...	Sc. Isles	blush ...	6	S.	2068.
5 Doniana.....	Don's.....	Thickets	blush ...	6	S.	.....
6 gracilis	slender	M. wood !	rose.....	6	S.	*583.
7 Sabini.....	Sabine's.....	Highl. va.	rose.....	6	S.	.....
B.						
*						
8 villosa	apple	Highl. va.	red	6	S.	*2459.
**						
9 scabriuscula ...	roughish leaved	Thickets	blush ...	6	S.	1896.
10 heterophylla ...	various-leaved ...	Sc. wo.!	varieg...	6	S.	.....

CLASS XII. ICOSANDRIA.

ORDER IV. PENTAGYNIA.

SPECIFIC CHARACTER.

241. SPIRÆA.

- L. lanceolate, obuse, serrated, smooth: racemes term. compound.
 L. interruptedly pinnate; leaf. uniform, serrated, smooth: stem herbaceous: Fl. cymose, with many styles.
 L. interruptedly pinnate, tomentous beneath; terminal leaflet largest and lobed: Fl. cymose, with many styles.

ORDER V. POLYGYNIA.

242. ROSA.

Woods, Tr. Linn. Soc. XII. p. 174.

A. *Stems beset with setæ or bristles.*

* *Setæ deciduous: bracteate.*

Recept. globular: prickles straight: cal. simple, longer than the petals.

** *Setæ permanent: without bractææ.*

Recept. urn-shaped: prickles few, slender, nearly equal: leaf. simply serrated.

Recept. globular: prickles numerous, very unequal: leaf. simply serrated.

Recept. globular: prickles crowded: leaf. doubly serrated, smooth above.

Recept. globular: prickles straight, unequal: leaf. doubly serrated, hairy on both sides: cal. simple.

Recept. globular: prickles large, hooked: leaf. doubly serrated, hairy on both sides: cal. mostly simple. *R. villosa, Eng. Bot.*

Recept. globular: prickles straight, unequal: leaf. doubly serrated: cal. segments divided.

B. *Stems without setæ: prickles straight.*

* *Calyx simple.*

Recept. nearly globular: leaf. broad-elliptical, doubly serrated, downy: bractææ elliptical. *R. mollis, Eng. Bot.*

** *Calyx nearly simple.*

Recept. elliptical: leaf. narrow-elliptical, doubly serrated: bractææ elliptical: cal. slightly pinnate.

Recept. nearly globular: leaf. doubly serrated: bractææ lanceolate: cal. somewhat compound, longer than the petals.

CLASS XII. ICOSANDRIA.

ORDER V. POLYGYNIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Potany.
ROSA. * * *	ROSE.					
11 pulchella	Ingleton.....	Calc.ban!	red .....	.....	S.	.....
12 tomentosa ...	downy leaved ...	Hedges	rose.....	6,7	S.	990.
13 nuda.....	smooth leaved ...	Road si.!	rose.....	.....	S.	.....
C. *						
14 eglanteria.....	sweet briar	Chal.ban.	rose.....	6,7	S.	*991.
15 micrantha ...	small flow. s. briar	Thickets	pale.....	6,7	S.	2490.
16 Borreri.....	Borrer's.....	Hedges	blush ...	7	S.	*2579.
17 cæsia	glaucous leaved...	High.va.	flesh ...	7	S.	2367.
18 sarmentacea	straggling	Hedges	flesh ...	.....	S.	.....
19 bractescens ...	large floral leaved	Hedges!	flesh ...	.....	S.	.....
20 dumetorum ...	thicket	Hedges	blush ...	.....	S.	.....
21 collina	hill.....	Hedges	pale ...	.....	S.	.....
22 Hiibernica ...	Irish	Ir. thick.	blush ...	6-11	S.	2196.
23 canina	dog.....	Hedges	flesh ...	6	S.	992.
24 surculosa	large-shooted ...	Hedges	blush ...	.....	S.	.....
* *						
25 systyla.....	rough stalked ...	Thickets	flesh ...	7	S.	*1895.
26 arvensis	white field.....	Hedges	white ...	6,7	S.	188.

SPECIFIC CHARACTER.

ROSA.

*** *Calyx compound.*

- 1 Recept. obovate, smooth : leaf. doubly serrated : cal. pinnate : pet. crenate.
- 2 Recept. elliptical, somewhat bristly : leaf. doubly serrated : bractæ elliptical : pet. entire.
- 3 Recept. globular, smooth : leaf. simply serrated, smooth.

C. *Stems without setæ : prickles hooked.** *Styles distinct.*

- 4 Recept. obovate, bristly : prickles unequal, the largest hooked : leaf. hairy, glandular beneath, doubly serrated. *R. rubiginosa*, *Eng. Bot.*
- 5 Recept. elliptical, bristly : prickles nearly equal, all hooked : leaf. hairy, glandular beneath, doubly serrated.
- 6 Recept. elliptical, smooth : leaf. hairy, doubly serrated, scarcely glandular : cal. closely pinnate, with broad leaflets. *R. dumetorum*, *Eng. Bot.*
- 7 Recept. elliptical, smooth : leaf. hairy, doubly serrated, scarcely glandular : cal. widely pinnate, with linear leaflets.
- 8 Recept. ovate, smooth : leaf. doubly serrated, very smooth.
- 9 Recept. globular, smooth : leaf. simply serrated, hairy above, tomentous beneath : bractæ large, ovate, extending beyond the fruit.
- 10 Recept. elliptical, smooth, extending beyond the bractæ : leaf. simply serrated, hairy on both sides.
- 1 Recept. elliptical smooth : prickles nearly equal : leaf. simply serrated, hairy beneath, smooth above.
- 2 Recept. nearly globular : prickles unequal : leaf. simply serrated, hairy beneath, smooth above.
- 3 Recept. elliptical, smooth : leaf. keeled, simply serrated, very smooth : leaf-stalks with falcate prickles.
- 4 Recept. ovate, smooth : leaf. flat : simply serrated, smooth : leaf-stalks with uncinatè prickles.

** *Styles united.*

- 5 Recept. oblong, smooth : shoots nearly erect, with very large crowded prickles : leaf. keeled, simply serrated. *R. collina*, *Eng. Bot.*
- 6 Recept. ovate or nearly globular : shoots trailing, with scattered prickles : leaf. flat, unequally serrated.

CLASS XII. ICOSANDRIA.

ORDER V. POLYGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
243	RUBUS.	BRAMBLE.					
	1 idæus	raspberry	M. wo.	white ...	5,6	S.	2412.
	2 suberectus.....	red fruited.....	Woods	white ...	6	S.	2572.
	3 cæsius	dewberry	Bor. of fi.	white ...	6,7	S.	826.
	4 corylifolius.....	hazle leaved	Hedges	white ...	7	S.	827.
	5 fruticosus	common.....	Hedges	blush ...	7,8	S.	715.
	6 saxatilis.....	stone	M. wo.	white ...	6	P.	2233.
	7 arcticus	dwarf crimson ...	Alp.roc.!	rose.....	5,6	P.	1585.
	8 Chamæmorus...	cloud-berry	Mount.	white ...	6	P.	716.
244	FRAGARIA.	STRAWBERRY					
	1 vesca	wood	Woods	white ...	5,6	P.	1524.
	2 elatior	hautboy.....	Woods!	white ...	6,9	P.	2197.
	3 sterilis	barren	Bar. pas.	white ...	3,4	P.	1785.
245	POTENTILLA.	CINQUEFOIL.					
	*						
	1 fruticosa	shrubby	M.bus.pl.	yellow...	6	S.	88.
	2 anserina.....	silver weed	Moi.me.	yellow...	6,7	P.	861.
	3 rupestris	rock	Alp.roc.!	white ...	6,7	P.	2058.
	**						
	4 argentea.....	hoary	Grav. pa.	yellow...	6	P.	89.
	5 aurea	golden	Sc. alps	yellow...	7	P.	561.
	6 verna	spring	High pas.	yellow...	4,5	P.	37.
	7 opaca	saw leaved	Sc. alps	yellow...	6	P.	2449.
	8 alba	white.....	W. alps	white ...	7,8	P.	1384.
	9 reptans	common creeping	Mea.pas.	yellow...	6-8	P.	862.

SPECIFIC CHARACTER.

243. RUBUS.

- L. pinnate, with 5 or 3 leaf. downy beneath : petioles channelled : stem prickly.
- L. pinnate, with 5 or 7 ovate leaf. hairy beneath ; upper ones ternate : stems ascending, with small nearly straight prickles.
- L. ternate, hairy beneath ; lateral ones 2-lobed : stem prickly, prostrate, glaucous.
- L. mostly quinate, hairy beneath ; lateral ones sessile : prickles straightish : calyx of the fruit reflexed.
- L. mostly quinate, tomentous beneath : leaf. petioled : prickles hooked : stem angular : calyx reflexed.
- L. ternate, smoothish : runners creeping, herbaceous : pan. few-flow.
- L. ternate, smooth : stem unarmed, 1-flow.
- L. simple, lobed : stem unarmed, 1-flow : calyx-segments ovate.

244. FRAGARIA.

- Runners creeping : hairs of the pedicles close-pressed, silky.
 Cal. of the fruit reflexed : hairs of the petioles and pedunc. all widely spreading.
 Stem decumbent : flowering branches weak, sometimes 2-flow.

245. POTENTILLA.

* *Leaves pinnate.*

- L. pinnate : stem shrubby.
- L. interruptedly pinnate, serrated, silky beneath : stem creeping : pedunc. 1-flow.
- L. lyrate-pinnate, in sevens, fives, and threes : leaf. ovate, serrated, hairy : stem erect.

** *Leaves digitate.*

- L. quinate, wedge-shaped, jagged, downy beneath : stem erect.
- Radical leaves quinate, obovate, deeply serrated, hairy, somewhat membranaceous ; those on the stem ternate : stem almost erect.
- Radical leaves quinate, wedge-shaped, serrated, marked with lines, fringed, somewhat coriaceous : stem-leaves ternate : stem reclining.
- L. radical of 7 linear wedge-shaped, serrated leaf : stems decumbent, with opposite ternate leaves.
- L. quinate, silky beneath, converging-serrated at the apex : stems filiform, procumb : receptacle very hairy.
- L. quinate, obovate, serrated : stem creeping : pedunc. 1-flow.

CLASS XII. ICOSANDRIA.

ORDER V. POLYGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration	Figure in English Botany.
	POTENTILLA.	CINQUEFOIL.					

	10 tridentata.....	trifid leaved	Sc. alps.	white ...	5,6	P.	2389.
246	TORMENTILLA.	TORMENTIL.					
	1 officinalis	common	Bar. pas.	yellow...	6,7	P.	863.
	2 reptans	trailing	Mea. pas.	yellow...	6,7	P.	864.
247	GEUM.	AVENS.					
	1 urbanum	common	Woods	yellow...	5-8	P.	1400.
	2 rivale.....	water.....	Moi.mea.	reddish	6,7	P.	106.
248	DRYAS.	MOUNTAIN AVENS.					
	1 octopetala	common	Alp. roc.	white ...	7,8	P.	451.
249	COMARUM.	MARSH CINQUEFOIL.					
	1 palustre	common	Sp. bogs.	purple...	6,7	P.	172.

CLASS XII. ICOSANDRIA.

ORDER V. POLYGYNIA.

SPECIFIC CHARACTER.

POTENTILLA.

*** *Leaves ternate.*

L. ternate, wedge-shaped, smooth above, hairy beneath, trifid at the tips.

246. TORMENTILLA.

Stem rather erect, branched : L. sessile.

Stem prostrate, simple : L. petioled.

247. GEUM.

L. ternate : stipulæ roundish, cut : Fl. erect : awns hooked, naked.

Radical leaves lyrate : stipulæ ovate, acute, cut : Fl. nodding : awns twisted, feathered.

248. DRYAS.

Eight-petalled : L. simple, serrated.

249. COMARUM.

CLASS XIII.

POLYANDRIA.

ORDER I. MONOGYNIA.

* 4-petalled.

253. PAPAVER. *Cal.* 2-leaved. *Caps.* 1-celled, opening with pores under the crown of the stigma.
251. CHELIDONIUM. *Cal.* 2-leaved. *Silique* 1-celled. *Seeds* erect.
252. GLAUCIUM. *Cal.* 2-leaved. *Silique* 2-celled. *Seeds* dotted.
250. ACTÆA. *Cal.* 4-leaved. *Berry* 1-celled. *Seeds* flat, placed in a double order.

Cistus 1.

** 5-petalled.

257. CISTUS. *Caps.* 3-valved, opening at the apex. *Cal.* 5-leaved, 2-leaflets smaller than the rest.
256. TILIA. *Caps.* 5-valved, opening at the base, coriaceous. *Cal.* 5-parted, deciduous.
Delphinium 1.

*** Many-petalled.

254. NYMPHÆA. *Berry* many-celled, with a bark-like coat. *Cal.* 4-5-leaved, larger than the petals. *Pet.* inserted into the germen. *Stig.* bearing the *Nectary*.
255. NUPHAR. *Berry* many-celled. *Cal.* 5-6-leaved. *Pet.* inserted with the stamens into the recept. and bearing honey at their backs.

ORDER III. TRIGYNIA.

253. PÆONIA. *Cal.* 5-leaved. *Pet.* 5. *Style* 0. *Caps.* many-seeded.
259. DELPHINIUM. *Cal.* 0. *Pet.* 5; uppermost horn-shaped. *Nect.* 2-cleft, sessile.
Reseda 1. *Helleborus*.

CLASS XIII. POLYANDRIA.

ORDER V. PENTAGYNIA.

10. *AQUILEGIA*. *Cal.* 0. *Pet.* 5. *Nect.* 5, horn shaped below.

ORDER VI. HEXAGYNIA.

11. *STRATIOTES*. *Spatha* 2-leaved. *Perianthium* superior, 3-cleft.
Pet. 3. *Berry* 6-celled.

ORDER VII. POLYGYNIA.

12. *THALICTRUM*. *Cal.* 0. *Pet.* 4-5. *Seeds* tailless.
13. *CLEMATIS*. *Cal.* 0. *Pet.* 4-6. *Seeds* tailed. *Recept.* capitate.
14. *ANEMONE*. *Cal.* 0. *Pet.* 5-9. *Seeds* numerous.
15. *HELLEBORUS*. *Cal.* 0. *Pet.* 5. persisting. *Nect.* tubular, 2-lipped.
16. *CALTHA*. *Cal.* 0. *Pet.* 5, *Nect.* 0.
17. *THOLLIS*. *Cal.* 0. *Pet.* 14. *Nect.* flattened.
18. *RANUNCULUS*. *Cal.* 5-leaved. *Pet.* 5, with a nectariferous claw.
Seeds numerous, naked.
19. *FICARIA*. *Cal.* mostly 3-leaved, deciduous. *Pet.* 8-12, with a nectariferous pore above the claw, closed by a notched scale.
20. *ADONIS*. *Cal.* 5-leaved. *Pet.* 5-10, destitute of nectaries. *Seeds* numerous, naked.

CLASS XIII. POLYANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
250	ACTÆA. HERB-CHRISTOPHER						
	1 spicata	common.....	M. wo.!	white ...	5,6	P.	918.
251	CHELIDONIUM. CELANDINE.						
	1 majus.....	common.....	Sha. la.	yellow...	5,6	P.	1581.
252	GLAUCIUM. HORN-POPPY.						
	1 luteum	yellow	San. sh.	yellow...	7,8	B.	*8.
	2 phœniceum†...	scarlet	San. fi.	red	6,7	A.	1433.
	3 violaceum	violet	Chal. fi.!	violet ...	5,6	A.	*201.
253	PAPAVER. POPPY.						
	*						
	1 hybridum	mongrel.....	Chal. fi.!	scarlet...	7	A.	43.
	2 Argemone.....	long rough headed	Corn fi.	scarlet...	6,7	A.	643.
	**						
	3 dubium	long smooth headed	San. fi.	scarlet...	6,7	A.	644.
	4 Rhœas	common red	Corn fi.	scarlet...	6,7	A.	645.
	5 somniferum ...	white	Corn fi.	white ...	7	A.	2145.
	6 cambicum.....	yellow	Alp. roc.	yellow...	6	P.	66.
254	NYMPHÆA. WATER-LILY.						
	1 alba	white.....	Riv. &c.	white ...	7	P.	160.
255	NUPIAR. YELLOW WATER-LILY						
	1 lutea	common.....	Pools &c.	yellow...	7	P.	*159.
	2 minima	least	Alp. lak.	yellow...	7	P.	2292.
256	TILIA. LIME-TREE.						
	1 europæa.....	common.....	Woods	yellowish	7	T.	610.
	2 parvifolia	small-leaved	Woods	yellowish	8	T.	1705.

✓

SPECIFIC CHARACTER.

250. ACTÆA.

Raceme ovate.

251. CHELIDONIUM.

252. GLAUCIUM.

Stem smooth : L. on the stem sinuated : silique covered with roughish tubercles. *Chelidonium Glaucium*. Eng. Bot.

Stem hispid : L. on the stem pinnatifid, jagged : silique bristly.

L. bipinnatifid, linear, smooth : stem smooth : siliques 3-valved.

Chelidonium Hybridum. Eng. Bot.

253. PAPAVER.

* *Capsules hispid.*

Caps. almost globular, furrowed, bristly : stem leafy, many-flow.

Caps. club-shaped, hispid : stem leafy, many-flow.

** *Capsules smooth.*

Caps. smooth, oblong : stem many-flow. hairy : bristles on the pedunc. appressed : L. bipinnatifid.

Caps. smooth, almost globular : stem many-flow. bristly : all the bristles spreading : L. pinnatifid, jagged.

Cal. and caps. smooth : L. embracing the stem, jagged, glaucous.

Caps. smooth, oblong, beaked : stem many-flow. smoothish : L. pinnate, jagged.

254. NYMPHÆA.

L. cordate, very entire, even beneath : pet. elliptic-oblong : stig. 16-cleft, recurved : root horizontal.

255. NUPHAR.

Cal. 5-leaved : stig. entire : petioles 2-edged : L. heart-shaped, with the lobes approximating.

Cal. 5-leaved : stig. toothed : petioles 2-edged : L. heart-shaped, with the lobes rather distant.

256. TILIA.

Fl. destitute of a nectary : L. cordate ; ramification of their veins villous beneath : caps. angular, woody.

Fl. destitute of a nectary : L. cordate, acutely serrated, somewhat lobed : caps. roundish, thin.

CLASS XIII. POLYANDRIA.

ORDER I. MONOGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
257	CISTUS.	CISTUS.					
	1 marifolius	hoary dwarf	Alp. roc!	yellow...	5,6	S.	396.
	2 guttatus.....	spotted flowered	San pas!	yellow...	6,7	A.	544.
	3 ledifolius	ledum-leaved.....	San pas!	yellow...	6,7	A.	2414.
	4 surrejanus	dotted leaved.....	Chal.hil !	yellow...	7,8	S.	2207.
	5 Helianthemum	common dwarf ...	Grav. ban	yellow...	7,8	S.	1321.
	6 tomentosus ...	downy	Sc. alps	yellow...	7	S.	2203.
	7 polifolius	white mountain...	downs !	white ...	6,7	S.	1322.

ORDER III. TRIGYNIA.

258	PÆONIA.	PÆONY.					
	1 corallina.....	entire leaved.....	Sev. isles	crimson	5,6	P.	1513.
259	DELPHINIUM.	LARKSPUR.					
	1 Consolida	field	San. fi.	violet ...	6,7	A.	1839.

ORDER V. PENTAGYNIA.

260	AQUILEGIA.	COLUMBINE.					
	1 vulgaris	common.....	Mea.pas	violet...	7	P.	297.

ORDER VI. HEXAGYNIA.

261	STRATIOTES.	WATER-SOLDIER.					
	1 aloides	common	Ditches	white ...	7	P.	379.

ASS XIII. POLYANDRIA.

ORDER I. MONOGYNIA.

SPECIFIC CHARACTER.

257. CISTUS.

- Shrubby: without stipulæ: L. opposite, petioled, oblong, flat, tomentous beneath.
- Herbaceous: without stipulæ: L. opposite, lanceolate, 3-nerved: racemes mostly naked.
- Herbaceous: with stipulæ, downy: L. lanceolate, peduncles erect, shorter than the calyx.
- Shrubby: with stipulæ: L. ovate-oblong, hairy, and dotted beneath: pet. lanceolate: stam. not longer than the germ.
- Shrubby: procumbent, with stipulæ: L. elliptic-oblong, hoary with hairs beneath.
- Shrubby: procumbent, with stipulæ: L. elliptic-oblong, beneath white and downy, with starry pubescence.
- Shrubby: procumbent, with stipulæ: pubescence starry: L. oblong, revolute, white and downy.

ORDER III. TRIGYNIA.

258. PÆONIA.

- Leaf. distinct, ovate, flattish, smooth, the intermediate one lobed: seed-vessels downy, recurved.

259. DELPHINIUM.

- Caps. solitary: nect. 1-leaved: stem subdivided.

ORDER V. PENTAGYNIA.

260. AQUILEGIA.

- Nect. incurved, scarcely equal to the petals: stem and leaves smooth.

ORDER VI. HEXAGYNIA.

261. STRATIOTES.

- ... ensiform-triangular, sharply serrated.

CLASS XIII. POLYANDRIA.

ORDER VII. POLYGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
262	ANEMONE.	ANEMONE.					
	1 Pulsatilla	pasque flower ...	Chal. pa.	violet ...	4,5	P.	51.
	2 nemorosa	wood	Woods	white ...	4	P.	355.
	3 apennina	blue mountain ...	Woods!	blue.....	4	P.	1062.
	4 ranunculoides	yellow wood	Woods!	yellow...	4	P.	1484.
263	CLEMATIS.	TRAVELLER'S JOY.					
	1 Vitalba	common	Hedges	white ...	7	S.	612.
264	THALICTRUM.	MEADOW-RUE					
	1 alpinum	alpine.....	Bog on m.	white ...	6	P.	262.
	2 minus.....	lesser	Chal. pa.	purpleish	6,7	P.	11.
	3 majus.....	greater	M. thick.	greenish	6,7	P.	611.
	4 flavum	common.....	Moi. mea.	ochre ...	7	P.	367.
265	ADONIS.	PHEASANT'S EYE.					
	1 autumnalis ...	corn	Corn fi.	crimson	5-10	A.	308.
266	RANUNCULUS.	CROWFOOT.					
	*						
	1 Flammula	lesser spear-wort	Wat. pl.	yellow...	6-9	P.	387.
	2 Lingua	great spear-wort	Mud. dit.	yellow...	7	P.	100.
	3 gramineus	grassy	Alp. mea.	yellow...	5,6	P.	2306.
	**						
	4 auricomus	wood	Woods	yellow...	4,5	P.	624.
	5 sceleratus	water.....	Wat. pl.	yellow...	6-8	A.	681.
	6 alpestris.....	alpine.....	Alp. riv.	white ...	5	P.	2390.
	7 bulbosus.....	bulbous	Mea. pas.	yellow...	5	P.	515.
	8 hirsutus	pale hairy	Rubble	yellow...	6-10	A.	1504.

SPECIFIC CHARACTER.

262. ANEMONE.

- Stalk involucred, 1-flow : petals erect : L. bipinnate, cut : seeds tailed.
- Stalk involucred, 1-flow : invol. 3-leaved, petioled, leafy : seeds tailless : leaf. lobed.
- Stalk involucred, 1-flow : invol. 3-leaved, petioled, leafy : seeds tailless : petals lanceolate, numerous.
- Stalk involucred, mostly 2-flow : invol. 3-leaved, almost sessile, leafy : seeds tailless : petals 5, elliptical.

263. CLEMATIS.

- L. pinnate : leaf. cordate : petioles twining.

264. THALICTRUM.

- Stem very simple, almost naked : raceme simple, terminal.
- L. tripinnate : leaf. trifid, glaucous : Fl. panicle, drooping.
- L. tripinnate : leaf. lobed : branches of the pan. crowded, somewhat umbelled : Fl. drooping.
- L. bipinnate : leaf. trifid : stem furrowed : pan. much branched, compact : Fl. erect.

265. ADONIS.

- Petals about 3, concave, emarginate : fruit ovate.

266. RANUNCULUS.

* *Leaves simple.*

- L. ovate-lanceolate, rather obtuse, petioled : stem declining.
- L. lanceolate, acuminate : stem erect, many-flow.
- L. linear-lanceolate, many-nerved, sessile : stem erect, few-flow. very smooth.

** *Leaves dissected and divided.*

- Radical leaves reniform, 3-parted, crenate : stem leaves digitate, linear : stem many-flow : calyx coloured.
- Lower leaves palmate : upper digitate : fruit oblong.
- L. smooth, subcordate, 3-parted, lobed : stem mostly 1-flow. with one lanceolate entire leaf.
- al. reflexed : pedunc. furrowed : stem erect, many-flow : L. compound : root bulbous.
- al. reflexed, acuminate : stem erect, many-flow. hairy : L. ternate : root fibrous : seeds tuberculated.

CLASS XIII. POLYANDRIA.

ORDER VII. POLYGYNIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	RANUNCULUS.	CROWFOOT.					
	9 repens	creeping.....	Mea. pas.	yellow...	6-8	P.	516.
	10 acris	upright meadow	Mea. pas.	yellow...	6,7	P.	652.
	11 arvensis.....	corn	Corn fi.	yellow...	6	A.	135.
	12 parviflorus	small flowered ...	Grav. pl.	yellow...	5,6	A.	120.
	13 hederaceus ...	ivy leaved	Wat. pl.	white ...	5,8	P.	2003.
	14 aquatilis.....	white floating ...	Ditches	white ...	5,6	P.	101.
267	FICARIA.	PILE-WORT.					
	1 verna	common.....	Hed. ban.	yellow...	4	P.	*584.
268	TROLLIUS.	GLOBE-FLOWER.					
	1 europæus	common.....	Groves	yellow...	5,6	P.	23.
269	HELLEBORUS.	HELLEBORE.					
	1 viridis	green	Woods!	green ...	4	P.	200.
	2 fetidus	stinking.....	Cha. pa.	green ...	3,4	P.	613.
270	CALTHA.	MARSH-MARYGOLD.					
	1 palustris	common	Marshes	yellow...	5	P.	506.
	2 radicans.....	creeping.....	Sc. mar.	yellow...	6	P.	217.

CLASS XIII. POLYANDRIA.

ORDER VII. POLYGYNIA.

SPECIFIC CHARACTER.

RANUNCULUS.

Cal. spreading: pedunc. furrowed: runners creeping: L. compound.
 Cal. spreading: pedunc. cylind: L. 3-parted-many-cleft; upper ones linear.

Seeds prickly; L. 3-cleft-decompound; segments linear.

Seeds prickly; prickles hooked: L. simple; segments acute, hairy: stem diffuse.

L. reniform-roundish, 3 or 5-lobed, very entire, smooth: stem creeping.

L. under-water capillary; those above somewhat peltate.

267. FICARIA.

Hudson. De Candolle.

Root grumous: stem leafy: L. cordate. *Ranunculus Ficaria. Eng. Bot.*

268. TROLLIUS.

Cor. converging: nectaries the length of the stamina.

269. HELLEBORUS.

Stem many-flow. leafy: L. digitate: petals spreading.

Stem many-flow. leafy: L. pedate: petals converging.

270. CALTHA.

L. cordate: stem erect.

L. triangular, subcordate, sharply crenate: stem creeping.

CLASS XIV.

DIDYNAMIA.

ORDER I. GYMNOSPERMIA.

* *Calyxes mostly 5-cleft.*

264. LEONURUS. *Anth.* sprinkled with boney dots.
276. GLECHOMA. *Anth.* each pair forming a cross.
275. MENTHA. *Filaments* distant, straight. *Cor.* nearly regular, 4-cleft.
272. TEUCRIUM. *Cor.* upper lip 2-parted beyond the base.
271. AJUGA. *Cor.* upper lip very small, and shorter than the *stam.*
280. BETONICA. *Cor.* upper lip flat, ascending, tube cylindrical. *Stam.* as long as the throat.
277. LAMIUM. *Cor.* throat toothed on both sides.
278. GALEOPSIS. *Cor.* lower lip with two teeth above.
279. GALEOBDOLOM. *Cor.* lower lip 3-cleft, segments acute.
281. STACHYS. *Cor.* lower lip reflexed at the sides. *Stam.* reflected to the sides, after shedding their pollen.
273. NEPETA. *Cor.* lower lip crenate; throat with the margin reflexed.
282. BALLOTA. *Cal.* 10-striated. *Cor.* upper lip arched.
283. MARRUBIUM. *Cal.* 10-striated. *Cor.* upper lip straight, 2-cleft.
274. VERBENA. *Cal.* 1 tooth truncated. *Cor.* nearly equal, curved.

** *Calyxes 2-lipped.*

290. SCUTELLARIA. *Cal.* when in fruit covered with a lid.
287. THYMUS. *Cal.* throat closed with soft hairs. *Cor.* upper lip flat, notched.
288. MELISSA. *Cal.* scariose, flattish above, upper lip with 3 level-pointed teeth. *Cor.* upper lip arched, cloven.
291. PRUNELLA. *Filaments* all 2-forked at the apex.
286. ORIGANUM. *Calyxes* collected, by imbricated bractæ, into a spicate, 4-angular cone.
285. CLINOPODIUM. *Involucrum* many-bristled, collecting the calyces.
289. MELITTIS. *Cal.* wider than the tube of the corolla. *Cor.* upper lip flat. *Anth.* crossed.

* *Calyxes 4-cleft.*

6. LATHRÆA. *Caps.* 1-celled. *Gland* under the germen.
2. BARTSIA. *Caps.* 2-celled. *Seeds* angular.
3. RHINANTHUS. *Caps.* 2-celled. *Seeds* compressed flat, imbricated.
5. MELAMPYRUM. *Caps.* 2-celled. *Seeds* 2, gibbous, shining.
4. EUPHRASIA. *Caps.* 2-celled. *Seeds* striated. *Anth.* spinous.

** *Calyxes 5-cleft.*

4. LIMOSELLA. *Caps.* imperfectly 2-celled. *Cor.* bell-shaped, nearly equal.
10. SCROPHULARIA. *Caps.* 2-celled. *Cor.* reversed, lip with an intermediate segment within.
3. SIBTHORPIA. *Caps.* 2-celled, with transverse partitions. *Cor.* nearly wheel-shaped. *Stam.* each pair approximate.
1. DIGITALIS. *Caps.* 2-celled. *Cor.* bell-shaped, ventricose beneath.
5. LINARIA. *Caps.* 2-celled, distended. *Cor.* mouth closed by the palate, with a nectariferous spur at the base.
9. ANTIRRHINUM. *Caps.* 2-celled. *Cor.* mouth closed by the palate, without a spur, bulging at the base.
7. PEDICULARIS. *Caps.* 2-celled. *Seeds* mucronate. *Cor.* personate; helmet compressed.
8. LINNÆA. *Berry* 3-celled, dry. *Cor.* bell-shaped. *Cal.* superior.

*** *Cal. 2-leaved.*

9. OROBANCHE. *Cal.* leaflets lateral, lobed. *Caps.* 1-celled.

CLASS XIV. DIDYNAMIA.

ORDER I GYMNOSPERMIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Sort or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
271	AJUGA.	BUGLE.					
	1 reptans	common	Moi. wo.	blue ...	5	P.	489.
	2 pyramidalis ...	pyramidal	Sc. mount	purple...	5,6	P.	1270.
	3 alpina.....	alpine.....	Mount.	blue ...	7	P.	477.
	4 Chamæpitys ...	ground pine	San. fi.	yellow...	4,5	A.	77.
272	TEUCRIUM.	GERMANDER.					
	1 Scordonia.....	wood	Woods	yellow...	7	P.	1543.
	2 Scordium	water	Marshes!	purple...	7,8	P.	828.
	3 Chamædrys ...	wall	Old walls	purple...	7	P.	680.
273	NEPETA.	CAT-MINT.					
	I Cataria	common	Road si.	white ...	7	P.	137.
274	VERBENA.	VERVAIN.					
	I officinalis	common	Road si.	purple...	7	P.	767.
275	MENTHA.	MINT.					
	1 sylvestris	horse	Wat. pl.	lilae.....	8,9	P.	686.
	2 rotundifolia ...	round leaved	Moi. pl.	reddish	8,9	P.	446.
	3 viridis	spear	Marshes	purple...	8	P.	2424.
	4 piperita	pepper	Wat. pl.	purple...	8,9	P.	687.
	5 odorata	bergamot	Wat. pl.!	red	7,8	P.	1025.
	6 hirsuta	hairy	Wat. pl.	lilae.....	8,9	P.	{ 447. " 448
	7 acutifolia	frag. sharp leaved	Wat. pl.!	lilae.....	9	P.	2415.
	8 rubra	tall red	Wat. pl	purple...	9	P.	1413.

CLASS XIV. DIDYNAMIA. ORDER I. GYMNOSPERMIA.

SPECIFIC CHARACTER.

271. AJUGA.

Smooth : stem solitary : scyons creeping.

Hairy : whorls crowded into a pyramidal form, many flowered : radical leaves very large, obovate, crenate, obtuse.

Stem simple : L. almost smooth, unequally toothed, nearly uniform : whorls rather remote, many-flow.

Stem diffuse, branched : L. 3-cleft, linear, entire : Fl. axillary, solitary.

272. TEUCRIUM.

L. cordate, serrated, petioled : racemes lateral, 1-rowed : stem erect. L. oblong, sessile, toothed-serrated : Fl. axillary, in pairs, peduncled : stem diffuse.

L. somewhat ovate, petioled, deeply crenate : Fl. axillary, peduncled, ternate : stem cylind. hairy.

273. NEPETA.

Fl. spiked : whorls somewhat pedicelled : L. petioled, cordate, dentato-serrated.

274. VERBENA.

Tetrandrous : spikes filiform, paniced : L. deeply jagged : stem mostly solitary.

275. MENTHA.

Spikes villous, scarcely interrupted : L. toothed-serrated, chiefly downy beneath : bractæ awl-shaped.

Spikes hirsute, interrupted : L. elliptical, obtuse, wrinkled, crenate, villous beneath : bractæ lanceolate.

Spikes interrupted : L. sessile, lanceolate, acute, naked : bractæ setaceous and somewhat hairy, as well as the calyx teeth.

Spikes obtuse, interrupted below : L. petioled, somewhat ovate, smoothish : cal. very smooth at the base.

Spikes capitate, very obtuse : L. petioled, cordate, naked on both sides : cal. and pedicels very smooth on every part.

Fl. capitate, or whorled : L. petioled, ovate : cal. hairy : pedicels with hairs pointing backwards.

Fl. whorled : L. ovate-lanceolate, acute at each end : cal. hairy on every part : hairs of the pedicels spreading.

Fl. whorled : L. ovate : stem erect, zigzag : pedicels and calyx very smooth : teeth hairy.

CLASS XIV. DIDYNAMIA.

ORDER I. GYMNOSPERMIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	MENTHA.	MINT.					
	9 <i>gentilis</i>	bushy red	Pools !	purple...	8	P.	2118.
	10 <i>gracilis</i>	narrow leaved ...	Wat. pl.	purple...	3	P.	*449.
	11 <i>arvensis</i>	corn	Corn fi.	lilac ...	6-9	P.	2119.
	12 <i>agrestis</i>	rugged field	Corn fi.	purple...	8	P.	2120.
	13 <i>Pulegium</i>	penny-royal	Wet com.	purple...	9	P.	1026.
276	GLECHOMA.	GROUND-IVY.					
	1 <i>hederacea</i>	common.....	Hed. ban.	blue ...	4,5	P.	853.
277	LAMIUM.	DEAD-NETTLE.					
	1 <i>album</i>	*white	Waste gr	white ...	5-9	P.	768.
	2 <i>maculatum</i>	spotted	Banks !	purple...	4	P.	2550.
	3 <i>purpureum</i>	red	Waste gr	purple...	5	A.	769.
✓	4 <i>incisum</i>	cut-leaved	San fi.	rose.....	5	A.	1933.
	5 <i>amplexicaule</i> ...	henbit	San. fi.	rose.....	2-6	P.	770.
278	GALEOPSIS.	HEMP-NETTLE.					
	1 <i>Ladannum</i>	red.....	Chal. fi.	rose.....	8,9	A.	384.
	2 <i>villosa</i>	downy	San. fi. !	yellow...	7,8	A.	2353.
	3 <i>Tetralit</i>	common.....	Corn fi.	white ...	7,8	A.	207.
	4 <i>versicolor</i>	large flowered ...	San. fi.	yellow...	7,8	A.	667.
279	GALEOBDOLO.	WEASEL-SNOUT.					
	1 <i>luteum</i>	yellow	Mo.sh.pl.	yellow...	5	P.	787.
280	BETONICA.	BETONY.					
	1 <i>officinalis</i>	wood	Woods	purple...	7,8	P.	1142.

SPECIFIC CHARACTER.

MENTHA.

- Fl. whorled : L. ovate : stem much branched, spreading : cal. at the base and pedicels smooth.
- Fl. whorled : L. lanceolate, nearly sessile : stem much branched, erect : cal. at the base and pedicels very smooth. *M. Gentilis*, *E. B.*
- Fl. whorled : L. ovate : stem much branched : cal. bell-shaped, hairy on every part : hairs horizontally spreading.
- Fl. whorled : L. somewhat cordate, deeply serrated, rugose : stem erect : cal. hairs horizontal.
- Fl. whorled : L. ovate : stem prostrate : pedicels and calyx downy on every part : teeth fringed.

276. GLECHOMA.

- L. kidney-shaped, crenate.

277. LAMIUM.

- L. cordate, pointed, petioled : whorls 20-flow.
- L. cordate, pointed, deeply serrated : whorls 10-flow.
- L. cordate, blunt, petioled ; uppermost crowded : cor. tube within bearded at the base.
- L. cordate, dilated, petioled, irregularly cut ; uppermost crowded : cor. tube internally naked.
- Floral leaves sessile, embracing the stem, blunt.

278. GALEOPSIS.

- stem-internodes equal : L. lanceolate, subserrated, hairy : helmet of the cor. indistinctly crenate.
- stem-internodes equal : L. ovate-lanceolate, serrated, villous : helmet of the cor. deeply notched.
- stem hispid : internodes thicker above : cor. twice as long as the calyx : helmet straightish.
- stem hispid : internodes thicker above : cor. thrice as long as the calyx : helmet inflated.

279. GALEOBDOLON.

280. BETONICA.

- Lobe interrupted : middle segment of the lower lip of the corolla notched.

CLASS XIV. DIDYNAMIA.

ORDER I. GYMNOSPERMIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
231	STACHYS.	WOUNDWORT.					
	1 <i>sylvatica</i>	hedge.....	Hedges	blood ...	7,8	P.	416.
	2 <i>ambigua</i>	ambignous	N. of Sec.	purple...	9	P.	2089.
	3 <i>palustris</i>	marsh	Mo. mea.	purple...	8	P.	1675.
	4 <i>germanica</i>	downy	Chal. fi.	purple...	7	P.	829.
	5 <i>arvensis</i>	corn	Corn fi.	purple...	7,8	A.	1154.
232	BALLOTA.	BLACK-HOREHOUND.					
	1 <i>nigra</i>	stinking.....	Hedges	purple...	7,8	P.	46.
233	MARRUBIUM.	WHITE-HOREHOUND.					
	1 <i>vulgare</i>	aromatic.....	Rubble	white ...	7	P.	410.
234	LEONURUS.	MOTHERWORT.					
	1 <i>Cardiaca</i>	common.....	Grav. ba.	white ...	7,8	P.	286.
235	CLINOPODIUM.	BASIL.					
	1 <i>vulgare</i>	wild	Grav. ba.	rose.....	8	P.	1401.
236	ORIGANUM.	MARJORAM.					
	1 <i>vulgare</i>	common.....	Chal. wo.	rose.....	7,8	P.	1143.
237	THYMUS.	THYME.					
	1 <i>Serpyllum</i>	wild	Heaths	purple...	7,8	P.	1514.
	2 <i>Acinos</i>	basil	Dry hills	violet ...	7,8	A.	411.
238	MELISSA.	BALM.					
	1 <i>Calamintha</i> ...	common calamint	Bor. offi.	violet ...	7,8	P.	*1676.
	2 <i>Nepeta</i>	lesser calamint ...	Chal. hill	blue ...	8	P.	*1414.
239	MELITTIS.	BASTARD-BALM.					
	1 <i>Melissophyllum</i>	reddish	Woods	flesh ...	5,6	P.	577.
	2 <i>grandiflora</i>	purple and white	Woods	white ...	5	P.	636.

SPECIFIC CHARACTER.

281. STACHYS.

Whorls 6-flow : L. cordate, petioled.

Whorls 6-flow : L. oblong, petioled, cordate at the base : stem hollow.

Whorls 6-flow : L. linear-lanceolate, half embracing the stem

Whorls many flow : L. crenate : stem woolly.

Whorls 6-flow : stem feeble : L. cordate, blunt, crenate, somewhat hairy.

282. BALLOTA.

L. ovate, undivided, serrated : cal. dilated above, somewhat truncated ; teeth spreading.

283. MARRUBIUM.

Calyx-teeth 10, setaceous, hooked.

284. LEONURUS.

Upper leaves lanceolate, 3-lobed or entire.

285. CLINOPODIUM.

Whorls hairy : bractæ setaceous : pedicels branched : L. indistinctly serrated.

286. ORIGANUM.

Spikes roundish, paniced, clustered, smooth : invol. ovate, longer than the calyx.

287. THYMUS.

1. L. capitate : stems decumb : L. flat, ovate, blunt, fringed at the base.

2. Whorls 6-flow : pedunc. simple : stem ascending, branched : L. acute, serrated : calyx gibbous.

288. MELISSA. *Linn.*

THYMUS, *Eng. Bot.*

1. Pedunc. axillary, many-flow. forked : L. ovate, blunt, slightly serrated, hairy : stem hairy.

2. Pedunc. axillary, many-flow. forked-corymbose : L. ovate, blunt, serrated, smoothish : stem somewhat hairy.

289. MELITTIS.

1. Calyx 3-lobed.

2. Calyx 4-lobed.

CLASS XIV. DIDYNAMIA.

ORDER I. GYMNOSPERMIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
290	SCUTELLARIA.	SKULL-CAP.					
	1 galericulata ...	common	Wat. pl.	blue.....	7,8	P.	523.
	2 minor	lesser	Moi. hea.	pink ...	8	P.	524.
291	PRUNELLA.	SELF-HEAL.					
	1 vulgaris	common	Mea. pas.	violet ...	7,8	P.	961.
ORDER II. ANGIOSPERMIA.							
292	BARTSIA.	BARTSIA.					
	1 alpina	alpine	Alp. rivu.!	purple...	7	P.	361.
	2 viscosa	yellow viscid	Marshes!	yellow...	7,8	A.	1043.
	3 Odontites	red	Mea. pas.	rose.....	7,8	A.	1413.
293	RHINANTHUS.	YELLOW-RATTLE.					
	1 Crista-galli ...	common	Mea. pas.	yellow...	6	A.	637.
294	EUPHRASIA.	EYE-BRIGHT.					
	1 officinalis	common	Pastures	white ...	7-9	A.	1416.
295	MELAMPYRUM.	COW-WHEAT.					
	1 cristatum	crested	Corn fi.!	yellow...	7	A.	41.
	2 arvense	purple	Corn fi.	yellow...	7	A.	53.
	3 pratense	common	Woods	yellow...	7,8	A.	113.
	4 sylvaticum	wood	M. woods	yellow...	7,8	A.	304.
296	LATHRÆA.	TOOTH-WORT.					
	1 Squamaria	greater	Dry wo.	purple...	4	P.	50.
297	PEDICULARIS.	LOUSE-WORT.					
	1 palustris	marsh	Boggy m.	purple...	6,7	P.	399.
	2 sylvatica	pasture	M. hea.	rose.....	6,7	P.	400.

CLASS XIV. DIDYNAMIA.

ORDER I. GYMNOSPERMIA.

SPECIFIC CHARACTER.

290. SCUTELLARIA.

L. cordate-lanceolate, crenate, wrinkled : Fl. axillary.

L. cordate-ovate, entire : Fl. axillary.

291. PRUNELLA.

L. all ovate-oblong, petioled.

ORDER II. ANGIOSPERMIA.

292. BARTSIA.

L. opposite, cordate-ovate, bluntly serrated : anthers hairy.

L. serrated ; upper alternate : Fl. lateral, distant : anthers hairy.

L. lanceolate, serrated ; upper alternate : Fl. racemose, 1-rowed : anthers smooth.

293. RHINANTHUS.

Upper lip of the cor. arched : cal. smooth : L. lanceolate, serrated.

294. EUPHRASIA.

L. ovate, streaked, finely toothed.

295. MELAMPYRUM.

Spikes 4-angular : bractæ cordate, imbricated, compact, toothed.

Spikes conical, lax : bractæ lanceolate, pinnate-toothed.

Fl. lateral, 1-rowed : L. in distant pairs : cor. closed ; lip extended.

Fl. lateral, 1-rowed : L. in distant pairs : cor. open ; lip deflexed.

296. LATHRÆA.

Stem very simple : Fl. pendulous ; lower lip trifid.

297. PEDICULARIS.

Stem solitary, branched : cal. ovate, hairy, ribbed, in 2 notched lobes.

Stems many, simple, spreading : cal. oblong, angular, smooth, in 5 notched segments.

CLASS XIV. DIDYNAMIA.

ORDER II. ANGIOSPERMIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
298	LINARIA.	TOAD-FLAX.					
	*						
	1 Cymbalaria §...	ivy leaved	Old walls	violet ...	5-11	P.	*502.
	2 spuria.....	round leaved	Corn fi.	yellow...	7-9	A.	*691.
	3 Elatine	sharp pointed ...	Corn fi.	yellow...	7-9	A.	*692.
	**						
	4 repens	creeping.....	Chal. hil.	blue ...	7-9	P.	*1253.
	5 vulgaris	common.....	Hedges	yellow...	6,7	P.	} *653. { β 260
	6 minor	least	San. fi...	violet ...	6-8	A.	*2014.
299	ANTIRRHINUM.	SNAPDRAGON.					
	1 majus §	great	Old walls	rose.....	7,8	P.	129.
	2 Orontium	lesser.....	San. fi...	flesh ...	7,8	A.	1155.
300	SCROPHULARIA.	FIGWORT.					
	1 nodosa	knotty-rooted ...	Woods	blood ...	7	P.	1544.
	2 aquatica.....	water	Wat. pl.	blood ...	7	P.	854.
	3 Scorodonia.....	balm-leaved	Wat. pl.!	purple...	7,8	P.	2209.
	4 vernalis	yellow	M.sh. pl.!	yellow...	4,5	B.	567.
301	DIGITALIS.	FOX-GLOVE.					
	1 purpurea	purple	Hed. ban.	purple...	6,7	P.	1297.
302	LINNÆA.	LINNÆA.					
	1 borealis	two flowered	Dry st.w!	flesh ...	5,6	P.	433.
303	SIBTHORPIA.	MONEYWORT.					
	1 europæa.....	cornish	Wet sh. p.	yellow...	7,8	P.	649.
304	LIMOSELLA.	MUDWORT.					
	1 aquatica.....	little	Mud. pl.	flesh ...	7,8	A.	357.

CLASS XIV. DIDYNAMIA.

ORDER II. ANGIOSPERMIA.

SPECIFIC CHARACTER.

298. LINARIA. *Jussieu.*ANTIRRHINUM, *Eng. Bot.** *Leaves dilated : stems loose.*

L. cordate, 5-lobed, alternate, smooth : stems procumbent.

L. ovate, alternate : stems procumbent.

L. hastate, alternate : stems procumbent.

** *Leaves narrower : stems erect.*

L. linear, glaucous, whorled or scattered : stem paniced : cal. smooth, the length of the spur.

L. linear-lanceolate, crowded : stem erect, spiked : cal. smooth, shorter than the spur.

Var. β . Fl. regular, pentandrous, with 5-spurs. *Peloria.*

L. mostly alternate, lanceolate, obtuse, pubescent : stem much branched, spreading : cal. longer than the spur.

299. ANTIRRHINUM.

Fl. spiked : cal. obtuse, villous.

Fl. loosely spiked : cal. digitate, longer than the corolla.

300. SCROPHULARIA.

L. cordate, acute, 3-nerved at the base : stem with acute angles.

L. cordate, petioled, decurrent, obtuse : stem winged.

L. cordate, doubly-serrated, tomentous beneath : raceme leafy.

L. cordate, doubly-serrated, pubescent : pedunc. axillary, solitary, dichotomous, leafy.

301. DIGITALIS.

Cal. leaf. ovate, acute : cor. obtuse, upper lip entire : L. pubescent.

302. LINNÆA.

303. SIBTHORPIA.

L. kidney-shaped, somewhat peltate, crenate.

304. LIMOSELLA.

CLASS XIV. DIDYNAMIA.

ORDER II. ANGIOSPERMIA.

305

LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
OROBANCHE.	BROOM-RAPE.					
*						
1 major	greater	Uncul. pl.	purpleish	6,7	P.	421.
2 elatior	tall.....	Clover fi.	yellowish	6-8	P.	568.
3 minor	lesser.....	Clover fi.	purpleish	7,8	A.	422.
4 rubra	red fragrant	Ir. roc...	purpleish	8	P.	1786.
**						
5 cærulea	purple	Sea co...	violet ...	7	P.	423.
6 ramosa	branched	Hemp fi.	blueish	8,9	A.	184.

SPECIFIC CHARACTER.

305. OROBANCHE.

* *Bractæ solitary.*

- Stem simple: cor. inflated; segments of the lip acute, equal: stam. smooth: style pubescent.
- Stem simple: cor. tubular; segments of the lip acute, equal: stam. pubescent: style smooth.
- Stem simple: cor. tubular; middle segment of the lip lobed: stam. fringed: style smooth.
- Stem simple: cor. tubular; segments of the lip blunt, equal: stam. fringed on one side at the base.

** *Bractæ by threes.*

- Stem simple: bractæ by threes: upper lip of the corolla bifid, incised.
- Stem branched: bractæ by threes: corolla 5-cleft; segments obtuse, very entire.

CLASS XV.

TETRADYNAMIA.

ORDER I. SILICULOSA.

* *Silicles without valves.*

319. CAKILE. *Silicle* deciduous, 4-angular, 2-jointed; each joint 1-seeded.
320. CRAMBE. *Silic.* deciduous, 2-jointed; upper joint nearly globular, 1-seeded; lower joint abortive, like a pedicle.
316. CORONOPUS. *Silic.* nearly entire, compressed, wrinkled, 2-seeded.

** *Silicles 2-valved, entire or nearly entire.*

306. VELLA. *Silic.* tumid, with the leafy ovate style projecting, twice as long as the valves.
318. ISATIS. *Silic.* deciduous, 1-celled, 1-seeded. *Filam.* simple.
307. SUBULARIA. *Silic.* oval; valves tumid, many-seeded.
312. HUTCHINSLA. *Silic.* elliptical; valves tumid. *Seeds* 2 in each cell. *Filam.* simple.
308. DRABA. *Silic.* oval; valves flattish. *Cells* many-seeded. *Seeds* without a margin. *Filam.* simple.
309. ALYSSUM. *Silic.* nearly round; valves flattish. *Cells* 1-4-seeded. *Seeds* margined.
310. CAMELINA. *Silic.* nearly entire, obovate, smooth; valves tumid, many-seeded. *Filam.* simple.
315. COCHLEARIA. *Silic.* nearly entire, ovate or roundish, rugose, many-seeded; valves tumid. *Filam.* short. *Cal.* spreading. *Seeds* not margined.

*** *Silicles 2-valved, emarginate or notched.*

311. LEPIDIUM. *Silic.* elliptical; valves boat-shaped. *Cells* 1-seeded, *Pet.* equal.
317. IBERIS. *Silic.* obcordate; valves boat-shaped, winged. *Cells* 1-seeded. *Pet.* unequal.
314. THLASPI. *Silic.* obcordate, compressed; valves boat-shaped, often winged. *Cells* many-seeded. *Filam.* simple.
313. TEESDALIA. *Silic.* obcordate; valves boat-shaped. *Cells* 2-seeded. *Filam.* with a scale at the inside, near the base.

* *Calyx closed.*

- . RAPHANUS. *Siliques* valveless, jointed, swelling.
 . ARABIS. *Siliques* linear, crowned by the sessile stig.; valves veined or ribbed. *Seeds* 1-rowed.
 . TURRITIS. *Siliques* long, 2-edged; valves ribbed or keeled. *Seeds* 2-rowed.
 .. BARBAREA. *Siliques* square-2-edged. *Seeds* 1-rowed. *Glands* within the shorter filam.
 .. ERYSIMUM. *Siliques* 4-angular. *Seeds* without a margin. *Stig.* capitate, often 2-lobed.
 . CHEIRANTHUS. *Siliques* compressed or 2-edged. *Cal.* with 2 opposite leaf. punched at the base. *Stig.* 2-lobed, lobes spreading or capitate.
 . MATHIOLA. *Siliques* round or compressed, crowned by the stig: *Stig.* 2-lobed, lobes thickened at the back. *Filam.* long, dilated.
 HESPERIS. *Siliques* angular. *Stig.* nearly sessile, with converging lobes. *Glands* within the shorter filam. *Pet.* oblique.
 BRASSICA. *Siliques* roundish, with a beak barren or 1-seeded. *Seeds* globular.
 DENTARIA. *Siliques* linear, bursting elastically; valves flat, plain, revolute. *Stig.* notched.

** *Calyx spreading.*

- CARDAMINE. *Siliques* linear, bursting elastically; valves flat, plain, revolute, narrower than the partition. *Stig.* entire.
 SISYMBRIUM. *Siliques* roundish or angular. *Cal.* open or somewhat erect.
 NASTURTIUM. *Siliques* roundish, short, swelling; valves concave, neither ribbed nor keeled. *Cal.* spreading.
 SINAPIS. *Siliques* roundish, with a prominent partition. *Cal.* spreading horizontally.

CLASS XV. TETRADYNAMIA.

ORDER I. SILICULOSA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
306	VELLA.	CRESS-ROCKET.					
	1 annua.....	annual	San. fi.!	ochre ...	6	A.	1442.
307	SUBULARIA.	AWL-WORT.					
	1 aquatica.....	water.....	Alp. lake	white ...	7	A.	732.
308	DRABA.	WHITLOW-GRASS.					
	1 aizoides	yellow alpine.....	Rocks...	yellow...	3,4	P.	1271.
	2 verua	common.....	Walls...	white ...	3,4	A.	586.
	3 rupestris	rock	Alp. roc.	white ...	5,6	P.	*1338.
	4 incana	twisted podded ...	Alp. roc.	white ...	5,6	B.	388.
	5 muralis	speedwell leaved	Mount	white ...	5	A.	912.
309	ALYSSUM.	ALYSSUM.					
	1 maritimum.....	sweet.....	Sea co.!	white ...	8,9	P.	1729.
310	CAMELINA.	GOLD OF PLEASURE.					
	1 sativa §	common	Corn fi.	yellow...	6	A.	*1234.
311	LEPIDIUM.	PEPPER-WORT.					
	1 latifolium	broad leaved	Sea.co...	white ...	7	P.	132.
	2 ruderale.....	narrow leaved ...	Sea.co...	.....	6	B.	1595.
	3 campestre	hoary field.....	Fields...	white ...	7	A.	*1305.
	4 hirtum	hairy	Fields!	white ...	6	P.	*1803.
312	HUTCHINSIA.	HUTCHINSIA.					
	1 petrea	rock	Rocks...	white ...	3,4	B.	*111.

SPECIFIC CHARACTER.

306. VELLA.

L. pinnatifid: silicles pendulous.

307. SUBULARIA.

L. awl-shaped.

308. DRABA.

Scape naked: pet. notched, twice the length of the cal: L. lanceolate, rigid, keeled, fringed.

Scapes naked: pet. bipartite: L. lanceolate, slightly cut, hairy.

Scape 1-leaved: pet. entire: silic. lanceolate: L. somewhat toothed, ciliate; hairs simple. *D. hirta*, Eng. Bot.

Stem-leaves numerous, hoary, with interwoven starry hairs: silic. oblong, oblique.

Stem branched: L. cordate, toothed, hairy: silic. elliptical, obtuse, flat.

309. ALYSSUM.

Stem somewhat shrubby, much branched, spreading: L. lanceolate, acute, entire, hoary, with close-pressed hairs.

310. CAMELINA. Hort. Kew.

ALYSSUM, Eng. Bot.

L. lanceolate, arrow-shaped: stig. simple.

311. LEPIDIUM.

L. ovate, lanceolate, entire, serrated.

Fl. diandrous, apetalous: L. lower pinnatifid, toothed; upper linear, very entire.

Silic. scaly, bordered at the top: style very short: stem-leaves arrow-shaped, toothed. *Thlaspi*, Eng. Bot.

Silic. hairy, bordered at the top: style long: stem leaves arrow-shaped, toothed. *Thlaspi*, Eng. Bot.

312. HUTCHINSIA. Hort. Kew.

LEPIDIUM, Eng. Bot.

L. pinnatifid, entire: pet. shorter than the cal: stig. sessile.

CLASS XV. TETRADYNAMIA.

ORDER I. SILICULOSA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
313	TEESDALIA.	TEESDALIA.					
	1 nudicaulis	naked stalked ...	Grav. pa.	white ...	5	A.	*327.
314	THLASPI.	MITHRIDATE MUSTARD.					
	1 arvense	penny cress	Corn fi.!	white ...	6,7	A.	1659.
	2 perfoliatum ...	perfoliate	Stony pas	white ...	4,5	A.	2354.
	3 alpestre	alpine.....	M. past.	white ...	6,7	P.	81.
	4 Bursa-pastoris	shepherd's purse	Road si.	white ...	3-9	A.	1485.
315	COCHLEARIA.	SCURVY-GRASS.					
	1 officinalis	common.....	Sea shore	white ...	5	A.	551.
	2 groenlandica ...	greenland	Sc. alps	flesh ...	8	A.	2403.
	3 anglica	english	Sea shore	white ...	5	A.	552.
	4 danica	danish	Sea sho.!	white ...	5,6	A.	696.
	5 Armoracia.....	horse-radish	Wat. pl.	white ...	5	P.	2323.
317	CORONOPUS.	WART-CRESS.					
	1 Ruellii	common.....	Road si.	white ...	6-8	A.	1660.
	2 didyma	lesser.....	Rubble	white ...	7	A.	*246.
317	IBERIS.	CANDY-TUFT.					
	1 amara.....	bitter	Chal. fi.!	white ...	7	A.	52.
318	ISATIS.	WOAD.					
	1 tinctoria.....	dyers'.....	Corn fi.!	yellow...	7	B.	97.
319	CAKILE.	SEA-ROCKET.					
	1 maritima	common.....	Sea shore	purple...	6-9	A.	*231.
320	CRAMBE.	SEA-KALE.					
	1 maritima	common	Sea shore	white ...	5,6	P.	924.

SPECIFIC CHARACTER.

313. TEESDALIA. *Hort. Kew.*IBERIS, *Eng. Bot.*

Petals unequal.

314. THLASPI.

Silic. orbicular, compressed, smooth : L. oblong, toothed, smooth.

Silic. obovate : stem leaves sagittate-ovate, embracing the stem : stem branched : style very short.

Silic. obovate, retuse : stem leaves arrow-shaped : stems simple : style extended.

Hairy : silic. triangular-obovate : radical leaves pinnatifid.

315. COCHLEARIA.

L. radical roundish ; on the stems oblong, somewhat sinuated : silic. globose.

L. kidney-shaped, fleshy, entire : silic. globular.

L. radical ovate, entire ; on the stems lanceolate, toothed : silic. elliptical, reticulated with veins.

L. all deltoid, petioled : silicles elliptical, reticulated with veins.

L. radical, oblong, crenate ; on the stems lanceolate, entire or entire.

316. CORONOPUS.

Silic. entire, crested with little sharp points : style extended : corymb. few-flow.

Silic. notched, didymous, with reticulated wrinkles : style obsolete : corymb. many-flow. *Lepidium, Eng. Bot.*

317. IBERIS.

Herbaceous : L. lanceolate, acute, slightly toothed : Fl. spiked.

318. ISATIS.

L. radical, crenate ; on the stem sagittate : silic. bluntish, smooth.

319. CAKILE. *Hort. Kew.*BUNIAS, *Eng. Bot.*

Silic. with 2-edged joints ; the upper one sagittate : L. fleshy, pinnatifid, slightly toothed.

320. CRAMBE.

L. sinuated, undulated, glaucous, smooth as well as the stem.

CLASS XV. TETRADYNAMIA.

ORDER II. SILIQUOSA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
321	DENTARIA.	CORAL-WORT.					
	1 bulbifera	bulbiferous	Sha. pl.!	purple...	4,5	P.	309.
322	CARDAMINE.	LADIES'-SMOCK.					
	*						
	1 bellidifolia	daisy-leaved	Sc. alps!	white ...	8	P.	2355.
	**						
	2 impatiens	impatiant	Alp. roc.	white ...	5,6	A.	80.
	3 hirsuta	hairy... ..	Moi.sh.p.	white ...	3-6	A.	492.
	4 pratensis	meadow.....	Mea. pas.	pnrple...	4,5	P.	776.
	5 amara.....	bitter	Wat. pl.!	white ...	4,5	P.	1000.
323	NASTURTIIUM.	WATER-CRESS					
	1 officinale	common.....	Rivulets	white ...	6,7	P.	*855.
	2 sylvestre	creeping rocket...	Wat. pl.	yellow...	6-9	P.	*2324.
	3 terrestre	annual rocket ...	Wat. pl.	yellow...	6-9	A.	*1747.
	4 amphibium.....	amphibious	Riv. ban.	yellow...	6-8	P.	*1840.
324	SISYMBRIUM.	ROCKET.					
	1 officinale	hedge-mustard ...	Waste gr	yellow...	6,7	A.	*735.
	2 Sophia	flix-weed	Waste gr	yellow...	7	A.	962.
	3 Irio	London	Walls...	yellow...	7,8	A.	1631.
325	BARBAREA.	WINTER-CRESS.					
	1 vulgaris	yellow rocket.....	Rubbish	yellow...	5-8	P.	*443.
	2 præcox	early	Brooks !	yellow...	4-10	B.	*1129.
326	ERYSIMUM.	HEDGE-MUSTARD.					
	1 Alliaria	garlick	Hedges	white ...	5	B.	796.
	2 cheiranthoides	treacle	Fields...	yellow...	7	A.	942.
	3 orientale	hare's ear	Cliffs ...	white ...	6	A.	*1804.

SPECIFIC CHARACTER.

321. DENTARIA.

Lower leaves pinnate ; upper simple.

322. CARDAMINE.

* *Leaves simple.*

L. simple, ovate, entire, about one-third the length of the petioles.

** *Leaves pinnate.*

L. pinnate ; leaf. lanceolate, cut or entire : stipulæ ciliated.

L. pinnate, without stipulæ ; leaf. roundish-oblong, cut, petioled.

L. pinnate ; radical leaf. roundish, toothed ; stem ones lanceolate.

L. pinnate ; radical leaf. roundish ; stem ones toothed-angular : stem taking root at the base.

323. NASTURTIUM.

SISYMBRIUM. *Eng. Bot.*

L. pinnate : leaf. roundish, heart-shaped.

L. pinnate : leaf. lanceolate, deeply serrated.

L. pinnatifid, unequally toothed : root simple : pet. shorter than the cal.

L. oblong, pinnatifid or serrated : pet. longer than the cal : root fibrous.

324. SISYMBRIUM.

Silique close-pressed to the stalk, awl-shaped : L. runcinate. *Erysimum. Eng. Bot.*

L. doubly pinnate, slightly hairy : pet. less than the calyx.

L. runcinate, toothed, naked : stem smooth : siliques erect.

325. BARBAREA.

ERYSIMUM. *Eng. Bot.*

Lower leaves lyrate ; terminal lobe roundish ; upper obovae, toothed.

Lower leaves lyrate ; upper pinnatifid ; segm. linear-oblong, entire.

326. ERYSIMUM.

L. heart-shaped.

L. lanceolate, slightly toothed : siliques erect : pedicels when in fruit spreading.

L. elliptic-heart-shaped, obtuse, clasping the stem, smooth, entire ; radical ones obovae. *Brassica. Eng. Bot.*

CLASS XV. TETRADYNAMIA.

ORDER II. SILIQUOSA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
327	CHEIRANTHUS.	WALL-FLOWER.					
	1 fruticulosus ...	wild... ..	Old walls	yellow...	5,6	P.	1934.
328	MATHIOLA.	STOCK.					
	1 incana	hoary shrubby ...	Cliffs !	purple...	5	P.	*1935.
	2 sinuata	sea	Sea shore	violet ...	8	B.	*462.
329	HESPERIS.	DAME'S VIOLET.					
	1 inodora	scentless	Pasture !	rose.....	5,6	P.	731.
330	ARABIS.	WALL-CRESS.					
	1 thaliana	common	Walls...	white ...	4	A.	901.
	2 stricta	Bristol rock	Rocks...	cream ...	5	P.	614.
	3 hispida	alpine rock.....	Alp. roc.	purple...	6,7	P.	*469.
	4 Turrita	tower	Walls !	sulphur	5	B.	178.
	5 ciliata.....	fringed	lr. shores	white ...	7	B.	*1746.
	6 hirsuta	hairy	Rocks...	white ...	5	P.	*587.
331	TURRITIS.	TOWER-MUSTARD.					
	1 glabra	smooth	Grav. pa.	white ...	5,6	A.	777.
332	BRASSICA.	CABBAGE.					
	1 campestris.....	field	Fields...	yellow...	6	A.	2234.
	2 Napus	rape	Dit. ban.	yellow...	5	B.	2146.
	3 Rapa	turnip	Corn fi.	yellow..	4	B.	2176.

SPECIFIC CHARACTER.

327. CHEIRANTHUS.

L. lanceolate, acute, hoary beneath, with very simple appressed pubescence : stem shrubby, branches angular.

328. MATHIOLA.

CHEIRANTHUS *Eng. Bot.*

L. lanceolate, obtuse, entire, hoary : siliques cylind.
L. downy, obtuse, sinuated : those on the branches entire : siliques compressed, prickly.

329. HESPERIS.

Stem erect : L. ovato-lanceolate, toothed, somewhat hastate at the base : petals obtuse.

330. ARABIS.

L. hairy, more or less toothed ; radical ones petioled : stem branched : siliques ascending.
L. toothed, obtuse, rough ; radical ones somewhat lyrate : stems hispid : petals erect.
L. radical leaves runcinate-lyrate, rough ; stem ones lanceolate : hairs forked : stems smooth, branched. *Cardamine hastulata. Eng. Bot.*
L. embracing the stem : siliques bent backward, flat, linear, with an incrassated margin.
L. somewhat toothed, smooth, fringed, bearded ; radical ones obovate ; the rest elliptical, half clasping the stem. *Turritis alpina. Eng. Bot.*
L. rough : stem hairy, hairs simple and spreading : siliques 4-angular. *Turritis. Eng. Bot.*

331. TURRITIS.

L. radical, toothed, rough ; on the stem entire, smooth and embracing.

332. BRASSICA.

1. Root and stem slender : L. cordate, acuminate, embracing the stem ; lower ones lyrate, toothed, somewhat rough.
2. Root caulescent, fusiform : L. smooth ; upper cordate-lanceolate, embracing the stem ; lower ones lyrate, toothed.
3. Root caulescent, orbicular, depressed, fleshy : radical leaves lyrate, rough ; those on the stem very entire, smooth.

CLASS XV. TETRADYNAMIA.

ORDER II. SILIQUOSA.

333

LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
BRASSICA.	CABBAGE.					
4 oleracea	sea	Cliffs ...	yellow...	5,6	B.	637.
5 menensis	dwarf sea	Sea shore	yellow...	6,7	P.	*962.
SINAPIS.	MUSTARD.					
1 arvensis	charlock.....	Corn fi.	yellow...	5	A.	1748.
2 alba	white	Corn fi.	yellow...	6	A.	1677.
3 nigra	common.....	Bor. of fi.	yellow...	6	A.	969.
4 tenuifolia	fine-leaved.....	Walls...	yellow...	7-10	P	*525.
5 muralis	sand	San. pl.	yellow...	8-10	A.	*1090.
RAPHANUS.	RADISH.					
1 Raphanistrum	wild	Corn fi.	yellow...	6,7	A.	856.
2 maritimus	sea	Sea co.	yellow...	6	B.	1643.

334

SPECIFIC CHARACTER.

BRASSICA.

Root caulescent, cylind. fleshy : L. all smooth, glaucous, waved or lobed.

L. pinnatifid : stem nakedish, smooth : siliques smooth ; beak one-seeded. *Sisymbrium*. *Eng. Bot.*

333. SINAPIS.

Siliques many-angled, rugged, longer than the 2-edged beak : L. ovate, somewhat lyrate.

Siliques hispid, rugged, shorter than the 2-edged beak : L. pinnatifid.

Siliques smooth, square, appressed to the stem : upper leaves linear-lanceolate, entire, smooth.

Siliques linear, smooth, with short beaks : L. lanceolate, acute, pinnatifid or bipinnatifid : stem smooth. *Sisymbrium*. *Eng. Bot.*

Siliques linear, smooth, with short beaks : L. sinuated, smooth : stem spreading, hairy. *Sisymbrium*. *Eng. Bot.*

334. RAPHANUS.

Siliques jointed, striated, 1-celled : L. simply lyrate.

Siliques jointed, striated, 1-celled : L. interruptedly lyrate.

Name	Age	Sex
John Smith	25	Male
Mary Jones	30	Female
Robert Brown	22	Male
Elizabeth White	28	Female
James Wilson	20	Male
Sarah Davis	24	Female
Thomas Miller	21	Male
Anna Taylor	26	Female
George Clark	19	Male
Charlotte Adams	23	Female
William Baker	27	Male

CLASS XVI.

MONADELPHIA.

ORDER II. PENTANDRIA.

ERODIUM. *Pistil* 1. *Cal.* 5-leaved. *Cor.* 5-pet. *Fruit* 5-grained, beaked; beak spirally twisted, bearded on the inside.

Linum, *Geranium* 8.

ORDER V. DECANDRIA.

GERANIUM. *Pistil* 1. *Cal.* 5-leaved. *Cor.* 5-pet. regular. *Fruit* 5-grained, beaked; beak recurved, naked, simple.

Oxalis. *Spartium*. *Genista*. *Anthyllis*. *Ulex*. *Ononis*.

ORDER VIII. POLYANDRIA.

LAVATERA. *Pistils* many. *Cal.* double, outer 3-cleft. *Caps.* whorled, 1-seeded.

MALVA. *Pistils* many. *Cal.* double, outer 3-leaved. *Caps.* whorled, 1-seeded.

ALTHÆA. *Pistils* many. *Cal.* double, outer 9-cleft. *Caps.* whorled, 1-seeded.

CLASS XVI. MONADELPHIA. ORDER II. PENTANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
335	ERODIUM.	STORK'S-BILL.					
1	ciutarium	hemlock	Road si.	purple...	6-8	A.	1768.
2	moschatum ...	musky	M. past.	purple...	6,7	A.	902.
3	maritimum.....	sea	San. sh.	flesh ...	5-9	P.	646.

ORDER V. DECANDRIA.

336	GERANIUM.	CRANE'S-BILL.					
	1 phæum	dusky	M. thick.	blood ...	5,6	P.	322.
	2 nodosum	knotty	Mount.!	purple...	5,8	P.	1091.
	3 sylvaticum.....	wood	M. thick.	purple...	6,7	P.	121.
	4 pratense.....	crowfoot-leaved...	Mea. pas.	blue ...	6,7	P.	404.
	5 robertianum ..	stinking	Stony pl.	purple...	5-10	A.	1466.
	6 lucidum	shining	Stony pl.	rose.....	5-8	A.	75.
	7 molle	dove's foot.....	Waste gr	purple...	4-8	A.	778.
	8 pusillum.....	small-flowered ...	Waste gr	purple...	6-9	A.	385.
	9 pyrenaicum ...	mountain	Mea. pas.	purple...	7	P.	405.
	10 rotundifolium...	round-leaved	Grav. ba.	rose.....	6,7	A.	157.
	11 dissectum	jagged-leaved ...	Waste gr	purple...	5,6	A.	753.
	12 columbinum ...	long-stalked	Chal. ban.	rose.....	6,7	A.	239.
	13 sanguineum ...	bloody	Rocks...	blood ...	7-9	P.	272.

ORDER VIII. POLYANDRIA.

337	ALTHÆA.	MARSH-MALLOW.					
	1 officinalis	common	Salt mar.	flesh ...	7-9	P.	147.

SPECIFIC CHARACTER.

335. ERODIUM.

Pedunc. many-flow : L. pinnate ; leaf. sessile, pinnatifid, cut.

Pedunc. many-flow : L. pinnate ; leaf. almost sessile, elliptical, unequally cut.

Pedunc. about 3-flow : L. cordate, cut, crenate, rough : stems depressed.

ORDER V. DECANDRIA.

336. GERANIUM.

Pedunc. 2-flow. panicled, erect : cal. somewhat awned : caps. keeled, hispid at the base, wrinkled at the summit.

Pedunc. 2-flow : L. opposite, 3-lobed, serrated : caps. even, all hairy.

Pedunc. 2-flow. somewhat corymbose : L. 5-7 lobes, deeply notched, and serrated : caps. all hairy : stam. subulate.

Pedunc. 2-flow : L. 5-7 parted, notched and serrated : caps. all hairy : stam. deltoid at the base.

Pedunc. 2-flow : L. somewhat pedate, pinnatifid, 5-angled : cal. 10-angled : caps. rugose.

Pedunc. 2-flow : L. 5-lobed, roundish : cal. transversely wrinkled : caps. many-keeled.

Pedunc. 2-flow. alternate the leaves : L. roundish, lobed, downy : caps. wrinkled, smooth.

Pedunc. 2-flow : L. reniform, palmate, cut : caps. even, hairy : seeds smooth.

Pedunc. 2-flow : pet. twice as long as the cal : L. reniform, lobed : caps. even, slightly pubescent.

Pedunc. 2-flow : petals entire : L. reniform, cut, downy : caps. hairy : seeds reticulated.

Pedunc. 2-flow : petals notched : L. 5-parted, laciniated : caps. hairy : seeds reticulated.

Pedunc. 2-flow. thrice as long as the leaves : L. 5-parted, many-cleft : caps. smooth : seeds reticulated.

Pedunc. 1-flow : L. 5-parted, 3-cleft, roundish : caps. bristly at the apex.

ORDER VIII. POLYANDRIA.

337. ALTHÆA.

1. simple, downy, slightly 5-lobed.

CLASS XVI. MONADELPHIA. ORDER VIII. POLYANDRIA.

338

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flow r.	Time of Flowering.	Duration.	Figure in English Botany.
MALVA.	MALLOW.					
1 <i>sylvestris</i>	common	Waste pl.	purple...	5-8	P.	671.
2 <i>rotundifolia</i> ...	dwarf	Road si.	flesh ...	6-9	A.	1092.
3 <i>moschata</i>	musk	Bor. of fi.	rose ...	7,8	P.	754.
LAVATERA.	TREE-MALLOW.					
1 <i>arborea</i>	sea	Sea cliff!	purple...	7-10	B.	1841.

339

CLASS XVI. MONADELPHIA. ORDER VIII. POLYANDRIA.

SPECIFIC CHARACTER.

338. MALVA.

Stem erect, herbaceous : L. 7-lobed, acute : pedunc. and petioles hairy.

Stems prostrate : L. cordate-orbicular, 5-lobed : fruit stalks declining.
L. radical, reniform, cut ; on the stem 5-parted, pinnate-multifid : cal. hairy.

339. LAVATERA.

Stem arborescent : L. 7-angled, downy, plaited : pedunc. axillary, crowded, 1-flow.

CLASS XVII.

DIADELPHIA.

ORDER II. HEXANDRIA.

340. FUMARIA. *Cal.* 2-leaved. *Cor.* ringent, gibbous at the base, nectariferous. *Filam.* with 3 anthers.

ORDER III. OCTANDRIA.

341. POLYGALA. *Cal.* 5-leaved; 2 leaf. wing-like, coloured. *Cor.* standard cylindrical. *Pod* obcordate, 2-celled.

ORDER IV. DECANDRIA.

* *Stam.* all connected, or monadelphous; tube frequently cleft above.

342. SPARTIUM. *Filam.* adhering to the germen. *Stig.* adnate, downy.
343. GENISTA. *Pistil* depressing the keel. *Standard* reflexed.
344. ULEX. *Cal.* 2-leaved. *Pods* scarcely longer than the calyx.
346. ANTHYLLIS. *Cal.* turgid, inclosing the pod.
345. ONONIS. *Cal.* 5-parted. *Pods* rhomboid, sessile. *Standard* striated.

** *Stigma* pubescent, (without the marks of the first division.)

348. OROBUS. *Style* linear, almost cylindrical, downy above.
347. PISUM. *Style* keeled and downy above.
349. LATHYRUS. *Style* flat and downy above.
350. VICIA. *Style* bearded under the stigma.
351. ERVUM. *Stigma* capitate, pubescent on every part.

*** *Pod* 2-celled, (without the marks of the first and second divisions.)

355. ASTRAGALUS. *Pod* 2-celled, gibbous.

**** *Pod* generally 1-seeded, (without the marks of the former divisions.)

356. TRIFOLIUM. *Pod* scarcely longer than the calyx, 1 or many-seeded, not opening, deciduous. *Flow.* capitate.

*** *Pod somewhat jointed, (without the marks of the former divisions.)*

- . HEDYSARUM. *Pod* joints compressed, 1-seeded. *Keel* very obtuse.
- . ORNITHOPUS. *Pod* jointed, bowed, cylindrical.
- . HIPPOCREPIS. *Pod* compressed, membranous; one edge with many curved notches.
- . MEDICAGO. *Pod* spiral, compressed. *Pistil* pressing down the keel.

**** *Pod 1-celled, many-seeded, (without the marks of the former divisions.)*

- LOTUS. *Pod* cylindrical, stuffed. *Wings* converging longitudinally upwards.

CLASS XVII. DIADELPHIA.

ORDER II. HEXANDRIA.

340

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
FUMARIA.	FUMITORY.					
1 solida	solid bulbous	Groves	purpleish	4,5	P.	1471.
2 lutea	yellow	Old walls	yellow...	5	P.	588.
3 officinalis	common	Cult. gr.	rose.....	5-8	A.	589.
4 parviflora	small flowered ...	Corn fi.	rose.....	8,9	A.	590.
5 capreolata	ramping	Corn fi.!	flesh ...	6-9	A.	943.
6 claviculata.....	white climbing ...	Thickets	white ...	6,7	A.	103.

ORDER III. OCTANDRIA.

341

POLYGALA.	MILK-WORT.					
1 vulgaris.....	common.....	Dry pas.	blue ...	6,7	P.	76.

ORDER IV. DECANDRIA.

342

SPARTIUM.	BROOM.					
1 scoparium	common.....	Dry hills	yellow...	5,6	S.	1339.

343

GENISTA.	GREEN-WEED.					
1 tinctoria.....	dyer's.....	Dry pas.	yellow...	7,8	S.	44.
2 pilosa	hairy	San. hea.!	yellow...	5	S.	208.
3 anglica	needle	Moi. hea.	yellow...	5,6	S.	132.

344

ULEX.	FURZE.					
1 europæus	common.....	San. hea.	yellow...	5-12	S.	742.
2 nanus.....	dwarf.....	Dry hea.	yellow...	8-10	S.	743.

345

ONONIS.	REST-HARROW.					
1 arvensis	common.....	Bar. pas.	rose.....	6-8	P.	682.

SPECIFIC CHARACTER.

340. FUMARIA.

- Stem simple, erect: L. biternate: bractæ palmate, longer than the pedunc.
 Pods almost cylind. shorter than the pedunc: stems angular: bractæ minute: spur very short, rounded.
 Spikes loose: pods 1-seeded, globose, notched: stem diffuse: leaf. with dilated segments.
 Spikes loose: pods 1-seeded, globose, acuminate: stem diffuse: leaf. with linear channelled segments.
 Spikes loose: pods 1-seeded, globose: stem climbing: petioles twisted: leaf. wedge-shaped, lobed.
 Pods lanceolate, smooth, generally 3-seeded: stem climbing: petioles tendrilled.

ORDER III. OCTANDRIA.

341. POLYGALA.

- Fl. racemose, crested: stems herbaceous, simple, procumbent: L. linear lanceolate.

ORDER IV. DECANDRIA.

342. SPARTIUM.

- L. ternate and solitary: branches thornless, angular.

343. GENISTA.

- L. lanceolate, smooth: branches cylind. striated, erect, thornless.
 L. obovate-lanceolate, obtuse, hairy beneath: stem tubercled, decumbent, without thorns.
 Spines simple: flowering branches without spines: L. ovate-lanceolate.

344. ULEX.

- L. calyx-teeth indistinct, converging: bractæ ovate, loose: branches erect.
 L. calyx-teeth lanceolate, spreading: bractæ minute, close-pressed: branches reclining.

345. ONONIS.

- Stem hairy: branches at length spinous: Fl. mostly solitary: L. generally simple, entire behind.

CLASS XVII. DIADELPHIA.

ORDER IV. DECANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
346	ANTHYLLIS.	KIDNEY-VETCH.					
	1 vulneraria	lady's finger	Chal. pas.	yellow...	6-8	P.	104.
347	PISUM.	PEA.					
	1 maritimum.....	sea	Sea shore	blue ...	7	P.	1046.
348	OROBUS.	BITTER-VETCH.					
	1 tuberosus	heath	Heaths	purple...	5,6	P.	1153.
	2 sylvaticus	wood	M. wo.!	cream ...	5,6	P.	518.
349	LATHYRUS.	LATHYRUS.					
	*						
	1 Aphaca	yellow vetchling	San. fi.!	yellow...	6-8	A.	1167.
	2 Nissolia.....	crimson grassy ...	Bushy pl.	crimson	5	A.	112.
	*						
	3 hirsutus.....	rough podded ...	Bor. of fi!	purple...	7	A.	1255.
	*						
	4 pratensis	yellow meadow...	Mea. pas.	yellow...	7,8	P.	670.
	5 sylvestris	narrow-leaved ...	Moi. wo.	purple...	7,8	P.	805.
	6 latifolius	everlasting pea...	Woods !	rose.....	7,8	P.	1108.
	7 palustris	marsh	Moi. wo.	blue.....	7,8	P.	169.
350	VICIA.	VETCH.					
	*						
	1 sylvatica	wood	Moi. wo.	white ...	7,8	P.	79.
	2 Cracca	tufted.....	Hedges	violet ...	7,8	P.	1168.
	*						
	3 sativa.....	common	Corn fi.	purple...	5,6	A.	334.
	4 lathyroides ...	spring	Fallow fi.	blue.....	4,5	A.	30.
	5 lutea	rough-podded ...	Sea shore	yellow...	8	P.	461.

SPECIFIC CHARACTER.

346. ANTHYLLIS.

Herbaceous: L. pinnate, unequal: head double.

347. PISUM.

Petioles flattish above: stem angular, stipulæ sagittate: peduncles many-flow.

348. OROBUS.

L. pinnate, elliptic-lanceolate: stipulæ semi-sagittate, toothed at the base: stem simple.
Stems decumbent, hirsute, branched: leafl. numerous.

349. LATHYRUS.

* *Peduncles 1-flowered.*

1. Endrils leafless: stipulæ sagittate-cordate.
2. Pedunc. mostly 1-flow: L. simple: stipulæ awl-shaped.

*** *Peduncles 2-flowered.*

3. Endrils 2-leaved; leafl. linear-lanceolate: pods hairy: seeds rough.

*** *Peduncles many-flow.*

4. Endrils 2-leaved, mostly simple; leaflets lanceolate.
5. Endrils 2-leaved; leaflets ensiform: stem winged.
6. Endrils 2-leaved; leaflets elliptical: stem winged.
7. Endrils many-leaved: stipulæ lanceolate, acuminate.

350. VICIA.

* *Pedunc. elongated, many-flow.*

1. Leaf. elliptical: stipulæ lunate, toothed.
2. Pubescent: leaf. lanceolate, pubescent: stipulæ semi-sagittate, mostly entire.

*** *Flowers axillary, almost sessile.*

3. Sts sessile, mostly in pairs, nearly erect: lower leaves blunt: stipulæ marked, toothed: seeds smooth.
4. Sts sessile, solitary, smooth: L. about 3-pair; lowermost blunt: stipulæ entire: seeds tubercled.
5. Sts sessile, solitary, hairy, reflexed: stems diffuse: stipulæ coloured: standard smooth.

CLASS XVII. DIADELPHIA.

ORDER IV. DECANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	VICIA.	VETCH.					
	6 hybrida	hairy flowered yel.	Thickets!	yellow...	6	P.	462.
	7 levigata.....	smooth-podded ...	Sea sh.!	purple...	8	P.	463.
	8 sepium	bush	Hedges	blue.....	5,6	P.	1515.
	9 bithynica	rough-podded ...	San. fi.!	purple...	7,8	P.	1842.
351	ERVUM.	TARE.					
	1 tetraspermum	smooth	Corn fi.	purple...	6	A.	1223.
	2 hirsutum	hairy	Corn fi.	blue.....	6	A.	970.
352	ORNITHOPUS.	BIRD'S-FOOT.					
	1 perpusillus.....	common	Dry pas.	reddish	5	A.	369.
353	HIPPOCREPIS.	HORSE-SHOE-VETCH.					
	1 comosa	tufted.....	Chal. hil.	yellow...	5-8	P.	31.
354	HEDYSARUM.	SAINTFOIN.					
	1 Onobrychis ...	common	Chal. pas.	rose.....	6,7	P.	96.
355	ASTRAGALUS.	MILK-VETCH.					
	1 glycyphyllos ...	sweet.....	Chal. wo.	yellow...	6	P.	203.
	2 hypoglottis ...	purple mountain .	San. hea.	purple...	6,7	P.	274.
	3 uralensis	hairy mountain ...	Sc. alps	purple...	7	P.	466.
	4 campestris.....	yellowish mount.	Highlan.	varieg...	7	P.	2522.
356	TRIFOLIUM.	TREFOIL.					
	1 officinale.....	melilot	Bushy pl.	yellow...	6,7	A.	1340.
	2 ornithopodioides	bird's-foot	Bar. hea.	reddish	6,7	A.	1047.
	3 repens	white clover	Meadow	white ...	5-9	P.	1769.

SPECIFIC CHARACTER.

VICIA.

- 1 Pods sessile, solitary, reflexed, hairy: standard villous: leaf. notched.
- 2 Pods sessile, solitary, reflexed, smooth: stems nearly erect: L. very smooth.
- 3 Pods on stalks, about four together, erect, smooth: leaf. ovate, obtuse: outer ones gradually smaller.
- 4 Pods on stalks, solitary, erect, rough: leaf. 2-pair, elliptic-lanceolate: stipulæ toothed.

351. ERVUM.

- 1 Pedunc. 2-flow: pods smooth, many-seeded.
- 2 Pedunc. many-flow: pods hairy, 2-seeded.

352. ORNITHOPUS.

- 1 Pinnate: pods incurved.

353. HIPPOCREPIS.

- 1 Pods peduncled, crowded, bowed, waved on the outer margin.

354. HEDYSARUM.

- 1 Pinnate: pods 1-seeded, acuminate: wings of the cor. as long as the calyx: stem elongated.

355. ASTRAGALUS.

- 1 Caulescent, prostrate: pods almost triangular, bowed: L. longer than the peduncle; leaf. ovate.
- 2 Caulescent, prostrate: Fl. capitate: pods ovate, hairy, channelled on the back, hooked at the apex.
- 3 Stemless: stalk erect, longer than the leaves: pods oblong, inflated, villous, erect.
- 4 Stemless: stalk ascending: leaf. lanceolate, acute: pods ovate, inflated, villous, erect.

356. TRIFOLIUM.

* *Pods naked, many-seeded.*

- 1 Pods racemose, naked, 2-seeded, rugose, acute: stem erect.
- 2 Pods naked, 8-seeded, mostly 3-together, twice as long as the calyx: stems declining.

** *Pods covered, many-seeded.*

- 3 Heads like umbels: pods 4-seeded: stem creeping.

CLASS XVII. DIADELPHIA.

ORDER IV. DECANDRIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
TRIFOLIUM. 三葉草	TREFOIL.					
4 subterraneum	subterraneous ...	Bar. hea.	white ...	5	A.	1048.
5 ochroleucum ...	sulphur-coloured	Dry past.	sulphur	6,7	P.	1224.
6 pratense.....	common red clover	Mea. pas.	purple...	5-9	P.	1770.
7 medium	zigzag	Dry past.	purple...	7	P.	190.
8 maritimum.....	teasel-headed ...	Salt mar.	purple...	6,7	A.	220.
9 stellatum	starry-headed ...	So. coast	purple...	7	A.	1546.
10 arvense	hare's-foot.....	San. fi....	flesh ...	7,8	A.	944.
11 scabrum.....	rough.....	San. fi....	white ...	5,6	A.	903.
12 glomeratum ...	round-headed ...	Grav. pa.	rose.....	6	A.	1063.
13 striatum.....	soft-knotted	Bar. gro.	purple...	6	A.	1843.
14 suffocatum.....	suffocated	Sea shore	white ...	6,7	A.	1049.
 三葉草						
15 fragiferum.....	strawberry-headed	Moi. pas.	flesh ...	7,8	P.	1050.
 三葉草						
16 procumbens ...	hop.....	Dry past.	yellow...	6,7	A.	945.
17 minus.....	lesser yellow.....	Grav. gr.	yellow...	6,7	A.	1256.
18 filiforme.....	slender yellow ...	Grav. pas.	yellow...	6,7	A.	1257.
 357	LOTUS.	BIRD'S-FOOT TREFOIL.				
1 corniculatus ...	common.....	Pasture	yellow...	6-8	P.	2090.
2 major.....	greater	Wet s.gr.	yellow...	7,8	P.	2091.
3 diffusus	slender	Rocks ...	yellow...	5,6	P.?	925.

SPECIFIC CHARACTER.

TRIFOLIUM.

*** *Calyxes generally villous.*

Heads villous, about 4-flow : involucre central, reflexed, rigid, star-like, embracing the fruit.

Head villous : stem erect, pubescent : lower leaf. obcordate : lower tooth of the calyx very long.

Spikes dense : stems ascending : cor. unequal : cal. with four of the teeth equal : stipulæ awned.

Spikes loose : stems flexuose, branched : cor. nearly equal : stipulæ linear, awl-shaped.

Spikes hairy, globose : cal. teeth leafy, at length spreading : stipulæ lanceolate : leaf. obovate.

Spikes hairy : stipulæ elliptical : cal. teeth leafy, equal : stem diffuse : leaf. obcordate.

Spikes very villous, cylind. calyx-teeth setaceous, longer than the cor. : leaf. obovate-linear.

Heads sessile, lateral, ovate : calyx-teeth unequal, permanent, rigid, recurved.

Heads hemispherical, sessile, lateral, smooth : calyx-teeth cordate, reflexed, veiny.

Heads sessile, lateral and terminal, ovate : cal. elliptical, hairy, furrowed ; teeth setaceous.

Heads sessile, lateral, roundish, almost smooth : calyx-teeth lanceolate, acute, recurved, longer than the corolla.

**** *Calyxes inflated, ventricose.*

Heads roundish : cal. inflated, 2-toothed, reflexed : stems creeping.

***** *Standards deflexed, at length scarious.*

Spikes oval, imbricated : standard deflexed, permanent, furrowed : stems procumbent : leaf. obovate.

Spikes hemispherical : pedunc. straight : standard nearly smooth : stems prostrate : common petiole shortest at the base.

Spikes of few-flow. lax : pedunc. waved : standard smooth : stems prostrate : leaf. all nearly sessile.

357. LOTUS.

Heads depressed, few-flow : stems decumbent, solid : pods cylind. spreading : claw of the keel obovate.

Heads depressed, many-flow : stems erect, hollow : pods cylind. spreading : claw of the keel linear.

Pedunc. mostly 1-flow : stem much branched, decumbent : L. and cal. hairy : pods cylind. straight, very slender.

CLASS XVII. DIADELPHIA.

ORDER IV. DECANDRIA.

358

LINNEAN NAMES.		ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
MEDICAGO.		MEDICK.					
1	sativa §	lucerne	Mea. pas.	violet ...	6,7	P.	1749.
2	falcata	yellow	Bor. offi.	yellow...	7	P.	1016.
3	lupulina	nonesuch	Pasture	yellow...	5-8	A.	971.
4	maculata	spotted	Grav.pas.	yellow...	5,6	A.	*1616.
5	muricata	flat-toothed	Sea co.	yellow...	6	A.	.....
6	minima	little bur	Chal.so.	yellow...	6	A.	.....

SPECIFIC CHARACTER.

358. MEDICAGO.

Pedunc. racemose : pods twisted : stem erect, smooth.

Pedunc. racemose : pods lunate : stem procumbent.

Spikes ovate : pods reniform, veiny, wrinkled, 1-seeded : stem procumbent.

Pedunc. 2 or 3-flow : leaf. obcordate, spotted : stipulæ dilated : pods depressed, fringed with long bristles. *M. polymorpha*, Eng. Bot.

Pedunc. 2 or 3-flow : stipulæ deeply toothed : leaf. obovate : pods depressed, with short radiating teeth. *Pluk. Phyt. t. 113. f. 6.*

Pedunc. many-flow : stipulæ half-ovate, undivided : leaf. obovate : pods orbicular, hairy, with divaricated hooked spines. *Flor. Dan. t. 211.*

CLASS XVIII.

POLYADELPHIA.

ORDER IV. POLYANDRIA.

1. HYPERICUM. *Cal.* 5-parted, inferior. *Pct.* 5. *Filam.* in 3 or 5 sets, united at the base. *Caps.* many-seeded.

CLASS XVIII. POLYADELPHIA. ORDER IV. POLYANDRIA.

359

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
HYPERICUM.	ST. JOHN'S WORT.					
1 calycinum § ...	large-flowered ...	Ir. thick	yellow...	7,9	P.	2017.
2 Androsæum	tutsan	Woods !	yellow...	7,8	P.	1225.
3 quadrangulum	square	Moi-mea.	yellow...	7,8	P.	370.
4 perforatum.....	perforated	Bushy pl.	yellow...	7,8	P.	295.
5 dubium	imperforated	M. thick.	yellow...	7,8	P.	296.
6 humifusum.....	trailing	Pastures	yellow...	7	P.	1226.
7 montanum	mountain	M. woods	yellow...	7	P.	371.
8 barbatum	bearded	Sc. thick	yellow...	9,10	P.	1936.
9 hirsutum	hairy	Chal. ban	yellow...	6,7	P.	1156.
10 pulchrum	small upright ...	Woods	yellow...	7	P.	1227.
11 elodes.....	marsh	Sp. bogs	yellow...	7,8	P.	109.

CLASS XVIII. POLYADELPHIA. ORDER IV. POLYANDRIA.

SPECIFIC CHARACTER.

359. HYPERICUM.

- Styles 5: fl. solitary: stem shrubby, branched, square: cal. segments blunt: L. oblong.
- Styles 3: caps berry-like: stem shrubby, 2-edged.
- Styles 3: stem quadrangular, herbaceous: L. with pellucid dots: leaf. of the calyx lanceolate.
- Styles 3: stem 2-edged: L. obtuse, with pellucid dots: leaf. of the calyx lanceolate.
- Styles 3: stem obsoletely quadrangular: L. obtuse, without dots: leaf. of the calyx elliptical.
- Styles 3: fl. somewhat cymose: stem 2-edged, prostrate: L. elliptical, smooth.
- Styles 3: cal. with glandular serratures: stem erect, cylindrical, smooth: L. ovate, naked.
- Styles 3: cal. and pet, fringed, and dotted: L. ovate, smooth: stem erect, slightly angular.
- Styles 3: cal. with glandular serratures: stem erect, cylindrical: L. ovate, pubescent.
- Styles 3: cal. with glandular serratures: stem cylindrical: L. embracing the stem, cordate, smooth.
- Styles 3: stem cylind. creeping, villous as well as the leaves, which are roundish: panicle few-flow.

CLASS XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

376. *CARDUUS*. *Cal.* ventricose, imbricated; scales spinous. *Recept.* hairy. *Pappus* deciduous, capillary, rough.
 377. *CNICUS*. *Cal.* ventricose, imbricated; scales spinous. *Recept.* hairy. *Pappus* deciduous, plumose.
 378. *OXOPORDUM*. *Cal.* ventricose; scales spreading, spinous. *Recept.* honey-combed, somewhat chaffy.
 375. *SERRATULA*. *Cal.* nearly cylindrical, imbricated; scales not prickly. *Pappus* permanent.
Centaurea 2.

*** *Florets all tubular, erect, parallel, dense, flattish at top.*

381. *EUPATORIUM*. *Recept.* naked. *Pappus* rough. *Cal.* oblong, imbricated. *Style* semibifid, projecting.
 382. *CHRYSOCOMA*. *Recept.* naked. *Pappus* rough. *Cal.* imbricated, hemispherical. *Style* scarcely longer than the florets.
 380. *BIDENS*. *Recept.* chaffy. *Pappus* rough backwards. *Cal.* many-leaved. *Cor.* sometimes radiated.
 383. *SANTOLINA*. *Recept.* chaffy. *Pappus* 0. *Cal.* imbricated, hemispherical.
Tanacetum. *Senecio* 1. *Aster* 1. *Anthemis* 2.

ORDER II. POLYGAMIA SUPERFLUA.

* *Discoïd. Florets of the radius obsolete.*

384. *TANACETUM*. *Recept.* naked. *Seeds* crowned. *Cal.* hemispherical, imbricated. *Florets* of the radius 3-cleft, obsolete, sometimes none.
 388. *CONYZA*. *Recept.* naked. *Pappus* rough. *Cal.* imbricated, roundish. *Florets* of the radius 3-cleft.
 386. *GNAPHALIUM*. *Recept.* naked. *Cal.* converging, as high as the florets. *Florets* in the disk few, herm.; in the radius numerous, filiform, fem. all fertile. *Pappus* sessile, capillary, deciduous.
 387. *ANTENNARIA*. *Recept.* furrowed. *Cal.* imbricated, scarious, coloured. *Flor.* dioicous: male with anth. 2-awned at the base; stig. lopped, and pappus pencil-shaped: fem. filiform; stam. 0; pappus capillary.
 385. *ARTEMISIA*. *Recept.* naked or villous. *Pappus* 0. *Cal.* imbricated, scales rounded, converging. *Florets* of the radius subulate, entire.
Tussilago 2, 3.

** *Radiate. Florets of the radius ligulate.*

397. *BELLIS*. *Recept.* naked, conical. *Pappus* 0. *Cal.* hemispherical, scales equal. *Seeds* obovate.

SS XIX. SYNGENESIA. ORD. II. POLYGAMIA SUPERFLUA.

1. **MATRICARIA.** *Recept.* naked, almost cylindrical. *Pappus* 0. *Cal.* flattish, imbricated with scales, scariose at the margin.
2. **CHRYSANTHEMUM.** *Recept.* naked. *Pappus* 0. *Cal.* hemispherical, imbricated, with scales dilated, and membranous at the margin.
3. **PYRETHRUM.** *Recept.* naked. *Pappus* marginate. *Cal.* hemispherical, imbricated, with sharpish scales scariose at the margin.
4. **DORONICUM.** *Recept.* naked. *Pappus* simple. *Seeds* of the radius awless. *Cal.* scales in a double order, equal, longer than the disk.
5. **INULA.** *Recept.* naked. *Pappus* simple. *Cal.* imbricated. *Cor.* of the radius linear, very numerous. *Antheræ* with 2-bristles at the base.
- ERIGERON.** *Recept.* naked. *Pappus* simple. *Cal.* imbricated. *Cor.* of the radius linear, very narrow, numerous.
- SOLIDAGO.** *Recept.* naked, serobiculate. *Pappus* simple. *Cal.* imbricated with converging scales. *Florets* of the radius about 5.
- ASTER.** *Recept.* naked. *Pappus* simple. *Cal.* imbricated, lowermost scales spreading. *Florets* of the radius more than ten.
- SEXECIO.** *Recept.* naked. *Pappus* simple. *Cal.* cylindrical, many-leaved, equal, calyced; scales dead at the tip.
- TUSSILAGO.** *Recept.* naked. *Pappus* simple. *Cal.* simple, many-leaved, equal, somewhat membranous, ventricose at the base.
- CINERARIA.** *Recept.* naked. *Pappus* simple. *Cal.* simple, many-leaved, equal, cylindrical.
- ANTHEMIS.** *Recept.* chaffy. *Pappus* scarcely marginate. *Cal.* hemispherical; scales nearly equal. *Florets* of the radius more than 5, oblong.
- ACHILLEA.** *Recept.* chaffy. *Pappus* 0. *Cal.* ovate, imbricated, unequal. *Florets* of the radius 5-10, roundish, or orbiculate.

Bidens 2.

ORDER III. POLYGAMIA FRUSTRANEA.

4. **CENTAUREA.** *Recept.* bristly. *Pappus* simple. *Cor.* of the radius funnel-shaped, irregular, longer than those of the disk.

CLASS XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
360	TRAGOPOGON.	GOAT'S BEARD.					
	1 pratensis	yellow	Past. ...	yellow...	6	B.	434.
	2 porrifolius	salsafy, or purple	Moi. mea.	purple...	5,6	B.	638.
361	HELMINTHIA.	HELMINTHIA.					
	1 echioides	bristly	Bor. of fi.	yellow...	6,7	A.	*972.
362	PICRIS.	OX-TONGUE.					
	1 hieracioides ...	hawkweed	Bor. of fl.	yellow...	7,8	B.	196.
363	SONCHUS.	SOW-THISTLE.					
	1 cæruleus	blue	Alp. pas.!	blue ...	7,8	P.	2425.
	2 palustris	tall marsh	Riv. ban.	yellow...	7,8	P.	935.
	3 arvensis	corn	Corn fi.	yellow..	8	P.	674.
	4 oleraceus	commou.....	Fields...	yellow...	7-9	A.	843.
364	LACTUCA.	LETTUCE.					
	1 virosa.....	strong-scented ...	Chal. ban.	yellow...	8,9	B.	1957.
	2 Scariola	prickly	Rubble !	yellow...	8	B.	268.
	3 saligna	least	Chal. ban.	yellow...	8	B.	707.
365	PRENANTHES.	WALL-LETTUCE.					
	1 muralis	ivy-leaved	Woods	yellow...	7	P.	457.
366	LEONTODON.	DANDELION.					
	1 Taraxacum ...	common	Mea. pas.	yellow...	4-7	P.	510.
	2 palustre	marsh	Moi. pas.	yellow...	6,7	P.	553.
367	THRINCIA.	THRINCIA.					
	1 hirta	simple-haired ...	Grav. pa.	yellow...	7,8	P.	*555.

S XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

SPECIFIC CHARACTER.

360. TRAGOPOGON.

1 Calyx about equal to the corolla : L. entire, keeled, acuminate, dilated at the base : pedunc. cylind.

2 Cal. half as long again as the cor : L. entire, straight : pedunc. thicker upwards.

361. HELMINTHIA.

PICRIS, *Eng. Bot.*

1 L. waved ; upper ones heart-shaped, clasping the stem.

362. PICRIS.

1 Stem erect, rough : L. lanceolate, toothed, clasping the stem : Fl. corymbose : cal. lax.

363. SONCHUS.

1 Pedunc. and cal. bristly, racemose : L. somewhat lyrate ; terminal lobe large, deltoid.

2 Pedunc. and cal. bristly, somewhat umbellate : L. runcinate, sagittate at the base, rough in the margin.

3 Pedunc. and cal. bristly, somewhat umbellate : L. runcinate, denticulated, cordate at the base : root creeping.

4 Pedunc. tomentous : calyx smooth : L. runcinate, toothed.

364. LACTUCA.

1 L. horizontal, denticulated, prickly on the keel.

2 L. vertical, sinuated, denticulated, prickly on the keel.

3 L. hastate-linear or pinnatifid, sessile, prickly on the keel.

365. PRENANTHES.

1 Florets five : L. runcinate.

366. LEONTODON.

1 Outer scales of the calyx reflexed : L. runcinate, toothed, smooth.

2 Outer scales of the calyx shorter, erect, ovate : L. sinuated, toothed, almost smooth.

367. THRINCIA.

HEDYPNOIS, *Eng. Bot.*

1 Heads 1-flow : cal. smoothish, scaly at the base : L. lanceolate, toothed, rough.

CLASS XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Potany.
APARGIA.	HAWKBIT.					
1 hispida	rough.....	Chal. pas.	yellow...	7	P.	*554.
2 Taraxaci	alpine.....	Sc. alps	yellow...	8	P.	*1109.
3 autumnalis.....	autumnal	Mea. pas.	yellow...	8	P.	*630.
IIERACIUM.	HAWKWEED.					
*						
1 alpinum.....	alpine single flow.	Alp. roc.	yellow...	7	P.	1110.
2 Pilosella.....	mouse-ear	Dry past	yellow...	5-7	P.	1093.
* *						
3 dubium	branch. mouse-ear	Hills !	yellow...	7,8	P.	2332.
4 Auricula†.....	orange mouse-ear	Mount.	yellow...	7,8	P.	2368.
5 aurantiacum ...	great orange	Sc. wo.	orange...	7	P.	1469.
* * *						
6 murorum	wall	Rocks...	yellow...	7	P.	2082.
7 maculatum.....	stained-leaved ...	Alp. roc.	yellow...	6	P.	2121.
8 sylvaticum.....	wood	Rocks...	yellow...	8	P.	2031.
9 pulmonarium...	lungwort	Sc. roc.	yellow...	7	P.	2307.
10 Lawsoni	glaucous hairy ...	N. of Eng	yellow...	7	P.	2083.
11 paludosum.....	succory lea. mount	Mount.	yellow...	7	P.	1094.
12 molle	soft leaved.....	Sc. wo.	yellow...	7,8	P.	2210.
13 cerinthoides ...	honey-wort	Sc. roc.	yellow...	8	P.	2378.
14 villosum.....	shaggy alpine ...	Alp. roc.	yellow...	8	P.	2379.
15 sabaudum	shrubby broad leav.	Groves	yellow...	8,9	P.	349.
16 denticulatum ...	small-toothed ...	Sc. wo.	yellow...	8,9	P.	2122.

368

369

SPECIFIC CHARACTER.

368. APARGIA.

HEDYPTIS, Eng. Bot.

- Stalks 1-flow : L. toothed, rough : florets hairy at their orifice : glandular at the apex.
- Stalks mostly 1-flow : L. with reversed teeth, smooth : calyx hairy.
- Stalks branched : pedicels scaly : L. lanceolate, toothed or pinnatifid, nearly smooth.

369. HIERACIUM.

* *Stalk naked, 1-flow.*

- L. oblong, entire, toothed : stalk almost naked, 1-flow : calyx hairy.
- L. elliptical, very entire, downy beneath : stolons creeping.

** *Stalk naked, many-flow.*

- L. elliptic-lanceolate, mostly very entire, hairy : stolons creeping.
- L. lanceolate, entire : stolons creeping : stalk almost naked, umbelled.
- L. elliptical, entire : stalk almost naked, simple, hairy, corymbiferous.

*** *Stem leafy.*

- Stem corymbose, 1-leaved : L. cordate-ovate, waved, toothed backwards, chiefly at the base.
- Stem hollow, cymose, many-leaved : L. ovate-lanceolate, with teeth, pointing forward.
- Stem panicled, leafy : L. ovate-lanceolate, toothed, chiefly at the base ; teeth pointing forward.
- Stem cymose, solid, few-leaved : L. lanceolate, deeply toothed ; teeth pointing forward.
- Stem branched, few-leaved : L. elliptic-lanceolate, decurrent, glaucous, fringed, nearly entire.
- Stem panicled, hollow : L. cordate, embracing the stem, toothed, smooth : calyx rough.
- Stem panicled, hollow : L. lanceolate, obsoletely toothed, hairy, embracing the stem ; lower ones petioled.
- Stem corymbose, solid : L. hairy, somewhat toothed ; upper ones half clasping the stem ; radical ones ovate, decurrent.
- Stem leafy, somewhat branched : L. hairy, wavy, and toothed ; radical ones lanceolate ; those on the stem ovate, embracing.
- Stem erect, many-flow : L. ovate-lanceolate, toothed, serrated, half-embracing the stem, rough beneath.
- Stem erect, many-flow : L. sessile, elliptic-lanceolate, finely toothed, smoothish, glaucous beneath : pedunc. downy.

CLASS XIX SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	HIERACIUM.	HAWK-WEED.					
	17 prenanthoides	rough-bordered...	Sco. wo.	yellow...	8,9	P.	2235.
	18 umbellatum ...	narrow leaved ...	Woods	yellow...	8,9	P.	1771.
370	CREPIS.	HAWK'S-BEARD.					
	1 fetida	stinking	Chal.pa.!	yellow...	6,7	B.	406.
	2 pulchra	small-flowered ...	Sc. roc.!	yellow...	6-9	A.	2325.
	3 tectorum	smooth	Pasture	yellow...	6-9	A.	1111.
	4 biennis	rough.....	Chal. pa.	yellow...	6,7	B.	149.
371	HYPOCHÆERIS.	CAT'S-EAR.					
	1 maculata	spotted	Chal. hil.	yellow...	7	P.	225.
	2 glabra	smooth	San. hea.	yellow...	6-8	A.	573.
	3 radicata	long rooted	Mea. pas.	yellow...	6-8	P.	231.
372	LAPSANA.	NIPPLE-WORT.					
	1 communis	common.....	Cult. gr.	yellow...	6,7	A.	344.
	2 pusilla	little	Grav. fi.	yellow...	6	A.	*96.
373	CICHORIUM.	SUCCORY.					
	1 Intybus	wild	Grav. so.	blue.....	7,8	P.	539.
374	ARCTIUM.	BURDOCK.					
	1 Lappa	common.....	Wa. gr.	purple...	7,8	B.	1223.
	2 Bardana.....	woolly-headed ...	Wa. gr.	purple...	7,8	B.	2473.
375	SERRATULA.	SAW-WORT.					
	1 tinctoria.....	common.....	Woods	purple...	7,8	P.	33.
	2 alpina.....	alpine.....	Alp. roc.	purple...	7,8	P.	599.

SS XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

SPECIFIC CHARACTER.

HIERACIUM.

Stem erect, many-flow: L. embracing the stem, somewhat toothed, rough at the edge; lower ones oblong: pedunc. downy.

Stem erect, somewhat umbellate: L. linear, slightly toothed, scattered.

370. CREPIS.

L. runcinate-pinnatifid, hairy: petioles toothed: stem hairy: calyx tomentous.

L. downy, toothed; those on the stem somewhat arrowshaped: stem paniced, corymbose: cal. pyramidal, smooth.

L. radical runcinate; those on the stem embracing, lanceolate, toothed: stem smooth.

L. runcinate-pinnatifid, rough; forepart of the lobes toothed: calyx bristly, somewhat tomentous.

371. HYPOCHÆRIS.

Stem solitary, nearly naked, mostly simple: L. ovate-oblong, entire, toothed.

Almost smooth: cal. oblong, imbricated: stems branched, somewhat leafy: L. dentate-sinuated.

L. runcinate, obtuse, rough: stems branched, naked, smooth: peduncles scaly.

372. LAPSANA.

Cal. when in fruit angular: stem paniced, peduncles filiform.

Stemless: stalks subdivided, swelling and hollow at top: L. obovate.
Hypocis minima. Eng. Bot.

373. CICHORIUM.

Fl. in pairs, sessile: L. runcinate.

374. ARCTIUM.

L. cordate, without prickles, petioled: cal. without cottony down.

L. cordate, without prickles, petioled, nearly entire: cal. interwoven with cottony down.

375. SERRATULA.

L. serrated, finely ciliated, lyrate-pinnatifid; terminal lobe largest: florets uniform: pappus roughish.

Cal. somewhat hairy, ovate: L. undivided, woolly beneath: pappus plumose.

CLASS XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
376	CARDUUS.	THISTLE.					
	*						
	1 nutans	musk	Grav. fi.	purple...	7,8	A.	1112.
	2 acanthoides ...	welted	Wa. gr.	purple...	6,7	A.	973.
	3 tenuiflorus	slender flowered	Banks !	purple...	6,7	A.	412.
	**						
	4 marianus	milk	Banks...	purple...	8	A.	976.
377	CNICUS.	PLUME-THISTLE.					
	*						
	1 lanceolatus ...	spear	Bauks ...	purple...	6,9	B.	*107.
	2 palustris	marsh.....	Moi.pas.	purple...	7,8	B.	*974.
	**						
	3 arvensis.....	creeping.....	Road si.	purple...	7	P.	*975.
	4 eriophorus	woolly-headed ...	Chal. pas.	purple...	8	B.	*386.
	5 tuberosus	tuberous.....	Woods !	purple...	8	P.	2562.
	6 heterophyllus	melancholy	M.Alp. p.	purple...	7,8	P.	*675.
	7 pratensis	meadow	Moi. pas.	purple...	6	P.	*177.
	8 acaulis	dwarf.....	Grav.pas.	purple...	7,8	P.	*161.
378	ONOPORDUM.	COTTON-THISTLE.					
	1 Acanthium ...	common	Grav. ba.	purple...	7	B.	977.
379	CARLINA.	CARLINE-THISTLE.					
	1 vulgaris	common	Dry pas.	pur. ish.	6	B.	1144.

CLASS XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

SPECIFIC CHARACTER.

376. CARDUUS.

* *Leaves decurrent.*

- 1 L. interruptedly decurrent, spinous : flow. drooping : cal. scales lanceolate, spreading upwards.
- 2 L. decurrent, sinuated, spinous : cal. globular, somewhat peduncled : scales linear, recurved.
- 3 L. decurrent, sinuated, spinous, tomentous : cal. almost cylindrical, aggregate, sessile : scales lanceolate, nearly erect.

** *Leaves sessile.*

- 4 L. embracing the stem, wavy, spinous ; radical ones pinnatifid : cal. scales leafy, bent backward, spinous at the margin.

377. CNICUS.

* *Leaves decurrent.*

- 1 L. decurrent, pinnatifid, hispid ; segments divaricated : cal. ovate, villous : stem hairy. *Carduus. Eng. Bot.*
- 2 L. decurrent, pinnatifid, toothed, spinous, rough : cal. ovate, clustered, with minute spines. *Carduus. Eng. Bot.*

** *Leaves sessile.*

- 3 L. sessile, pinnatifid, spinous : stem panicled : cal. ovate, spines minute. *Carduus, Eng. Bot.*
- 4 L. sessile, bifariouly pinnatifid, spinous, rough ; alternate segments erect : cal. globose, villous. *Carduus, Eng. Bot.*
- 5 L. pinnatifid, lobed, fringed with prickles : stem unarmed, generally 2-flow : cal. rather spreading, leafy.
- 6 L. embracing the stem, lanceolate, ciliated, entire or laciniated, tomentous beneath : Fl. mostly solitary, pedunculated. *Carduus. Eng. Bot.*
- 7 L. sessile, lanceolate, slightly toothed, ciliated, woolly beneath : stem nearly naked, 1-flow : calyx villous. *Carduus. Eng. Bot.*
- 8 Stemless : calyx smooth. *Carduus. Eng. Bot.*

378. ONOPORDUM.

- 1 L. ovate-oblong, sinuated, woolly on both sides.

379. CARLINA.

- 1 Stem many flow. corymbose : Fl. terminal : outer calyx-scales pinnatifid ; inner white.

CLASS XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
380	BIDENS.	BUR-MARYGOLD.					
	1 tripartita	trifid	Wat. pl.	yellow	8,9	A.	1113.
	2 cernua	nodding	Ditches	yellow	9	A.	1114.
381	EUPATORIUM.	HEMP-AGRIMONY.					
	1 cannabinum ...	common	Wat. pl.	rose.....	7,8	P.	428.
382	CHRYSOCOMA.	GOLDY-LOCKS.					
	1 Linosyris	flax-leaved.....	Sea-cliffs	yellow	9	P.	2505.
383	SANTOLINA.	COTTON-WEED.					
	1 maritima	sea	Sea sho.!	yellow	8,9	P.	141.

ORDER II. POLYGAMIA SUPERFLUA.

384	TANACETUM.	TANSY.					
	1 vulgare	common	Road si.	yellow	7,8	P.	1229.
385	ARTEMISIA.	WORMWOOD					
	1 campestris.....	field	San. fi.!	brown	8	P.	338.
	2 maritima	drooping sea	Sea shore	brown	8	P.	1706.
	3 gallica	upright sea	Mud. sh.	brown	8	P.	*1001.
	4 Absinthium ...	common	Rubble	yellow	8	P.	1230.
	5 vulgaris	mugwort	Rubble	pur. ish.	8	P.	978.
	6 caerulescens†	blueish mugwort	Sea shore	yellow	8	P.	2426.
386	GNAPHALIUM.	CUD-WEED.					
	1 luteo-album ...	jersey.....	Sandy pl.	yellow...	7,8	A.	1002.

CLASS XIX. SYNGENESIA. ORDER I. POLYGAMIA ÆQUALIS.

SPECIFIC CHARACTER.

380. BIDENS.

- 1 L. 3-cleft : calyx leafy at the base : awns of the seeds 2 or 3, erect.
 2 L. lanceolate, serrated : Fl. drooping, leafy at the base : awns of the seed about 4, erect.

381. EUPATORIUM.

- 1 L. digitate.

382. CHRYSOCOMA.

Herbaceous : L. linear, smooth : calyx scales loosely spreading.

383. SANTOLINA.

Pedunc. corymbose : L. oblong, obtuse, crenated, very woolly.

ORDER II. POLYGAMIA SUPERFLUA.

384. TANACETUM.

L. bipinnatifid, deeply serrated, naked.

385. ARTEMISIA.

- L. many-cleft, linear : stems procumbent, rod-like.
 L. downy pinnated ; the uppermost undivided : racemes drooping :
 recept. naked : Fl. oblong, sessile.
 L. downy, pinnated ; the radical ones capillary ; the uppermost undi-
 vided : racemes erect : recept. naked : Fl. oblong. *A. maritima.*
Eng. Bot.
 L. many-parted, hoary with silky down : Fl. hemispherical, pendu-
 lous : recept. hairy.
 L. pinnatifid, flat, cut, tomentous beneath : racemes simple : Fl. ovate :
 recept. naked.
 L. hoary ; those on the stem lanceolate, entire ; lowermost many-cleft :
 Fl. cylindrical : recept. naked.

386. GNAPHALIUM.

* *Calyxes yellow.*

Herbaceous : L. half-embracing the stem, ensiform, waved, woolly on
 both sides ; lowermost obtuse : Fl. clustered.

CLASS XIX. SYNGENESIA. ORD. II. POLYGAMIA SUPERFLUA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	GNAPHALIUM.	CUD-WEED.					
	2 <i>sylvaticum</i>	highland	Alp. pas.	yellowish	8	P.	913.
	3 <i>rectum</i>	upright wood.....	San. pas.	yellowish	8	P.	124.
	4 <i>supinum</i>	dwarf.....	Sc. alps	yellowish	7	P.	1193.
	5 <i>uliginosum</i>	marsh.....	Wat. pl.	yellowish	8	A.	1194.
	6 <i>gallicum</i>	narrow leaved ...	San. fi.!	yellowish	7,8	A.	2369.
	7 <i>minimum</i>	least	San. pas.	yellowish	7	A.	1157.
	8 <i>germanicum</i> ...	common	San. fi....	yellowish	7,8	A.	946.
387	ANTENNARIA.	EVERLASTING.					
	1 <i>margaritacea</i> ...	pearl	Mea.!	yellow...	8	P.	*2018.
	2 <i>montana</i>	mountain	Dry m. p.	rose.....	6,7	P.	*267.
388	CONYZA.	SPIKENARD.					
	1 <i>squarrosa</i>	plowman's.....	Chal. pas.	yellow...	7,8	B.	1195.
389	ERIGERON.	FLEA-BANE.					
	1 <i>canadense</i> § ...	canada	Rubble	yellow...	8,9	A.	2019.
	2 <i>acre</i>	blue	Grav.pas.	blue.....	7,8	B.	1158.
	3 <i>alpinum</i>	alpine.....	Alp. rills	purple...	7	P.	464.
	4 <i>uniflorum</i>	pale mountain ...	Highlan.	purple...	7	P.	2416.
390	TUSSILAGO.	COLT'S-FOOT.					
	1 <i>Farfara</i>	common	Moi. pl.	yellow...	3,4	P.	429.
	2 <i>hybrida</i>	longer stalked ...	Moi.mea.	flesh ...	4	P.	430.
	3 <i>Petasites</i>	butter-bur	Moi.mea.	flesh ...	4	P.	431.

CLASS XIX. SYNGENESIA. ORD. II. POLYGAMIA SUPERFLUA.

SPECIFIC CHARACTER.

GNAPHALIUM.

** *Resembling the Filagos.*

- 2 Stem simple, erect : Fl. spiked : L. lanceolate, narrower at the base, woolly on both sides.
- 3 Stem erect : panicle many-flow : L. linear-lanceolate, almost naked on the upper surface.
- 4 Stem decumb. very simple, racemose, few-flow : L. linear-lanceolate, tomentous on both sides.
- 5 Stem much branched, diffuse : Fl. crowded, terminating.
- 6 Stem erect, branched : L. linear, revolute, acute : Fl. subulate, crowded, axillary.
- 7 Stem erect, branched : L. lanceolate, acute, flat : Fl. conical, somewhat crowded, lateral and terminal.
- 8 Stem erect, dichotomous : L. lanceolate : heads globose, many-flow, lateral and terminal.

387. ANTENNARIA. *Brown, Trans. Linn. Soc. XII. 122.*GNAPHALIUM, *Eng. Bot.*

- L. linear lanceolate, acuminate, alternate : stem branched above : corymb. fastigiate.
- L. radical spatulate, pointed, entire : shoots procumb : stem very simple : corymb. simple, terminal. *G. dioicum. Eng. Bot.*

388. CONYZA.

L. ovate-lanceolate, downy : stem herbaceous, corymbose : calyx-scales, leafy, recurved.

389. ERIGERON.

Stem hairy, paniced : L. lanceolate ; lowermost toothed.

Stem racemose : pedunc. mostly 1-flow : L. lanceolate-tongue-shaped, sessile.

Stems mostly 1-flow : calyx rather hairy : flor. of the radius spreading.

Stems mostly 1 flow : cal. hairy : flor. of the radius erect, somewhat tubular.

390. TUSSILAGO.

Scape 1-flow, scaly : L. cordate, angular, toothed.

Panicle oblong : female flor. numerous ; hermaphrodites very few : anthers separate.

Panicle ovate : flor. almost all hermaph. with united anthers.

CLASS XIX. SYNGENESIA. ORD. II. POLYGAMIA SUPERFLUA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
391	SENECIO.	RAG-WOHT.					
	1 vulgaris	common groundsel	Rubble	yellow...	3-10	A.	747.
	2 viscosus	stinking	Chal. ba!	yellow...	7-10	A.	32.
	3 lividus	green-scaled	Bar. hea.	yellow...	9,10	A.	2515.
	4 sylvaticus	mountain	Woods	yellow...	7	A.	748.
	5 squalidus	inelegant	Walls...	yellow...	6-10	A.	600.
	6 tenuifolius	hoary	Woods	yellow...	7,8	P.	574.
	7 Jacobæa.....	common	Dry past.	yellow...	7,8	P.	1130.
	8 aquaticus	marsh	Marshes	yellow...	7,8	P.	1131.
	9 paludosus	fen	Fens !...	yellow...	6,7	P.	650.
	10 saracenicus ...	broad leaved	Moi. pl.	yellow...	7,8	P.	2211.
392	ASTER.	STAR-WORT.					
	1 Tripolium	sea	Sea shore	blue.....	3,9	P.	37.
393	SOLIDAGO.	GOLDEN-ROD.					
	1 Virgaurea	common	Woods	yellow...	7-9	P.	301.
394	INULA.	INULA.					
	1 Helenium	elecampane	Moi. mea.	yellow...	7,8	P.	1546.
	2 dysenterica ...	common flea-bane	Wat. pl.	yellow...	8	P.	1115.
	3 pulicaria	small flea-bane ...	Moi. hea.	yellow...	9	A.	1196.
	4 erithmoides ...	samphire leaved	Salt mar.	yellow...	8	P.	68.

CLASS XIX. SYNGENESIA. ORD. II. POLYGAMIA SUPERFLUA.

SPECIFIC CHARACTER.

391. SENECIO.

* *Flowers flosculous.*

- 1 Fl. destitute of a radius, scattered: L. pinnate-sinuated, embracing the stem, toothed.

** *Flowers radiate, radius constantly revolute.*

- 2 L. pinnatifid, viscid: calyx-scales lax, almost as long as the cup: stem much branched, spreading.
 3 L. embracing the stem, lanceolate, pinnatifid, toothed: scales of the cal. short, with pale points.
 4 L. sessile, pinnatifid, lobed, toothed: calyx-scales short: stem erect, straight, corymbose.

*** *Flowers radiate, radius spreading: leaves pinnatifid.*

- 5 Fl. elliptical, very entire: L. pinnatifid; segments somewhat linear, distant.
 6 L. pinnatifid, somewhat revolute, paler and pubescent beneath: stem erect, cottony.
 7 L. lyrate-bipinnatifid, divaricated, toothed, smooth: stem erect.
 8 Fl. elliptical: L. lyrate, serrated; lowermost obovate, entire: seeds smooth.

**** *Flowers radiate, radius spreading: leaves undivided.*

Fl. corymbose: L. ensiform, acutely serrated, somewhat villous beneath: stem straight.

Fl. corymbose: L. lanceolate, serrated, smoothish.

392. ASTER.

L. lanceolate, entire, fleshy, smooth, obscurely 3-nerved: calyx-scales somewhat membranous, obtuse: fl. corymbose.

393. SOLIDAGO.

Stem somewhat zigzag, angular: racemes paniced, erect, crowded.

394. INULA.

- L. embracing the stem, ovate, wrinkled and downy beneath: calyx-scales ovate.
 L. embracing the stem, cordate oblong, downy: stem woolly, paniced: calyx-scales setaceous, hairy.
 L. embracing the stem, undulated: stem much branched, hairy: Fl. hemispherical: radius very short.
 L. linear, fleshy, generally 3-pointed; calyx smooth.

CLASS XIX. SYNGENESIA. ORD. II. POLYGAMIA SUPERFLUA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
395	CINERARIA.	FLEA-WORT.					
	1 palustris	marsh	Marshes	yellow...	6,7	P.	151.
	2 integrifolia.....	mountain	Chal. pa.	yellow...	5-7	P.	152.
396	DORONICUM.	LEOPARD'S-BANE.					
	1 Pardalianches	great	M. pas.!	yellow...	5	P.	630.
397	BELLIS.	DAISY.					
	1 perennis.....	common	Pasture	white ...	3-12	P.	424.
398	CHRYSANTHEMUM.	OX-EYE.					
	1 Leucanthemum	great white	Pasture	white ...	6,7	P.	601.
	2 segetum	yellow corn	Corn fi.	yellow...	6-8	A.	540.
399	PYRETHRUM.	FEVERFEW.					
	1 Parthenium ...	common.....	Rubble	white ...	6,7	P.	1231.
	2 inodorum	corn	Dry fi...	white ..	8,9	A.	676.
	3 maritimum.....	sea.....	Sea sho!	white ...	7	P.	979.
400	MATRICARIA.	MAY-WEED.					
	1 Chamomilla ...	wild chamomile...	Road si.	white ...	5,7	A.	1232.
401	ANTHEMIS.	CHAMOMILE.					
	*						
	1 maritima	sea.....	Sea coa.!	white ...	7	A.	2370.
	2 nobilis	common.....	Grav.pas.	white ...	8,9	P.	980.
	3 arvensis.....	corn	Dry fi....	white ...	6,7	A.B.	602.
	4 Cotula	stinking.....	Corn fi...	white ...	6,7	A.	1772.

SPECIFIC CHARACTER.

395. CINERARIA.

Fl. corymbose : L. broad-lanceolate, toothed or sinuated : stem villous leafy.

L. oblong, indistinctly denticulated, villous : umbel simple, involucre.

396. DORONICUM.

L. cordate, denticulated ; radical ones petioled ; those on the stem embracing.

397. BELLIS.

Scape naked, root creeping.

398. CHRYSANTHEMUM.

L. embracing the stem, oblong, obtuse, cut, pinnatifid at the base ; radical ones obovate, petioled.

L. embracing the stem, glaucous, laciniated upwards, toothed at the base.

399. PYRETHRUM.

L. petioled, compound, flat : leaf. ovate, cut : pedunc. branched, corymbose : stem erect.

L. sessile, pinnate, in many capillary segments : stem branched, spreading : crown of the seeds entire.

L. bipinnate, fleshy, awnless, convex above, keeled beneath : crown of the seeds lobed.

400. MATRICARIA.

L. pinnated, smooth : leaf. linear, entire or laciniated : radius spreading : calyx-scales dilated.

401. ANTHEMIS.

* *Radius of a different colour or white.*

L. bipinnatifid, acute, fleshy, somewhat hairy beneath : stem prostrate : calyx rather tomentous.

L. pinnate-decompound, filiform, acute, rather downy : scales of the receptacle scariosc, scarcely the length of the florets.

Recept. conical ; scales lanceolate, acute, keeled, projecting ; L. bipinnatifid, hairy.

Recept. conical ; scales setaceous : seeds without any crown or border : L. bipinnatifid, smoothish.

CLASS XIX. SYNGENESIA. ORDER II. POLYG. SUPERFLUA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
ANTHEMIS. **	CHAMOMILE.					
5 tinctoria.....	ox-eye	Stony pl.!	yellow...	7,8	P.	1472.
ACHILLEA.	YARROW.					
1 Ptarmica	sneeze-wort	Moi. pl.	white ...	7,8	P.	757.
2 serrata	serrated	Derbysh.	yellow...	8	P.	2531.
3 Millefolium ...	common	Pasture	white ...	6,8	P.	758.
4 tomentosa	woolly	Sc. pas.	yellow...	8	P.	2532.

ORDER III. POLYGAMIA FRUSTRANEA.

CENTAUREA. *	KNAPWEED.					
1 Jacea	brown radiated ...	Pastures!	purple...	8,9	P.	1678.
nigra	black lesser	Pastures	purple...	6-8	P.	278.
3 Cyanus	blue bottle.....	Corn fi.	blue ...	7,8	A.	277.
4 Scabiosa.....	greater	Corn fi.	purple...	7,8	F.	56.
Isnardi	Jersey	Jersey...	purple...	7,8	P.	2256.
Calcitrapa	com. star-thistle	Grav. so.	rose ...	7,8	A.	125
7 solstitialis	yel. star-thistle	Fields !	yellow...	7,8	A.	243

CLASS XIX. SYNGENESIA. ORDER II. POLYG. SUPERFLUA.

SPECIFIC CHARACTER.

ANTHEMIS.

** *Radius of the same colour or yellow.*

- 5 L. bipinnatifid, serrated, downy beneath: stem corymbose, erect.

402. ACHILLEA.

- L. lanceolate, acuminate, sharply serrated.
 2 L. linear-lanceolate, sessile, downy, deeply serrated, lacinated at the base: corymb. nearly simple.
 3 L. bipinnatifid, hairy; segments linear, toothed, mucronated: stems furrowed.
 4 L. bipinnatifid, woolly; segments crowded, linear, acute: corymb. repeatedly compound.

ORDER III. POLYGAMIA FRUSTRANEA.

403. CENTAUREA.

* *Calyx-scales scariose, often lacerated.*

Calyx scales membranous, lacerated; the lower ones pinnatifid: L. linear-lanceolate; radical ones broader, toothed.

** *Calyx-scales, fringed at the points.*

Calyx-scales ovate, with capillary erect fringe: lower leaves lyrate-angular; uppermost ovate.

Calyx-scales serrated: L. linear, very entire; lowermost toothed.

Calyx-scales fringed, ovate: L. pinnatifid; segments lanceolate, a little hairy, somewhat toothed.

*** *Calyx-scales palmate-spinous.*

L. lyrate-toothed, roughish, slightly embracing the stem: Fl. sessile, terminal.

**** *Spines of the Calyx compound.*

Fl. sessile: calyx doubly-spinous: L. pinnatifid, toothed: stem divaricate-spreading, hairy.

Fl. solitary, terminal: calyx doubly-spinous: L. decurrent, spineless, lanceolate; radical ones lyrate.

CLASS XX.

GYNANDRIA.

ORDER I. MONANDRIA.

* *Anther united to the column, somewhat terminal, permanent.*

404. ORCHIS. *Cor.* ringent. *Lip* or *Nectary* with a posterior spur. *Glands* 1 or 2, supporting the masses of pollen inclosed in a single pouch.
405. GYMADENIA. *Cor.* ringent. *Nect.* with a posterior spur. *Glands* supporting the masses of pollen naked.
406. ACERAS. *Cor.* ringent. *Nect.* plane, without a spur. *Glands* supporting the masses of pollen inclosed in one common pouch.
408. OPHRYS. *Cor.* spreading. *Nect.* convex, without a spur. *Glands* of the masses of pollen inclosed each in a distinct pouch.
407. HERMINIUM. *Cor.* spreading. *Pet.* 3-lobed. *Nect.* without a spur. *Glands* of the masses of pollen naked, distinct.

** *Anther parallel to the stigma, permanent.*

409. GOODYERA. *Cor.* ringent; outer pet. embracing the *Lip*, which is pouched, without a spur beneath, and undivided above. *Column* free. *Pollen* angular.
410. NEOTTIA. *Cor.* ringent; outer pet. embracing the beardless *Lip*, which is without a spur; inner pet. converging. *Column* without a border. *Pollen* powdery.
411. LISTERA. *Cor.* irregular, spreading. *Lip* 2-lobed, without a spur. *Column* without a border. *Pollen* powdery.

*** *Anther terminal, inserted, permanent.*

412. EPIFACTIS. *Nec.* tumid beneath, contracted in the middle. *Lip* undivided, or 3-lobed, with the middle lobe larger.

**** *Anther terminal, moveable, deciduous.*

13. MALAXIS. *Nect.* undivided, sessile, flat beneath. *Pet.* 5, narrow, spreading or reflexed. *Masses of pollen* 4, parallel.
14. CORALLORRHIZA. *Nect.* elongated at the base, with the spur adhering or free. *Column* unconnected. *Masses of pollen* 4, oblique.

ORDER II. DIANDRIA.

15. CYPRIPIEDUM. *Nect.* ventricose, inflated. *Pet.* spreading. *Column* with a posterior appendage.

ORDER III. HEXANDRIA.

16. ARISTOLOCHIA. *Cal.* 0. *Cor.* 1-pet. ligulate, inflated at the base. *Caps.* 6-celled, many-seeded, inferior.

CLASS XX. GYNANDRIA.

ORDER I. MONANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
404	ORCHIS. *	ORCHIS.					
	1 pyramidalis ...	pyramidal	Dry past.	scarlet...	7	P.	110.
	2 Morio	meadow	Mea. pas.	purple...	5,6	P.	2059.
	3 mascula	early purple	Woods	purple...	4,5	P.	631.
	4 ustulata	dwarf	Dry past.	purple...	6	P.	18.
	5 fusca	brown	Chal. hil.	brownish	5	P.	*16.
	6 militaris	military	Chal. soil	purple...	5	P.	1873.
	7 tephrosanthos	cinereous	Chal. soil!	ash color	5	P.	.....
	8 hircina	lizard	Chal. wo!	purple...	7	P.	*34.

	9 latifolia	marsh	Moi. mea.	rose	5,6	P.	2306.
	10 maculata	spotted palmate	Woods	flesh ...	6,7	P.	632.
405	GYMNADENIA. *	GYMNADENIA					
	1 conopsea	fragrant	Mea. pas.	purple...	6	P.	*10.
	*						
	2 viridis	frog	Mea. pas.	greenish	6,7	P.	*94.
	3 albida	white	Sun. hil.	white ...	6	P.	*505.
	4 bifolia	butterfly	Woods	white ...	6	P.	*22.
406	ACERAS.	MAN-ORCHIS.					
	1 anthropophora	green	Chal. pas.	greenish	6	P.	*29.

CLASS XX. GYNANDRIA.

ORDER I. MONANDRIA.

SPECIFIC CHARACTER.

404. ORCHIS.

* *Bulbs undivided.*

- 1 Lip of the nectary in three, equal, entire segments, 2-horned above: spur elongated, filiform.
- 2 Lip 4-cleft, crenate: spur obtuse, ascending: petals converging, many-nerved.
- 3 Lip 4-cleft, crenate: spur obtuse: exterior petals reflexed.
- 4 Lip 4-cleft, rough with points: spur obtuse, very short.
- 5 Lip 5-cleft, rough; segments dilated: pet. acute, confluent: spur one-third the length of the germen. *O. militaris, Eng. Bot.*
- 6 Lip 5-cleft, rough; segments linear: pet. pointed, confluent: spur half the length of the germen.
- 7 Lip 5-cleft: segments very narrow, thread-shaped: pet. confluent. *Bichenov, Trans. Linn. Soc. xii. p. 33.*
- 8 Lip 3-cleft, downy; middle segment very long, linear, twisted, emarginate. *Satyrium, Eng. Bot.*

** *Bulbs palmated.*

- 9 Bulbs clustered: lip 3-cleft, crenate: spur conical: bractæ longer than the flowers.
- 10 Bulbs spreading: lip 3-lobed, crenate: spur cylind. shorter than the germen.

405. GYMNADENIA. *Hort. Kew.** *Glands close together.*

- 11 Bulbs palmated: lip in 3 entire segments: spur setaceous, twice as long as the germen. *Orchis, Eng. Bot.*

* *Glands distinct, more or less distant.*HABENARIA, *Hort. Kew.*

- 12 Bulbs clustered: lip linear, 3-toothed; the middle tooth smallest: spur very short, emarginate. *Satyrium, Eng. Bot.*
- 13 Bulbs clustered in three pairs: lip 3-cleft; segments acute: spur one-third the length of the germen. *Satyrium, Eng. Bot.*
- 14 Bulbs undivided: lip linear, entire: spur filiform, twice the length of the germen. *Orchis, Eng. Bot.*

406. ACERAS. *Hort. Kew.*OPHRYS, *Eng. Bot.*

- 1 Lip longer than the germen.

CLASS XX. GYNANDRIA.

ORDER I. MONANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering	Duration.	Figure in English Botany.
407	HERMINIUM.	MUSK-ORCHIS.					
	1 monorchis	small	Chal. ban.	greenish	7	P.	*71.
408	OPHRYS.	OPHRYS.					
	1 muscifera	fly	Chal. pas.	purple...	6	P.	64.
	2 apifera	bee	Chal. pas.	purple...	7	P.	383.
	3 aranifera	spider.....	Chal. soil	green ...	4	P.	65.
409	GOODYERA.	GOODYERA.					
	1 repens	creeping.....	Alp. wo.	flesh ...	7	P.	*289.
410	NEOTTIA.	LADY'S TRACES.					
	1 spiralis	1 spiral	Mea. pas.	white ...	8	P.	*541.
411	LISTERA.	TWAY-BLADE.					
	1 ovata	common.....	Woods	green ...	6	P.	*1548.
	2 cordata	heart-leaved	M. hea.	green ...	7	P.	*358.
412	EPIPACTIS.	HELLEBORINE.					
	1 latifolia	broad-leaved	M. woods	purpleish	7,8	P.	*269.
	2 palustris	marsh.....	Marshes	purpleish	7,8	P.	*270.
	3 grandiflora.....	white	Woods	white ...	6	P.	*271.
	4 ensifolia.....	narrow-leaved ...	M woods!	white ...	6	P.	*494.
	5 rubra	purple	M woods!	purple ...	6	P.	*437.
	6 Nidus avis.....	bird's nest.....	Chal. wo.	brown ...	5,6	P.	*48.

SPECIFIC CHARACTER.

407. HERMINIUM. *Hort. Kew.*OPHRYS, *Eng. Bot.*

L. radical two, lanceolate.

408. OPHRYS.

Lip 4-lobed, elongated, rather downy ; disk polished : column obtuse.
 Lip inflated, villous, 5-cleft ; terminal segment awl-shaped, recurved :
 column with a hooked point.

Lip villous, 3-lobed, pointless, emarginate, deflexed : column acute.

409. GOODYERA. *Hort. Kew.*SATYRIUM, *Eng. Bot.*

L. radical ovate : lip and pet. lanceolate.

410. NEOTTIA. *Swartz.*OPHRYS, *Eng. Bot.*

L. radical, oblong : Fl. spiral, 1-rowed : lip ovate.

411. LISTERA. *Hort. Kew.*OPHRYS, *Eng. Bot.*

Stem 2-leaved ; L. ovate, opposite : column pouched behind.

Stem 2-leaved ; L. heart-shaped, opposite : lip with with 2 teeth at
 the base.

412. EPIPACTIS. *Hort. Kew.*

L. ovate, embracing the stem : Fl. drooping : lip very entire, accu-
 minate, shorter than the petals. *Serapias, Eng. Bot.*

L. lanceolate, embracing the stem : Fl. drooping : lip crenate, obtuse,
 equal to the petals. *Serapias, Eng. Bot.*

L. elliptic-lanceolate : bractæ longer than the germen : Fl. erect : lip
 obtuse, scarcely equal to the petals. *Serapias, Eng. Bot.*

L. lanceolate : bractæ much shorter than the germen : Fl. erect :
 lip obtuse, half as long as the petals. *Serapias, Eng. Bot.*

L. lanceolate : bractæ longer than the germen : Fl. erect : lip acute,
 marked with elevated undulating lines. *Serapias, Eng. Bot.*

Stem with scaly sheaths, without leaves : lip bifid ; lobes spreading,
 recurved. *Ophrys, Eng. Bot.*

CLASS XX. GYNANDRIA.

ORDER I. MONANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
413	MALAXIS.	TENDER-TWAY-BLADE.					
	1 paludosa	marsh.....	Tur. bogs	yellow...	7	P.	72.
	2 Loeselii	lily leaved	San. mar.	yellow...	7	P.	*47.
414	CORALLORRHIZA.	CORAL-ROOT.					
	1 innata	spurless	Sc. wo.!	greenish	7	P.	*1547.
ORDER II. DIANDRIA.							
415	CYPRIPEDIUM.	LADIES'-SLIPPER.					
	1 Calceolus	common.....	Woods !	purple...	6	P.	1.
ORDER III. HEXANDRIA.							
416	ARISTOLOCHIA.	BIRTH-WORT.					
	1 Clematitis	common.....	Woods	yellow...	7,8	P.	398.

CLASS XX. GYNANDRIA.

ORDER I. MONANDRIA.

SPECIFIC CHARACTER.

413. MALAXIS.

Stem 5-sided : L. several, spatulate, rough at the apex : Fl. reversed : lip concave, acute.

Stem 3-sided : L. 2, ovate-lanceolate : lip obovate, recurved. *Ophrys*,
Eng. Bot.

414. CORALLORRHIZA. *Haller.*

Ophrys, *Eng. Bot.*

Spur short, combined with the germen.

ORDER II. DIANDRIA.

415. CYPRIPEDIUM.

Stem leafy : lobe of the column elliptical, blunt : lip compressed, shorter than the flat petals.

ORDER III. HEXANDRIA.

416. ARISTOLOCHIA.

L. cordate : stem erect : Fl. axillary, crowded.

CLASS XXI.

MONOECIA.

ORDER I. MONANDRIA.

417. ZANNICHELLIA. Male Flowers. *Cal.* 0. *Cor.* 0.
 Female Flowers. *Cal.* 1-leaved. *Cor.* 0. *Germ.*
 4, or more. *Seeds* 4, stalked. *Stig.* peltate.
Callitriche. Chara ?

ORDER II. DIANDRIA.

Lemna.

ORDER III. TRIANDRIA.

422. ERIOCAULON.....*Cal.* common many-leaved ; *proper* 2 or 3-leaved.
Cor. 2 or 3-parted.
 Male fl. in the middle of the disk.
 Female in the radius. *Stig.* 2 or 3. *Caps.* 2
 or 3-grained. *Seeds* solitary.
419. SPARGANIUM.....Male fl. *Cal.* 3-leaved. *Cor.* 0.
 Female, *Cal.* 3-leaved. *Cor.* 0. *Drupe* juice-
 less, 1-seeded.
420. CAREX.....Male *Catkin* imbricated. *Cal.* glume 1-valved.
Cor. 0.
 Female *Catkin* imbricated. *Cal.* glume 1-valved.
Cor. 0. *Stig.* 2 or 3. *Seed* clothed with
 a swelling tunic.
418. TYPHA Male *Catkin* cylindrical, hairy. *Anth.* about
 3 on each filament.
 Female *Catkin* cylindrical. *Seed* 1, on a fea-
 thered stalk.
421. KOBRESIAMale, *Cal.* the inner scale of an imbricated cat-
 kin. *Cor.* 0
 Female, *Cal.* the outer scale of the catkin,
 sheathing, permanent. *Cor.* 0. *Stig.* 3.
Seed 1, naked.

CLASS XXI. MONOECIA.

ORDER IV. TETRANDRIA.

23. LITTORELLA.....Male, *Cal.* 4-leaved. *Cor.* 4-cleft. *Stam.* very long.
 Female, *Cal.* 0. *Cor.* unequally 3-cleft. *Style* very long. *Nut.* 1-celled.
26. URTICA Male, *Cal.* 4-leaved. *Cor.* 0. Rudiment of a *germen* cup-shaped.
 Female, *Cal.* 2-leaved. *Cor.* 0. *Seed* 1, superior, polished.
25. BUXUS.....Male, *Cal.* 3-leaved. *Pet.* 2. Rudiment of a *germen*.
 Female, *Cal.* 4-leaved. *Pet.* 3. *Styles* 3. *Caps.* 3-beaked, 3-celled. *Seeds* 2.
24. ALNUS.....Male, *Cal.* scale of a catkin, 1-leaved, 3-cleft, 3-flow. *Cor.* 4-parted.
 Female, *Cal.* scale of a catkin, 1-leaved, subtrifid, 2-flowered. *Styles* 2. *Seeds* compressed.
Eriocaulon. Myrica Gale.

ORDER V. PENTANDRIA.

27. XANTHIUM Male, *Cal.* common imbricated. *Cor.* monopetalous, funnel-shaped, 5-cleft. *Recept.* chaffy.
 Female, *Cal.* 2-leaved, 2-flowered. *Cor.* 0. *Drupe* dry, muricated, bifid. *Nut.* 2-celled.
28. AMARANTHUS ... Male, *Cal.* 3 or 5-leaved. *Cor.* 0. *Stam.* 3 or 5.
 Female, *Cal.* 3 or 5-leaved. *Cor.* 0. *Styles* 3. *Caps.* 1-celled, splitting all round. *Seed* 1.
29. BRYONIA Male, *Cal.* 5-toothed. *Cor.* 5-cleft. *Filam.* 3. *Anth.* 5.
 Female, *Cal.* 5 toothed. *Cor.* 5-cleft. *Style* 3-cleft. *Berry* inferior, many-seeded.
Fagus. Quercus. Atriplex portulacoides.

ORDER VI. HEXANDRIA.

Rumex. Quercus.

ORDER VII. POLYANDRIA.

30. MYRIOPHYLLUM. Male, *Cal.* 4-leaved. *Pet.* 4. *Stam.* 8.
 Female, *Cal.* 4-leaved. *Pet.* 4. *Stig.* 4, sessile. *Seeds* 4.

434. *POTERIUM*.....Male, *Cal.* 4-leaved. *Cor.* 4-parted. *Stam.* 30 to 40.
Female, *Cal.* 4-leaved. *Cor.* 4-parted. *Pist.* 2.
Nut. 2-celled, corticated.
432. *SAGITTARIA*Male, *Cal.* 3-leaved. *Pet.* 3. *Stam.* nearly 24.
Female, *Cal.* 3-leaved. *Pet.* 3. *Pist.* numerous.
Caps. numerous, ventricose, 1-seeded.
430. *CERATOPHYLLUM*. Male, *Cal.* many-parted. *Cor.* 0. *Stam.* 16 to 20.
Female, *Cal.* many-parted. *Cor.* 0. *Stig.* almost sessile. *Seed* 1, coated.
436. *FAGUS*.....Male, *Cal.* bell-shaped, 5-cleft. *Cor.* 0. *Stam.* about 12.
Female, *Cal.* 4-toothed, prickly. *Cor.* 0. *Germ.* 2. *Nuts* 2, invested with the prickly leathery quadrifid calyx.
437. *CASTANEA*Male, *Catkin* naked. *Cal.* 0. *Cor.* 5-pet. *Stam.* 10 to 20.
Female, *Cal.* 5 or 6-leaved, muricated. *Cor.* 0. *Germ.* 3. *Stig.* awl-shaped. *Nuts* 3, invested with the prickly calyx.
435. *QUERCUS* Male, *Cal.* bell-shaped, commonly 5-cleft. *Cor.* 0. *Stam.* 5 to 10.
Female, *Cal.* bell-shaped, very entire, rough. *Cor.* 0. *Style* 1. *Stig.* 3. *Nut* superior, coriaceous, 1-seeded.
440. *CORYLUS*Male, *Cal.* scale of a catkin, 3-cleft. *Cor.* 0. *Stam.* 8.
Female, *Cal.* bifid, torn. *Cor.* 0. *Styles* 2. *Nut* ovate, smooth, 1-celled, invested with the coriaceous calyx.
439. *CARPINUS*Male, *Cal.* scale of a catkin, roundish. *Cor.* 0. *Stam.* 3 to 20.
Female, *Cal.* scale of a catkin, oblong. *Cor.* 0. *Germ.* 2. *Styles* 2 on each germ. *Nut* angular, 1-celled.
436. *BETULA*Male, *Cal.* scale of a catkin, 3-flowered. *Cor.* 0. *Stam.* 10 to 12.
Female, *Cal.* scale obscurely 3-cleft, 3-flowered. *Cor.* 0. *Styles* 2. *Seeds* compressed, winged.
433. *ARUM**Sheath* of 1 leaf, rolled together at the base. *Spadix* naked at the top, bearing *Stam.* in the middle and *germ.* at the base. *Berry* 1-celled.

CLASS XXI. MONOECIA.

ORDER VIII. MONADELPHIA.

41. PINUSMale, *Cal.* scale of a catkin, peltate. *Cor.* 0.
 Anth. sessile, adhering to the scales.
 Female, *Cal.* scale of a cone, 2-flowered. *Cor.*
 0. *Pist.* 1. *Nut* winged, 1-celled.
 Typha? *Bryonia.*

CLASS XXI. MONOECIA.

ORDER I. MONANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure of English Botany.
417	ZANNICHELLIA.	HORNED-POND-WEED					
	1 palustris	common	Stag.wa.		7	A.	1844.

ORDER III. TRIANDRIA.

418	TYPHA.	REED-MACE.					
	1 latifolia	great	Ditches		7	P.	1455.
	2 angustifolia ...	lesser.....	Pools !		6,7	P.	1456.
	3 minor.....	dwarf.....	Marshes!		7	P.	1457.
419	SPARGANIUM.	BUR-REED.					
	1 ramosum	branched	Ditches		7,8	P.	744.
	2 simplex	unbranched	Stag.wa.		7,8	P.	745.
	3 natans	floating	Fens ..		7	P.	273.
420	CAREX.	SEDGE.					
	1 dioica	separate headed	Sp. bogs		5,6	P.	543.
	2 Davalliana.....	prickly ditto	Marshes		5,6	P.	2123.
	3 pulicaris.....	flea	Marshes		6	P.	1051.
	4 pauciflora	few-flowered	Bo. on M.		6	P.	2041.
	5 stellulata	little prickly	Marshes		5,6	P.	806.
	6 curta	white	Pools !		6	P.	1386.
	7 elongata.....	elongated	Marshes		6	P.	1920.

SPECIFIC CHARACTER.

417. ZANNICHELLIA.

Anth. 4-celled: stigma very entire.

ORDER III. TRIANDRIA.

418. TYPHA.

- L. somewhat sword-shaped: male and female catkins close together.
 L. semicylindrical-flattish, equal with the culm: male and female catkins a little distant.
 L. linear, flat, half the length of the culm: male and female catkins distant: culm very slender.

419. SPARGANIUM.

- L. 3-sided at the base, their sides concave: common peduncle branched: stigma linear.
 L. 3-sided at the base, their sides flat: common pedunc. simple: stig. linear.
 L. drooping, flat: common pedunc. simple: stig. ovate, very short: male head mostly solitary.

420. CAREX.

* *Spike single, simple.*

Spike simple, diœcious: fruit ovate, nerved, ascending, serrulated at the margin.

Spike simple, diœcious: fruit lanceolate-triangular, nerved, deflexed; angles scabrous at the apex.

Spike simple, androg; the male uppermost: fruit spreading, reflexed, tapering at both ends: stig. 2.

Spike simple, androg: few flow. the male uppermost: fruit spreading, awl-shaped: stigmas 3.

** *Spike compound, androgynous.*

Spikelets about 3, remote: fruit divaricated, acuminate, entire at the mouth.

Spikelets about 6, elliptical, rather remote, naked: glumes ovate, rather acute, membranous: tunic entire.

Spikelets numerous, oblong, rather distant, naked: tunic pointed, bifid, recurved, many ribbed, longer than the glumes.

CLASS XXI. MONOECIA.

ORDER III. TRIANDRIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
CAREX.	SEDGE.					
8 ovalis	oval spiked	Marshes	.....	6	P.	306.
9 remota	remote	Groves	.....	5,6	P.	832.
10 axillaris	axillary clustered	Bogs!...	.....	5,6	P.	993.
11 incurva	curved	San. sh.!	.....	7,8	P.	927.
12 arenaria	sea	San. sh.!	.....	6	P.	928.
13 intermedia	soft brown	Marshes	.....	5,6	P.	2042.
14 divisa	bracteated marsh	Salt mar.	.....	5,6	P.	1096.
15 muricata	greater prickly ...	Moi.pas.	.....	5,6	P.	1097.
16 divulsa	grey	Mo.sh.pl.	.....	5	P.	629.
17 vulpina	great spiked	Marshes	.....	5	P.	307.
18 teretiuscula ...	lesser panicle ...	Bogs ...	.....	5	P.	1065.
19 paniculata	great panicle ...	Bogs ...	.....	6	P.	1064.

20 digitata	fingered	Woods	.....	5	P.	615.
21 clandestina ...	dwarf silvery	Snn. roc.	.....	5	P.	2124.

22 pendula	great pendulous	Woods	.....	6,7	P.	2315.
23 strigosa	loose pendulous...	Woods	.....	4,5	P.	994.
24 sylvatica	pendulous wood	Woods	.....	5,6	P.	995.
25 depauperata ...	starved wood	Woods!	.....	5,6	P.	1098.
26 Melichoferi ...	loose spiked rock	Alp. roc.	.....	8	P.	2293.

SPECIFIC CHARACTER.

CAREX.

- Spikelets about 6, oval, approximate, alternate: glumes lanceolate, equal to the tunic.
- Spikelets solitary, remote, almost sessile: bractæ very long, surmounting the culm: tunic almost entire.
- Spikelets about 3-together. remote, sessile: bractæ elongated: tunic bifid at the apex.
- Spikelets heaped into a head; the lower ones female: bractæ membranous: culm roundish, smooth: L. channelled.
- Spikelets crowded, spiked, almost monoicous: bractæ membranous; the lower ones leafy: culm triangular: L. flat.
- Spikelets crowded into a common spike; lower and upper ones female; the intermediate male: culm triangular, erect.
- Spike once or twice compound: spikel. all androg: bractæ leafy, erect: fruit appressed: root creeping.
- Spike oblong, once or twice compound, prickly: fruit divaricated, pointed, cloven: root fibrous.
- Spike elongated, once or twice compound, often branching at the base; lower spikel. remote: fruit nearly erect.
- Spike thrice compound, compact, obtuse: fruit divaricated: glumes pointed, angles of the culm compressed, very sharp.
- Spike twice or thrice compound, compact, rather acute: spikelets clustered: fruit spreading, gibbous; culm roundish.
- Spike thrice compound, branched, panicle, acute, interrupted: fruit spreading, pointed: culm sharply triangular.
- *** *Spikes of distinct sexes: 1 male: bractæ membranaceous.*
- 1 Bractæ membranous, mostly leafless, sheathing: spikes linear, lax, erect; male shorter: L. flat.
- 2 Bractæ membranous, mostly leafless, sheathing: female spikes remote, few flow. inclosed in the sheath. L. channelled.
- * *Spikes of distinct sexes: 1 male, rarely 2 together: Bractæ leaf-like, and generally sheathing.*
- 2 Sheaths elongated, nearly equal to the pedunc: spikes cylind. very long, nodding: fruit greatly crowded, ovate, acute.
- 2 Sheaths elongated, nearly equal to the pedunc: spikes filiform, lax, a little nodding: fruit lanceolate, triangular, ribbed.
- 2 Sheaths half the length of the pedunc: spikes filiform, rather loose, nodding: fruit ovate, triangular, beaked.
- 2 Sheaths much shorter than the pedunc: female spikes remote, erect, few-flow: fruit inflated, beaked.
- 2 Sheaths not half the length of the pedunc: fem. spikes distant, erect, lax: fruit triangular, notched.

CLASS XXI. MONOECIA.

ORDER III. TRIANDRIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
CAREX.	SEDGE.					
27 capillaris	capillary	Sc. mount		7,8	P.	2069.
28 rariflora.....	loose alpine	Sc. alps		7	P.	2516.
29 Pseudo-cyperus	bastard-cyperus	Marshes		6	P.	242.
30 limosa	green and gold ...	Sp. bogs		6	P.	2043.
31 ustulata	scorched alpine...	Alp. riv.		7	P.	2404.
32 atrata	black	Alp. mea.		6,7	P.	2044.
33 pulla	russet.....	Sc. mount		7	P.	2045.
34 pallescens	pale	Moi.past.		5,6	P.	2185.
35 flava	yellow	Bogs		5,6	P.	1294.
36 fulva	tawny.....	Marshes		6,7	P.	1295.
37 Oederi	Oederian	Moi. mea		7	P.	1773.
38 extensa	long-bracteated...	Sea coast		6	P.	833.
39 distans	loose	Marshes		6	P.	1234.
40 binervis	green ribbed	Dry hea.		6	P.	1235.
41 præcox	vernal	Dry past.		4	P.	1099.
42 pilulifera	round-headed ...	Heaths		4,5	P.	885.
43 tomentosa	downy-fruited ...	Mea. !... ..		6	P.	2046.
44 rigida.....	rigid	Mount.		6,7	P.	2047.
45 panicea	pink-leaved	Moi. past		5,6	P.	1505.
46 recurva	glaucous heath ...	Heaths		5,6	P.	{ 1506 2236
47 cæspitosa	tufted bog	Bogs		5	P.	1507.

SPECIFIC CHARACTER.

CAREX.

- Common sheath, but half the length of the pedunc: female spikes ovate, rather loose, nodding: fruit pointed.
- Sheaths scarcely any: fem. spikes few-flow. lax, nodding: fruit obovate, bluntly 3-sided: root creeping.
- Sheaths scarcely any: spikes cylind. peduncled, pendulous, many-flow: fruit spreading, furrowed, beaked, forked.
- Sheaths very short, scarcely any: female spikes ovate, pendulous: fruit elliptical, compressed: root creeping.
- Sheaths scarcely any: fem. spikes ovate, pendulous: fruit elliptical, compressed, beaked, with rough edges.
- Diandrous? sheaths scarcely any: spikes ovate, peduncled, pendulous; the terminal one male below: fruit compressed.
- Digynous: sheaths 0: spikes ovate; the lower ones pedunc: fruit elliptical, inflated, with a short emarginate beak.
- Sheaths very short: spikes cylind. peduncled, when in fruit pendulous: fruit elliptical, inflated, obtuse.
- Sheaths short, nearly equal to the pedunc. fem. spikes roundish: fruit beaked, curved downwards: culm smoothish.
- Sheaths elongated, shorter than the pedunc: fem. spike ovate: fruit beaked, straight: culm rough.
- Sheaths and pedunc. very short: fem. spikes roundish: fruit spreading, globular, with a straight beak: culm smooth.
- Sheaths and pedunc. very short: bractæ very long: fem. spikes roundish: fruit ovate: culm smooth.
- Sheaths elongated, nearly as long as the pedunc: spikes oblong, very remote: scales pointed: culm smooth.
- Sheaths elongated, shorter than the pedunc: spikes cylind. remote, often compound: scales pointed: fruit 2-nerved.
- Sheaths short, nearly equal to the pedunc: spikes ovate, approximate: scales pointed: fruit roundish, pubescent.
- Sheaths 0: female spikes sessile, crowded, roundish: scales pointed: fruit roundish, woolly.
- Sheaths very short: female spikes almost sessile, cylind. blunt: scales elliptical, acute: fruit tomentous.
- Digynous: sheaths 0: spikes ovate; uppermost sessile: L. somewhat recurved, rigid: fruit a little compressed.
- Sheaths elongated, about half the length of the pedunc: female spikes rather loose, remote: fruit inflated: culm smooth.
- Sheaths short: female spikes cylind. pendulous: fruit elliptical, triangular, roughish: root creeping.
- Digynous: sheaths 0: spikes sessile, cylind. blunt: bractæ auricled: fruit permanent.

CLASS XXI. MONOECIA.

ORDER III. TRIANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
	CAREX.	SEDGE.					
	48 stricta	glaucous straight	Marshes	.....	4	P.	914.

	49 acuta	slender-spiked ...	Wat. pl.	.....	5	P.	580.
	50 paludosa	lesser common ...	Wat. pl.	.....	5	P.	807.
	51 riparia	great common ...	Riv. ban.	.....	4,5	P.	579.
	52 lævigata.....	smooth stalk beak.	Bogs ...	.....	5	P.	1387.
	53 vesicaria	short-spik'd bladder	Marshes	.....	5	P.	779.
	54 ampullacea ...	slend. beaked blad.	Bogs ...	.....	5	P.	780.
	55 hirta	hairy	Wat. pl.	.....	5,6	P.	685.
	56 filiformis	slender-leaved ...	Bogs !...	.....	6	P.	904.
421	KOBRESIA.	KOBRESIA.					
	1 caricina	sedgy	M.alp. pl.	.....	8	P.	*1410
422	ERIOCAULON.	PIPEWORT.					
	1 septangulare ...	jointed	Alp. lake	white ...	9	P.	733.
ORDER IV. TETRANDRIA.							
423	LITTORELLA.	SHORE-WEED.					
	1 lacustris.....	plantain	Wet sa.p	white ...	6	P.	468.
424	ALNUS.	ALDER.					
	1 glutinosus	common	Watery p	.....	3	T.	*1508

CLASS XXI. MONOECIA.

ORDER III. TRIANDRIA.

SPECIFIC CHARACTER.

CAREX.

- 8 Digynous : sheaths 0 : spikes almost sessile, cylind. elongated, acute : bractee slightly auricled : fruit deciduous.
- ***** *Spikes of distinct sexes : males numerous.*
- 9 Digynous : spikes filiform ; when in flower drooping, when in fruit erect : fruit elliptical, obtuse, undivided at the apex.
- 9 Spikes cylind. rather blunt, erect ; fem. with awn-pointed scales ; male with obtuse ones : fruit elliptical, emarginate.
- 1 Spikes erect ; male triangular, female cylind. : scales all acuminate : fruit beaked, forked.
- 2 Spikes cylind ; fem. peduncled : sheaths very long : scales acuminate : fruit triangular, beaked, forked.
- 3 Female spikes cylind. shortish, almost sessile : sheaths 0 : fruit inflated, beaked, forked.
- 4 Female spikes cylind. elongated, almost sessile : sheaths 0 : fruit inflated ; beak linear, forked.
- 5 Hairy : spikes shortish, cylind. remote : sheaths nearly equal to the pedunc : scales awned : fruit hairy.
- 5 Spikes ovate : sheaths nearly equal to the pedunc : scales pointed : fruit downy : L. channelled, smooth.

421. KOBRESIA. *Willd.*

- 1 Spike compound, dense, somewhat ovate ; spikelet imbricated, alternate. *Schoenus monoicus. Eng. Bot.*

422. ERIOCAULON.

Stem 7-angled : L. pointed, formed of reticulated cells : male florets monopetalous, with 4-stam.

ORDER IV. TETRANDRIA.

423. LITTORELLA.

L. linear.

424. ALNUS.

L. roundish, somewhat wedge-shaped, waved, serrated, glutinous, downy at the branching of the veins beneath. *Betula Alnus. Eng. Bot.*

CLASS XXI. MONOECIA.

ORDER IV. TETRANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
425	. BUXUS.	BOX.					
	1 sempervirens...	common	Chal. hil	yellow...	4	S.	1341.
426	URTICA.	NETTLE.					
	1 pilulifera	Roman	Rubbish		6,7	A.	148.
	2 urens	small	Cult. gr.		6-10	A.	1236.
	3 dioica	great	Was. gr.		7,8	P.	1750.

ORDER V. PENTANDRIA.

427	XANTHIUM.	BUR-WEED.					
	1 strumarium ...	small	Dunghil!	green ...	8,9	A.	2544.
428	AMARANTHUS.	AMARANTH.					
	1 Blitum	wild	Dunghil!	.....	8	A.	2212.
429	BRYONIA.	BRYONY.					
	1 dioica.....	red-berried	Hedges	white ...	5-9	P.	439.

ORDER VII. POLYANDRIA.

430	CERATOPHYLLUM.	HORNWORT.					
	1 demersum	common	Ditches		8,9	P.	947.
	2 submersum ...	unarmed	Ditches!		9	P.	679.
431	MYRIOPHYLLUM.	WATER-MILFOIL.					
	1 spicatum	spiked	Ditches	reddish	7,8	P.	83.
	2 verticillatum ...	whorled	Ponds !	green ...	7	P.	218.
432	SAGITTARIA.	ARROW-HEAD.					
	1 sagittifolia.....	common	Rivers	white ...	7,8	P.	84.
433	ARUM.	CUCKOW-PINT					
	1 maculatum.....	common	Shady pl.	.....	5	P.	1298.

CLASS XXI. MONOECIA.

ORDER IV. TETRANDRIA.

SPECIFIC CHARACTER.

425. BUXUS.

- 1 L. ovate, with footstalks hairy at the edge.

426. URTICA.

- 1 L. opposite, ovate, serrated : female flowers capitate.
- 2 L. opposite, elliptical, about 5-nerved : clusters nearly simple.
- 3 L. opposite, heart-shaped : clustered in pairs, very much branched, mostly dioicous.

ORDER V. PENTANDRIA.

427. XANTHIUM.

- 1 Stem thornless : L. heart-shaped, 3-nerved at the base.

428. AMARANTHUS.

- 1 Fl. in small lateral tufts, 3-cleft, triandrous : L. ovate : stem diffuse.

429. BRYONIA.

- 1 L. palmate, rough on both sides with callous points : Fl. dioicous.

ORDER VII. POLYANDRIA.

430. CERATOPHYLLUM.

- 1 Fruit 3-spined.
- 2 Fruit spineless.

431. MYRIOPHYLLUM.

- 1 Fl. in interrupted leafless spikes.
- 2 Fl. all axillary.

432. SAGITTARIA.

- 1 L. arrow-shaped, acute.

433. ARUM.

- 1 Stemless : L. halberd-shaped, very entire : spadix club-shaped, obtuse.

CLASS XXI. MONOECIA.

ORDER VII. POLYANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
434	POTERIUM. GARDEN-BURNET.						
	Sanguisorba.....	common.....	Chal.hil	green ...	7	P.	860.
435	QUERCUS. OAK.						
	1 Robur	common British...	Woods	.....	4	T.	1342.
	2 sessiliflora	sessile-fruited ...	Woods	.....	4,5	T.	1845.
436	FAGUS. BEECH.						
	1 sylvatica	common	Woods	.....	4,5	T.	1846.
437	CASTANEA. CHESNUT.						
	1 vesca	common	Woods	.....	5	T.	*886.
438	BETULA. BIRCH.						
	1 alba	common	M. woods	.....	4,5	T.	2198.
	2 nana	dwarf	Moi.hear.	.....	5	S.	2326.
439	CARPINUS. HORN-BEAM.						
	1 Betulus	common	Woods	.....	5	T.	2032.
440	CORYLUS. HASEL.						
	1 Avellana	common	Woods	.....	4,5	T.	723.

ORDER VIII. MONADELPHIA.

441	PINUS. FIR.						
	1 sylvestris	Scotch	Scot.alp.	.....	5	T.	2460.

CLASS XXI. MONOECIA.

ORDER VII. POLYANDRIA.

SPECIFIC CHARACTER.

434. POTERIUM.

- 1 Thornless : stem somewhat angular.

435. QUERCUS.

- 1 L. Deciduous, oblong, broadest towards the end ; their sinuses rather acute ; angles obtuse : pedunc. of the fruit elongated.
2 L. petioled, deciduous, oblong ; their sinuses opposite, and rather acute : fruit sessile.

436. FAGUS.

- 1 L. ovate, smooth, obscurely serrated, fringed at the edge.

437. CASTANEA.

- 1 L. oblong-lanceolate, pointed, sharply serrated, naked beneath. *Fagus Castanea*. Eng. Bot.

438. BETULA.

- 1 L. ovate, acute, serrated, smoothish.
2 L. orbicular, crenate.

439. CARPINUS.

- 1 Scales of the fruit flat, oblong, toothed : L. ovate, pointed, doubly serrated.

440. CORYLUS.

- 1 Stipulæ ovate, obtuse : L. roundish, heart-shaped, pointed : young branches hairy.

ORDER VIII. MONADELPHIA.

441. PINUS.

- 1 L. in pairs, rigid : cones when young stalked, recurved : crest of the anth. very small.

CLASS XXII.

DIOECIA.

ORDER I. MONANDRIA.

Salix. 1, 2, 3, 4.

ORDER II. DIANDRIA.

442. *SALIX*..... Male Plant, *Cal.* scale of catkin. *Cor.* 0. *Nectary* a gland at the base of the stamina. *Stam.* 1 to 5.
Female Plant. *Cal.* and *Nect.* as in the male. *Cor.* 0. *Stig.* 2. *Caps.* superior, 1-celled, 2-valved. *Seeds* downy.

ORDER III. TRIANDRIA.

443. *EMPETRUM*.... Male, *Cal.* 3-parted. *Pet.* 3. *Stam.* capillary, 3 to 9.
Fem. *Cal.* 3-parted. *Pet.* 3. *Stig.* 9. *Berry* superior, 9-seeded.
444. *RUSCUS* Male, *Cal.* 6-leaved. *Cor.* 0. *Nect.* ovate, tubular, bearing the stamina within.
Fem. *Cal.* *Cor.* and *Nect.* as in the male. *Stam.* 0. *Style* 1. *Berry* superior, 3-celled. *Seeds* in pairs.

Valeriana 2. *Carex* 1, 2. *Salix* 7, 8, 9.

ORDER IV. TETRANDRIA.

446. *HIPPOPHAE* ... Male, *Cal.* 2-parted. *Cor.* 0.
Fem. *Cal.* tubular, 2-cleft. *Style* 1. *Berry* superior, 1-seeded. *Seed* invested with a double coat.

447. MYRICA..... Male, *Cal.* scale of a catkin, concave. *Cor.* 0.
Fem. *Cal.* scale of a catkin, concave. *Cor.* 0.
Styles 2. *Berry* 1-seeded.
445. VISCUM..... Male, *Cal.* 0. *Pet.* 4. dilated and cohering at their
base, resembling a calyx. *Anth.* sessile, fixed
to the petals.
Fem. *Cal.* submarginate. *Pet.* 4. dilated at the
base. *Style* 0. *Berry* inferior, 1 seeded.

Rhamnus 1. *Urtica* 3.

ORDER V. PENTANDRIA.

448. HUMULUS..... Male, *Cal.* 5-leaved. *Cor.* 0. *Anth.* with 2 pores
at the apex.
Fem. *Cal.* scale of a catkin oblique, entire. *Cor.*
0. *Styles* 2. *Seed* 1, coated, winged with the
calyx.

Ribes 2. *Pimpinella* 3. *Bryonia* 1. *Salix* 13.

ORDER VI. HEXANDRIA.

449. TAMUS Male, *Cal.* 6-parted, *Cor.* 0.
Fem. *Cal.* and *Cor.* as in the male. *Style* 3-cleft.
Berry inferior, 3-celled. *Seeds* 2 together.

Rumen 10, 11.

ORDER VII. OCTANDRIA.

451. RHODIOLA. ... Male, *Cal.* 4-parted. *Pet.* 4. *Nect.* 4. notched.
Fem. *Cal.* *Pet.* and *Nect.* as in the male.
450. POPULUS Male, *Cal.* scale of a catkin, torn. *Cor.* turbinate,
oblique, entire.
Fem. *Cal.* and *Cor.* as in the male. *Stig.* 4. *Caps.*
superior, 2-celled. 2-valved. *Seeds* downy.

ORDER VIII. ENNEANDRIA.

452. MERCURIALIS. Male, *Cal.* 3-parted. *Cor.* 0. *Stam.* 9 to 12. *Anth.*
globose, double.
Fem. *Cal.* and *Cor.* as in the male. *Styles* 2. *Caps.*
double, 2-celled. *Seeds* solitary.

CLASS XXII. DIOECIA.

ORDER VIII. ENNEANDRIA.

453. HYDROCHARIS. Male, *Cal.* 3-cleft. *Pet.* 3. *Filam.* 3 of the interior beaked.

Fem. *Cal.* and *Pet.* as in the male. *Styles* 6. *Caps.* 6-celled, many-seeded, inferior.

Empetrum nigrum.

ORDER IX. DECANDRIA.

Silene 6. *Lychnis* 4.

ORDER XI. ICOSANDRIA.

Rubus Chamæmorus.

ORDER XII. POLYANDRIA.

Stratiotes. *Populus* 1.

ORDER XIII. MONADELPHIA.

454. JUNIPERUS ... Male, *Cal.* scales of a catkin. *Cor.* 0. *Stam.* 3.
Fem. *Cal.* scales of a catkin, fewer, at length fleshy,
united into a *Berry* with 3 *Seeds*.

455. TAXUS Male *Cal.* 0. *Cor.* 0. *Stam.* numerous. *Anth.* peltate, 3-cleft.

Fem. *Cal.* pitcher-shaped, very entire. *Style* 0.
Seed 1, standing on the pulpy calyx.

Salix 5, 6. *Ruscus.*

CLASS XXII. DIOECIA.

ORDER II. DIANDRIA.

442

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
SALIX.	WILLOW.					
1 purpurea	bitter purple	Marshes!	.....	3	S.	1388.
2 Helix.....	rose	Marshes!	.....	3,4	T.	1343.
3 Lambertiana ...	Boyton	Riv. ban.	.....	3,4	T.	1359.
4 Forbyana	basket osier	Osier hol.	.....	4	S.	1344.
5 rubra	green osier	Osier hol.	.....	4,5	S.	1145.
6 Croweana	Crowe's.....	Marshes	.....	4,5	T.	1146.
7 triandra	long le. triandrous	Riv. ban.	.....	5,8	T.	1435.
8 amygdalina ...	broad leaved ditto	Marshes	.....	4,5	S.	1936.
9 lanceolata	sharp leaved ditto	Mea. ...	.....	4,5	T.	1436.
10 Russelliana ...	Bedford.....	Marshes	.....	4,5	T.	1808.
11 decipiens	varnished	Woods	.....	5	T.	1937.
12 fragilis	crack	Marshes	.....	4,5	T.	1807.
13 pentandra	sweet	Riv. ban.	.....	5,6	T.	1805.
14 nigricans	dark broad leaved	Osier hol.	.....	4	S.	1213.
15 bicolor	shining dark-green	Woods	.....	4,5	S.	1806.
16 petiolaris†.....	dark long leaved	Marshes	.....	4	S.	1147.
17 phyllifolia ...	tea-leaved	Sc. alps.	.....	5	S.	1958.
18 Arbuscula	little tree	Sc. alps.	.....	4	S.	1366.
19 vitellina.....	yellow	Marshes	.....	5	T.	1389.
20 tenuifolia	thin-leaved	stony hill	.....	5,6	S.	2186.
21 malifolia	apple-leaved	Mount ?	.....		S.	1617.

SPECIFIC CHARACTER.

442. SALIX.

* *Leaves smoothish : serrated.*

- 1 Monandrous, decumbent : L. obovate-lanceolate, serrated, smooth : stig. very short, ovate, almost sessile.
- 2 Monandrous, erect : L. lanceolate, pointed, serrated, smooth : style long, filiform : stig. linear.
- 3 Monandrous, erect : L. obovate-lanceolate, acute, serrated, smooth : stig. very short, ovate, notched.
- 4 Monandrous, erect : L. with small stipulæ, lanceolate, acute, denticulate, smooth, glaucous beneath : stig. linear.
- 5 Monadelphous : L. linear-lanceolate, elongated, acute, denticulate, smooth, green on both sides.
- 6 Monadelphous : L. elliptical, slightly serrated, very smooth, glaucous beneath.
- 7 Triandrous : L. linear-oblong, serrated, smooth : germ. on a stalk.
- 8 Triandrous : L. ovate, oblique, serrated, smooth : germ. stalked : stipulæ large.
- 9 Triandrous : L. lanceolate, tapering toward each end, serrated, smooth : petioles decurrent : germ. stalked.
- 0 Triandrous? L. lanceolate, acuminate, serrated, smooth : germ. stalked, tapering : petioles glandular.
- 1 L. lanceolate, serrated, smooth : petioles somewhat glandular : germ. tapering, stalked : branches smooth, polished.
- 2 L. ovate-lanceolate, pointed, serrated, very smooth : petioles toothed, glandular : germ. ovate, nearly sessile.
- 3 Pentandrous : L. elliptic-lanceolate, crenate, smooth : germen smooth, almost sessile.
- 4 L. elliptic-lanceolate, crenate, smooth, glaucous beneath : germ. stalked, lanceolate, acuminate, silky.
- 5 L. elliptical, *acute, slightly serrated, smoothish, glaucous beneath : germen stalked, lanceolate, *silky.
- 6 L. lanceolate, serrated, smooth, glaucous beneath : germ. stalked, ovate, silky : stig. sessile, 2-lobed.
- 7 L. lanceolate, undulated, crenate, smooth, glaucous beneath : stipulæ somewhat imate : germ. stalked, silky.
- 8 L. lanceolate, obscurely toothed, smooth, without stipulæ : branches pubescent : catkins ovate.
- 9 L. lanceolate, acute, serrated, smooth above; serratures cartilaginous : stig. notched.
- 0 L. elliptical, acute, serrated, smoothish, glaucous beneath : stipulæ obsolete : caps. very smooth.
- 1 L. elliptic-oblong, toothed, wavy, scarious, very smooth : stipulæ heart-shaped, very large.

CLASS XXII. DIOECIA.

ORDER II. DIANDRIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
SALIX.	WILLOW.					
22 myrsinites	green whortle leav.	Se. alps	.....	5,6	S.	1360.
23 prunifolia	plum-leaved	Se. alps	.....	5,6	S.	1361.
24 venulosa	veiny-leaved	Se. alps	.....	4	S.	1362.
25 vacciniifolia ...	bilberry-leaved ...	S. of Sco.	.....	4	S.	2341.
26 carinata	keel-leaved	Se. alps	.....	4	S.	1363.
27 Dicksoniana ...	Dickson's	Se. alps	.....	4	S.	1390.
28 herbacea	least	Se. alps	.....	6	S.	1907.

29 reticulata	wrinkled	Se. alps	.....	6	S.	1908.

30 arenaria	downy mountain	Se. alps	.....	5	S.	1809.
31 glauca	glaucous	Se. alps	.....	5	S.	1810.
32 Stuartiana	Stuart's	Se. alps	.....	7	S.	2586.
33 argentea	silky sand	San. sh.	.....	5	S.	1364.
34 prostrata	prostrate dwarf...	M.alp. pl.	.....	5,6	S.	1959.
35 fusca	brownish dwarf...	M. hea.	.....	5	S.	1960.
36 parvifolia	small-leaved	Moi.mea.	.....	5	S.	1961.
37 adscendens ...	ascending dwarf	Moi.hea.	.....	5	S.	1962.
38 repens	creeping dwarf ...	San. hea.	.....	5	S.	183.
39 rosmarinifolia	rosemary-leaved	San. pl.	.....	4,5	S.	1365.
40 cinerea	grey	Woods	.....	5	T.	1897.

SPECIFIC CHARACTER.

SALIX.

- 22 L. elliptical, serrated, smooth, veiny, shining on both sides: young branches hairy: caps. awl-shaped, downy.
- 23 L. ovate, serrated, smooth and even above, glaucous beneath: branches rather pubescent: caps. ovate, silky.
- 24 L. ovate, serrated, smooth, reticulated with veins above, rather glaucous beneath: caps. elliptical, silky.
- 25 L. ovate, serrated, smooth and even above, glaucous and silky beneath: caps. ovate, silky: stems decumbent.
- 26 L. ovate, denticulated, smooth, finely veined, compressed, forming a keel: caps. ovate, downy.
- 27 L. elliptical, acute, slightly toothed, smooth, glaucous beneath: branches very smooth: catkins ovate, short, erect: germ. silky.
- 28 L. orbicular, serrated, very smooth, reticulated with veins, shining on both sides: caps. smooth.

*** *Leaves very entire, smoothish.*

- 29 L. elliptic-orbicular, obtuse, entire, smooth, reticulated with veins, glaucous beneath: caps. villous.

*** *Leaves villous.*

- 30 L. nearly entire, ovate, acute, somewhat villous above, very woolly beneath.
- 31 L. nearly entire, elliptic-lanceolate, even and nearly smooth above, woolly beneath, footstalked, decurrent.
- 32 L. nearly entire, lanceolate, acute, villous above, densely silky beneath: stig. deeply divided, capillary.
- 33 L. entire, elliptical, a little revolute, with a small hooked point, rather downy above, silky and shining beneath, as well as the branches.
- 34 L. slightly toothed, elliptical, acute, glaucous and silky beneath: stem prostrate.
- 35 L. somewhat toothed, elliptic-oblong, acute, smooth above, glaucous and silky beneath: petioles slender.
- 36 L. elliptical, nearly entire, with recurved points, glaucous and silky beneath: stem decumbent: stipulæ ovate, entire.
- 37 L. elliptic-oblong, somewhat serrated, with recurved points, glaucous and silky beneath: stem ascending: stipulæ ovate, serrated.
- 38 L. entire, elliptic-lanceolate, somewhat awn-pointed, nakedish above, glaucous or silky beneath: stem depressed.
- 39 L. entire, linear-lanceolate, straight, silky beneath: stem erect: stipulæ erect, flat.
- 40 L. almost entire, obovate-lanceolate, beneath glaucous, downy, with reticulated veins: stipulæ semi-cordate, serrated.

CLASS XXII. DIOECIA.

ORDER II. DIANDRIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
SALIX.	WILLOW.					
41 aurita.....	round-earedsallow	Woods	.....	4,5	S.	1487
42 aquatica.....	common sallow ...	Wet thie.	.....	4	T.	1437
43 oleifolia	olive-leavedsallow	Thickets	.....	3	S.	1402
44 rupestris	silky-rock	Se. alps	.....	4	S.	2342
45 Andersoniana	Anderson's	Sc. mount	.....	5	S.	2343
46 Forsteriana ...	Forster's	Se. wo.	.....	5	T.	2344
47 cotinifolia	quince-leaved ...	Woods	.....	4	S.	1403
48 sphacelata	withered pointed	Se. alps	.....	4,5	S.	2333
49 hirta	hairy branched ...	Woods	.....	4,5	T.	1404
50 caprea	round-leav'd sallow	Dry wo.	.....	4	T.	1488
51 aemminata	long-leaved sallow	Moi. wo.	.....	4	T.	1434
52 stipularis	auricled osier.....	Osier gro	.....	3	S.	1214
53 mollissima	velvet osier	Osier gro	.....	4	S.	1509
54 viminalis	common osier ...	Osier gro	.....	4,5	S.	1898
55 alba	common white ...	Woods	.....	4,5	T.	2430
56 carulea	blue	Moi. mea.	.....	5	T.	2431

ORDER III. TRIANDRIA.

443	EMPETRUM.	CRAKE-BERRY.				
	1 nigrum	black	Mount h.	red	5	S. 526
444	RUSCUS.	BUTCHER'S BROOM.				
	1 aculeatus	common	Thickets	greenish	3,4	P. 560

CLASS XXII. DIOECIA.

ORDER II. DIANDRIA.

SPECIFIC CHARACTER.

SALIX.

- 1 L. somewhat serrated, obovate, obtuse, with a small hooked point, villous and reticulated with veins on both sides: stipulæ various.
- 2 L. somewhat serrated, obovate-elliptical, downy, flat: somewhat glaucous beneath: stipulæ round, toothed.
- 3 L. obovate-lanceolate, flat, denticulated, acute, glaucous and hairy beneath: stipulæ small.
- 4 L. obovate, serrated, even, silky on both sides: stipulæ hairy: germ. stalked, silky: stig. entire.
- 5 L. elliptical, acute, finely notched, downy: stipulæ half ovate, smooth: germ. smooth: stig. cloven.
- 6 L. elliptic-obovate, acute, notched, slightly downy, glaucous beneath: stipulæ vaulted: germ. silky.
- 7 L. elliptical, almost orbicular, slightly toothed, beneath downy and marked with rectangular veins.
- 8 L. entire, elliptical, flat, downy on both sides, somewhat withered at the point: stipulæ obsolete: caps. tapering.
- 9 L. elliptic-cordate, pointed, finely notched, downy on both sides: stipulæ semi-cordate, toothed, nearly smooth: branches hairy.
- 10 L. ovate, pointed, serrated, waved, tomentous beneath: stipulæ sub-lunate: caps. swelling.
- 11 L. lanceolate-oblong, pointed, waved, slightly toothed, tomentous beneath: stipulæ kidney-shaped: caps. ovate, tapering.
- 12 L. lanceolate, pointed, obscurely crenate, tomentous beneath: stipulæ semi-cordate, very large: nect. cylindrical.
- 13 L. lanceolate, pointed, somewhat crenate, whitish and silky beneath: stipulæ lunate, very small.
- 14 L. lanceolate-linear, very long, pointed, entire, silky beneath: branches rod-like: style elongated.
- 15 L. elliptic-lanceolate, acute, serrated, silky on both sides; the lowest serratures glandular: stig. deeply cloven.
- 16 L. lanceolate, pointed, serrated, silky, but beneath at length smooth; lower serratures glandular: stig. cloven.

ORDER III. TRIANDRIA.

443. EMPETRUM.

Stems procumbent.

444. RUSCUS.

L. ovate, with a sharp horny point, flowering on the upper side, naked.

CLASS XXII. DIOECIA.

ORDER IV. TETRANDRIA.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
445	VISCUM.	MISSELTOE.					
	1 album.....	common	On Trees	greenish	5	S.	1470.
446	HIPPOPHAE.	SALLOW-THORN.					
	1 rhamnoides ...	common	Sea coast	green ...	5	T.	425.
447	MYRICA.	GALE.					
	1 Gale	sweet	Sp. bogs	.....	5	S.	562.

ORDER V. PENTANDRIA.

448	HUMULUS.	HOP.					
	1 Lupulus.....	common	Hedges	yellow...	7	P.	427.
449	TAMUS.	BLACK-BRYONY.					
	1 communis	common.....	Hedges	greenish	6	P.	91.

ORDER VII. OCTANDRIA.

450	POPULUS.	POPLAR.					
	1 alba	abele, or white...	Moi. wo.	.....	3	T.	1618.
	2 canescens	grey	Wat. pl.	.....	3	T.	1619.
	3 tremula	aspen, or trembling	Moi. wo.	.....	3,4	T.	1909.
	4 nigra	black	Wat. pl.	.....	3	T.	1910.
451	RHODIOLA.	ROSE-ROOT.					
	1 rosea	common	Alp. rock	yellow...	5,6	P.	508.

ORDER VIII. ENNEANDRIA.

452	MERCURIALIS.	MERCURY.					
	1 perennis.....	perennial	Woods	green ...	4,5	P.	1872.
	2 annua.....	annual	Rubbish	green ...	7,9	A.	559.

CLASS XXII. DIOECIA.

ORDER IV. TETRANDRIA.

SPECIFIC CHARACTER.

445. VISCUM.

- 1 L. lanceolate, obtuse: stem dichotomous: heads of flow. axillary.

446. HIPPOPHAE.

- 1 L. lanceolate.

447. MYRICA.

- 1 L. lanceolate, slightly serrated: stem shrubby.

ORDER V. PENTANDRIA.

448. HUMULUS.

1

449. TAMUS.

- 1 L. heart-shaped, undivided.

ORDER VII. OCTANDRIA.

450. POPULUS.

- 1 L. roundish, somewhat heart-shaped, lobed, toothed, tomentous and snow-white beneath: catkins ovate.
 2 L. roundish, deeply waved, toothed, tomentous and hoary beneath: catkins cylind. loose.
 3 L. nearly orbicular, toothed, smooth on both sides: petioles compressed: young branches hairy.
 4 L. deltoid, pointed, serrated, smooth on both sides.

451. RHODIOLA.

- 1 L. obovate, pointed, fleshy, glaucous.

ORDER VIII. ENNEANDRIA.

452. MERCURIALIS.

- 1 Stem quite simple: L. rough: root creeping.
 2 Stem cross-branching: L. smooth: Fl. spiked: root fibrous.

CLASS XXII. DIOECIA.

ORDER VIII. ENNEANDRIA.

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
453 HYDROCHARIS.	FROG-BIT.					
1 Morsus ranæ...	common.....	Ditches	white ...	7	P.	803.

ORDER XIII. MONADELPHIA.

454 JUNIPERUS.	JUNIPER.					
1 communis	common.....	Heaths	.....	5	S.	1100.
455 TAXUS.	YEW.					
1 baccata	common.....	M. woods	.....	3,4	T.	746.

CLASS XXII. DIOECIA.

ORDER VIII. ENNEANDRIA.

SPECIFIC CHARACTER

453. HYDROCHARIS.

- 1 L. entire, kidney-shaped.

ORDER XIII. MONADELPHIA.

454. JUNIPERUS.

- 1 L. 3-together, spreading, tipped with a spine, longer than the berry.

455. TAXUS.

- 1 L. approximate.

CLASS XXIII.

POLYGAMIA.

.

ORDER I. MONOECIA.

456. ATRIPLEX..... Hermaphrodite flower. *Cal.* 5-parted, inferior.
Cor. 0. *Stam.* 5. *Style* cloven, *Seed* 1, depressed.
Female, *Cal.* 2-leaved. *Cor.* 0. *Style* cloven.
Seed 1, compressed.

CLASS XXIII. POLYGAMIA.

ORDER I. MONOECIA.

456

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Colour of the Flower.	Time of Flowering.	Duration.	Figure in English Botany.
ATRIPLEX.	ORACHE.					
1 portulacoides...	shrubby	Mud. sh.		7,8	S.	261.
2 laciniata.	frosted sea.....	San. sh.		7	A.	165.
3 patula	spreading	Dunghill		6,8	A.	936.
4 angustifolia ...	narrow-leaved ...	Rubbish		6,8	A.	1774.
5 erecta	upright	Fields !		8	A.	2223.
6 littoralis.....	grass-leaved	Mud. sh.		8,9	A.	798.
7 pedunculata ...	stalked sea	Salt-mar!		8,9	P.	232.

CLASS XXIII. POLYGAMIA.

ORDER I. MONOECIA.

SPECIFIC CHARACTER.

456. ATRIPLEX.

- 1 Stem shrubby: L. opposite, obovate-lanceolate: Fl. mostly monoecious.
- 2 Stem herbaceous, spreading: L. deltoid, sinuate-toothed, silvery beneath.
- 3 Stem herbaceous, spreading: L. deltoid-lanceolate, somewhat halbert-shaped: calyx of the seeds more or less muricated on the disk.
- 4 Stem herbaceous, spreading: L. lanceolate, entire; lowermost somewhat hastate: calyx of the seeds hastate, smoothish.
- 5 Stem herbaceous, erect: L. ovate-lanceolate; lower ones sinuated: calyx of the seed muricated on every side.
- 6 Stem herbaceous, erect: L. all linear, entire or toothed: calyx of the seed muricated, sinuated.
- 7 Stem herbaceous, flexuose, divaricating: L. obovate, entire: female flow. on foot stalks, wedge-shaped.

CLASS XXIV.

CRYPTOGAMIA.

ORDER I. GONOPTERIDES.

Fructification in a terminal catkin.

457. **EQUISETUM.** *Scales* of the catkin peltate, flat, angular, flowering on their inside. *Partial Invol.* tubular, 2-valved. *Seed* naked, enfolded by 4 spiral pollen-bearing filaments.

ORDER II. STACHYOPTERIDES.

Fructification in a spike.

458. **LYCOPodium.** *Spikes* club-shaped. *Caps.* kidney-shaped, 1-celled, 2-valved, many-seeded. *Seeds* very minute, like dust.
459. **OPHIOGLOSSUM.** *Caps.* numerous naked, collected into a 2-rowed spike, 1-celled, 2-valved, bursting transversely.
460. **BOTRYCHIUM.** *Caps.* globular, attached to the stalks of a compound spike, distinct, naked, 1-celled, 2-valved, bursting transversely.

ORDER III. SCHISMATOPTERIDES.

Fructification in branched spikes.

461. **OSMUNDA.** *Caps.* globular, stalked, scored, 2-valved, clustered. *Invol.* 0.

ORDER IV. FILICES. (FERNS.)

Fructification on the back of the leaf or frond.

462. **POLYPODIUM.** *Fructification* in roundish scattered dots. *Invol.* 0.

463. ASPIDIUM. *Fructif.* in roundish scattered dots. *Invol.* umbilicated.
464. ASPLENIUM. *Fruct.* in scattered transverse lines. *Invol.* originating from a vein, bursting towards the rib.
465. SCOLOPENDRIUM. *Fruct.* in scattered double lines, close together, between veins. *Invol.* superficial, folding over each other, and opening as if by a longitudinal suture.
466. PTERIS. *Fruct.* in continued marginal lines. *Invol.* formed of the reflexed margin of the leaf, bursting inwards.
467. BLECHNUM. *Fruct.* in continued lines near the rib of the leaf. *Invol.* superficial, bursting inwards.
468. ADIANTUM. *Fruct.* in oblong or roundish marginal dots. *Invol.* like scales, formed of the reflexed margin of the leaf, distinct, opening inwards.
469. CYATHEA. *Fruct.* scattered, roundish, growing out of an hemispherical *Invol.* which bursts at the top.
470. WOODSIA. *Fruct.* scattered, roundish. *Invol.* open, divided into many capillary segments.
471. TRICHOMANES. *Fruct.* inserted into the margin of the leaf. *Invol.* pitcher-shaped, 1-leafed, opening outwards.
472. HYMENOPHYLLUM. *Fruct.* inserted into the margin of the leaf. *Invol.* 2-valved, compressed, opening outwards.

ORDER V. HYDROPTERIDES.

Fructification nearly radical..

473. ISOETES. *Caps.* membranaceous, not opening, immersed at the base of the frond, 1-celled. *Seeds* rough.
474. PILULARIA. *Invol.* globular, imbricated, resembling a 4-celled, 4-valved capsule. *Seeds* numerous, coated.

ORDER VI. MUSCI. (MOSSES.)

*Herb leafy. Corolla like a Hood bearing the Style, and covering the Capsule, which is closed with a lid.**A. Peristome none.*** Capsule sessile.*

475. ANDRÆA. *Caps.* 4-valved. *Lid.* persistent.
476. SPHAGNUM. *Caps.* entire. *Lid.* deciduous. *Recept.* stalked.

*** Fruitstalks terminal.*

477. PHASCUM. *Caps.* entire. *Recept.* sessile. *Lid.* persistent. *Calyptra* dimidiate.

478. SCHISTOSTEGA. *Caps.* entire. *Recept.* sessile. *Lid.* deciduous, lacinated.
 479. ANICTANGIUM. *Caps.* entire. *Recept.* sessile. *Lid.* deciduous, entire. *Calypt.* campanulate.
 480. GYMNSTOMUM. *Caps.* entire. *Recept.* sessile. *Lid.* deciduous, entire. *Calypt.* dimidiate.

B. *Peristome simple.*

* *Fruitstalks terminal.*

481. DIPHYSCIUM. *Perist.* forming a plicate, membranous, truncated cone. *Calypt.* mitriform.
 482. TETRAPHIS. *Perist.* consisting of 4 equi-distant upright teeth. *Calypt.* mitriform.
 483. SPLACHNUM. *Perist.* of 8 double teeth. *Calypt.* mitriform, furrowed.
 484. CONOSTOMUM. *Perist.* of 16 equidistant teeth, all united at their summits. *Calypt.* dimidiate.
 485. POLYTRICHUM. *Perist.* of 32 or 64 equidistant incurved teeth; united by a horizontal membrane at their summits. *Calypt.* dimidiate, small.
 486. CINCLIDOTUS. *Perist.* of 32 filiform twisted teeth, anastomosing at their base. *Calypt.* mitriform.
 487. TORTULA. *Perist.* of 32 filiform twisted teeth, more or less united at the base. *Calypt.* dimidiate.
 488. ENCALYPTA. *Perist.* of 16 teeth. *Calypt.* campanulate, smooth, entirely covering the capsule.
 489. GRIMMIA. *Perist.* of 16 entire equidistant teeth. *Calypt.* mitriform.
 491. WEISSIA. *Perist.* of 16 entire equidistant teeth. *Calypt.* dimidiate.
 492. DICRANUM. *Perist.* of 16 bifid equidistant teeth. *Calypt.* dimidiate.
 493. TRICHOSTOMUM. *Perist.* of 16 equal teeth, divided to the base, or 32 united in pairs. *Calypt.* mitriform.
 495. DIDYMODON. *Perist.* of 16, or 32 teeth in pairs, or united at the base. *Calypt.* dimidiate.

** *Fruitstalks lateral.*

494. LEUCODON. *Perist.* of 32 teeth, united in pairs. *Calypt.* dimidiate.
 490. PTEROGONIUM. *Perist.* of 16 entire equidistant teeth. *Calypt.* dimidiate.

C. *Peristome double.*

* *Fruitstalks terminal.*

496. FUNARIA. *Perist.* oblique; the outer of 16 teeth, and the inner of the same number opposite to those of the outer.

497. ZYGODON. *Perist.* outer of 16 teeth in pairs; the inner of 16 ciliary processes, lying horizontally. *Calypt.* dimidiate.
493. ORTHOTRICHUM. *Perist.* outer of 16 teeth in pairs; the inner of 16 ciliary processes, lying horizontally. *Calypt.* mitriform, sulcate, more or less hairy.
504. BARTRAMIA. *Caps.* subglobose. *Perist.* outer of 16 teeth; inner a membrane divided in 16 bifid segments. *Calypt.* dimidiate.
507. BRYUM. *Perist.* outer of 16 teeth; inner a membrane cut into 16 equal segments, with filiform processes between them. *Calypt.* dimidiate.
503. BUXBAUMIA. *Caps.* oblique, gibbous. *Perist.* outer of numerous filiform, jointless processes; inner a plicate membranous cone. *Calypt.* mitriform.

*** *Fruitstalks lateral.*

499. NECKERA. *Perist.* outer of 16 teeth; inner of 16 cilia, connected at the base by a short membrane. *Calypt.* dimidiate.
500. ANOMODON. *Perist.* of 16 teeth, and a ciliary process from each tooth. *Calypt.* dimidiate.
501. DALTONIA. *Perist.* of 16 teeth, with a ciliary process from the side of each. *Calypt.* mitriform.
502. FONTINALIS. *Perist.* outer of 16 teeth; inner of 16 cilia, connected by transverse bars, and forming a reticulated cone. *Calypt.* mitriform.
505. HOOKERIA. *Perist.* outer of 16 teeth; inner a membrane divided into 16 entire segments. *Calypt.* mitriform.
506. HYPNUM. *Perist.* outer of 16 teeth; inner a membrane cut into 16 equal segments, with filiform processes between them. *Calypt.* dimidiate.

ORDER VII. HEPATICÆ.

Herb frondose, consisting of leaf and stem united. Capsules destitute of a lid.

503. JUNGERMANNIA. *Male Flowers* sessile. *Anth.* stalked. *Caps.* on a stalk, rising from a sheath, of 4 valves. *Seeds* attached to elastic filaments.
509. BLASIA. *Male*, solitary, imbedded in the frond. *Female*, *Cal.* none. *Caps.* imbedded in the frond, oblique, 1-celled, with a tubular mouth. *Seeds* numerous.
510. SPHEROCARPUS. *Cal.* ventricose, undivided. *Seeds* very numerous, collected into a globe.
511. TARGIONIA. *Cal.* of 2 concave valves. *Seeds* very numerous, collected into a globe.

CLASS XXIV. CRYPTOGRAMIA. ORDER VII. HEPATICÆ.

512. *MARCHANTIA*. *Male*, *Cal.* salver-shaped, with numerous *anth.* imbedded in its disk. *Female*, *Cal.* peltate, flowering beneath. *Caps.* bursting at their summit. *Seeds* attached to elastic fibres.
513. *RICCIA*. *Male*, scattered warts? *Female*, *Germen* globose, sunk, with the style, in the frond. *Caps.* exposed, globose, crowned with the style, 1-celled. *Seeds* numerous, elliptical.
514. *ANTHOCEROS*. *Male*, sessile warts. *Female*, *Cal.* tubular. *Caps.* awl-shaped, 2-valved. *Seeds* numerous, rough, fixed to the valves or to the partition.

ORDER VIII. ALGÆ.

Herb frondose, aquatic or submersed. Seeds in tubercles or swellings, or dispersed in the substance of the frond.

515. *FUCUS*. *Seeds* produced in clustered tubercles, which burst at their summits.
516. *ULVA*. Frond membranous or gelatinous. *Seeds* solitary, scattered throughout its substance, under the cuticle.
517. *RIVULARIA*. Frond gelatinous, firm, destitute of an external cuticle. Fructifications among jointed filaments, lodged in the substance of the frond.
518. *CONFERTA*. *Seeds* produced within the substance of the capillary or jointed frond, or inclosed tubercles united with it.
519. *VAUCHERIA*. *Anth.* awl-shaped, incurved. *Caps.* adjoining to the *Anth.* ovate, single seeded, in pairs or solitary.

ORDER IX. LICHENES.

Frond polymorphous, without root or stem. Fructification in shields, tubercles or warts, in whose disk the seeds are lodged.

- A. *IDIOTHALAMI*. *Receptacle* composed of a substance different from the frond, and discoloured.

* *Receptacles without a border, or nucleus.*

520. *SPILOMA*. *Receptacles* shapeless, tumid, hairy and powdery, in an uninterrupted crustaceous frond.
521. *ARTHONIA*. *Recept.* shapeless, flattish, covered with a black membrane, in an uninterrupted crustaceous frond.
522. *SOLORINA*. *Recept.* roundish, sessile, covered by a coloured membrane, within somewhat gelatinous, cellular. Frond coriaceous, leafy, veined beneath.

**** Receptacle bordered, but without a nucleus.**

523. **GYALECTA.** *Recept.* orbicular, immersed in the frond, elevated at the edges, urn-shaped, covered by a coloured membrane, within somewhat gelatinous. *Frond* crustaceous, uniform.
524. **LECIDEA.** *Recept.* orbicular, sessile, covered by a coloured membrane, with a flat disk. *Frond* various, crustaceous, either uniform and limited, scattered and indeterminate, or leafy and membranaceous.
525. **GYROPHORA.** *Recept.* orbicular, sessile, concentrically plaited, covered with a coloured membrane. *Frond* leafy, membranaceous, peltate.
526. **CALICIUM.** *Recept.* cup-shaped, stalked, with a powdery disk. *Frond* crustaceous, uniform.
527. **OPEGRAPHIA.** *Recept.* oblong, sessile, covered with a coloured membrane, with a linear disk. *Frond* crustaceous, membranaceous, or leprous, uniform.

***** Receptacle containing a seed-bearing nucleus.**

528. **GRAPHIS.** *Recept.* linear, immersed, bordered, with a narrow disk containing an elongated cellular nucleus. *Frond* crustaceous, membranaceous or leprous, uniform.
529. **VERRUCARIA.** *Recept.* somewhat globular, half immersed, with a double coat; the outer cartilaginous, black; and the inner thin, inclosing a globular cellular nucleus. *Frond* crustaceous, membranaceous, uniform.
530. **ENDOCARPON.** *Recept.* globular, inclosed in the frond, their edges a little protuberant, black, with a simple diaphanous coat, and a globular cellular nucleus. *Frond* crustaceous, cartilaginous, leafy and lobed.

B. COENOTHALAMI. *Receptacle in part composed of the substance of the frond.*

*** Recept. like warts.**

531. **PORINA.** *Recept.* inclosing several hollows with a thin diaphanous coat, with impressed orifices, and a globular cellular nucleus. *Frond* cartilaginous-membranaceous, uniform.
532. **THELOTREMA.** *Recept.* concave, bordered, inclosing a hollow surrounded by a membranaceous coat, opening above. *Frond* cartilaginous, and somewhat crustaceous, uniform.
533. **PYRENULA.** *Recept.* containing a single hollow, with a thick cartilaginous black covering, and a cellular globular nucleus. *Frond* crustaceous or cartilaginous, uniform.
534. **VARIOLARIA.** *Recept.* somewhat bordered, inclosing a seed-bearing compressed cellular plate. *Frond* cartilaginous or crustaceous, uniform.

535. *SAGEDIA*. *Recept.* covered by a coloured membrane, with a disk-like depression, and concealing the immersed seed-bearing lamina. *Frond* crustaceous uniform.

*** *Recept. covered by a coloured discoid plate or lamina.*

536. *URCEOLARIA*. *Recept.* orbicular, pitcher-shaped, immersed in the frond, and bordered. *Frond* crustaceous, uniform.
537. *LECANORA*. *Recept.* orbicular, thick, sessile, bordered, with a plano-convex disk. *Frond* crustaceous, uniform or figured.
538. *ROCCELLA*. *Recept.* orbicular, entirely sessile, and connected with the frond, with a plano-convex disk. *Frond* leathery, cartilaginous, cylind. or flat, jagged into branches.
539. *EVERNIA*. *Recept.* nearly orbicular, fixed by the centre, sessile, with the edges a little elevated and turned in, and a concave disk. *Frond* somewhat crustaceous, fibrous, angular, compressed, jagged into branches.
540. *STICTA*. *Recept.* orbicular, thickish, closely pressed to the frond, and fixed to it by the centre, with an elevated border. *Frond* coriaceous-cartilaginous, foliaceous, lobed, downy beneath, marked with scattered coloured pits.
541. *PARMELIA*. *Recept.* orbicular, somewhat pitcher-shaped, membranaceous, attached by the centre, inflexed at the edge, and scarcely bordered. *Frond* membranaceous, or coriaceous, leafy, stellated, lobed or jagged.
542. *BORRERA*. *Recept.* orbicular, stalked, inflexed at the edge. *Frond* cartilaginous, jagged into branches, which are generally channelled beneath and fringed.
543. *CETRARIA*. *Recept.* orbicular, plano-concave, obliquely attached to the margin of the frond, raised and inflexed at the edge. *Frond* cartilaginous-membranaceous, leafy, deeply-lobed.
544. *PELTIDEA*. *Recept.* orbicular, flat, closely attached to the upper margin of the frond, with a border scarcely perceptible. *Frond* leathery-membranaceous, leafy, lobed, with downy veins beneath.
545. *NEPHROMA*. *Recept.* kidney-shaped, flat, closely attached to the under margins of lobes of the frond, elevated at the edge. *Frond* leathery-membranaceous, leafy, naked or somewhat woolly beneath.

*** *Recept. in little heads or globules, terminating the frond.*

546. *CENOMYCE*. *Recept.* orbicular, convex, immarginate, attached by the edge on hollow stalks, and covered by a seed-bearing plate. *Frond* crustaceous, cartilaginous, leafy, rarely uniform.

547. **BAEOMYCES.** *Recept.* orbicular, convex, immarginate, solid, sessile, covered by a reflexed seed-bearing plate. *Frond* crustaceous, uniform, with short soft solid stalks bearing the recept.
548. **ISIDIUM.** *Recept.* orbicular, formed of the seed-bearing plate, which is at first inclosed in and bordered by the apex of the short solid stalk, and at length becomes prominent and hemispherical. *Frond* crustaceous, uniform.
549. **STEREOCAULON.** *Recept.* turbinate, solid, sessile, bordered, at length globular, with a seed-bearing plate, which at length dilates, covering the border, and reflexed. *Frond* almost woody, solid, with a crustaceous fibrous-grained coat, and branched.
550. **SPHÆROPHORON.** *Recept.* nearly globular, terminal, formed of the frond, inclosing a black round seed-bearing ball, bursting by a torn orifice. *Frond* branched, shrubby, within fibrous, solid, with a cartilaginous coat.

C. **HOMOTHALAMI.** *Receptacle entirely produced from the outer and inner substance of the frond.*

* *Recept. like shields, subsessile, bordered.*

551. **ALECTORIA.** *Recept.* orbicular, thick, at length becoming convex, with scarcely any border, fibrous within. *Frond* branched, branches filiform, within hollow-fibrous; coat cartilaginous.
552. **RAMALINA.** *Recept.* orbicular, thick, stalked, somewhat peltate, flat, within fibrous. *Frond* branch-jagged, within rather solid, fibrous; coat cartilaginous.
553. **COLLEMA.** *Recept.* orbicular, rarely somewhat stalked. *Frond* polymorphous, entirely subgelatinous, cartilaginous when dry.

** *Recept. peltate, without a border, fringed.*

554. **CORNICULARIA.** *Recept.* orbicular, obliquely peltate, with scarcely any border, tooth-radiate and reflexed at the edge, fibrous within. *Frond* branched, shrubby, thin, within rather solid, fibrous, with a hard cartilaginous coat.
555. **USNEA.** *Recept.* orbicular, very broad, flat, fringed at the edge, within fibrous. *Frond* branched, thread-shaped, with a central elastic pith, and a cartilaginous crustaceous coat.

D. **ATHALAMI.** *Receptacle none.*

556. **LEPRARIA.** *Efflorescence* naked, loose, collected. *Frond* crustaceous, leprous, uniform, often entirely covered by the efflorescence.

Plants destitute of herbage, bearing their fructification in a fleshy substance; generally of quick growth, and short duration.

A. ANGIOCARPI. *Fungi bearing their seeds internally.*

* Scleroearpi. *Fungi somewhat hard, but with a soft internal substance.*

557. SPHERIA. *Capsules roundish, immersed, filled with jelly, which becomes a mass of minute volatile seeds.*
 558. HYSTERIUM. *Caps. oblong, bursting by a longitudinal rift.*
 559. XYLOMA. *Recept. various, hard, within somewhat fleshy, remaining closed, or at last variously bursting.*
 560. NAEMASPORA. *Recept. soft, manifest or none. Gelatine soluble, amorphous, breaking into cirri.*
 561. TUBERCULARIA. *Recept. obsolete. Gelatine roundish compact, permanent, soluble in wet.*

** Sarcocarpi. *Fungi fleshy, firm.*

562. SPIAEROBOLUS. *Recept. nearly globose, at length splitting into rays, and discharging elastically a round seed-vesicle.*
 563. PILOBOLUS. *Recept. stalk-like, pellucid, bearing a naked vesicle, which flies off elastically.*
 564. SCLEROTIUM. *Simple, oblong, variously shaped, internally smooth and uniform, externally becoming wrinkled.*
 565. TUBER. *Roundish, fleshy, variegated with seed-bearing veins.*

*** Dermocarpi. *Fungi membranaceous, leathery or woolly, stuffed with powder.*

566. BATARREA. *Provided with a volva or wrapper, stalked. Pileus deflexed, campanulate, veiled by the volva.*
 567. GEASTRUM. *Volva thin, evanescent. Outer coat of the recept. eleven star-wise, at length reflexed; orifice usually hairy.*
 568. BOVISTA. *Recept. smooth, sessile, with a white outer coat, which at length is evanescent by pieces, bursting irregularly at the top.*
 569. TULOSTOMA. *Recept. globular, stalked, with a cylindrical cartilaginous mouth.*
 570. LYCOPERDON. *Recept. or case caulescent, bursting at the top, covered with scaly or spiny warts. Powder greenish.*
 571. SCLERODERMA. *Recept. or case with a corky, hardish, somewhat tessellated coat, bursting irregularly. Powder purple or brown.*
 572. LYCOGALA. *Recept. or case roundish, membranaceous, smooth, containing a mass at first pulpy and deliquescent, and afterwards powdery, with a few fibres.*
 573. FULIGO. *At first pulpy, generally spreading, rather amorphous, externally fibrous and hardish or woolly, membranous at the base; internally fibrous, cellular and hairy, at length splitting into powder.*

574. SPUMARIA. Outer coat scurfy-cellular or powdery, deciduous. *Recept.* permanent, branched into horns, or simple, roundish and oblong.
575. DIDERMA. *Recept.* or case generally double; the outer brittle, the inner pellucid. *Pillar* large, roundish.
576. PHYSARUM. *Recept.* simple, rigid, often wrinkled, somewhat mealy, bursting unequally. Internal fibres scattered, latent.
577. TRICHIA. *Recept.* permanent, unequally bursting. *Internal fibres* compact, fixed to the base of the case, expanding elastically.
578. ARCYRIA. Upper half of the *Recept.* evanescent, leaving the mass of internal fibres naked, placed upon the calyculated receptacle.
579. STEMONITIS. *Case* very thin and evanescent. *Mass of internal fibres* reticulated, somewhat compact, surrounding and affixed to the *stylidium*.
580. LICEA. *Case* naked, roundish, or somewhat indeterminate in shape, brittle. Internal membrane none. *Seminal powder* destitute of fibres.
581. MUCOR. *Case* membranaceous, globose, stalked, at first watery, pellucid, and afterwards opaque. *Seeds* naked, rather coherent.
582. ONYGENA. *Case* stalked, roundish, dry, permanent. *Powder* compact, coherent, without any internal fibres.
583. AECIDIUM. *Cases* stemless, manifest, round, membranaceous, bursting by a dentated orifice. *Powder* farinaceous, naked. (Parasitical on leaves).
584. UREDO. *Case* none. *Powder* naked, deciduous. *Seeds* uniform, generally globose.
585. PUCCINIA. *Case* none. *Seeds* collected into a little mass, roundish, somewhat turbinate, tailed, distinct in rows. (Generally parasitical on leaves.)
586. TRICHODERMA. Naked. *Powder* copious, mealy, encompassed with a downy coat.
587. CYATHUS. *Recept.* funnel-shaped, coriaceous, at first closed by a veil, containing many lenticular seed-vesicles.

B. GYMNOCARPI. *Fungi bearing their seeds in an open receptacle, called hymenium.*

* Lythothecii. *The seed-bearing membrane, or hymenium, at length dissolving into jelly.*

588. PHALLUS. *Volva* radical. *Pileus* ovate, stalked, entire, reticulated with cells or tuberculated, covered with a viscid fluid.

** Hymenothecii. *Hymenium membranaceous, indissoluble, powdery with seeds.*

589. AMANITA. Furnished with a *volva*. *Pileus* fleshy, generally warty. *Gills* close together, nearly entire. *Stalk* generally elongated, ringed or naked.
590. AGARICUS. Without a *volva*. *Pileus* various. *Gills* either entire or intermixed with shorter, rarely simply branched; not veined.
591. MERULIUS. *Pileus* fleshy, or membranaceous. *Hymenium* with superficial tumid veins.
592. DAEDALEA. *Pileus* coriaceous-corky, reticulated beneath with oblong sinuses, somewhat like pores.
593. BOLETUS. *Pileus* various. Little tubes or pores round, entire.
594. SISTOTREMA. *Pileus* various. *Hymenium* at first with round pores, and afterwards, especially in the middle, torn into compressed teeth of various forms.
595. HYDNUM. *Pileus* various. *Hymenium* ciliated with awl-shaped entire processes.
596. THELEPHORA. *Pileus* coriaceous, dilated; minutely papillary, bristly or uniformly smooth beneath.
597. MERISMA. Branched, coriaceous, compressed, smooth, generally hairy at the top.
598. CLAVARIA. Club-shaped, simple or branched, uniform, with a short confluent stalk.
599. GEGLOSSUM. Club-shaped, fleshy, generally compressed, with a prominent margin near the stalk.
600. SPATHULARIA. Club-shaped. *Pileus* compressed, membranaceous, decurrent on each side.
601. LEOTIA. *Pileus* conical or orbicular, reflexed at the margin, and closely embracing the stalk.
602. HELVELLA. *Pileus* membranaceous, inflated, rather shapeless, deflexed on each side.
603. MORCHELLA. *Pileus* elongated, round, cellular, having no *volva*, nor viscid seminal fluid.
604. TREMELLA.† Expanded, gelatinous, undulated or plaited, generally without a distinct *pileus*. Revivescant by means of moisture.
605. PEZIZA. *Recept.* hemispherical, concave, slightly tumid, bearing seed in a smooth disk. *Cases* inconspicuous to the naked eye, each containing eight volatile seeds.
606. ASCOBOLUS. *Recept.* hemispherical, fleshy. *Cases* manifest, prominent, bursting, filled with a fluid, and generally eight seeds.
607. HELOTIUM. Stalked. *Recept.* a convex hemispherical head, smooth on both sides.

† The Genus Tremella appears to form a distinct Order between Lichenes and Fungi.

*** Nematothecii. *Fungi resembling Byssus.*†

608. PERICONIA. *Stalk* rigid, simple, with a mealy dry head.
609. ISARIA. Soft, simple and branched, covered with a mealy powder.
610. MONILIA. Stalked or dispersed, fibrous. Threads beaded or jointed.
611. DEMATIUM. Byssus of an indeterminate form, erect or depressed, tufted or dispersed. Threads smooth, not woven together.
612. ERINEUM. Threads rigid, knotty, conglomerated into a little mass, impressed in leaves.
613. RACODIUM. Byssus expanded, soft, with the threads closely interwoven, resembling cloth.
614. HUMANTIA. Byssus branched, creeping, woolly.

**** *Doubtful Fungi, resembling Lichens.*

615. RHIZOMORPHA. Creeping, rigid, smooth, with a villous pith.
616. MESENTERICA. Creeping, gelatinous, veiny, with the ramifications of the veins joined by a thin membrane.

† All the Species of the Linnean Genus *Byssus* are now referable to other Genera.

CLASS XXIV. CRYPTOGRAMIA. ORDER I. GONOPTERIDES.

457	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Time of Flowering.	Duration.	Figure in English Botany.
	EQUISETUM.	HORSE-TAIL.				
	1 sylvaticum.....	branched wood	Moi. sh. pl...	4,5	P.	1874.
	2 arvense	corn	Moist fields	3,4	P.	2020.
	3 palustre	marsh	Boggy places	6,7	P.	2021.
	4 fluviatile	great water	Watery pla.	4	P.	2022.
	5 limosum.....	smooth naked	Watery pla.	6,7	P.	929.
	6 hyemale	rough.....	Moist woods	7,8	P.	915.
	7 variegatum.....	variegated.....	Scot. shores	7	P.	1987.

ORDER II. STACHYOPTERIDES.

458	LYCOPODIUM.	CLUB-MOSS.				
	1 clavatum	common.....	Heaths	7,8	P.	224.
	2 Selaginoides	prickly	Wet alp. hea.	8	P.	1148.
	3 inundatum.....	marsh	Turfy bogs...	6,7	P.	239.
	4 Selago	fir	Wet alp. hea.	6-8	P.	233.
	5 annotinum.....	interrupted	Alp. heaths	6-8	P.	1727.
	6 alpinum	alpine.....	Alp. bogs ...	8	P.	234.
459	OPHIOGLOSSUM.	ADDER'S TONGUE.				
	1 vulgatum	common.....	Moi. mea. ...	5-10	P.	108.
460	BOTRYCHIUM.	MOON-WORT.				
	I Lunaria	common.....	Hilly pastures	6	P.	*318.

CLASS XXIV. CRYPTOGRAMIA. ORDER I. GONOPTERIDES.

SPECIFIC CHARACTER.

457. EQUISETUM.

- 1 Branches compound, curved downwards, rough.
- 2 Barren stems branched on all sides; branches roughish: flowering stems unbranched, with distant sheaths, deeply toothed.
- 3 Flowering stems angled, branched; branches simple, erect, roughish.
- 4 Barren stems with numerous roughish branches: flowering stems unbranched; their sheaths not far distant, with many slender teeth.
- 5 Stem partly naked, smooth as well as the branches.
- 6 Stem naked, very rough, somewhat branched at the base: sheaths whitish, black at the base and top.
- 7 Stem naked, very rough, branched at the base: sheaths black, with white membranaceous teeth.

ORDER II. STACHYOPTERIDES.

458. LYCOPODIUM.

- 1 L. scattered, thready; floral ones broader, scaly: flowering branches erect, with 2 or 3 spikes.
- 2 L. scattered, fringed, lanceolate; floral ones larger, spreading.
- 3 L. scattered, entire, linear-lanceolate; floral ones dilated at the base, somewhat spreading.
- 4 L. scattered, entire, lanceolate, in 8 series: stem forked, erect; branches equal at the top.
- 5 L. scattered, slightly serrated, in 5 series; floral ones dilated, short: flowering branches annually proliferous.
- 6 L. imbricated in 4 series, acute, keeled; floral ones ovate-lanceolate, flat: shoots erect, equal at the top.

459. OPHIOGLOSSUM.

- 1 Frond ovate, without veins, bearing the spike.

460. BOTRYCHIUM.

- 1 Frond pinnated, bearing the spike from the base; leaf. lunulate, crenate. *Osmunda*. *Eng. Bot.*

CLASS XXIV. CRYPTOGRAMIA. ORD. III. SCHISMATOPTERIDES.

461

LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Time of Flowering.	Duration.	Figure in English Botany.
OSMUNDA.	OSMUND-ROYAL				
1 <i>regalis</i>	common	Shady bogs	6,7	P.	209.

ORDER IV. FILICES. (FERNS.)

462

POLYPODIUM.	POLYPODY.				
1 <i>vulgare</i>	common	Shady ba.&c.	5-10	P.	1149.
2 <i>Phegopteris</i>	pale-mountain	Mountains...	6,7	P.	2224.
3 <i>Dryopteris</i>	three-branched	Moist places	7	P.	616.
4 <i>calcareum</i>	rigid	Calc. rocks...	7	P.	1525.

463

ASPIDIUM.	SHIELD-FERN.				
1 <i>Lonchitis</i>	rough alpine	Alp. rocks ...	5,6	P.	*797.
2 <i>Oreopteris</i>	heath	Heaths	7	P.	*1019.
3 <i>Thelypteris</i>	marsh	Marshes ! ...	7	P.	*1018.
4 <i>cristatum</i>	lesser-crested	Bog. heaths	6,7	P.	2125.
5 <i>aculeatum</i>	common prickly.....	Shady places	6	P.	1562.
6 <i>Filix mas</i>	male	Shady places	6,7	P.	1458.
7 <i>lobatum</i>	close-leaved	Shady places !	6	P.	1563.
8 <i>spinulosum</i>	crested	Marshes ! ...	6,7	P.	1460.
9 <i>dilatatum</i>	great crested.....	Wet sha. pl.	6,7	P.	1461.
10 <i>Filix fœmina</i>	female	Wet sha. pl.	6,7	P.	1459.
11 <i>fontanum</i>	smooth rock	Walls & rocks	6	P.	2024.
12 <i>irriguum</i>	brook	Wet sha. pl.	6	P.	2199.

CL. XXIV. CRYPTOGRAMIA. ORD. III. SCHISMATOPTERIDES.

SPECIFIC CHARACTER.

461. OSMUNDA.

- 1 Frond bipinnate terminating in clustered spikes; leaf. cordate-lanceolate, smooth.

ORDER IV. FILICES.

462. POLYPODIUM.

- 1 Frond pinnatifid; lobes linear-lanceolate, somewhat serrated, obtuse: root scaly.
- 2 Frond pinnate; leaf. lanceolate, pointed, pinnatifid, united at their base; the lower pair reflexed.
- 3 Frond 3-branched, bipinnate, spreading-reflexed; lobes obtuse, somewhat crenate: root filiform.
- 4 Frond 3-branched, bipinnate, erect, somewhat rigid; lobes obtuse, slightly notched: seed-dots confluent.

463. ASPIDIUM.

- 1 Frond pinnate; leaf. somewhat crescent-shaped, bristly serrated, bent downwards; stalks scaly. *Polypodium. Eng. Bot.*
- 2 Frond pinnate; leaf. pinnatifid, entire, with resinous glands beneath: seed-dots-marginal, confluent. *Polypodium. Eng. Bot.*
- 3 Frond pinnate; leaf. pinnatifid, somewhat crenate, smooth, with blunt ovate lobes: seed-dots confluent. *Polypodium. Eng. Bot.*
- 4 Frond pinnate; leaf. pinnatifid, acute; lobes ovate, blunt, crenate, sharply toothed: stalk scaly at the base.
- 5 Frond bipinnate; leaf. ovate, somewhat crescent-shaped, fringed with spines, hairy beneath: common stalk scaly.
- 6 Frond bipinnate; leaf. obtuse serrated: stalk scaly.
- 7 Frond bipinnate; leaf. ovate, obtuse, fringed with spines, hairy beneath; lowest pair very large: stalk scaly.
- 8 Frond bipinnate; leaf. elliptical, decurrent, serrated or pinnatifid, tipped with small spines: stalks smooth: ribs zigzag.
- 9 Frond bipinnate; leaf. pinnatifid, deeply serrated, tipped with small spines: stalk scaly: invol. circular.
- 10 Frond bipinnate; leaf. pinnatifid, serrated, pointless: stalk smooth: invol. kidney-shaped.
- 11 Frond linear-lanceolate, smooth, mostly bipinnate; leaf. alternately rounded, sharply toothed: stalk winged.
- 12 Frond lanceolate pinnate; leaf. deeply pinnatifid, cut, toothed: stalk 4-angular: invol. lateral.

CLASS XXIV. CRYPTOGRAMIA.

ORDER IV. FILICES.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Time of Flowering.	Duration.	Figure in English Botany.
464	ASPLENIUM.	SPLEEN-WORT.				
	1 Trichomanes	com. maiden hair ...	Shady rocks	3,10	P.	576.
	2 viride	green maiden hair...	Alp. rocks ...	6,7	P.	2257.
	3 marinum	sea	Rocks	7,10	P.	392.
	4 septentrionale ...	forked	Rocks	6,10	P.	1017.
	5 alternifolium	alternate-leaved ...	Scotch rocks	6,10	P.	2258.
	6 Ruta-muraria ...	wall-rue.....	Shady rocks	6,10	P.	150.
	7 Adiantum nigrum	black maiden hair...	Shady places	6,10	P.	1950.
	8 lanceolatum	lanceolate	Rocks.....	6,10	P.	240.
465	SCOLOPENDRIUM.	HART'S-TONGUE				
	1 vulgare	common	Moi. sh. pl.	7	P.	1150.
	2 Ceterach	scaly	Calc. rocks...	4,10	P.	1244.
466	PTERIS.	BRAKE.				
	1 aquilina	common	Hea. & wo.	7	P.	1679.
	2 crispa.....	rock	Stony hills...	7	P.	1160.
467	BLECHNUM.	BLECHNUM.				
	1 boreale	northern	Heaths	7	P.	1159.
468	ADIANTUM.	MAIDEN-HAIR.				
	1 Capillus Veneris	true	Rocks !	5,9	P.	1564.
469	CYATHEA.	CUP-FERN.				
	1 fragilis	brittle	Shady rocks	6,7	P.	1587.
	2 regia	lacinated	Alp. rocks ...	6	P.	*163.
	3 dentata	toothed	Alp. rocks ...	7	P.	1588.

CLASS XXIV. CRYPTOGRAMIA.

ORDER IV. FILICES.

SPECIFIC CHARACTER.

464. ASPLENIUM.

- 1 Frond pinnate ; leaf. roundish, crenate : stalk polished, keeled.
- 2 Frond pinnate ; leaf. alternate, roundish elliptic, crenate : stalk flattened beneath.
- 3 Frond pinnate ; leaf. ovate, oblique, serrated, blunt, unequal and wedge-shaped at the base.
- 4 Frond wing-3-cleft ; segments alternate, linear, jagged at the tops.
- 5 Frond pinnate ; leaf. alternate, wedge-shaped, erect, jagged at the tops.
- 6 Frond alternately twice compound ; leaf. rhomboid-wedge-shaped, spreading, jagged at the tops.
- 7 Frond somewhat deltoid, alternately thrice pinnate ; leaf. lanceolate, sharpish, deeply serrated.
- 8 Frond lanceolate, alternately twice pinnate ; leaf. obovate, deeply and sharply crenate.

465. SCOLOPENDRIUM.

- 1 Frond simple, tongue-shaped, cordate at the base, smooth beneath.
- 2 Frond pinnatifid, lanceolate, scaly beneath.

466. PTERIS.

- 1 Frond thrice pinnate ; leaf. lanceolate, bluntish ; the lowermost pinnatifid ; the uppermost smaller.
- 2 Frond thrice pinnate ; barren leaf. wedge-shaped, cut ; fertile ones elliptical, blunt, convex.

467. BLECHNUM.

- 1 Frond pinnate, smooth ; leaf. linear, bluntish, entire, nearly equal at the base.

468. ADIANTUM.

- 1 Frond alternately twice-compound ; leaf. stalked, wedge-shaped, lobed.

469. CYATHEA.

- 1 Frond bipinnate ; leaf. pinnatifid, deeply serrated : invol. torn : common stalks winged.
- 2 Frond bipinnate ; leaf. lobed, blunt, beardless, entire : invol. torn : stalks winged. *C. incisa*, Eng. Bot.
- 3 Frond bipinnate ; leaf. ovate, blunt, deeply toothed, pointless.

CLASS XXIV. CRYPTOGRAMIA.

ORDER IV. FILICES.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Time of Flowering.	Duration.	Figure in English Botany.
470	WOODSIA.	BRISTLE-FERN.				
	1 hyperborea	alpine	Alpine rocks!	6	P.	*2023.
471	TRICHOMANES.	HAIR-FERN.				
	1 brevisetum.....	short styled	Moist rocks!	5,6	P.	*1417.
472	HYMENOPHYLLUM	FILMY-FERN.				
	1 Tunbridgense ...	Tunbridge.....	Moist rocks	5,6	P.	162.

ORDER V. HYDROPTERIDES.

473	ISOETES.	QUILL-WORT.				
	1 lacustris.....	mountain	Alpine lakes	5,6	P.	1084.
474	PILULARIA.	PILL-WORT.				
	1 globulifera.....	pepper grass	Moist heaths	6,7	P.	521.

ORDER VI. MUSCI. (MOSSES.)

475	ANDRÆA.	ANDRÆA.				
	1 rupestris	dusky rock.....	Alpine rocks	6	P.	1277.
476	SPHAGNUM.	BOG-MOSS.				
	1 obtusifolium	broad-leaved	Bogs	6	P.	*1405.
477	PHASCUM.	EARTH-MOSS.				
	1 subulatum	awl-leaved.....	Dry banks...	3-5	A.	2177.

CLASS XXIV. CRYPTOGRAMIA.

ORDER IV. FILICES.

SPECIFIC CHARACTER.

470. WOODSIA.

Brown, Trans. Linn. Soc. vol. xi.

- 1 Frond lanceolate, pinnate; leaf. heart-shaped, pinnatifid, hairy. *Polypodium, Eng. Bot.*

471. TRICHOMANES.

- 1 Frond thrice pinnatifid, lobed, smooth; segments linear, entire: stalk winged. *Hymenophyllum alatum, Eng. Bot.*

472. HYMENOPHYLLUM.

- 1 Frond alternately bipinnatifid; segments serrated as well as the invol: fruct. solitary at the upper edge of the base of each general division of the frond.

ORDER V. HYDROPTERIDES.

473. ISOETES.

- 1 Fronds awl-shaped, semicylindrical: caps. roundish, 2-celled: seeds granulated.

474. PILULARIA.

- 1 Stem creeping: L. filiform.

ORDER VI. MUSCI.

475. ANDRÆA.

- 1 Stems branched: L. lanceolate, keeled; upper ones sickle-shaped. For 3 other species, see *Eng. Bot.* 1273, 2162, 2507.

476. SPHAGNUM.

- 1 Branches tumid: L. ovate, obtuse. *Sph. latifolium. Eng. Bot.* For 3 other species, see *Eng. Bot.* 1406. 1493. 2392.

477. PHASCUM.

- 1 L. awl-shaped, straight; their nerve disappearing below the point. For 10 other species, see *Hooker's Musc. Brit. and Eng. Bot.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER VI. MUSCI.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Time of Flowering.	Duration.	Figure in English Botany.
478	SCHISTOSTEGA. I pennata	SCHISTOSTEGA. fern-leaved	Banks !	5	A.	*2213.
479	ANICTANGIUM. I ciliatum	ANICTANGIUM. branched hoary.....	Mount. places	9-12	P.	*1179.
480	GYMNOSTOMUM. I truncatulum	BEARDLESS-MOSS. blunt-fruited	Banks	3	A.	1975.
481	DIPHYSCIUM. I foliosum.....	DIPHYSCIUM. leafy	Shady rocks	7	A.	*329.
482	TETRAPHIS. I pellucida	FOUR-TOOTHED-MOSS. transparent	Wet sha. pl.	3,4	A.	1020.
483	SPLACHNUM. I ampullaceum.....	GLAND-MOSS. purple	Bogs, &c.	4,5	A.	144.
484	CONOSTOMUM. I boreale	CONE-MOUTHED-MOSS. alpine.....	Scotch alps	7,8	P.	*1135.
485	POLYTRICHUM. I undulatum	HAIR-MOSS. undulated	Shady banks	2,3	P.	1220.
486	CINCLIDOTUS. I fontinaloides	CINCLIDOTUS. water-moss	Stones in wat.	5-8	P.	*557.
487	TORTULA. I muralis	SCREW-MOSS. wall	Walls, &c.	10-6	P.	2033.

CLASS XXIV. CRYPTOGAMIA.

ORDER VI. MUSCI.

SPECIFIC CHARACTER.

478. SCHISTOSTEGA.

- 1 *Gymnostomum osmundaceum*, Eng. Bot.

479. ANICTANGIUM.

- 1 L. ovate, diaphanous at the points. *Gymnostomum*, Eng. Bot.
For another species, see Eng. Bot. 2237.

480. GYMNSTOMUM.

- 1 L. ovate, pointed, flat, entire : lid obliquely rostrate.
For 13 other species, see *Hooker's Musc. Brit.* and Eng. Bot.

481. DIPHYSCIUM.

- 1 *Buxbaumia foliosa*, Eng. Bot.

482. TETRAPHIS.

- 1 Caps. cylind : L. ovate-acuminate.
For another species, see Eng. Bot. 1422.

483. SPLACHNUM.

- 1 L. ovate-lanceolate, acute, serrated : apophysis inversely flagon-shaped, twice as wide as the capsule.
For 6 other species, see *Hooker's Musc. Brit.* and Eng. Bot.

484. CONOSTOMUM.

- 1 L. lanceolate, acuminate, keeled, slightly toothed. *Grimmia conostoma*, Eng. Bot.

485. POLYTRICHUM.

- 1 L. lanceolate, undulated, serrated : caps. cylind. curved : lid awl-shaped.
For 9 other species, see *Musc. Brit.* and Eng. Bot.

486. CINCLIDOTUS.

- 1 *Fontinalis minor*. Eng. Bot.

487. TORTULA.

- 1 Stem simple, short : L. ovate, acute, hair-pointed : caps. elliptic-cylind : lid conical.
For 10 other species, see *Musc. Brit.* and Eng. Bot.

CLASS XXIV. CRYPTOGRAMIA.

ORDER VI. MUSCI.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Time of Flowering.	Duration.	Figure in English Botany.
488	ENCALYPTA.	EXTINGUISHER-MOSS.				
	1 vulgaris	common.....	Banks, &c...	4,5	A.	*558.
489	GRIMMIA.	GRIMMIA.				
	1 pulvinata.....	grey-cushion.....	Walls, &c...	4,5	P.	1728.
490	PTEROGONIUM.	WING-MOSS.				
	1 Smithii	curling	Trees!	4	P.	1326.
491	WEISSIA.	WEISSIA.				
	1 controversa	little green.....	Banks.....	2	P.	*1367.
492	DICRANUM.	FORK-MOSS.				
	1 heteromallum ...	silky heath	Gravel. banks	5,6	A.	1272.
493	TRICHOSTOMUM.	FRINGE-MOSS.				
	1 canescens	common hoary	Sandy heaths	2,3	P.	2534.
494	LEUCODON.	WHITE-TOOTHED-MOSS.				
	1 sciuroides	squirrel-tail	Trees	4	P.	*1903
495	DIDYMODON.	DIDYMODON.				
	1 purpureum.....	purple-stalked	Moist banks	4	P.	*2262

SPECIFIC CHARACTER.

488. ENCALYPTA.

- 1 Stem short: L. lanceolate: caps. cylind: calypt entire at the base.
Bryum extincorium, *Eng. Bot.*
 For 2 other species, see *Eng. Bot.* 1418, 2163.

489. GRIMMIA.

- 1 L. lanceolate, hair-pointed: caps. ovate, striated, drooping: lid conical, acuminate.
 For 6 other species, see *Musc. Brit.* and *Eng. Bot.*

490. PTEROGONIUM.

- 1 Stems much branched; branches pinnate, incurved by drying: L. entire: fruitstalks short: lid rostrate.
 For 2 other species, see *Eng. Bot.* 1085, 2297.

491. WEISSIA.

- 1 Stems nearly simple: L. linear, awl-shaped: caps. ovate-elliptical: lid rostrate. *Grimmia*, *Eng. Bot.*
 For 17 other species, see *Musc. Brit.*

492. DICRANUM.

- 1 Stems branched: L. capillary, leaning one way, 1-nerved, dilated at the base: caps. obovate, gibbous.
 For 23 other species, see *Musc. Brit.* and *Eng. Bot.*

493. TRICHOSTOMUM.

- 1 L. ovate-lanceolate, nerveless, channelled, with a pellucid rough point: caps. ovate: stem erect.
 For 8 other species, see *Musc. Brit.* and *Eng. Bot.*

494. LEUCODON.

- 1 L. closely imbricated, ovate-cordate, acuminate, striated: caps. oblong.
Pterogonium, *Eng. Bot.*

495. DIDYMODON.

- 1 Stem forked: L. lanceolate, carinate; their margins recurved, entire: caps. elliptical, oblique, furrowed when dry. *Dicranum*, *Eng. Bot.*

For 7 other species, see *Musc. Brit.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER VI. MUSCI.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or Situation.	Time of Flowering.	Duration.	Figure in English Botany.
496	FUNARIA.	CORD-MOSS.				
	1 hygrometrica.....	yellow twisting.....	Walls, &c...	4,5	A.	*342.
497	ZYGODON.	ZYGODON.				
	1 conoideum	club-fruited	Trees !			*1239.
498	ORTHOTRICHUM.	BRISTLE-MOSS.				
	1 crispum	curled.....	Trees	3,4	P.	996.
499	NECKERA.	NECKERA.				
	1 pumila	small feathery	Trees !			1443.
500	ANOMODON.	ANOMODON.				
	1 curtispendulum ...	pendulous	Rocks	4	P.	*1444.
501	DALTONIA.	DALTONIA.				
	1 heteromalla	lateral	Trees.....	2,3	P.	*1180.
502	FONTINALIS.	WATER-MOSS.				
	1 antipyretica	greater	Rivers	7,8	P.	359.
503	BUXBAUMIA.	BUXBAUMIA.				
	1 aphylla	leafless	Barren hea.!	12	A.	1596.
504	BARTRAMIA.	BARTRAMIA.				
	1 pomiformis	apple	Heaths	4,5	P.	998.

CLASS XXIV. CRYPTOGRAMIA.

ORDER VI. MUSCI.

SPECIFIC CHARACTER.

496. FUNARIA.

- I L. concave, entire, ovate: nerve excurrent: fruitstalk curved, flexuose.
Bryum, *Eng. Bot.*
 For 2 other species, see *Musc. Brit.*

497. ZYGODON.

- I *Mnium conoideum*, *Eng. Bot.*

498. ORTHOTRICHUM.

- I Stem branched: L. linear, much curled when dry: fruitstalks elongated: caps. striated.
 For 9 other species, see *Musc. Brit.* and *Eng. Bot.*

499. NECKERA.

- I Branches pinnate: L. in 2 rows, ovate, slightly undulated: fruitstalks scarcely longer than the perichaetial leaves.
 For another species, see *Eng. Bot.* 617.

500. ANOMODON.

- I L. ovate, pointed, serrulated, even, spreading: fruitstalks as long as the perichaetium: caps. ovate. *Neckera*, *Eng. Bot.*
 For another species, see *Eng. Bot.* 265.

501. DALTONIA.

- I L. ovate, acute: caps. sessile, immersed: calypt. nearly entire.
Neckera, *Eng. Bot.*
 For another species, see *Eng. Bot.* 2564.

502. FONTINALIS.

- I L. nerveless, for the most part complicate-carinate.
 For 2 other species, see *Eng. Bot.* 1861, 2432.

503. BUXBAUMIA.

- I Caps. on a granulated stalk, rising from a hairy bulb.

504. BARTRAMIA.

- I L. awl-shaped, serrated, with the nerve reaching to the tip, twisted when dry.
 For 5 other species, see *Musc. Brit.* and *Eng. Bot.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER VI. MUSCI.

	LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Time of Flowering.	Duration.	Figure in English Botany.
505	HOOKERIA.	HOOKERIA.				
	1 lucens	shining	Wet sh. pla.	2-6	P.	1902.
506	HYPNUM.	FEATHER-MOSS.				
	1 complanatum.....	flat	Woods	3,4	P.	1492.
507	BRYUM.	THREAD-MOSS.				
	1 androgynum	narrow-leaved	Moist sh. pl.	4,5	P.	*1238.

ORDER VII. HEPATICÆ.

508	JUNGERMANNIA.	JUNGERMANNIA.				
	1 asplenoides	spleen-wort	Moist sh. pl.	3,4	P.	1788.
509	BLASIA.	BLASIA.				
	1 pusilla	dwarf.....	Moist sh. pl.	10,11	A.	1328.
510	SPHÆROCARPUS.	BLADDER-GRASS.				
	1 terrestris	reticulated.....	Clover fields	11	A.	299.
511	TARGIONIA.	TARGIONIA.				
	1 hypophylla.....	dotted	Shady banks!	3,4	P.	287.
512	MARCHANTIA.	MARCHANTIA.				
	1 polymorpha	star-headed	Moist sh. pl.	6	P.	210.
513	RICCIA.	RICCIA.				
	1 glauca	glaucous	Sandy ground	12-3	A.	2546.
514	ANTHOCEROS.	HORN-LIVER-WORT.				
	1 punctatus	jagged-leaved	Shady places	3-10	A.	1537.

CLASS XXIV. CRYPTOGRAMIA.

ORDER VI. MUSCI.

SPECIFIC CHARACTER.

505. HOOKERIA.

- 1 L. ovate, entire, obtuse, nerveless.—For another species, see *Musc. Brit.*

506. HYPNUM.

- 1 L. oblong, apiculate, entire, nerveless: caps. ovate, erect: lid rostrate.
For 59 other species, see *Musc. Brit.* and *Eng. Bot.*

507. BRYUM.

- 1 Stems nearly simple: L. lanceolate, serrated, with the margins recurved: caps. nearly erect, sulcated: lid conical. *Mnium*.
Eng. Bot.—For 24 other species, see *Musc. Brit.* and *Eng. Bot.*

ORDER VII. HEPATICÆ.

508. JUNGERMANNIA.

- 1 Shoots somewhat branched: L. crowded, 2-rowed, obovate, oblique, finely toothed: fruit stalks terminal.
For 80 other species, see *Eng. Bot.* and *Hooker's Brit. Jung.*

509. BLASIA.

- 1 Fronds spreading, lobed, crenate.

510. SPHÆROCARPUS.

- 1 Fronds in clusters, nearly horizontal, oblong, waved.

511. TARGIONIA.

- 1 Fronds obcordate, imbricated in thick round tufts.

512. MARCHANTIA.

- 1 Cal. of the fem. Fl. cloven into about 10 segments.
For 3 other species, see *Eng. Bot.* 503, 504, 2545.

513. RICCIA.

- 1 L. smooth, channelled, 2-lobed, bluntish: caps. towards the base: seeds pointed at each end.—For 2 other species, see *E. B.* 251, 252.

514. ANTHOCEROS.

- 1 Frond lobed, sinuated, with blunt segments.
For another species, see *Eng. Bot.* 1538.

CLASS XXIV. CRYPTOGRAMIA.

ORDER VIII. ALG.

515

LINNEAN NAMES.	ENGLISH NAMES.	Soil or situation.	Time of Flowering.	Duration.	Figure in English Botany.
FUCUS.	FUCUS.				
A.					
※					
1 siliculosus	podded	Sea coast ...			474.
※※※					
2 digitatus	fingered	Sea coast ...			2274.
※※※					
3 ligulatus	strap-leaved	Sea coast ..			1636.
※※※※※					
4 lumbricalis	worm-like	Sea coast ...			824.
※※※※※※					
5 Filum	sea-laces	Sea coast ...			2487.
B.					
※					
6 palmatus	dulse	Sea coast ...			1306.
※※※					
7 Norvegicus	red Norway	East coast...			1080.

CLASS XXIV. CRYPTOGRAMIA.

ORDER VIII. ALGÆ.

SPECIFIC CHARACTER.

515. FUCUS.

A. Organization woody.

* *Tubercles collected into a cylind. flat and often branched conceptacle : root an expanded tubercle, entire. Gen. FUCUS, of Lamouroux.*

1 Frond compressed, alternately branched : air-bladders many-celled, beaked.

** *Roots fibrous and branched. Gen. LAMINARIA, Lam.*

2 Frond leathery, palmate, with sword-shaped ribless segments : stalk round.

*** *Branches and leaves flat, stalked, with marginal spines. Gen. DESMARESTIA, Lam.*

3 Frond veinless, somewhat cartilaginous, doubly pinnate ; segments linear, acute, opposite.

**** *Fruct. like a pod, awl-shaped, simple or branched : stem and branches cylind. leafless. Gen. FURCELLARIA, Lam.*

4 Frond thread-shaped, forked ; terminal branches pointed, equal and level.

***** *Stem simple, cylind. with partitions within. Gen. CHORDA, Lam.*

5 Frond cartilaginous, slimy, thread-shaped, tapering at both ends, spirally twisted when old.

B. Organization coralloid : colour purple or reddish.

* *Tubercles round, generally compressed, innate, sessile or stalked, placed on the nerves, branches, &c. Gen. DELESSERIA, Lam.*

6 Frond membranous, palmate, smooth on both sides ; segments oblong and nearly simple.

** *Tubercles hemispherical or ovate, scattered over the disk of the leaves, which are flat and branched. Gen. CHONDRUS, Lam.*

7 Frond cartilaginous, forked ; branches linear, entire, rounded at the top.

CLASS XXIV. CRYPTOGRAMIA.

ORDER VIII. ALGÆ.

LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Time of Flowering.	Duration.	Figure in English Botany.
FUCUS. 海帶	FUCUS.				
8 corneus 海帶	horny pinnate	So. coast ...			1970.
9 pinnatifidus 海帶	pinnatifid	Sea coast ...		A.	1202.
10 Wigghi 海帶	Wigghian	East coast...		A.	1165.
11 flagelliformis..... 海帶	whip-cord	Sea coast ...		A.?	1222.
12 plumosus 海帶	feathery.....	Sea coast ...		A.	1308.
516 ULVA. *	LAVER.				
1 lactuca 海帶	common green	Sea shore ...		A.	1551.
2 diaphana 海帶	pellucid	Sea coast ...		A.	263.
517 RIVULARIA.	RIVULARIA.				
1 vermiculata 海帶	worm-shaped.....	So. coast ...			1813.

CLASS XXIV. CRYPTOGRAMIA.

ORDER VIII. ALGÆ.

SPECIFIC CHARACTER.

FUCUS.

*** *Tubercles nearly opaque, oblong, on branches. Gen. GELIDIUM, Lam.*

8 Frond horny, much branched, compressed; branches lanceolate, pinnatifid; segments opposite, spreading, bluntish.

**** *Tubercles globular, somewhat diaphanous at the extremities of the branches. Gen. LAURENCIA, Lam.*

9 Frond branched; branches mostly alternate, bipinnatifid, cut into short, blunt, callous teeth.

***** *Tubercles awl-shaped, nearly opaque. Gen. HYPNEA, Lam.*

10 Frond thread-shaped, tender, much branched; ultimate branches bristle-shaped.

***** *Tubercles spherical, sessile, somewhat pellucid: stem cylind. Gen. GIGARTINA, Lam.*

11 Frond thread-shaped, branched, slippery; branches in two rows, mostly alternate, elongated, naked, obtuse.

***** *Tubercles globular, somewhat pellucid: stem and branches compressed, partitioned or articulated at the extremities. Gen. PLOCAMUM, Lam.*

12 Frond repeatedly branched; branches bipinnate, with the last segments opposite, awl-shaped, tipped with fruit.

For 76 other species of *Fucus*, see *Eng. Bot.*

516. ULVA.

* *Herbaceous and uniform: seeds solitary, innate, scattered, never eminent. Gen. ULVA, Lam.*

1 Membranous, pellucid, palmate, proliferous; segments dilated.

** *Gelatinous or fleshy: capsules in the substance. Gen. ALCYONIDIUM, Lam.*

2 Gelatinous, pale yellow, pellucid, somewhat cylind. with many branches.
For 20 other species, see *Eng. Bot.*

517. RIVULARIA.

1 Cylind. brown, much branched; branches sub-divided, crooked: internal filam. compound, divaricated; alternate branches clustered, bended: fruit obovate, sessile at the base of the bended branches.

For 10 other species, see *Eng. Bot.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER VIII. ALGÆ.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in English Botany.
518	CONFERRA. *	CONFERRA.		
	1 confervicola	pointed parasitic	Sea.....	2576.

	2 coccinea	scarlet	Sea.....	1055.
519	VAUCHERIA.	VAUCHERIA.		
	1 sessilis	sessile fruited	Pools.....	1765.
ORDER IX. LICHENES.				
520	SPILOMA.	SPILOMA.		
	1 tumidulum	scarlet	Bark of trees	2151.
521	ARTHONIA.	ARTHONIA.		
	1 Swartziana	Swartzian	Bark of trees	2079.
522	SOLORINA.	SOLORINA.		
	1 crocea.....	saffron coloured.....	Alp. hea. !...	*489.
523	GYALECTA.	GYALECTA.		
	1 epulotica.....	reddish	On Stones ...	
524	LECIDEA. *	LECIDEA.		
	1 immersa	sunk	Calc. rocks	*193.

CLASS XXIV. CRYPTOGRAMIA.

ORDER VIII. ALGÆ.

SPECIFIC CHARACTER.

518. CONFERVA.

* *Simple.*

- 1 Glaucous green : flam. unbranched, shortish, clustered, acute : joints four times as broad as long.

** *Compound.*

- 2 Jointed, branched, rough ; branches alternate, doubly pinnate ; the ultimate ones tufted, scarlet : caps. solitary, ovate, red.
For 131 other species, see *Eng. Bot.* and for more, see *Dillwyn Conf.*

519. VAUCHERIA.

- 1 Caps. in pairs and solitary, sessile on each side of the anther.
For another species, see *Eng. Bot.* 1766.

ORDER IX. LICHENES.

520. SPILOMA.

- I Crust thin, continued, whitish, smooth, rather polished : recept. minute, convex, red.
For 12 other species, see *Eng. Bot.*

521. ARTHONIA.

- 1 Crust thin, membranous, scaly, cracked, cream-coloured : recept. black, depressed, roundish, wavy, rather uneven.
For other species, see *Eng. Bot.* 981, 1752, &c.

522. SOLORINA.

- I Frond lobed, greenish, beneath saffron-coloured, veiny : recept. rather tumid. *Lichen, Eng. Bot.*
For another species, see *Eng. Bot.* 238.

523. GYALECTA.

- 1 Crust pale-testaceous : recept. roundish confluent, shapeless, reddish : border entire. *Achar. Lichenog. univ.* 151. t. 1. f. 7.

524. LECIDEA.

* *Frond crustaceous, uniform.*

- I Recept. thickish, plano-concave, black, sunk in the hard whitish smooth crust. *Lichen, Eng. Bot.*

CLASS XXIV. CRYPTOGAMIA.

ORDER IX. LICHENES.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in English Botany.
	LECIDEA.	LECIDEA.		

	2 lurida	lurid	Rocky sha. pl.	*1329
525	GYROPHORA.	GYROPHORA.		
	1 cylindrica	cylindrical	Alpine rocks	*522.
526	CALICIUM.	CALICIUM.		
	1 curtum	short stalked.....	Dead wood	2503.
527	OPEGRAPHA.	OPEGRAPHA.		
	1 Persoonii	rock	Sto. & walls	2345.
528	GRAPHIS.	GRAPHIS.		
	1 betulina	birch bark	Birch trees...	*2281.
529	VERRUCARIA.	VERRUCARIA.		
	1 punctiformis	dot-shaped.....	Ash trees ...	*2412.
530	ENDOCARPON.	ENDOCARPON.		
	1 smaragdulum	emerald	Rocks	*1512.
531	PORINA.	PORINA.		
	1 pertusa	pierced	Trunks of tr.	*677.

CLASS XXIV. CRYPTOGRAMIA.

ORDER IX. LICHENES.

SPECIFIC CHARACTER.

LECIDEA.

*** *Fronde crustaceous, figured or leafy.*

- 2 Crust imbricated, greenish brown, with roundish crenate lobes, pale beneath: recept. flat, at length becoming convex, black. *Lichen, Eng. Bot.*

For several other species, see *Achar. Lichenog.* and *Eng. Bot.*

525. GYROPHORA.

- 1 Frond greenish gray, lobed, fringed with black hairs: recept. flattish. *Lichen proboscideus, Eng. Bot.*

For 3 other species, see *Achar. Lichenog.* and *Eng. Bot.*

526. CALICIUM.

- 1 Crust filmy, very thin, whitish: recept. black, with black, prominent, loose powder.

For 15 other species, see *Achar.* and *Eng. Bot.*

527. OPEGRAPHIA.

- 1 Crust leprous, indeterminate, whitish: recept. contorted, rugged.

For 14 other species, see *Achar.* and *Eng. Bot.*

528. GRAPHIS.

- 1 Crust thin, white, with a black border: recept. prominent. *Opegrapha, Eng. Bot.*

For 7 other species, see *Achar.* and *Eng. Bot.*

529. VERRUCARIA.

- 1 Crust very thin, determined, smooth, rusty brown: recept. minute, hemispherical. *Lichen, Eng. Bot.*

For other species, see *Achar.* and *Eng. Bot.*

530. ENDOCARPON.

- 1 Frond simple, depressed, peltate, roundish, smooth, greenish yellow. *Lichen, Eng. Bot.*

For other species, see *Achar.* and *Eng. Bot.*

531. PORINA.

- 1 Crust smooth, grayish white: recept. waxy, flesh-coloured, with black orifices. *Lichen, Eng. Bot.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER IX. LICHENES.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in English Botany.
532	THELOTREMA.	THELOTREMA.		
	1 lepadinum	covered	Trees	*678.
533	PYRENULA.	PYRENULA.		
	1 umbonata	knobbed.....	Stones .....	.....
534	VARIOLARIA.	VARIOLARIA.		
	1 communis	common.....	Trnks. of trees	*1713.
535	SAGEDIA.	SAGEDIA.		
	1 rufescens... ..	reddish	Sandstone ...	.....
536	URCEOLARIA.	URCEOLARIA.		
	1 Acharii	Acharian	Stones !.....	1087.
537	LECANORA.	LECANORA.		
	1 tartarea	cudbear	Scottish rocks	*156.
538	ROCCELLA.	ORCHALL.		
	1 tinctoria	dyer's.....	Mariti. rocks!	*211.
539	EVERNIA.	EVERNIA.		
	1 prunastri	ragged hoary.....	Trees.....	*859.
540	STICTA.	STICTA.		
	1 pulmonacea	lungwort	Trees.....	*572.

CLASS XXIV. CRYPTOGRAMIA.

ORDER IX. LICHENES.

SPECIFIC CHARACTER.

532. THELOTREMA.

- 1 Crust cream-coloured, polished : warts somewhat conical, within flesh-coloured, with a thin inflected edge. *Lichen inclusus*, Eng. Bot.
For another species, see Eng. Bot. 1184.

533. PYRENULA.

- 1 Crust thin, determinate : warts reddish. *Achar.*

534. VARIOLARIA.

- 1 Crust rugged, bordered, greyish : warts spherical unequal, scaly, very white. *Lichen fagineus*, Eng. Bot.
For 9 other species, see Eng. Bot.

535. SAGEDIA.

- 1 Crust reddish : recept. depressed, with a prominent blackish border. *Achar.*

536. URCEOLARIA.

- 1 Crust smooth, a little cracked, pale brick-coloured : shields reddish. *Lichen* Eng. Bot.
For other species, see Eng. Bot. 266, 820, 1732, 1954.

537. LECANORA.

- 1 Crust granulated, whitish : recept. flattish, yellow with an elevated white border which becomes zigzag. *Lichen*, Eng. Bot.
For other species, see *Achar.* and Eng. Bot.

538. ROCCELLA.

- 1 Shrubby, solid, cylind. glaucous, somewhat branched, rather erect : recept. scattered. *Lichen Roccella*, Eng. Bot.
For another species, see Eng. Bot. 728.

539. EVERNIA.

- 1 Frond greenish white, leafy, much branched, pitted and rugged, very white beneath : recept. with a bright brown disk. *Lichen*, Eng. Bot.

540. STICTA.

- 1 Frond olive-green, cellular, reticulated ; lobes laciniated, abrupt : recept. mostly marginal, bright chesnut. *Lichen*, Eng. Bot.
For other species, see Eng. Bot. 497, 1103, 1104, 2110.

CLASS XXIV. CRYPTOGRAMIA.

ORDER IX. LICHENES.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in English Botany.
541	PARMELIA. *	PARMELIA.		
	1 glomulifera.....	ball-bearing	Tru. of Trees	*293.

	2 omphalodes	purple rock	Alpine rocks.	*604.

	3 diatrypa	perforated	Alp. roc. & tr.	*1248.
542	BORRERA.	BORRERA.		
	1 ciliaris	great ciliated.....	Tr. & sto....	*1352.
543	CETRARIA.	CETRARIA.		
	1 islandicus	Iceland moss.....	M. hea. & wo.	*1330.
544	PELTIDEA.	PELTIDEA.		
	1 scutata	target-fruited	Trees.....	*1834.
545	NEPHROMA.	NEPHROMA.		
	1 parilis	chocolate	Stones	*2360.
546	CENOMYCE.	CENOMYCE.		
	I endivifolia	endive-leaved	Bar. heaths	*2361.

SPECIFIC CHARACTER.

541. PARMELIA.

* *Fronde orbicular, with broad and flat lobes.*

- 1 Frond leafy, glaucous green, bearing dark green tufted excrescences : recept. tawny. *Lichen. Eng. Bot.*

*** *Fronde stellated, with segments narrow flat or convex.*

- 2 Frond imbricated ; seg. many lobed, shining, purplish brown, black and shaggy beneath : recept. dark chesnut. *Lichen. Eng. Bot.*

*** *Fronde somewhat stellated, with linear segments, inflated at the points.*

- 3 Frond imbricated, depressed, greenish grey, black beneath : recept. reddish. *Lichen. Eng. Bot.*

For other species see *Achar.* and *Eng. Bot.*

542. BORRERA.

- 1 Frond leafy, ascending, greenish glaucous grey ; seg. linear, jagged, fringed : recept. elevated, brownish black. *Lichen. Eng. Bot.*

For 5 other species, see *Eng. Bot.* 984, 1033, 1351, 1715, 2548.

543. CETRARIA.

- 1 Frond ascending, channelled and fringed, greenish chesnut coloured : recept. dark chesnut. *Lichen. Eng. Bot.*

For 4 other species, see *Eng. Bot.* 1606, 1994, 2111, 2386.

544. PELTIDEA.

- 1 Frond spreading, brownish grey, beneath pale, veiny : lobes oblong, with crisped & powdery edges : recept. dark brown. *Lichen. E.B.*

For 5 other species, see *Eng. Bot.* 333, 1113, 1542, 2299, 2300.

545. NEPHROMA.

- 1 Frond ereeping, lobed, wavy, greenish or purplish brown, beneath blackish : recept. brown. *Lichen. Eng. Bot.*

For another species, see *Eng. Bot.* 305.

546. CENOMYCE.

- 1 Frond spreading, deeply lobed ; seg. forked and pinnatifid, flattish, yellowish green above, white beneath : recept. simple, reddish brown. *Lichen. Eng. Bot.*

For other species, see *Achar.* and *Eng. Bot.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER IX. LICHENES.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in English Botany.
547	BAEOMYCES.	BAEOMYCES.		
	1 roseus	pink	M. heaths...	*374.
548	ISIDIUM.	ISIDIUM.		
	1 corallinum	white coral crusted ...	Sto. & rocks	*1541.
549	STEREOCAULON.	STEREOCAULON.		
	1 paschale	crisp	Mic. rocks...	*232.
550	SPHÆROPHORON.	GLOBE-LICHEN.		
	1 coralloides	coral	M. roc. hea.	*115.
551	ALECTORIA.	ALECTORIA.		
	1 jubata	rock hair	Rocks & trees	*1880.
552	RAMALINA.	RAMALINA.		
	1 fraxinea	ash	Old trees ...	*1731.
553	COLLEMA.	COLLEMA.		
	1 nigrum	inky	Calc. rocks...	*1161.
	2 tenax	tenacious	Moi. alp. pl.	2349.
	3 palmatum	palmate	Sandy ground	*1635.
	4 Burgessii	crowned.....	Trees	*300.

SPECIFIC CHARACTER.

547. BAEOMYCES.

- 1 Crust uniform, warty, whitish, with short cylind. stalks: recept. flesh-coloured. *Lichen Baeomyces. Eng. Bot.*

548. ISIDIUM.

- 1 Crust tartareous, whitish, papillary, uneven, with a leafy grey margin; internally fibrous and branched: recept. brownish. *Lichen. Eng. Bot.*
For 3 other species, see *Eng. Bot.* 1511, 1833, 2204.

549. STEREOCAULON.

- 1 Frond greenish grey, with numerous crowded branches: recept. scattered, terminal, dark brown. *Lichen. Eng. Bot.*

550. SPHÆROPHORON.

- 1 Frond yellowish grey; branches cylind. elongated, divaricating: recept. smooth. *Lichen globiferous. Eng. Bot.*
For 2 other species, see *Eng. Bot.* 114, 2474.

551. ALECTORIA.

- 1 Frond filamentous, smooth, very much branched; branches filiform, compressed at their divarications, pendulous or in tufts: recept. dark, with an entire border. *Lichen. Eng. Bot.*
For another species, see *Eng. Bot.* 2040.

552. RAMALINA.

- 1 Frond leafy, tufted, smooth, greyish white; seg. lanceolate acute: recept. scattered, pale. *Lichen. Eng. Bot.*
For 4 other species, see *Eng. Bot.* 688, 889, 890, 1607.

553. COLLEMA.

- 1 Crust black, composed of minute imbricated lobes: recept. very black, at first bordered, then convex. *Lichen. Eng. Bot.*
2 Frond imbricated, rather glaucous, fleshy; lobes obtuse, somewhat palmate: recept. depressed, dilated, reddish.
3 Frond imbricated, tufted, greenish brown with distinct thick turgid lobes, somewhat palmate: recept. reddish. *Lichen. Eng. Bot.*
4 Frond leafy, green, somewhat imbricated, with round sinuated curled lobes, woolly beneath: recept. brown, flattish, with a curled border. *Lichen. Eng. Bot.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER IX. LICHENES.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of Growth.	Figure in English Botany.
	COLLEMA.	COLLEMA.		
	5 nigrescens	bat's-wing	Moi.roe. & tr.	*345.
	6 lacerum	jagged	Mosses	*1982.
	7 Schraderi.....	Schraderian	Old walls ...	2284.
554	CORNICULARIA.	CORNICULARIA.		
	1 tristis	dark radiated	Alpine rocks	*720.
555	USNEA.	USNEA.		
	1 florida.....	flowery	Trees.....	*872.
556	LEPRARIA.	LEPRARIA.		
	1 flava	yellow	Trees.....	1350.
ORDER X. FUNGI.				
557	SPHÆRIA.	SPHÆRIA.		Figure in Sowerby's English Fungi.
	1 hypoxylon	horned black	Rotten posts	55.
	2 concentrica.....	concentric black	Ash stumps	*160.
	3 poronia	dotted cup	Horse dung	*54.
	4 acuta	sharp mouthed	Nettle stalks	119.
558	HYSTERIUM.	HYSTERIUM.		
	1 Fraxini	ash	Br. of Ash,&c	*315.

CLASS XXIV. CRYPTOGRAMIA.

ORDER XI. LICHENES.

SPECIFIC CHARACTER.

COLLEMA.

- 5 Frond leafy, with broad membranous, blistered, round lobes, dull green : recept. clustered, reddish brown. *Lichen. Eng. Bot.*
- 6 Frond leafy, membranous, very thin, blueish brown ; lobes dilated, finely jagged and fringed : recept. scattered, concave, red, with a pale border. *Lichen. Eng. Bot.*
- 7 Frond somewhat fleshy, tufted, erect, finely branched in a forked manner, rugose : recept. lateral, reddish, with a pale border.
For 17 other species, see *Eng. Bot.*

554. CORNICULARIA.

- 1 Frond somewhat compressed, smooth, blackish ; branches acute : recept. blackish, flattish, radiated. *Lichen. Eng. Bot.*
For 5 other species, see *Eng. Bot.* 452, 846, 1853, 2318, 2374.

555. USNEA.

- 1 Frond much branched, erect, greenish grey ; branches spreading, simple : recept. very broad, radiated. *Lichen. Eng. Bot.*
For 3 other species, see *Eng. Bot.* 257, 258, 1354.

556. LEPRARIA.

- 1 Crust and fructification of an uniform bright yellow.
For 10 other species, see *Eng. Bot.*

ORDER X. FUNGI.

557. SPHERIA.

- 1 Clustered, branched, compressed, black and hairy below.
- 2 Stemless, roundish, tumid, firm, smooth, with internal concentric layers. *S. fraxinea*, Sow. *Eng. Fung.*
- 3 Stalked, cup-shaped, shallow, white in the disk, with black scattered sunk capsules. *S. punctata*, Sow. *Eng. Fung.*
- 4 Scattered, naked, black, shining, depressed, with a cylind. sharp beak.
For many other species, see *Sowerby's Eng. Fung.* and *Persoon's Synops. Fung.*

558. HYSTERIUM.

- 1 Black, ovate, bursting with tumid lips. *Sphæria sulcata*. Sow. *Eng. Fung.*
For other species, see *Pers. Syn. Fung.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in Sowerby's English Fungi.
559	XYLOMA.	XYLOMA.		
	I pezizoides	crowded.....	Leaves of oak and beech	*118.
560	NEMASPORA.	NEMASPORA.		
	1 chrysosperma.....	golden bearded	Br. of poplar	*137.
561	TUBERCULARIA.	TUBERCULARIA.		
	I vulgaris	scarlet	Dead branch.	*294 ?
562	SPHÆROBOLUS.	PROJECTILE PUFF-BALL.		
	1 stellatus	starry	Rotten wood	*22.
563	PILOBOLUS.	PILOBOLUS.		
	1 crystallinus.....	crystalline	Horse dung	*300.
564	SCLEROTIUM.	SCLEROTIUM.		
	1 Semen.....	cabbage	Rotten cab.&c	*393, f. 2
565	TUBER.	TRUFFLE.		
	1 cibarium	common	Under ground	309.
566	BATARREA.	BATARREA.		
	1 phalloides	phallus-like	Sandy ground	*390.
567	GEASTRUM.	GEASTRUM.		
	1 coliforme.....	cullender	Norfolk. & Suffk.	*313.
568	BOVISTA.	BOVISTA.		
	I nigrescens	globular.....	Fields.....	.....

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

SPECIFIC CHARACTER.

559. XYLOMA.

- 1 Crowded, orbicular, black, at length open, with an erect crenate border, and a pale disk. *Peziza comitalis*, Sowerby Eng. Fung.

560. NAEMASPORA.

- 1 Somewhat conical, truncated, with yellow cirri. *Sphaeria cirrhata*, Sow. Eng. Fung.

561. TUBERCULARIA.

- 1 Aggregate, bright red, corrugated, with a thick pale base. *Clavaria coccinea*? Sow. Eng. Fung.
For other species, see Pers. Syn. Fung.

562. SPHAEROBOLUS.

- 1 *Lycoperdon carpobolus*. Sow. Eng. Fung.

563. PILOBOLUS.

- 1 Recept. obovate, with a black hemispherical vesicle. *Mucor urceolatus*, Sow. Eng. Fung.

564. SCLEROTIUM.

- 1 Clustered, spherical, blackish-brown, finally wrinkled, internally white. *Sphaeria Brassicae*, Sow. Eng. Fung.

565. TUBER.

- 1 Blackish, rough, with prominent warts.
For 2 other species, see Sow. Eng. Fung. 310, 426.

566. BATARREA.

- 1 *Lycoperdon phalloides*. Sow. Eng. Fung.

567. GEASTRUM.

- 1 Wrapper many cleft, with numerous pedunc. and orifices. *Lycoperdon*. Sow. Eng. Fung.
For 2 other species, see Sow. Eng. Fung. 198 and 401.

568. BOVISTA.

- 1 White changing to black, plaited beneath. *Lycoperdon Bovista*, Sow. Eng. Fung.

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in Sowerby's English Fungi.
569	TULOSTOMA.	STALKED PUFF-BALL.		
	I brumale	common	On walls.....	*406.
570	LYCOPERDON.	PUFF-BALL.		
	I giganteum	gigantic	Upland pastures	332.
571	SCLERODERMA.	SCLERODERMA.		
	1 cervinum.....	tawney	Firwoods, un- der ground ...	*269.
572	LYCOGALA.	LYCOGALA.		
	1 miniata	scarlet	Trees, after rain	*52.
573	FULIGO.	FULIGO.		
	1 flava	yellow	Trunk of poplars	*399, f. 2.
574	SPUMARIA.	SPUMARIA.		
	1 mucilago.....	white	Leav. bran. &c.	*280.
575	DIDERMA.	DIDERMA.		
	1 vernicosum.....	fragile	Leav. moss. &c.	*136.
576	PHYSARUM.	PHYSARUM.		
	1 bivalve	two valved.....	Mosses, dead leaves, &c. ...	*6.
577	TRICHIA.	TRICHIA.		
	1 turbinata.....	turbinated	Rotten wood, &c.	85.

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

SPECIFIC CHARACTER.

569. TULOSTOMA.

- 1 Stalk nearly smooth, solid: orifice flattish. *Lycoperdon pedunculatum*.
Sow. Eng. Fung.

570. LYCOPERDON.

- 1 Nearly stemless, globular, very large, pale coloured, with nearly obsolete scattered scales. *Lyc. proteus*, Sow. Eng. Fung.
For several other species, see Sow. Eng. Fung.

571. SCLERODERMA.

- 1 Subterraneous, round, oblong, hard, granulated, stemless. *Lycoperdon*, Sow. Eng. Fung.
For 3 other species, see Pers. Syn. Fung. and Sow. Eng. Fung.

572. LYCOGALA.

- 1 Aggregate, globose, at first scarlet, then brown, with rose-coloured powder. *Lycoperdon epidendrum*, Sow. Eng. Fung.
For another species, see Eng. Fung. 272.

573. FULIGO.

- 1 Spreading and roundish, yellow, with a cellular-fibrous coat. *Reticularia lutea*, Sow. Eng. Fung.

574. SPUMARIA.

- 1 Large, white, with the recept. internally branched into horns. *Reticularia alba*, Sow. Eng. Fung.

575. DIDERMA.

- 1 Clustered, ovate, reddish, shining, with a short lax whitish stalk. *Lycoperdon fragile*, Sow. Eng. Fung.

576. PHYSARUM.

- 1 Compressed, waved, whitish, elongated, bursting at one side. *Reticularia sinuosa*, Sow. Eng. Fung.

577. TRICHIA.

- 1 Crowded, sessile, obovate, of an ochrey tan colour.
For other species, see Sow. Eng. Fung.

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in Sowerby's English Fungi.
578	ARCYRIA.	ARCYRIA.		
	1 flava	yellow	Trunks of trees	*260.
579	STEMONITIS.	STEMONITIS.		
	1 fasciculata	naked.....	Rotten wood ...	*50.
580	LICEA.	LICEA.		
	1 circumcissa.....	sessile	Under bark of Aspen	*258.
581	MUCOR.	MOULD.		
	1 mucedo	common	Decaying food, fruits, &c. ...	378, 5, 6, 7
582	ONYGENA.	ONYGENA.		
	1 equina.....	horse-hoof.....	Old hoofs & horns	*292.
583	AECIDIUM.	AECIDIUM.		
	1 Rumicis	dock	Lea. of docks, &c.	405.
584	URED0.	BLIGHT.		
	1 Frumenti	corn	Growing corn...	140.
585	PUCCINIA.	PUCCINIA.		
	1 Anemones	brown	Leaves of Anem.	*53.
586	TRICHODERMA.	TRICHODERMA.		
	1 roseum	rosy	Rotten branches	*360, 6. 3.

SPECIFIC CHARACTER.

578. ARCYRIA.

- 1 Yellow : stem very short : recept. very long, reclining. *Trichia nutans*, Sow. Eng. Fung.
For another species, see Sow. Eng. Fung. 49.

579. STEMONITIS.

- 1 At first white, and then rusty brown : stem hair-like : recept. egg shaped : coat entirely evanescent. *Trichia nuda*, Sow. Eng. Fung.

580. LICEA.

- 1 Aggregate, changing from yellow to dark brown : recept. cut round. *Sphærocarpus sessilis*, Sow. Eng. Fung.

581. MUCOR.

- 1 Stalks simple, crowded : heads blackish.
For other species, see Sow. Eng. Fung.

582. ONYGENA.

- 1 Aggregate, whitish : head globular, rugose, somewhat scurfy. *Lycoperdon*, Sow. Eng. Fung.

583. AECIDIUM.

- 1 Crowded, orbicular, red, with white powder.
For other species, see Sow. Eng. Fung.

584. UREDO.

- 1 Linear, rather club-shaped, changing from yellow to a dark brown, bursting out of the corn stems in long patches. See Sir Jos. Banks on Corn Blight.
For other species, see Pers. and Sow. Eng. Fung.

585. PUCCINIA.

- 1 Scattered, somewhat parallel, brown, staining. *Aecidium fuscum*, Sow. Eng. Fung.

586. TRICHODERMA.

- 1 Rose-coloured, with a fine depressed filamentous border. *Farinaria*, Sow. Eng. Fung.
For 2 other species, see Sow. Eng. Fung. 360, fig. 1, 2.

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in Sowerby's English Fungi.
587	CYATHUS.	CYATHUS.		
	1 striatus	hairy	Wo. fields, &c.	*29.
588	PHALLUS.	STINK-HORN.		
	1 foetidus	common	Shady woods ...	329.
589	AMANITA.	AMANITA.		
	1 virgata	striped	Bark in hot-hou.	*1.
	2 muscaria	fly poisonous	Fir woods, &c.	*286.
590	AGARICUS.	AGARIC.		
	1 procerus	tall	Fir & birch wo.	190.
	2 violaceus	purple or bluets	Borders of wo.	209.
	3 cinnamomeus	cinnamon	Woods	205.
	4 pratensis	champignon	Pastures, in fairy rings	247.
	5 virosus	poisonous toad stool...	Pastures..... {	*248. 407. 408.
	6 Georgii	St. George's	Woods & past.	304.
	7 campestris	common mushroom ...	Old pastures ...	305.
	8 deliciosus	delicious	Fir plantations	202.

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

SPECIFIC CHARACTER.

587. CYATHUS.

- 1 Hairy, brown, internally striated. *Nidularia*, Sow. *Eng. Fung.*
For 2 other species, see Sow. *Eng. Fung.* 26, 30.

588. PHALLUS.

- 1 Stalk with numerous perforations, somewhat oblique: head honey-combed, pervious.
For another species, see Sow. *Eng. Fung.* 330.

589. AMANITA.

- 1 Pileus bell-shaped, conical, hairy, striped with gray and black: gills red-brown: stem white. *Agaricus volvaceus*, Sow. *Eng. Fung.*
2 Pileus brownish or reddish, convex; often with white, yellow or red warts: gills white, short ones solitary: stem scaly: ring broad, turned down. *Agaricus*, Sow. *Eng. Fung.* A VERY POISONOUS FUNGUS.
For other species, see *Pers. Syn. Fung.*

590. AGARICUS.

- 1 Large: pileus fleshy, bossed, scaly, reddish gray: gills remote, white, fixed to a collar: stem very long, bulbous: ring loose.
2 Pileus fleshy, convex, reddish brown, with the edge turned down: gills purple, as well as the stem, which is thick, and somewhat tuberous. *Eatable, but not good.*
3 Pileus somewhat fleshy, bossed, smooth, rich cinnamon coloured: gills rather broad, of a cinnamon colour: stem longish, yellow. *Eatable.*
4 Pale brown, hardish: pileus bell-shaped, or obtusely bossed, smooth: gills more pale, rather thick, distant, decurrent: stem short, slender, thickening upwards, without a ring. *Eatable.*
5 Pileus fleshy, hemispherical, greenish yellow: gills broad, gray, mottled: stem long, hollow, generally with a ring, pale-buff. See also *A. semiglobatus*, Sow. VIRULENT POISON.
6 Pileus yellow, convex, hollow in the centre: gills brown: stem yellow, thickish, smooth: juice yellow. *Eatable, but not good.*
7 Pileus fleshy, flattish, coloured from white to brown, somewhat scaly: gills reddish brown: stem white, short, cylindrical: ring incomplete or tumid. *Eatable.*
8 Pileus rich red brown; flesh orange colour: gills flame-coloured, narrow, regularly branched: stem orange, tapering downwards. *Eatable.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in Sowerby's English Fungi.
	AGARICUS.	AGARIC.		
	9 aluens	alder	Trunks of alder	183.
591	MERULIUS.	CHANTERELLE.		
	I cantharellus	common	Fir woods	*46.
	2 destruens	dry-rot	Timber in buildg.	*113.
592	DAEDALEA.	DAEDALEA.		
	1 quercina	oak.....	Old pales, &c.	*181.
593	BOLETUS.	BOLETUS.		
	I edulis	eatable	Fir woods	111.
	2 hepaticus	liver-shaped	Roots of Oaks	58.
	3 medulla-panis.....	bread-like	Old wood, posts, cellars, &c....	326.
594	SISTOTREMA.	SISTOTREMA.		
	1 confluens.....	confluent	Ground under tr.	*112.
595	HYDNUM.	HYDNUM.		
	I imbricatum	scaly	Fir woods	73.

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

SPECIFIC CHARACTER.

AGARICUS.

- 9 Stemless, coriaceous, velvety, whitish grey : gills brown buff, in pairs. For above 120 other species, see *Sow. Eng. Fung.* : but as many of them are extremely poisonous, and as it is often difficult to distinguish such as are so from such as are not, the greatest caution is required in gathering them. *A. virosus* has often been fatally mistaken for *A. pratensis*.

591. MERULIUS.

- 1 Clustered, all deep yellow : pileus fleshy, smooth, depressed. *Agaricus*, *Sow. Eng. Fung.* *Eatable*.
 2 Spreading, indeterminate, yellowish red, with a white downy edge, and reticulated plaits. *Boletus lachrymans*, *Sow. Eng. Fung.*
 For other species, see *Pers. Syn.* and *Sow. Eng. Fung.*

592. DAEDALEA.

- 1 Coriaceous, brown : pileus soft and clothly, marked with concentric circles of various hues : gills brown, waved. *Agaricus*, *Sow. Eng. Fung.*
 For other species, see *Sow. Eng. Fung.* 193, 194.

593. BOLETUS.

- 1 Pileus brown, very broad : flesh white : tubes at first whitish, and then greenish yellow : stem tuberous, somewhat ventricose, light brownish yellow.
 2 Fleshy, blood coloured, semi-circular : tubes separate, very slender, yellowish. *Eatable*.
 3 White, spreading, flat, crustaceous : pores on the upper surface ; tubes slanting.
 For about 40 other species, see *Pers. Syn.* and *Sow. Eng. Fung.*

594. SISTOTREMA.

- 1 Clustered, white : pileus fleshy, waved, confluent, with whitish decurrent teeth. *Hydnum sublanellosum*, *Sow. Eng. Fung.*

595. HYDNUM.

- 1 Pileus fleshy, unilobed, red-brown, with darker scales : prickles whitish : stem smooth, pale flesh colour. *Eatable*.
 For 6 other species, see *Sow. Eng. Fung.*

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in Sowerby's English Fungi.
596	THELEPHORA.	THELEPHORA.		
	1 ferruginea	rusty	Decayed branch.	*25.
597	MERISMA.	MERISMA.		
	1 cristatum	crested	Ground in woods	*158.
598	CLAVARIA.	CLAVARIA.		
	1 tuberosa	tuberos.....	Under bark of br.	199.
599	GEOGLOSSUM.	GEOGLOSSUM.		
	1 hirsutum.....	hairy	Moist woods, &c	*83.
600	SPATHULARIA.	SPATHULARIA.		
	1 flavida.....	yellow	Pine groves ...	*35.
601	LEOTIA.	LEOTIA.		
	1 mitrula	little mitre.....	Fir leaves	*84.
602	HELVELLA.	HELVELLA.		
	1 leucophœa	variable	Ground in woods	*39.
603	MORCHELLA.	MOREL.		
	1 esculenta.....	common	Woods & hedges	*51.
604	TREMELLA.	TREMELLA.		
	1 mesenterica	plaited yellow	Dead branches	

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

SPECIFIC CHARACTER.

596. THELEPHORA.

- 1 Spreading, reflexed, rust-coloured: pileus thin, smooth, soft, hairy below. *Auricularia tabacina*, Sow. *Eng. Fung.*
For other species, see *Pers. Syn.* and *Sow. Eng. Fung.*

597. MERISMA.

- 1 Flat, thin, pale, encrusting mosses and other bodies: branches jagged, thickened, rugose. *Clavaria laciniata*, Sow. *Eng. Fung.*
For another species, see *Sow. Eng. Fung.* 156.

598. CLAVARIA.

- 1 Yellowish, simple, tuberous at the base.
For other species, see *Sow. Eng. Fung.*

599. GEOGLOSSUM.

- 1 Clustered, hairy, black. *Clavaria ophioglossoides*, Sow. *Eng. Fung.*

600. SPATHULARIA.

- 1 *Helvella spatulata*, Sow. *Eng. Fung.*

601. LEOTIA.

- 1 Clustered, minute: pileus conical, brownish. *Clavaria ferruginca*, Sow. *Eng. Fung.*
For 2 other species, see *Sow. Eng. Fung.* 11, 293.

602. HELVELLA.

- 1 Pileus thin, crisp, pale white: stem grooved, semi pellucid, swelling at the base. *H. mitra*, Sow. *Eng. Fung.*
For other species, see *Sow. Eng. Fung.*

603. MORCHELLA.

- 1 Pileus contracted at the base, yellowish: stem naked, wrinkled. *Helvella*, Sow. *Eng. Fung.*
For another species, see *Sow. Eng. Fung.* 233.

604. TREMELLA.

- 1 Sessile, clustered, plaited, lobed, waved, orange-coloured. *Eng. Bot.* 709.
For other species, see *Pers. Syn.* and *Eng. Bot.*

CLASS XXIV. CRYPTOGAMIA.

ORDER X. FUNGI.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in Sowerby's English Fungi.
605	PEZIZA.	PEZIZA.		
	I cinerea	grey	Decayed trunks &c.	64.
606	ASCOBOLUS.	ASCOBOLUS.		
	I furfuraceus	scurfy.....	Cow-dung in { fields	*18. 339, f. 3, 6.
607	HELOTIUM.	HELOTIUM.		
	I aciculare	pin-shaped.....	Roots of trees...	*57.
608	PERICONIA.	PERICONIA.		
	1 byssoides	byssus-like	Stems of plants	
609	ISARIA.	ISARIA.		
	I truncata	truncated	Dead larvæ of insects	
610	MONILIA.	MONILIA.		
	1 glauca	glaucous	Putrid fruits ...	*378, f. 9.
611	DEMATIUM.	DEMATIUM.		
	1 violaceum	violet	Rotting wood...	
612	ERINEUM.	ERINEUM.		
	I acerinum.....	maple.....	Fallen maple leaves	*378, f. 10.
613	RACODIUM.	RACODIUM.		
	1 cellare.....	cellar	Damp vaults ...	
	2 Xylostroma	Oak-leather	Oak trees, ships &c.	*356.

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

SPECIFIC CHARACTER.

605. PEZIZA.

- 1 Clustered, small, grey or pale, reflected: border curled, paler.
For other species, see *Sow. Eng. Fung.*

606. ASCOBOLUS.

- 1 Clustered, somewhat concave, olive brown, externally scurfy. *Peziza stercoraria*, *Sow. Eng. Fung.*

607. HELOTIUM.

- 1 Minute, in clusters, white: head at first rather excavated. *Helvella agariciformis*, *Sow. Eng. Fung.*

608. PERICONIA.

- 1 Stem blackish: head reddish, deciduous. *Pers. Syn. Fung.*

609. ISARIA.

- 1 Much branched; branches truncated and crenulated. *Pers. Syn. Fung.*

610. MONILIA.

- 1 Stalked, clustered, glaucous grey. *Mucor*, *Sow. Eng. Fung.*
For another species, see *Sow. Eng. Fung.* 376, f. 11.

611. DEMATIUM.

- 1 Small, downy, violet-coloured. *Byssus phosphorea*, *Linn.*
For other species, see *Pers. Syn. Fung.*

612. ERINEUM.

- 1 Depressed, broad, reddish brown, at first pale. *Mucor ferrugineus*,
Sow. Eng. Fung.

613. RACODIUM.

- 1 Much expanded, very soft, black. *Byssus septica*, *Linn.*
2 Very broad, soft, yellowish brown. *Xylostroma giganteum*, *Sow. Eng. Fung.*
Another species, *Byssus æruginosa*, *Huds. Flor. Angl.?*

CLASS XXIV. CRYPTOGRAMIA.

ORDER X. FUNGI.

	LINNEAN NAMES.	ENGLISH NAMES.	Situation or place of growth.	Figure in Sowerby's English Fungi.
614	HIMANTIA.	HIMANTIA.		
	1 candida	white	Fallen leaves...	.....
615	RHIZOMORPHA.	RHIZOMORPHA.		
	1 subcorticalis	fragile	Trunks of trees	*100.
616	MESENERICA.	MESENERICA.		
	1 argentea	white	Old rafters, &c.	.....

CLASS XXIV. CRYPTOGAMIA.

ORDER X. FUNGI.

SPECIFIC CHARACTER.

614. HIMANTIA.

- 1 Tender, white, somewhat feathery and dilated at the points. *Byssus candida*, *Huds. Flor. Angl.*
For another species, see *Sow. Eng. Fung.* 387, f. 4.

615. RHIZOMORPHA.

- 1 Compressed, branched, blackish, between the bark and the wood.
R. phosphorea, *Sow. Eng. Fung.*
For 9 other species, see *Sow. Eng. Fung.*

616. MESENERICA.

- 1 Very broad, white, with a woolly tumid border. *Pers. Lyn. Fung.*

ALTERATIONS AND ADDITIONS.

CLASS III. TRIANDRIA.

ORDER I. MONOGYNIA.

Gen. 18. TRICHONEMA. *Ker in Annals of Bot.*

Sheath 2-valved. *Cor.* equal, regular, with a very short tube. *Filam.* downy. *Stig.* 3-cleft.

Spec. 1. Trich. Bulbocodium. *Ixiu Bulbocodium.* of page 4, and of *Eng. Bot.* 2549.

CLASS V. PENTANDRIA.

ORDER I. MONOGYNIA.

Gen. 88. MENYANTHES. *Linn.*

Cal. 5-toothed. *Cor.* funnel-shaped, 5-cleft; segments acute, covered with long shaggy fibres on the upper disk, and simple at the edges. *Style* exserted. *Stig.* 2-lobed, notched. *Caps.* round, 1-celled, many-seeded. *Leaves* ternate.

Spec. 1. Men. trifoliata. page 18.

Gen. 88.* VILLARSIA. *Ventenat. Brown.*

Cal. 5-cleft. *Cor.* wheel-shaped, 5-cleft; segments plane in the disk, bearded or scaly at the base, and generally fringed at the edges. *Style* very short. *Stig.* 2-lobed, notched. *Caps.* many seeded, 1-celled. 2-valved, with the edges of the valves thickened. *Leaves* simple

Spec. 1. Vil. nymphæoides. Common Villarsia.

Menyanthes. nymphæoides of page 18, and of *Eng. Bot.* 217.

CLASS VI. HEXANDRIA.

ORDER I. MONOGYNIA.

Gen. 173.-174. LILIUM. *Linn.*

Cor. inferior 6-pet, bell-shaped, with a nectariferous longitudinal line. *Caps.* oblong, 3-sided, with the valves joined by reticulated hairs.

Spec. 1. L. Martagon. § Turk's-cap Lily.

Leaves whorled, ovate-lanceolate: fl. reflexed, with the pet. turned back. *Bot. Mag.* 893 and 1634.

Colour varying from whitish purple to white. Flowers in June and July.

Found in shady places on the chalk hills near Dorking and Godstone, in Surrey, apparently indigenous.

INDEX TO THE GENERA.

N. B.—The names in *Italics* are *Synonyms*.

A.	Genus.	Class.	Ord.	Page.	Genus.	Class.	Ord.	Page.
Acer.....	203	VIII	I	37	Asarum.....	230	XI	I 46
Aceras.....	406	XX	I	86	Ascobolus.....	606	XXIV	X 123
Achillea.....	402	XIX	II	84	Asparagus.....	181	VI	I 31
Acorus.....	183	VI	I	32	Asperugo.....	83	V	I 17
Actæa.....	250	XIII	I	53	Asperula.....	58	IV	I 13
Adiantum.....	468	XXIV	IV	103	Aspidium.....	463	XXIV	IV 102
Adonis.....	265	XIII	VII	55	Asplenium.....	464	XXIV	IV 103
Adoxa.....	206	VIII	IV	38	Aster.....	392	XIX	II 82
Aecidium.....	583	XXIV	X	119	Astragalus.....	355	XVII	IV 72
Aegopodium.....	158	V	II	27	Athamanta.....	136	V	II 25
Aethusa.....	148	V	II	26	Atriplex.....	456	XXIII	I 100
Agaricus.....	590	XXIV	X	120	Atropa.....	104	V	I 20
Agrimonia.....	232	XI	II	46	Avena.....	41	III	II 11
Agrostemma.....	226	X	IV	44	<i>Auricularia</i>	—	XXIV	X 122
Agrostis.....	32	III	II	7	Azalea	92	V	I 19
Aira.....	33	III	II	7				
Ajuga.....	271	XIV	I	57				
Alchemilla.....	68	IV	I	15	B.			
<i>Alyconidium</i> ..	—	XXIV	VIII	110	Baeomyces.....	547	XXIV	IX 115
Alectoris.....	551	XXIV	IX	115	Ballota.....	282	XIV	I 59
Alisma.....	194	VI	V	34	Barbarea.....	325	XV	II 65
Allium.....	173	VI	I	30	Bartramia.....	504	XXIV	VI 107
Alnus.....	424	XXI	IV	92	Bartsia.....	292	XIV	II 60
Alopecurus.....	28	III	II	6	Batarrea.....	566	XXIV	X 117
Althæa.....	337	XVI	VIII	68	Bellis.....	397	XIX	II 83
Alyssum	309	XV	I	63	Berberis.....	186	VI	I 33
Amanita.....	589	XXIV	X	120	Beta.....	119	V	II 23
Amaranthus.....	428	XXI	V	93	Betonica.....	280	XIV	I 58
Anagallis.....	91	V	I	18	Betula.....	438	XXI	VII 94
Anchusa.....	78	V	I	17	<i>Betula</i>	—	XXI	IV 92
Andræa.....	475	XXIV	VI	104	Bidens.....	380	XIX	I 80
Andromeda.....	210	X	I	40	Blasia.....	509	XXIV	VII 108
Anemone.....	262	XIII	VII	55	Blechnum.....	467	XXIV	IV 103
Anethum.....	154	V	II	27	Boletus	593	XXIV	X 121
Angelica.....	141	V	II	25	Borago.....	82	V	I 17
Anictangium.....	479	XXIV	VI	106	Borrera.....	542	XXIV	IX 114
Anomodon.....	500	XXIV	VI	107	Botrychium ..	460	XXIV	II 101
Antennaria.....	387	XIX	II	81	Bovista.....	568	XXIV	X 117
Anthemis.....	401	XIX	II	83	Brassica.....	332	XV	II 66
Anthericum.....	179	VI	I	31	<i>Brassica</i>	—	XV	II 65
Anthoceros.....	514	XXIV	VII	108	Briza.....	38	III	II 9
Anthoxanthum.....	15	II	II	3	Bromus.....	42	III	II 10
Anthyllis.....	346	XVII	IV	71	Bryonia.....	429	XXI	V 93
Antirrhinum.....	299	XIV	II	61	Bryum.....	507	XXIV	VI 108
Apargia.....	368	XIX	I	77	<i>Bryum</i>	—	XXIV	VI 106
Apium.....	157	V	II	27	Buffonia.....	69	IV	II 15
Aquilegia.....	260	XIII	V	54	<i>Bunias</i>	—	XV	I 64
Arabis.....	330	XV	II	66	Bunium.....	133	V	II 25
Arbutus.....	211	X	I	40	Bupleurum ..	128	V	II 24
Arctium.....	374	XIX	I	78	Butomus.....	208	IX	III 39
Arcyria.....	578	XXIV	X	119	Buxbaumia.....	503	XXIV	VI 107
Arenaria.....	221	X	III	43	<i>Buxbaumia</i>	—	XXIV	VI 105
Aristolochia.....	416	XX	III	88	Buxus.....	425	XXI	IV 93
Artemisia.....	385	XIX	II	80	<i>Byssus</i>	—	XXIV	X { 123
Arthonia.....	521	XXIV	IX	111				124
Arum.....	433	XXI	VII	93	C.			
Arundo.....	46	III	II	11	Cakile.....	319	XV	I 64
					Calicium.....	526	XXIV	IX 112

INDEX TO THE GENERA.

<i>Genus.</i>	<i>Class.</i>	<i>Ord.</i>	<i>Page.</i>	<i>Genus.</i>	<i>Class.</i>	<i>Ord.</i>	<i>Page.</i>		
Callitriche.....	5	I	11	1	Corylus.....	440	XXI	VII	94
Caltha.....	270	XIII	VII	56	Cotyledon.....	223	X	IV	43
Camelina.....	310	XV	I	63	Crambe.....	320	XV	I	64
Campanula.....	95	V	I	19	Cratægus..	237	XII	11	48
Cardamine.....	322	XV	11	65	Crepis.....	370	XIX	I	78
Cardamine.....	—	XV	11	66	Crithmum.....	138	V	11	25
Carduus.....	376	XIX	I	79	Crocus.....	17	III	I	4
Carex.....	420	XXI	111	89	Cucubalus.....	218	X	111	42
Carlina.....	379	XIX	I	79	Cuscuta.....	122	V	11	23
Carpinus.....	439	XXI	VII	94	Cyathea.....	469	XXIV	IV	103
Carum.....	155	V	11	27	Cyathus.....	587	XXIV	X	120
Castanea.....	437	XXI	VII	91	Cyclamen.....	87	V	I	18
Caucalis.....	131	V	11	24	Cynoglossum..	79	V	I	17
Cenomyce.....	546	XXIV	IX	114	Cynosurus.....	40	III	11	9
Centaurea.....	403	XIX	111	84	Cyperus.....	21	III	I	4
Centunculus.....	63	IV	I	14	Cypripedium..	415	XX	11	88
Cerastium.....	228	X	IV	45					
Ceratophyllum.....	439	XXI	VII	93	D				
Cetraria.....	543	XXIV	IX	114	Dactylis.....	39	III	11	9
Chærophyllyum.....	150	V	11	27	Daedalea.....	592	XXIV	X	121
Chara.....	3	I	I	1	Daltonia.....	501	XXIV	VI	107
Cheiranthus.....	327	XV	11	66	Daphne.....	202	VIII	I	37
Chelidonium.....	251	XIII	I	53	Datura.....	102	V	I	20
Chenopodium.....	118	V	11	22	Daucus.....	132	V	11	25
Cherleria.....	222	X	III	43	Delesseria.....	—	XXIV	VIII	109
Chironia.....	106	V	I	21	Delphinium.....	259	XIII	111	54
Chlora.....	198	VIII	I	36	Dematium.....	611	XXIV	X	123
Chondrus.....	—	XXIV	VIII	109	Dentaria.....	321	XV	11	65
Chorda.....	—	XXIV	VIII	109	Desmarestia.....	—	XXIV	VIII	109
Chrysanthemum.....	398	XIX	11	83	Dianthus.....	217	X	11	42
Chrysocoma.....	382	XIX	I	80	Dicranum.....	492	XXIV	VI	106
Chrysosplenium.....	213	X	11	40	Diderma.....	575	XXIV	X	118
Cichorium.....	373	XIX	I	78	Didymodon.....	495	XXIV	VI	106
Cicuta.....	147	V	11	26	Digitalis.....	301	XIV	11	61
Cinclidotus.....	486	XXIV	VI	105	Diphyscium.....	481	XXIV	VI	105
Cineraria.....	395	XIX	11	83	Dipsacus.....	55	IV	I	13
Circæa.....	8	II	I	2	Doronicum.....	396	XIX	11	83
Cistus.....	257	XIII	I	54	Draba.....	308	XV	I	63
Clavaria.....	598	XXIV	X	122	Drosera.....	168	V	VI	29
Clematis.....	263	XIII	VII	55	Dryas.....	248	XII	V	52
Clinopodium.....	285	XIV	I	59					
Cnicus.....	377	XIX	I	79	E				
Cochlearia.....	315	XV	I	64	Echinophora.....	129	V	11	24
Colchicum.....	193	VI	III	34	Echium.....	85	V	I	18
Collema.....	553	XXIV	IX	115	Elatine.....	207	VIII	IV	38
Comarum.....	249	XII	V	52	Elymus.....	49	III	11	11
Conferva.....	518	XXIV	VIII	111	Empetrum.....	443	XXII	III	97
Conium.....	134	V	11	25	Encalypta.....	488	XXIV	VI	106
Conostomum.....	484	XXIV	VI	105	Endocarpion.....	530	XXIV	IX	112
Convallaria.....	182	VI	I	31	Epilobium.....	197	VIII	I	36
Convolvulus.....	93	V	I	19	Epimedium.....	65	IV	I	14
Conyza.....	388	XIX	11	81	Epipactis.....	412	XX	I	87
Corallorrhiza.....	414	XX	I	88	Equisetum.....	457	XXIV	I	101
Coriandrum.....	145	V	11	26	Erica.....	201	VIII	I	37
Cornicularia.....	554	XXIV	IX	116	Erica.....	—	VIII	I	36
Cornus.....	66	IV	I	14	Erigeron.....	389	XIX	11	81
Coronopus.....	316	XV	I	64	Erineum.....	612	XXIV	X	123
Corrigiola.....	163	V	III	28	Eriocaulon.....	422	XXI	III	92

INDEX TO THE GENERA.

<i>Genus.</i>	<i>Class.</i>	<i>Ord.</i>	<i>Page.</i>	<i>Genus.</i>	<i>Class.</i>	<i>Ord.</i>	<i>Page.</i>		
Eriophorum	23	III	I	5	Hedysarum	354	XVII	IV	72
Erodium	335	XVI	II	68	Helleborus	269	XIII	VII	56
Erym	351	XVII	IV	72	Helminthia	361	XIX	I	76
Eryngium	125	V	II	24	Helotium	607	XXIV	X	123
Erysimum	326	XV	II	65	Helvella	602	XXIV	X	122
Euonymus	110	V	I	21	<i>Helvella</i>	—	XXIV	X	123
Eupatorium	381	XIX	I	80	Heracleum	139	V	II	25
Euphorbia	234	XI	III	46	Hernium	407	XX	I	87
Euphrasia	294	XIV	II	60	Herniaria	117	V	II	22
Evernia	539	XXIV	IX	113	Hesperis	329	XV	II	66
Exacum	61	IV	I	14	Hieracium	369	XIX	I	77
F					Himantia	614	XXIV	X	124
Fagus	436	XXI	VII	94	Hippocrepis	353	XVII	IV	72
Farinaria	—	XXIV	X	119	Hippophae	446	XXII	IV	98
Festuca	41	III	II	9	Hippuris	2	I	I	1
Ficaria	267	XIII	VII	56	Holcus	34	III	II	8
Fontinalis	502	XXIV	VI	107	Holosteam	53	III	III	12
<i>Fontinalis</i>	—	XXIV	VI	105	Hookeria	505	XXIV	VI	108
Fragaria	244	XII	V	51	Hordeum	50	III	II	12
Frankenia	187	VI	I	33	Hottonia	89	V	I	18
Fraxinus	7	II	I	2	Humulus	448	XXII	V	98
Fritillaria	174	VI	I	30	Hutchinsia	312	XV	I	63
Fucus	515	XXIV	VIII	109	Hyacinthus	177	VI	I	31
Fuligo	573	XXIV	X	118	Hydnum	595	XXIV	X	121
Fumaria	340	XVII	II	70	Hydrocharis	453	XXII	VIII	99
Funaria	496	XXIV	VI	107	Hydrocotyle	126	V	II	24
<i>Furcellaria</i>	—	XXIV	VIII	109	Hymenophyl-				
G					lum	472	XXIV	IV	104
Galanthus	170	VI	I	39	Hyoscyamus	103	V	I	20
Galeobdolon ..	279	XIV	I	58	<i>Hyoseris</i>	—	XIX	I	78
Galeopsis	278	XIV	I	58	Hypericum	359	XVIII	IV	75
Galium	59	IV	I	13	<i>Hypnea</i>	—	XXIV	VIII	110
Geastrum	567	XXIV	X	117	Hypnum	506	XXIV	VI	108
<i>Gelidium</i>	—	XXIV	VIII	110	Hypochæris	371	XIX	I	78
Genista	343	XVII	IV	70	Hysterium	558	XXIV	X	116
Gentiana	124	V	II	23	I				
Geoglossum ..	599	XXIV	X	122	Jasione	97	V	I	19
Geranium	336	XVI	V	68	Iberis	317	XV	I	64
Geum	247	XII	V	52	Ilex	70	IV	III	15
<i>Gigartina</i>	—	XXIV	VIII	110	Illecebrum	113	V	I	22
Glaucium	252	XIII	I	53	Impatiens	99	V	I	20
Glaux	114	V	I	22	Imperatoria ..	151	V	II	27
Glechoma	276	XIV	I	58	Inula	394	XIX	II	82
Gnaphalium ..	386	XIX	II	80	Iris	19	III	I	4
Goodyera	409	XX	I	87	Isaria	609	XXIV	X	123
Graphis	528	XXIV	IX	112	Isatis	318	XV	I	64
Grimmia	489	XXIV	VI	106	Isidium	548	XXIV	IX	115
<i>Grimmia</i>	—	XXIV	VI	105	Isotes	473	XXIV	V	104
Gyalecta	523	XXIV	IX	111	Juncus	184	VI	I	32
Gymnadenia ..	405	XX	I	86	Jungermannia ..	508	XXIV	VII	108
Gymnostomum	480	XXIV	VI	105	Juniperus	454	XXII	XIII	99
Gyrophora	525	XXIV	IX	112	Ixia (Trichone-				
H					ma)	18	III	I	{ 4 125
Habenaria	—	XX	I	86	K				
Hedera	112	V	I	21	Knapia	29	III	II	7
<i>Hedynois</i>	—	XIX	I	76	Kobresia	421	XXI	III	92
					L				
					Lactuca	364	XIX	I	76

INDEX TO THE GENERA.

<i>Genus.</i>	<i>Class.</i>	<i>Ord.</i>	<i>Page.</i>	<i>Genus.</i>	<i>Class.</i>	<i>Ord.</i>	<i>Page.</i>
Lagurus 45	III	II	1	Menyanthes.... 88	V	I	18
Laminaria —	XXIV	VIII	109	Menziesia 200	VIII	I	36
Lamium 277	XIV	I	58	Mercurialis 452	XXII	VIII	98
Lapsana 372	XIX	I	78	Meruhus 591	XXIV	X	121
Lathræa 296	XIV	II	60	Mesenterica 616	XXIV	X	124
Lathyrus 349	XVII	IV	71	Mespilus 239	XII	IV	48
Laurencia —	XXIV	VIII	110	Meum —	V	II	25
Lavatera 339	XVI	VIII	69	Milium 31	III	II	7
Lecanora 537	XXIV	IX	113	Mnium —	XXIV	VI	107
Lecidea 524	XXIV	IX	111	Monilia 610	XXIV	X	123
Lemna 12	II	I	3	Monotropa..... 209	X	I	40
Leontodon 366	XIX	I	76	Montia 52	III	III	122
Leonurus 284	XIV	I	59	Morchella 693	XXIV	X	122
Leotia 601	XXIV	X	122	Mucor 581	XXIV	X	119
Leptidium 311	XV	I	63	Mucor —	XXIV	X	117
Lepidium —	XV	I	64	Myosotis 76	V	I	17
Lepraria 556	XXIV	IX	116	Myosurus 169	V	VII	29
Leucodon 494	XXIV	VI	106	Myrica 447	XXII	IV	98
Leucocum 171	VI	I	30	Myriophyllum.. 431	XXI	VII	93
Licea 580	XXIV	X	119	N			
Lichen —	XXIV	IX	111	Naemaspora.... 560	XXIV	X	117
Ligusticum 140	V	II	2	Narcissus 172	VI	I	30
Ligustrum 6	II	I	25	Nardus 24	III	I	5
Lilium 173-174	VI	I	125	Narthecium 180	VI	I	31
Limosella 304	XIV	II	61	Nasturtium . . . 323	XV	II	65
Linaria 298	XIV	II	61	Neckera 499	XXIV	VI	107
Linnæa 302	XIV	II	61	Neottia 410	XX	I	87
Linum 166	V	V	28	Nepeta 273	XIV	I	57
Listera 411	XX	I	87	Nephroma 545	XXIV	IX	114
Lithospermum .. 77	V	I	17	Nidularia —	XXIV	X	120
Littorella 423	XXI	IV	92	Nuphar 255	XIII	I	53
Lobelia 98	V	I	19	Nymphæa 254	XIII	I	53
Lolium 47	III	II	11	O			
Lonicera 108	V	I	21	Oenanthe 144	V	II	26
Lotus 357	XVII	IV	73	Oenothera 196	VIII	I	36
Luzula 185	VI	I	32	Ononis 345	XVII	IV	70
Lychnis 227	X	IV	44	Onopordum 378	XIX	I	79
Lycogala 572	XXIV	X	118	Onygena 582	XXIV	X	119
Lycoperdon .. . 570	XXIV	X	118	Opegrapha.... . 527	XXIV	IX	112
Lycoperdon —	XXIV	X	117	Ophioglossum.. 459	XXIV	II	61
Lycopodium.... 458	XXIV	II	101	Ophrys 408	XX	I	87
Lycopsis 84	V	I	18	Ophrys —	XX	I	86
Lycopus 13	II	I	3	Orchis 404	XX	I	86
Lysimachia ... 90	V	I	18	Origanum 286	XIV	I	59
Lythrum 231	XI	I	46	Ornithogalum.. 176	VI	I	30
M				Ornithopus.... 352	XVII	IV	72
Malaxis 413	XX	I	88	Orobanchæ 305	XIV	II	62
Malva 338	XVI	VIII	69	Orobis 348	XVII	IV	71
Marchantia 512	XXIV	VII	108	Orthotrichum.. 498	XXIV	VI	107
Marrubium 283	XIV	I	59	Osmunda 461	XXIV	III	102
Mathiola 323	XV	II	66	Osmunda —	XXIV	II	101
Matricaria 400	XIX	II	83	Oxalis..... 225	X	IV	44
Medicago 358	XVII	IV	74	P			
Melampyrum .. 295	XIV	II	60	Pæonia 258	XIII	III	54
Melica 35	III	II	8	Panicum 26	III	II	6
Melissa 288	XIV	I	59	Papaver.. 253	XIII	I	53
Melittis 289	XIV	I	59				
Mentha..... 275	XIV	I	57				

INDEX TO THE GENERA.

Genus.	Class.	Ord.	Page.	Genus.	Class.	Ord.	Page.		
Parietaria	67	IV	I	15	Radiola.....	75	IV	III	16
Paris	205	VIII	IV	38	Ramalina	552	XXIV	IX	115
Parmelia	541	XXIV	IX	114	Ranunculus	266	XIII	VII	55
Parnassia	164	V	IV	28	Raphanus	334	XV	II	67
Pastinaca.....	152	V	II	27	Reseda	233	XI	III	46
Pedicularis.....	297	XIV	II	69	Reticularia.....	—	XXIV	X	118
Peloria	—	XIV	II	61	Rhamnus	109	V	I	21
Peltidea	544	XXIV	IX	114	Rhinanthus	293	XIV	II	60
Peplis	188	VI	I	33	Rhizomorpha ..	615	XXIV	X	124
Periconia	608	XXIV	X	123	Rhodola	451	XXII	VII	98
Peucedanum ..	137	V	II	25	Ribes ..	111	V	I	21
Peziza	605	XXIV	X	123	Riccia ..	513	XXIV	VII	108
Peziza	—	XXIV	X	117	Rivularia.....	517	XXIV	VIII	110
Phalaris.....	25	III	II	6	Roccella	533	XXIV	IX	113
Phallus	588	XXIV	X	120	Rosa.....	242	XII	V	49
Phascum.....	477	XXIV	VI	104	Rotbolla.....	48	III	II	11
Phellandrium ..	146	V	II	26	Rubia	60	IV	I	14
Phleum	27	III	II	6	Rubus.....	243	XII	V	51
Physarum	576	XXIV	X	118	Rumex	189	VI	III	33
Phyteuma	96	V	I	19	Ruppia	72	IV	III	16
Picris	362	XIX	I	76	Ruscus	444	XXII	III	97
Pilobolus	563	XXIV	X	117	S.				
Pilularia	474	XXIV	V	104	Sagedia.....	535	XXIV	IX	113
Pimpinella	156	V	II	27	Sagina	73	IV	III	16
Pinguicula	10	II	I	3	Sagina ..	—	X	IV	45
Pinus ..	441	XXI	VIII	94	Sagittaria	432	XXI	VII	93
Pisum	347	XVII	IV	71	Salicornia	1	I	I	1
Plantago	62	IV	I	14	Salix	442	XXII	II	95
Plocamium.....	—	XXIV	VIII	110	Salsola	120	V	II	23
Poa	37	III	II	8	Salvia	14	II	I	3
Polemonium.....	94	V	I	19	Sambucus	160	V	III	28
Polycarpon.....	54	III	III	12	Samolus	107	V	I	21
Polygala	341	XVII	III	70	Sanguisorba	64	IV	I	14
Polygonum	204	VIII	III	37	Sanicula ..	127	V	II	24
Polypodium ..	462	XXIV	IV	102	Santolina	383	XIX	I	80
Polypodium ..	—	XXIV	IV	104	Saponaria	216	X	II	41
Polypogon	30	III	II	7	Satyrium.....	—	XX	I	86
Polytrichum.....	485	XXIV	VI	105	Saxifraga	214	X	II	40
Populus.....	450	XXII	VII	98	Scabiosa	56	IV	I	13
Porina	531	XXIV	IX	112	Scandix.....	149	V	II	26
Potamogeton ..	71	IV	III	15	Scheuchzeria ..	191	VI	III	34
Potentilla	245	XII	V	51	Schistostega	478	XXIV	VI	105
Poterium.....	434	XXI	VII	94	Schoenus	20	III	I	4
Prenanthes	365	XIX	I	76	Schoenus ..	—	XXI	III	92
Primula	86	V	I	18	Scilla	178	VI	I	31
Prunella	291	XIV	I	60	Scirpus	22	III	I	4
Prunus	236	XII	I	48	Scleranthus	215	X	II	41
Pteris	466	XXIV	IV	103	Scleroderma ..	571	XXIV	X	118
Pterogonium ..	490	XXIV	VI	106	Sclerotium	564	XXIV	X	117
Puccinia	585	XXIV	X	119	Scolopendrium ..	466	XXIV	IV	103
Pulmonaria ..	80	V	I	17	Scrophularia.....	300	XIV	II	61
Pyrenula ..	533	XXIV	IX	113	Scutellaria	290	XIV	I	60
Pyrethrum	399	XIX	II	83	Sedum	224	X	IV	44
Pyrola	212	X	I	40	Selinum	135	V	II	25
Pyrus	240	XII	IV	48	Sempervivum ..	235	XI	VI	47
Q.					Senecio	391	XIX	II	82
Quercus.....	435	XXI	VII	94	Serapias	—	XX	I	87
R.					Serratula	375	XIX	I	78
Racodium	613	XXIV	X	123					

INDEX TO THE GENERA.

<i>Genus.</i>	<i>Class.</i>	<i>Ord.</i>	<i>Page.</i>	<i>Genus.</i>	<i>Class.</i>	<i>Ord.</i>	<i>Page.</i>		
Sesleria	36	III	II	8	Thlaspi	—	XV	I	63
Sherardia	57	IV	I	13	Thrinicia	367	XIX	I	76
Sibbaldia	167	V	V	29	Thymus	287	XIV	I	59
Sibthorpia	303	XIV	II	61	Tilia	256	XIII	I	53
Silene	219	X	III	42	Tillæa	74	IV	III	16
Sinapis	333	XV	II	67	Tofieldia	190	VI	III	34
Sison	143	V	II	26	Tordylium	130	V	II	24
Sistotrema	594	XXIV	X	121	Tormentilla	246	XII	V	52
Sisymbrium	324	XV	II	65	Tortula	487	XXIV	VI	105
Sisymbrium	—	XV	II	67	Tragopogon	360	XIX	I	76
Sium	142	V	II	26	Tremella	604	XXIV	X	122
Smyrnum	153	V	II	27	Trichia	577	XXIV	X	118
Solanum	105	V	I	20	Trichia	—	XXIV	X	119
Solidago	393	XIX	II	82	Trichoderma	586	XXIV	X	119
Solorina	522	XXIV	IX	111	Trichomanes	471	XXIV	IV	104
Sonchus	363	XIX	I	76	Trichonema	18	III	I	125
Sorbus	238	XII	III	48	Trichostomum	493	XXIV	VI	106
Sparganium	419	XXI	III	89	Tridentalis	195	VII	I	35
Spartium	342	XVII	IV	70	Trifolium	356	XVII	IV	72
Spathularia	600	XXIV	X	122	Triglochin	192	VI	III	34
Spergula	229	X	IV	45	Triticum	51	III	II	12
Sphæria	557	XXIV	X	116	Trollius	268	XIII	VII	56
Sphæria	—	XXIV	X	117	Tuber	565	XXIV	X	117
Sphærobolus	562	XXIV	X	117	Tubercularia	561	XXIV	X	117
Sphærocarpus	510	XXIV	VII	108	Tulipa	175	VI	I	30
Sphærocarpus	—	XXIV	X	119	Tulostoma	569	XXIV	X	118
Sphærophoron	550	XXIV	IX	115	Turritis	331	XV	II	66
Sphagnum	476	XXIV	VI	104	Tussilago	390	XIX	II	81
Spiloma	520	XXIV	IX	111	Typha	418	XXI	III	89
Spiræa	241	XII	IV	49					
Splachnum	483	XXIV	VI	105	U.				
Spumaria	574	XXIV	X	118	Ulex	344	XVII	IV	70
Stachys	281	XIV	I	59	Ulmus	121	V	II	23
Staphylea	161	V	III	28	Uva	516	XXIV	VIII	110
Statice	165	V	V	28	Urceolaria	536	XXIV	IX	113
Stellaria	220	X	III	43	Uredo	584	XXIV	X	119
Stemonitis	579	XXIV	X	119	Urtica	426	XXI	IV	93
Stereocaulon	549	XXIV	IX	115	Usnea	555	XXIV	IX	116
Sticta	540	XXIV	IX	113	Utricularia	11	II	I	3
Stipa	43	III	II	11					
Stratiotes	261	XIII	VI	54	V.				
Subularia	307	XV	I	63	Vaccinium	199	VIII	I	36
Swertia	123	V	II	23	Valeriana	16	III	I	4
Symphytum	81	V	I	17	Variolaria	534	XXIV	IX	113
					Vaucheria	519	XXIV	VIII	111
T.					Vella	366	XV	I	63
Tamarix	162	V	III	28	Verbascum	101	V	I	20
Tamus	449	XXII	V	98	Verbena	274	XIV	I	57
Tanacetum	384	XIX	II	80	Veronica	9	II	I	2
Targionia	511	XXIV	VII	108	Verrucaria	529	XXIV	IX	112
Taxus	455	XXII	XIII	99	Viburnum	159	V	III	27
Teesdalia	313	XV	I	64	Vicia	350	XVII	IV	71
Tetraphis	482	XXIV	VI	105	Villarsia	88*	V	I	125
Teucrium	272	XIV	I	57	Vinca	116	V	I	22
Thalictrum	264	XIII	VII	55	Viola	100	V	I	20
Thalephora	596	XXIV	X	122	Viscum	445	XXII	IV	98
Thelotrema	532	XXIV	IX	113					
Thesium	115	V	I	22	W.				
Thlaspi	314	XV	I	64	Weissia	491	XXIV	VI	106
					Woodsia	470	XXIV	IV	104

INDEX TO THE GENERA.

X.					Z.				
Genus.	Class.	Ord.	Page.		Genus.	Class.	Ord.	Page.	
Xanthium	427	XXI	V	93	Zannichella	417	XXI	I	89
Xyloma	559	XXIV	X	117	Zostera	4	I	I	1
Xylostroma	—	XXIV	X	123	Zygodon	497	XXIV	VI	107

INDEX OF ENGLISH NAMES.

INDEX OF ENGLISH NAMES.

A.		Page.			Page.			Page.
Abele		98	Berry-chickweed		42	Bur-marygold		80
Adder's Tongue.....		101	Betony		58	Burnet		14
Agaric		120	Bilberry.....		36	Burnet, garden		94
Agrimony		46	Bindweed		19	Burnet-saxifrage.....		27
Alder		92	Birch		94	Bur-parsley.....		24
Ale-hoof, or ground-ivy		58	Bird-cherry		48	Bur-reed		89
Alexanders.....		27	Bird's-eye		18	Bur-weed.....		93
Alkanet.....		17	Bird's-foot		72	Butcher's-broom		97
All-good, or peren.			Bird's-foot trefoil		73	Butter-bur		81
goose-foot		22	Bird's nest		40	Butter-cups, or crow-		
All-seed		12	Birth-wort		88	foot		55
All-seed, flax-seed ..		16	Bistort		37	Butter-wort.....		3
Aloe, water, or water-			Bitter-sweet, or woody			C.		
soldier		54	night-shade		20	Cabbage		66
Amaranth		93	Bitter-vetch		71	Calamint		59
Apple.....		48	Black-berry, or com-			Calathian-violet, or		
Archangel, or dead-			mon bramble.....		51	marsh-gentian		23
nettle		58	Black Bryony		98	Camline, or gold of		
Arrow-grass		34	Black Horehound.....		59	pleasure		63
Arrow-head		93	Black-thorn or sloe....		48	Cammock, or rest-		
Asarabacca.....		46	Bladder-grain.....		108	harrow		70
Ash		2	Bladder-nut		28	Campion		44
Asp, or Aspen.....		98	Bladder-snout, or			Canary-grass.....		6
Asphodel		31	hooded milfoil		3	Candy-tuft		64
Avens		52	Bleaberry.....		36	Caraway		27
Avens, mountain.....		52	Blight		119	Carline-thistle.....		79
Awl-wort.....		63	Blinks.....		12	Carnation, or clove		
B.			Blue-bottle.....		84	pink		42
Bald-money, or spiguel			Bluets		120	Carrot.....		25
lovage.....		25	Bog-moss		104	Catch-fly		42
Balm		59	Bog-rush		4	Catch-fly, German		44
Balsam		20	Borage		17	Cat-mint		57
Bane-berries, or herb-			Box		93	Cat's-ear		78
christopher		53	Brake		103	Cat's-foot, or everlast-		
Barberry		33	Bramble		51	ing		81
Base-rocket, or wild			Branks, or buck-wheat		37	Cat's-milk, or sun-		
mignonette		46	Briar, sweet		50	spurge		46
Basil.....		59	Bristle-fern.....		104	Cat's-tail-grass		6
Bastard Balm		59	Bristle-moss.....		107	Celandine		53
Barley		12	Brome-grass		10	Celery		27
Barren-wort		14	Brooklime		2	Centaury		21
Bean, white		48	Brookweed		21	Chaff-weed		14
Bear-berries, or red-			Broom.....		70	Chamomile		83
trailing arbutus		40	Broom-rape		62	Chamignon		120
Beard-grass		7	Bruise-wort, or soap-			Chantrelle		121
Beardless-moss		105	wort.....		41	Charlock, or chadlock		67
Bear's-foot, or stinking			Bryony		93	Cheese-rennet, or		
hellebore		56	Bryony, black		98	yellow bedstraw		13
Bed-straw		13	Buckbean, or bog-bean		18	Cherry		48
Bee nettle, or large-			Buck's-horn		14	Chervil		26
flowered hemp-nettle		58	Buck-thorn		21	Chesnut		94
Bee-orchis, or ophrys		87	Buck-wheat		37	Chickweed		43
Beech		94	Bugle		57	Chickweed, berry.....		42
Beet		23	Bugloss		18	Chickweed, jagged....		12
Bell-flower.....		19	Bullace		48	Chickweed, mouse-ear		45
Bent-grass		7	Ball-rush		5	Chive		30
Berry-bearing Alder, or			Bumblekites, or com-			Cicely, or sweet		
alder-leav. buckthorn		21	mon bramble		51	chervil		26
			Burdock.....		78			

INDEX OF ENGLISH NAMES.

	Page.		Page.		Page.
Cinquefoil	51	Cross-wort	13	Extinguisher moss....	106
Cinquefoil, marsh	52	Crow-foot.....	55	Eye-bright	60
Clary	3	Crow-garlick.....	30		
Claver, or spotted me- dick.....	74	Cuckow-flower, or rag- ged robin.....	44	F.	
Cleavers, or goose-grass	14	Cuckow-pint.....	93	Feather-foil, or water- violet.....	18
Clotbur, or burdock..	78	Cudbear	113	Feather-grass	11
Cloud-berry	51	Cud-weed	80	Feather-moss	108
Clove-pink	42	Cup-fern	103	Felwort	23
Clover, or trefoil	72	Currant.....	21	Fennel	27
Clown's All-heal, or marsh woundwort ..	59			Fern, common, or brake	103
Club-moss	101	D.		Fescue-grass.....	9
Club-rush.....	4	Daffodil.....	30	Feverfew	83
Cockle, corn	44	Daisy	83	Field-madder	13
Cock's-foot grass	9	Dame's-violet	66	Fig-wort	61
Cock's-head, or milk vetch	72	Dandelion	76	Filmy fern, or leaf....	104
Codlins and cream, or great willow herb....	36	Danc-wort, or dwarf elder	28	Fir	94
Cole, or rape.....	66	Darnel, or rye-grass ..	11	Flag, sweet.....	32
Colewort, or sea cab- bage	67	Deadly nightshade	20	Flax	28
Colt's foot	81	Dead-nettle	58	Flax-seed.....	16
Columbine	54	Dead-tongue, or hem- lock dropwort.....	26	Flex-bane	81
Comfrey	17	Devil's-bit	13	Flea-wort....	83
Cone-mouthed moss .	105	Dewberry	51	Flix-weed.....	65
Coral-root	88	Dittander, or pepper- wort.....	63	Flower-de-luce, or iris	4
Coral-wort	65	Dock	33	Flowering-fern, or Os- mund-royal	102
Cord-moss	107	Dodder	23	Flowering-rush	39
Coriander.....	26	Dog's grass, or couch	12	Fluellen, or toad-flax	61
Corn-blight	119	Dog's mercury, or mer- cury.....	98	Fly-fungus, or amanita	120
Corn-blue-bottle	84	Dog's-tail-grass	9	Fly-orchis, or ophrys..	87
Corn-cockle	44	Dog-wood, or cornel..	14	Fool's-parsley	26
Cornel.....	14	Dropwort	49	Forget-me-not, or scor- pion-grass	17
Cornish money-wort .	61	Dropwort, water.....	26	Fork-moss	106
Corn-marygold, or yel- low ox-eye.....	83	Dry-rot	121	Four-toothed-moss	105
Corn-sallad.....	4	Duck-weed	3	Fox-glove.....	61
Cotton-grass	5	Dulse	109	Fox-tail grass	6
Cotton-thistle.....	79	Dutch or white clover	72	Fringe-moss	106
Cotton-weed.....	89	Dutch rushes, or rough horse-tail	101	Fritillary	30
Couch-grass	12	Dwale, or deadly night- shade	20	Frog-bit.....	99
Cow-bane	26	Dyers'-weed	46	Fumitory.....	70
Cow-berry	36			Furze	70
Cow-parsley	27	E.		Furze, needle, or green weed	70
Cow-parsnep.....	25	Earth-moss	104		
Cowslip	18	Earth-nut	25	G.	
Cow-wheat.....	60	Eglantine, or sweet- briar	50	Galangale	4
Crab-apple	48	Elder	28	Gale	98
Crake-berry, or crow- berry	97	Elecampane	82	Garden-burnet	94
Cranberry	36	Elm	23	Garlick	30
Crane's-bill	68	Enchanter's nightshade	2	Gentian	23
Cress-rocket	63	Eryngo	24	Gentianella	14
Cress, wall	66	Evening primrose	36	Germander.....	57
—wart, or swine's	64	Everlasting.....	81	Gill, or ground ivy	58
—water	65	Everlasting-pea	71	Gladwyn, or stinking iris	4
—winter	65			Gland-moss	105

INDEX OF ENGLISH NAMES.

Page.		Page.		Page.	
Glass-wort, or maish-samphire.....	1	Grim-the-collier, or great orange hawk-weed.....	77	Hornbeam.....	94
Globe-flower.....	56	Gromwell.....	17	Horn-liver-wort.....	108
Globe-lichen.....	115	Ground-ivy.....	58	Horned-pondweed.....	89
Goat's-beard.....	76	Ground-pine.....	57	Horn-poppy.....	53
Golden-rod.....	82	Groundsel.....	82	Horn-wort.....	93
Golden-saxifrage.....	40	Guelder-rose.....	27	Horse-bane, or water-hemlock.....	26
Gold-of-pleasure.....	63	Gypsie-wort, or water horehound.....	3	Horse-radish.....	64
Goldy-locks.....	80	H.....		Horse-shoe-vetch.....	72
Good King Henry, or perennial goose-foot.....	22	Hair-fern.....	104	Horse-tail.....	101
Gooseberry.....	21	Hair-grass.....	7	Hound's tongue.....	17
Goose-foot.....	22	Hair-moss.....	105	House-leek.....	47
Goose-grass.....	14	Hard-grass.....	11	Hyacinth.....	31
Goose-tongue, or sneeze-wort.....	84	Hare-bell.....	31	I.	
Gorse, or furze.....	70	Hare's-ear, or thorough-wax.....	24	Jack-by-the-hedge, or garlick hedge mustard.....	65
Gout-weed.....	27	Hare's-tail-grass.....	11	Jacob's-ladder.....	19
Grass, arrow.....	34	Hart's-tongue.....	103	Jagged-chickweed.....	12
— harley.....	12	Hart-wort.....	24	Juniper.....	99
— beard.....	7	Hasel.....	94	Ivy.....	21
— bent.....	7	Hautboy.....	51	K.	
— brone.....	10	Haver.....	11	Kale, sea.....	64
— canary.....	6	Hawkbait.....	77	Kidney-vetch.....	71
— cat's tail.....	6	Hawks-beard.....	78	Knap-weed.....	84
— cock's foot.....	9	Hawk-weed.....	77	Knawe.....	41
— cotton.....	5	Hawthorn.....	48	Knot-grass.....	37
— couch or dog.....	12	Heart's-ease, or pansy.....	20	Knot-weed.....	22
— dog's tail.....	9	Heath.....	37	L.	
— feather.....	11	Hedge-mustard.....	65	Laces, sea.....	109
— fescue.....	9	Hellebore.....	56	Ladies'-mante.....	15
— fox-tail.....	6	Helleborine.....	87	Ladies'-slipper.....	88
— goose.....	14	Hemlock.....	25	Ladies'-smock.....	65
— hard.....	11	Hemlock, water.....	26	Lady's-bedstraw, or bedstraw.....	13
— hair.....	7	Hemp-agrimony, or hemp-weed.....	80	Lady's-cushion, or mossy-cushion.....	41
— hare's-tail.....	11	Hemp-nettle.....	58	Lady's-finger.....	71
— knot.....	37	Henbane.....	20	Lady's-traces.....	87
— lyme.....	11	Hen-bit.....	58	Larkspur.....	54
— mat.....	5	Herb-bennet, or avens.....	52	Laurel, spurge.....	37
— meadow.....	8	Herb-christopher.....	53	Lavender, sea.....	28
— melic.....	8	Herb-gerrard, or gout-weed.....	27	Laver.....	110
— millet.....	7	Herb-paris.....	38	Leopard's-bane.....	83
— moor.....	8	Herb-Robert, or stinking crane's-bill.....	68	Lettuce.....	76
— oat.....	11	High-taper, or great mullein.....	20	Lily.....	125
— panick.....	6	Hip, or dog-rose.....	50	Lily-of-the-valley.....	31
— pepper.....	104	Holly.....	15	Lime tree, or linden.....	53
— quaking.....	9	Holly, sea, or eryngo.....	24	Ling, or heath.....	37
— rye, or darnel.....	11	Hone-wort.....	26	Liquorice, wild, or sweet milk-vetch.....	72
— scorpion.....	17	Honeysuckle.....	21	London-pride.....	40
— scurvy.....	64	Hooded-milfoil.....	3	London-rocket.....	65
— soft.....	8	Hop.....	98	Loose-strife.....	18
— vernal.....	3	Horehound, black.....	59	Lords and ladies, or cuckow-pint.....	93
— wheat.....	12	— water.....	3	Louse-wort.....	60
— whitlow.....	63	— white.....	59		
Grass-of-parnassus.....	28				
Grass-poly, or hyssop-leaved lythrum.....	46				
Grass-wrack.....	1				
Green-weed.....	70				

INDEX OF ENGLISH NAMES.

	Page		Page		Page
Lovage	25	Moon-wort	101	Park-leaves, or tutsan	75
Love-in-idleness, or		Moor-grass.....	8	Parnassus, grass of....	28
pansy	20	Morel.....	122	Parsley, bur, or stone	
Lucerne.....	74	Moschatell.....	38	parsley.....	24
Lung-wort	17	Mossy cushion	41	Parsley, cow.....	27
Lyme-grass.....	11	Mother-of-thyme, or		Parsley, fool's	26
		wild thyme	59	Parsley, milk	25
M.		Motherwort	59	Parsley-piert, or field	
Madder, wild	14	Mould	119	ladies'-mantl'	15
Madder, field	13	Mountain-ash.....	48	Parsnep.....	27
Mad-wort	17	Mountain-avens	52	Parsnep, cow	25
Maiden-hair.....	103	Mouse-ear-chickweed	45	water	26
Makinboy, or Irish		Mu e-tail.....	29	Pasque-flower	55
spurge	47	Mud-wort	61	Pea	71
Mallow	69	Mug-weed, or cross-		Pear.....	48
Man-orchis	86	wort.....	13	Pearl-wort	16
Maple.....	37	Mug-wort	80	Pellitory-of-the-wall ..	15
Maie's-tail	1	Mullein.....	20	Penny-cress	64
Marjoram	59	Mushroom	120	Penny-royal	58
Marram, or sea-reed..	11	Musk-orchis.....	87	Penny wort	24
Marsh cinquefoil	52	Mustard	67	Pepper-grass.....	104
Marsh-mallow.....	68	Mustard, hedge.....	65	Pepper-wort	62
Marsh-samphire, or		tower	66	Periwinkle	22
glass-wort	1	Myrtle, wild, or sweet		Persicaria	37
Marygold, coin, or yel-		gale.....	98	Petty-whin, or needle	
low ox-eye.....	83			green-weed	70
Marygold, marsh	56	N.		Pheasant's-eye	55
Master-wort	27	Navel-wort.....	43	Pig-nut, or earth-nut ..	25
Mat-grass.....	5	Nawew, or rape	66	Pile-wort	56
May, or hawthorn	48	Nep, or cat-mint	57	Pill-wort	104
May-weed	83	Nettle.....	93	Pimpernel	18
Meadow-grass	8	Nightshade	20	Pimpernel, bastard, or	
Meadow-rue	55	Nipple-wort	78	chaff-weed.....	14
Meadow-saffron.....	34	None-so-pretty, or		Pine, or fir	94
Meadow-sage, or clary ..	3	London-pride.....	40	Pink	42
Meadow-sweet.....	49	None-such	74	Pipe-wort.....	92
Mealy-tree, or guelder		O.		Plantain.....	14
rose	27	Oak.....	94	Plantain, water.....	34
Medick	74	Oak-leather	123	Plowman's-spikenard ..	81
Medlar	48	Out-grass.....	11	Plum	48
Melic-grass	8	One-berry, or herb		Plume-thistle	79
Melilot	72	paris	38	Polypody	102
Mercury	98	Orache	100	Pond-weed	15
Meu, or spignel-lovage ..	25	Orpine	113	Pond-weed, horned ..	89
Mezereon.....	37	Orchall	44	Poplar	98
Mignonette, wild	46	Osier	95	Poppy.....	53
Milfoil, or common		Osmund-royal.....	102	Poppy, horn.....	53
yarrow	84	Ox-eye	83	Prickly samphire	24
Milfoil, hooded.....	3	Ox-lip.....	18	Primrose	18
water.....	93	Ox-tongue	76	Primrose, evening	56
Milk-parsley.....	25	Oyster-green, or com-		Primrose-peerless, or	
Milk-vetch.....	72	mon laver	110	pale narcissus.....	30
Milk-wort	70			Privet	2
Millet-grass	7	P.		Projectile-puff-ball	117
Mint	57	Pæony.....	54	Puff-ball	118
Misseltoe	98	Paigle, or cowslip	18	Purslane	33
Mithridate mustard ..	64	Panick-grass.....	6		
Money-wort	18	Pansy	20		
Money-wort, cornish ..	61				

INDEX OF ENGLISH NAMES.

	Page.		Page.		Page.
Quaking-grass	9	Satyrium, <i>see</i> Orchis and		Sow-bread	18
Quicken, or mountain-		Gymnadenia	86	Sow-thistle	76
ash	48	Sauce-alone, or garlick		Spear-wort	55
Quill wort	104	hedge-mustard	65	Speedwell	2
		Saw-wort	78	Sperage, or sparagus ..	31
R.		Saxifrage	40	Spider-orchis, or ophrys	87
Radish	67	Saxifrage, golden	40	Spider-wort	31
Ragged-robin	41	Scabious	13	Spiguel	25
Rag-wort	82	Scabious, sheep's	19	Spikenard	81
Rampion	19	Scorpion-grass	17	Spindle-tree	21
Rimsons, or broad-		Scotch fir	94	Spleen wort	103
leaved garlick	30	Screw-moss	105	Spoon-wort, or scurvy-	
Rape	66	Scurvy-grass	64	grass	64
Raspberry	51	Sea-heath	33	Spurge	46
Rattle, yellow	60	Sea-kale	64	Spurge-laurel	37
Red-shanks, or tilkea	16	Sea laces	109	Spurge-olive	37
Reed	11	Sea-lavender	28	Spurrey	45
Reed-mace	89	Sea-rocket	64	Spurrey, sea	43
Rest-harrow	70	Sea-spurrey	43	Squill	31
Rib-wort, or rib-grass	14	Sea-whip-cord	110	Squinancy-wort, or	
Roan-tree, or moun-		Sedge	89	small woodruff	13
tain-ash	48	Seggram, or ragwort ..	82	Stalked puff-ball	118
Rock-cress, or Bristol		Seli-heal	69	Star-of-Bethlehem	30
wall-cress	66	Sengreen, or golden		Star-thistle	84
Rocket	65	Saxifrage	40	Star wort	82
Rocket, cress	63	Sept-foil, or tormentil	52	Star-wort, water, or	
sea	64	Service-tree	48	star-leaf	1
Rock-hair	115	Shave-grass, or rough		Stink-horn	120
Rose	49	horse-tail	101	Stitch-wort	43
Rose-root	98	Sheep's bit, or scabious	19	Stock	66
Rue, wall	103	Shepherd's needle, or		Stone-crop	44
Rupture-wort	22	needle chervil	26	Stone-fern, or rock-	
Rush	32	Shepherd's purse	64	brake	103
Rush, flowering	39	staff, or		Stone-parsley, or bur-	
wood	32	teasel	13	parsley	24
Rye-grass, or daniel .	11	Shield-fern	102	Stork's-bill	68
		Shore-weed	92	Strap-wort	28
S.		Silver-weed	51	Strawberry	51
Saffron	4	Simpler's joy, or ver-		Strawberry-tree	40
Saffron, meadow	34	vain	57	Succory	78
Sage, meadow, or clary	3	Simson, or ground-el..	82	Sulphur-wort	25
wood, or german-		Skirret, or water-pars-		Sun-dew	29
der	57	nep	26	Sun-fern, or pale-poly-	
Saintfoin	72	Skull-cap	69	pody	102
Saint John's wort	75	Sloe	48	Sweet-briar	50
Saint Peter's wort, or		Smallage, or wild-celery	27	Sweet-flag	32
square St. John's wort	75	Snake-weed	37	Sweet-gale	98
Sallow	97	Snap-dragon	61	Swine's-cress, or wart-	
Sallow-thorn	98	Sneeze-wort	84	cress	64
Salsify	76	Snow-drop	30	Sycamore	37
Salt-weed	22	Snow-flake	30		
Salt-wort	23	Soap-wort	41	T.	
Samphire	25	Soft-grass	8	Tamarisk	28
Samphire, marsh, or		Soldier, water	54	Tangle, or fingered-	
glass-wort	1	Solomon's seal	31	fucus	109
Samphire, prickly	24	Sorrel	33	Tansy	80
Sand-wort	43	Sorrel, wood	44	Tare	72
Sanicle	24	Sow-bane, or red goose-		Teasel	13
		foot	22	Tender-tway-blade	88

INDEX OF ENGLISH NAMES.

	Page.		Page.		Page.
Thistle	79	Vetch.....	71	Whin, or furze	70
Thorn-apple	20	Vetchling.....	71	White-beam.....	48
Thorow-wax	24	Violet.....	20	White-horehound	59
Thread-moss.....	108	Violet, water ..	18	White-rot, or penny-	
Thrift	28	Viper's-bugloss ..	18	wort.....	24
Thruin-wort, or water-		Virgin's-bower, or		White-thorn, or haw-	
plantain	34	traveller's-joy.....	55	thorn.....	48
Thyme	59			White-toothed-moss .	106
Timothy-grass, or cat's		W.		Whitlow-grass.....	63
tail-grass.....	6	Wake-robin, or cuckow-		Whortle, or blea-berry	36
Toad-flax.....	61	pint.....	93	Willow	95
Toad-flax, bastard	22	Wall-cress.....	66	Willow-herb.....	36
Toad-grass, or buffonia	15	Wall-flower	66	Wing-moss ..	106
Toad-stool, poisonous	120	Wall-lettuce	76	Winter-cress	65
Tooth-wort.....	60	Wall-rue	103	Winter-green	40
Tormentil	52	Water-can, or yellow		Woad.....	64
Touch-me-not, or yel-		water-lily	53	Woodbine, or honey-	
low balsam	20	Water-cress	65	suckle.....	21
Tower-mustard	66	Water-drop-wort....	26	Woodruif.....	13
Traveller's-joy.....	55	Water-hemlock.....	26	Wood-rush	32
Trefoil	72	Water-horehound	3	Wood-sage, or german-	
Tree-mallow.....	69	Water-lily	53	der	57
True-love, or herb-paris	38	Water-milfoil	93	Wood-sorrel	44
Truffle	117	Water-moss	107	Wormwood	80
Tulip	30	Water-parsnep	26	Wound-wort.....	59
Turkey-pod, or wall		Water-plantain	34	Wych-elm ..	23
cress	66	Water-soldier, or aloe	54	Wymote, or marsh-	
Turk's-cap lily	125	Water-star-leaf, or		mallow	68
Turnip	66	star-wort.....	1		
Tutsan	75	Water-violet.....	18	Y.	
Tway-blade	87	Water-wort	38	Yarrow	84
		Wart-cress.....	64	Yellow-rattle.....	60
V.		Wart-wort, or sun-		Yellow-water-lily.....	53
Valerian	4	spurge	46	Yellow-weed, or dyer's	
Valerian, Greek, or		Wayfaring-tree, or		weed	46
Jacob's-ladder	19	mealy guelder-rose	27	Yellow-wort	36
Vernal-grass	3	Weasel-shout	58	Yew	99
Vervain.....	57	Wheat-grass.....	12

ERRATA.

CLASS 1. In the table of Generic Characters, Genus 1, after "entire," and Genus 5, after "side," for a *Comma* put a *Period*.

PAGE 2, Genus 9, Species 4, for "few. flow," read few-flow.

4,16, 5, after "triandrous," for a *Comma* put a *Colon*.

.....20, 5, after "clustered" put a *Comma*.

11. In the margin before Genus ELYMUS insert 49.

27. Gen. 159, for "VIBERNUM," read VIBURNUM.

43. 240. Spec. 3, before "298" put an *.

64. Gen. CORONOPUS. In the margin, for "317" read 316.

84 and 85 form but one folio.

86. Gen. 405, second division, for one "*" put **.

CLASS XXII. Generic Characters, Order VI. for "*Rumen*" read *Rumex*.

..... XXIV. Generic Characters, Order VI. Genus 475 and 5 following Genera, dele the Point after "Lid."

In the running title of the next page but one, for "ORDER IV," read ORDER VI.

PAGE 117. Gen. 569, for "NEMASPORA," read NAEMASPORA.

Gen. 568, Spec. 1. In the Column of references to figures, insert 321.

124. 616, Spec. 1, for "*Pers. Lyn.*" read *Pers. Syn.*

125. 88*, 1, dele Point after "*Menyanthes*;" and for "nymphæoides" read nymphæoides.

The Genera 328. *Mathiola*, 361. *Helminthia*, 367. *Thrinicia*, and 368. *Apargia*, ought to have been referred to *Hortus Kewensis*.

A DICTIONARY OF BOTANICAL TERMS.

N. B. The numbers between the brackets refer to the corresponding numbers on the margin of the pages throughout the volume, where the word explained will be illustrated by reference to a plant.

- Abortive, barren
- Acerose, chaffy
- Acicular, needle-shaped
- Aciniform, scymeter-shaped
- Aeuleate, prickly
- Aeuminate, tapering to a point (118)
- Aeute, sharp (22)
- Aggregate, many flowers included in one common calyx (376)
- Alate, winged
- Androgynous, bearing male and female flowers, distinct from each other on the same root
- Angular, having edges or corners
- Annual, living only one year
- Anomalous, irregular
- Anther, the summit of the stamen, containing the pollen
- Apetalous, without petals (188)
- Appressed, squeezed close (327)
- Approximate, near together (455)
- Arborescent, becoming woody (339)
- Arboreous, woody and permanent (211)
- Arenate, bowed, bent like a bow
- Articulated, jointed
- Ascending, bending upwards from a horizontal direction (9)
- Attenuated, growing slender
- Auriculated, ear-shaped
- Awn, or beard, a sharp process, issuing from the chaff in corn and grasses
- Awnless, without beard (25)
- Axillary, flowers &c. proceeding from an angle formed by a branch with the stem (16)
- Barren, abortive, flowers incapable of producing perfect seeds
- Base, that part of the leaf &c. nearest to the branch or stem
- Beaded, granulated
- Beaked, projecting like the beak of a bird
- Bearded, beset with parallel hairs, or tufts of hair
- Bicapsular, having two capsules
- Biennial, plants which continue alive two years
- Bifid, two-cleft or cloven
- Bifarious, pointing from opposite sides (377)
- Bilabiate, blossom with two lips
- Biloeular, having two cells
- Binate, in pairs
- Bipartite, deeply divided into two parts
- Bipinnate, doubly-winged (136)
- Bitermate, doubly three-fold (140)
- Bivalve, two valved
- Border, the upper spreading part of a monopetalous flower
- Bowed, bent inwards
- Braetea, floral leaf, may often be mistaken for the calyx, but is more permanent (285)
- Bulbiferous, flowers succeeded by bulbs, instead of seeds (173)
- Bulging, swollen out
- Calyptra, veil, covering the anther of mosses like a hood (501)
- Calyx, the outer covering of the flower
- Campanulate, bell-shaped
- Canaliculate, channelled
- Cancellated, latticed
- Capillary, hair-like
- Capitate, growing in heads (426)
- Capsule, a membranous hollow seed vessel
- Carinated, keeled
- Carnose, fleshy
- Cartilaginous, gristly
- Catkin, flowers and chaff arranged on a long slender stalk like a cat's tail (418)
- Caudate, tailed
- Causcent, having a stem (232)

DICTIONARY OF BOTANICAL TERMS.

- Cell, the hollow in a capsule for lodging the seed
- Central florets, those which occupy the middle part of a compound flower
- Chaff, the dry calyx of corn and grasses
- Ciliate, fringed (59)
- Cirri, tendrils (560)
- Cirrose, terminating in a tendril
- Clavated, club-shaped
- Claw, the lower narrow part of the petal in flowers
- Cleft, divided into parts
- Climbing, plants which support and raise themselves by other bodies
- Club-shaped, thinner at the base than the termination
- Coadunate, joined together at the base
- Coarctate, compact
- Coated, composed of layers, as the bulb of the onion
- Cochleated, snail-shaped
- Column, the central pillar in a capsule
- Columnar, like the shaft of a column
- Common fruit stalk, bearing several flowers
- Compact, growing close, and as it were pressed together
- Complicate-carinate, doubly keeled (502)
- Compound flowers, consisting of many florets or little flowers (118)
- Compressed, a stem having the two opposite sides, plain or flat
- Conduplicate, folded, or doubled together
- Confluent, running one into another at the base
- Congested, heaped together
- Congregated, crowded together
- Conjugated leaf, a pinnate leaf with only one pair of leaflets
- Connate, united at the base (55)
- Connivent, converging or approaching
- Converging, applied to the corolla, when the tips of the petals meet so as to close the flower
- Convolute, twisted spirally
- Cordate, heart-shaped (9)
- Cordate-lanceolate, heart-spear-shaped (95)
- Coriaceous, leather-like (245)
- Cornute, horn-shaped
- Corolla, blossom
- Corona, crown
- Corymb, a bunch of flowers supported on separate foot-stalks (9)
- Costated, ribbed
- Cotyledones, seed-lobes
- Crenate, scalloped (278)
- Crenato-serrulated, finely notched (9)
- Crested, having an appendage like a crest or tuft
- Crinite, hairy
- Crown, a seed &c. to which the calyx adheres
- Cruciform, cross-shaped
- Cucullate, cone-shaped
- Culm, straw (22)
- Cuneiform, wedge-shaped
- Curtain, the calyx of agaric's and boleti
- Caspitate, prickly pointed
- Cyathiform, glass-shaped
- Cylindrical, round without angles, like a walking stick
- Cyme, tuft (224)
- Cymose, tufted (105)
- Deciduous, falling off (108)
- Declining, bent like a bow with the arch downwards
- Decomound, doubly compound, or containing within a common calyx, smaller calyxes common to several flowers
- Decumbent, lying down (287)
- Decurrent leaf, having its base running down the stem (101)
- Decussated, crossed at right angles
- Deflected, bowed or bent down
- Deltoid, trowel-shaped (315)
- Dentate, toothed (86)
- Denticulate, set with little teeth (87)
- Dichotomous, forked (16)
- Didymous, double (316)
- Diffuse, spreading (59)
- Digitate, finger-like (266)
- Dioiceous, male and female flowers, growing on different plants (156)
- Dipetalous, of two petals
- Diphyllous, two leaved
- Disk, the whole surface of a leaf or flower
- Divaricating, straddling (118)
- Diverging, making a right angle
- Drupe, a milky seed vessel, containing a nut or stone
- Duplicate, doubled
- Echinated, set with prickles
- Elliptic, oval (426)
- Elliptic-lanceolate, narrow oval (304)
- Emarginate, notched at the end
- Ensiform, sword-shaped (180)
- Erose, gnawed
- Exserted, protruded, opposed to inclosed
- Extra-foliolate, growing under the leaves
- Farina, see Pollen
- Fascicled, bundled (217)
- Fastigiate, flat topped
- Favose, honey-combed
- Feathered, downy
- Female flowers, containing pistils but no stamens
- Fibres, woody strings or nerves
- Filament, the thread-like part of a stamen supporting the anther
- Filiform, thread-shaped (199)
- Finibriated, fringed
- Fistulous, hollow

DICTIONARY OF BOTANICAL TERMS.

Flexuose, zig-zag, winding
 Floral leaf, the leaf next the flower sometimes mistaken for the calyx
 Floret, the separate little flower of an aggregate flower
 Foliaceous, leafy
 Frond, when the stem, root, and leaf, are all in one, as in ferns and fuci (462)
 Fruit-stalk, a stalk bearing flowers but not leaves
 Fruticose, shrub-like
 Fuliginous, sooty
 Fureated, forked
 Furrowed, marked with deep lines longitudinally
 Fusiform, spindle-shaped (332)
 Geniculated, knee-jointed
 Germe, or seed bud, the rudiment of the fruit yet in embryo
 Gibbous, bulging (287)
 Gills, the thin plates on the under side of a mushroom
 Glands, secretory vessels
 Glandular, formed of glands (90)
 Glaucous, grey blueish green (210)
 Globose, globular
 Glomerate, flowers growing close together in a globular form (118)
 Glume, husk (22)
 Granulated, bearded
 Hastate, halbert-shaped (105)
 Hastate-sinuated, jagged halbert-shaped (118)
 Harbaceous, succulent and tender, in opposition to woody (1)
 Hermaphrodite flowers, containing both stamen and pistils
 Hirsute, rough with strong hairs
 Hispid, bristly (278)
 Husk, dry semi-transparent membranes, forming the calyx and blossoms of grasses
 Imbricated, tiled (108)
 Imperfect flowers, such as want either another or pistil, or both
 Ineise, serrated, gashed (9)
 Incrassated, thickened upwards
 Ineumbent, leaning or resting against
 Incurved, bowing inwards
 Indented, hollowed or deeply scolloped
 Inflated, distended, blown up (278)
 Inflected, bent inwards
 Infundibuliform, funnel-shaped
 Internode, the space between the joints (1) (278)
 Intrafoliaceous, within the leaves
 Involuerum, the calyx of an umbel
 Involueret, a partial involuerum (234)
 Involute, rolled inwards
 Interrupted, divided by intervals of smaller flowers (250)

Keeled, bent like the keel of a ship or boat
 Labiated, having lips
 Lacinated, jagged (400)
 Lactescent, milky
 Laminated, the flat surface of leaves lying close upon each other
 Lanceolate, spear-shaped (59)
 Lanceolate-ovate, spear-egg-shaped (91)
 Lateral, growing from the side (90)
 Leadet, or little leaf, one of the single leaves of a compound leaf
 Legumen, pod
 Lenticleur, spherically convex on both sides
 Lid, a cover to the capsules of mosses
 Lignose, woody
 Limb, the upper flat broad part of the petal is called the limb (86)
 Linear, strap-shaped (95)
 Linear-lanceolate, strap spear-shaped (281)
 Linear-ob-ovate, strap egg-shaped (106)
 Lineated, streaked
 Lip, the upper or under division of a gaping blossom
 Lobed, divided nearly half way down into lobes (93)
 Lucid, transparent
 Lunated, crescent-shaped (442)
 Lyrate, lyre-shaped (100)
 Male flowers, --- flowers containing stamens but no pistils
 Marginate, bordered (120)
 Mid-rib, the principal nerve in a leaf
 Monopetalous, (flower) the whole in one petal
 Monophyllous, one leaved
 Monospermous, one seeded
 Mucronated, sharp-pointed at the end (59)
 Multangular, many-cornered
 Muricated, covered with sharp points
 Navicular, boat-shaped
 Neetary, honey eup, a part of a flower designed to secrete and contain honey (174)
 Neutral flowers, without stamen or pistils and producing no seeds
 Node, knot
 Obconic, inversely conic (1)
 Obcordate, inversely heart-shaped (111)
 Ob-ovate, inversely egg-shaped, that is, with the small end downwards (59)
 Obsolete, indistinct
 Obtuse, blunt (22)
 Octofid, eight-elefit
 Operculum, lid
 Orbiculate, round and flat
 Osseus, hard as bone
 Ovate, egg-shaped (9)
 Ovate-lanceolate, egg-spear-shaped (276)
 Ovato-oblong, egg-shaped
 Ovato-subulate, egg-awl-shaped
 Palate, the inner part of the mouth of gaping blossoms

- Paleaceous, chaffy
 Palmate, hand-shaped (429)
 Panduriform, fiddle-shaped
 Paucile, an assemblage of flowers growing upon subdivided fruit stalks, as in oats and some grasses
 Papilionaceous, butterfly-shaped
 Papillose, pimpled
 Parasitical, growing on some other plant, not on the ground
 Partial, expressive of a part, not of the whole
 Partite, divided
 Patens, expanding
 Pectinated, comb-like
 Pedate, bird-footed
 Pedicle, a partial peduncle, or little fruit stalk (88)
 Pedunculate, growing on a fruit stalk
 Peduncle, fruit-stalk (98)
 Peltate, target-shaped (126)
 Pendulous, hanging-down (111)
 Pentagonal, five-cornered
 Pentapetalous, five-petaled
 Pentaphyllous, five-leaved
 Perennial, continuing for several years
 Perfect flower, having both stamens and pistils
 Perforated leaf, full of small holes very apparent when held up to the light (359)
 Perfoliate, the stem passing through the leaf (128)
 Perianth, cup or calyx
 Pericarp, seed vessel (102)
 Perichaetal-leaves, leaves surrounding the base of the fruit stalk in mosses (499)
 Permanent, applied to calyxes &c. remaining on the plant till the fruit is ripe
 Personate blossom, gaping
 Petaliform, resembling a petal
 Petals, the coloured leaves which constitute the blossom
 Petiolate, having leaf-stalks
 Petiole, a leaf-stalk (277)
 Pileus, the cap of a fungus (539)
 Pilose, hairy
 Pinnatifid, feather-cleft (368)
 Pinnated, winged, a compound leaf formed of several little leaves fastened to each side of it (94)
 Pinnulate, when each pinna is subdivided
 Pistil, a part of the flower standing in the centre and composed of the germ, style, and summit
 Pitted leaf, when the surface lies in hollows
 Plaited, folded like a fan
 Plicate, plaited
 Plumose, feathered (83)
 Pod, a seed vessel
 Pollen, the dust contained in the anther of flowers
 Polypetalous, many-petaled
 Projecting, appearing above the corolla (17)
 Procumbent, trailing (9)
 Proliferous, when one blossom grows out of another (184)
 Prominent, projecting
 Prostrate, lying on the ground (163)
 Protruding, standing out of the blossom
 Pubescent, covered with soft wool or hair (101)
 Punctated, dotted
 Quinate, growing in fives (243)
 Raceme, bunch (76)
 Radiate, compound flowers in which the florets in the centre differ from those of the circumference
 Radical, issuing immediately from the root (95)
 Ralii, the outer florets of a radiate compound flower
 Ramose, branched
 Receptacle, the base upon which the other parts of a flower are placed
 Reclining, bent downwards so that the point of the leaf is lower than the base
 Recurved, curved downwards
 Reflected, bent back (59)
 Reniform, kidney-shaped (230)
 Repens, creeping
 Replicated, folded or plaited
 Reticulated, veined like net-work
 Revolute, rolled back (92)
 Retroflexed, distorted (87)
 Rhomboid-triangular, three cornered diamond-shape (118)
 Rhomboid-ovate, egg-diamond shaped (118)
 Ringent, gaping (108)
 Root-leaves, leaves proceeding immediately from the root without the intervention of a stem
 Rostrate, beaked (506)
 Rotate, wheel-shaped
 Rugose, wrinkled
 Runcinate, notched (324)
 Rundle, see Umble
 Sagittate, arrow-shaped (319)
 Salver-shaped, a blossom tubular at bottom, flat and expanding at top (124)
 Scaber, rough like a file (121)
 Scape, stalk (86)
 Scions, shoots (100)
 Scariose, skinny (101)
 Securiform, shaped like an axe
 Semibifid, half-cleft (219)
 Semicylindrical, half a cylinder divided lengthwise (118)
 Seminal leaves, arising immediately from the seed-lobes
 Serrated, toothed like a saw (426)
 Serrulated, very minutely serrated (220)
 Sessile, sitting (277)

DICTIONARY OF BOTANICAL TERMS.

Setaceous, bristle-shaped (283)
 Setose, bristly
 Sexangular, six-sided
 Shaggy, rough with stiff hairs
 Sheath, a membrane investing a stem or branch (22)
 Shrubby, perennial with several woody stems
 Silicule, a little pod (396)
 Silique, pod (324)
 Simple, undivided
 Sinuated, indented (103)
 Sinuate-dentate, indented and toothed (118)
 Sitting, leaves having no leaf-stalk, or flowers without a fruit-stalk
 Solitary, single (99)
 Spadix, sheathed fruit-stalk (433)
 Spathe, sheath
 Spatulate, battle-dore-shaped (214)
 Spike, sessile flowers placed alternately on each side of the fruit-stalk (9)
 Spiklet, a little spike (420)
 Spike-stalk, the long stalk on which the flowers grow; strip an ear of wheat, what remains is a spike-stalk
 Spindle-shaped, gradually tapering
 Spinose, thorny
 Spiral, twisted like a cork-screw
 Spokes, the fruit-stalks of flowers collected into umbels
 Spur, shaped like the spur of a cock (414)
 Squamose, scaly
 Stamens, long slender bodies placed in the flower cup round the pistil
 Standard, the upright petal of a butterfly-shaped blossom (350)
 Stellate, starry, leaves surrounding the stem in a whirl
 Stem-leaves, growing immediately upon the stem
 Stoloniferous, putting forth suckers (144)
 Sterile, barren
 Stigma, the summit of the pistil (420)
 Stipitate, standing on a pedicle
 Stipule, small leaves or scales at the base of the leaf stalk (100)
 Strap-shaped, long and narrow
 Striated, scored with slender lines
 Style, the middle portion of the pistil, connecting the stigma with the germ
 Subcymose, somewhat tufted (118)
 Subramnose, a little branched
 Subserrated, somewhat serrated (278)
 Subulate, awl-shaped (229)
 Succulent, juicy
 Subsessile, almost sessile (121)
 Suffrutescent, somewhat woody
 Summit, the top of the pistil

Suture, seam
 Sword-shaped, long, narrow, and pointed
 Target, a circular kind of fructification on some lichens
 Tendril, a spiral shoot (310)
 Terminal, ending a branch or stem (108)
 Ternate, leaves, growing three together from the same point (88)
 Tessellate, chequered
 Tiled, one leaf or scale partly covering another
 Tomentose, cottony (159)
 Trapeziforme, a flat leaf having four unequal sides
 Trifid, three-cleft (17)
 Trivalved, three valved
 Truncate, lopped (282)
 Tunicate, coated
 Turbinate, top-shaped
 Umbel, a composition of flowers, in which a number of slender fruit-stalks proceed from the same centre, like the spokes of an umbrella (131)
 Uncinate, hooked at the end
 Undate, waved
 Undulated, wavy (95)
 Unequal florets, when those in the circumference of an umbel, are larger than those in the centre
 Ungulate, hoof-shaped
 Univalve, one-valved
 Urceolate, pitcher-shaped
 Vaginate, sheathed
 Valves, the several pieces which compose a capsule, also the leaflets composing the calyx and corolla, in grasses
 Veil, the calyx of mosses
 Ventricose, distended
 Verrucose, warty
 Verticillate, growing in whorls (182)
 Vesicles, bladders
 Villouse, soft-haired (278)
 Volva, wrapper
 Whirls, leaves or flowers, surrounding the stem in a ring (287)
 Wings, the lateral petals of a butterfly-shaped blossom
 Winged leaf, formed of many little leaves growing from each side the stalk
 Wing-cleft, a leaf cut deeply down the middle
 Woody, opposed to herbaceous
 Woolly, clothed with a pubescence resembling wool
 Wrapper, a tough membrane, entirely investing some of the fungi in their young state (567)

CLASSES AND ORDERS.

CLASSES.

Monandria, (from *μονος* one, and *ανηρ* a male) the first class, comprehending plants with one stamen only
 Diandria, (from *δεις* two, and *ανηρ* a male) plants with two stamens
 Triandria, (from *τρεις* three, and *ανηρ* a male) plants with three stamens
 Tetrandria, (from *τεσσαρες* four, and *ανηρ* a male) plants with four stamens
 Pentandria, (from *πεντε* five, and *ανερ* a male,) plants with five stamens
 Hexandria, (from *εξ* six, and *ανερ* a male) plants with six stamens
 Heptandria, (from *επτα* seven, and *ανερ* a male) plants with seven stamens
 Octandria, (from *οκτω* eight, and *ανερ* a male) plants with eight stamens
 Enneandria, (from *ενενα* nine, and *ανερ* a male) plants with nine stamens
 Decandria, (from *δεκα* ten, and *ανερ* a male) plants with ten stamens
 Dodecandria, (from *δωδεκα* twelve, and *ανερ* a male) plants with twelve stamens
 Icosandria, (from *εικοσι* twenty, and *ανερ* a male) plants with twenty stamens
 Polyandria, (from *πολυς* many, and *ανερ* a male) plants with many stamens
 Didynamia, (from *δεις* two, and *δυναμις* power) plants with four stamens, two longer and two shorter
 Tetradynamia, (from *τεσσαρες* four, and

δυναμις power) plants with six stamens four longer, and two shorter
 Monadelphia, (from *μονος* one, and *αδελφος* a brotherhood) plants with the stamens all united
 Diadelphia, (from *δεις* two, and *αδελφος* a brotherhood) plants with the stamens in two bodies
 Polyadelphia, (from *πολυς* many, and *αδελφος* a brotherhood) plants with the stamens in three, or more parcels
 Syngenesia, (from *συν* together, and *γενεσις* generating) plants with the anthers united into a cylinder
 Gynandria, (from *γυνη* a woman, and *ανερ* a male) plants in which the stamens grow upon the pistil
 Monœcia, (from *μονος* alone, and *οικος* a house, plants producing male and female flowers separate, on the same individual
 Diœcia, (from *δεις* two, and *οικος* a house) plants producing male and female flowers on distinct individuals
 Polygamia, (from *πολυς* many, and *ανερ* a male) plants bearing hermaphrodite flowers, with male or female flowers, or both
 Cryptogamia, (from *κρυπτω* to hide, and *γαμος* a marriage) plants in which the fructification is concealed

ORDERS.

Monogynia, (from *μονος* alone, and *γυνη* a female) plants with one pistil only
 Digynia, (from *δεις* two, and *γυνη* a female) plants with two pistils
 Trigynia, (from *τρεις* three, and *γυνη* a female) plants having three pistils

Tetragynia, (from *τεσσαρες* four, and *γυνη* a female) plants with four pistils
 Pentagynia, (from *πεντε* five, and *γυνη* a female) plants with five pistils
 Heptagynia, (from *επτα* seven, and *γυνη* a female) plants with seven pistils

ORDERS.

- Decagynia, (from *δεκα* ten, and *γυνη* a female) plants with ten pistils
- Dodecagynia, (from *δωδεκα* twelve, and *γυνη* a female) plants with twelve pistils
- Polygynia, (from *πολυς* many, and *γυνη* a female) plants with many pistils
- Gymnospermia, (from *γυμνος* naked, and *σπερμα* seed) plants with four naked seeds
- Angiospermia, (from *αγγος* a vessel, and *σπερμα* seed) plants of the 14th class, in which the seeds are enclosed in a capsule
- Siliiculosa, (the dim. of *siliqua* a pod) plants of the 15th class in which the seed vessels are generally roundish
- Siliquosa, (from *siliqua* a pod) plants of the 15th class, in which the seed vessel is very long
- Polygamia *Æqualis*, plants of the 19th class, in which all the florets are perfect, and the whole flower regular
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