



sula of India. Bengal, (Serampore.) &c. Fl. small, purple, and fr. nearly the whole year.

3. *articularis*, L. (DC. *pr.* 4, p. 555;—*G. Don's Mill. dict.* 3, p. 621;—*W. and A. pr.* 1, p. 438;—*Roxb. fl. ind.* 1, p. 572; *ed. Carey*, 1, p. 378;—*J. Grah. Cat. B. pl.* p. 93.) © Peninsula of India. Amherst. Fl. small, white, and fr. nearly the whole year.

? 4. *semirecta*, Roxb. (*fl. ind.* 1, p. 371; *ed. Carey*, 1, p. 377;—DC. *pr.* 4, p. 556;—*G. Don's Mill. dict.* 3, p. 621.) ♂ Sumatra. Fl. small, white. In H. C. G. fl. R. S.; fr. C. S. (*Roxb.*)

? 5. *costata*, Roxb. (*fl. ind.* 1, p. 370; *ed. Carey*, 1, p. 376, excl. syn. L.—DC. *pr.* 4, p. 556;—*G. Don's Mill. dict.* 3, p. 621.) ♂ 2. Fl. very small, pale rose-coloured. In H. C. G. fl. and fr. the whole year. (*Roxb.*)

KNOXIA, L. (DC. *pr.* 4, p. 569;—*G. Don's Mill. dict.* 3, p. 628;—*W. and A. pr.* 1, p. 439.)

1. *corymbosa*, Willd. (*Sp.* 1, p. 582;—*W. and A. l. c.*—*K. teres*, DC. *l. c.*;—*G. Don. o. c. p.* 629.—*K. umbellata*, *Herb. Banks*;—*Spreng.*—*K. exserta*, DC. *l. c.*;—*G. Don. l. c.*—*Spermacoce teres*, *Roxb. fl. ind.* 1, p. 367; *ed. Carey*, 1, p. 373.—*S. exserta* *Roxb. fl. ind.* 1, p. 368; *ed. Carey*, 1, p. 374.—*S. sumatrensis*, *Retz.*; according to Cham. and Schlecht.) 5 Circars. Dindygul. Colamala. Courtallum. Bengal, (Serampore.) Fl. small, white, tinged with purplish, R. S.; fr. C. S.

2. *lævis*, DC. (*pr.* 4, p. 570;—*G. Don's Mill. dict.* 3, p. 629.—*Spermacoce lævis*, *Roxb. fl. ind.* 1, p. 368; *ed. Carey*, 1, p. 374;—*Wight. icon.* 1, p. 193.—*S. Roxburghiana*, *Schult. Mant.* 3, p. 199.—*S. Roxburghii*, *Spreng.*) ♂ Fl. middle-sized, pale rose. Interior of Bengal. In H. C. G. fl. R. S.; fr. C. S. (*Roxb.*)

SERISSA, Commers. (DC. *pr.* 4, p. 575;—*G. Don's Mill. dict.* 3, p. 633;—*W. and A. pr.* 1, p. 440.)

1. *fetida*, Commers. (DC. *l. c.*;—*G. Don. l. c.*;—*W. and A. o. c. p.* 441;—*Roxb. fl. ind.* 1, p. 579; *ed. Carey*, 2, p. 268;—*J. Grah. Cat. B. pl.* p. 93.—*Dysoda fasciculata*, *Lour.*—*D. fetida*, *Salisb.*—*Buchosia coprosmoides*, *L'Herit.*—*Lycium japonicum*, *Thunb. fl. jap. t.* 17;—*B. M.* 11, t. 361.—*L. indicum*, *Retz.*—*L. foetidum*, *L. f. suppl.*) ভরাঙ্গি *Taramuni*. 5 China. Japan. Cultivated in Cochin China. India. Mauritius. W. Indies. &c. Fl. small, white, foetid, C. S.; fr. March.

β. *plena*.—Fl. double, throughout the year.

HYDROPHYLAX, L. fil. (DC. *pr.* 4, p. 576;—*G. Don's Mill. dict.* 3, p. 633;—*W. and A. pr.* 1, p. 441.)

1. *maritima*, L. fil. (DC. *l. c.*;—*G. Don. l. c.*;—*Roxb. Corom.* 3, t. 233; *fl. ind.* 1, p. 373; *ed. Carey*, 1, p. 380;—*W. and A. l. c.*;—*J. Grah. Cat. B. pl.* p. 93.—*Sarissus anceps*, *Gärtn. fr.* 1, p. 118, t. 25, f. 4.—*Diodia orientalis*, *Kön. MSS.*) 2. Sand-hills along the shores of Coro-



mandel and Malabar. Fl. small, pale rose-coloured, and fr. the whole year.

- * *Cephalanthus Sarandi*, Cham. and Schlecht. 5 Brazil.—*Democritea serissoides*, DC. 5 China.—*Borreria globularioides*, Cham. and Schlecht. 5 Equinoctial Brazil.—*B. verticillata*, Meyer. 5 Jamaica, Trinidad.—*B. podoccephala*, DC. 5 Mexico.—*B. distans*, Cham. and Schlecht. 4. Mexico.—*Spermacoe riparia*, Cham. and Schlecht. 4. Brazil, on the banks of Rio Negro.—*S. longifolia*, Aubl. 5 Guiana.—*Hexasepalum angustifolium*, Bartl. 5 Mexico.—*Diodia scandens*, Swz. 5 ∪ St. Domingo.—*D. sarmentosa*, Swz. 5 ∪. Jamaica.—*D. grandiflora*, DC. 5 St. Domingo.—*D. discolor*, DC. 5 Surinam.—*Triodon anthospermoides*, Cham. and Schlecht. 5 Equinoctial Brazil.—*Crusea eubra*, Cham. and Schlecht. (*Spermacoe strigosa*, Sims.; B. M. 38, t. 1558.) © Cuba, Vera Cruz.—*C. coccinea*, DC. 4. New Spain.—*Richardsonia seabra*, St. Hil. 4. Rio Janeiro.—*R. adscendens*, DC. 4. Mexico.—*R. Hünkeana*, DC. 4. Mexico.—*Knoxia mollis*, R. Br. 5 Hindoosthan. Nepal. Circars.—*Psyllocarpus asparagoides*, Mart. 5 Brazil.—*P. schizanguis*, Lindl. 5 Mexico.—*P. sagreanus*, Lindl. 5 Havannah.—*Stelia thymoides*, Cham. and Schlecht. 4. Brazil.—*Machaonia brasiliensis*, Cham. and Schlecht. 5 Brazil.—*Ernedeia littoralis*, Swz. 5 W. Indies.—*Cuncea trifida*, Buch. 4. Nepal.—*Scyphiphora hydrophylacea*, Gärtn. 5 Moluccas.

M. OPERCULARIÆÆ, A. Rich.

(*DC. pr. 4, p. 614.*)

MYRIONEURON, R. Br.

1. *nutans*, Wall. 5 Khassya Hills, 1822.

- * *Lipostoma campanuliflorum*, D. Don.; B. M. 55, t. 2840. 4. Rio Janeiro.—*L. capitatum*, D. Don. 4. Brazil.

Incertæ sedis.

- * *Canephara axillaris*, Lam. 5 Madagascar.—*Deppea ketyotidea*, DC. 5 Mexico.—*Psilobium nutans*, Jack. 5 Sumatra.—*Alseis floribunda*, Schott. 5 Brazil.—*Breonia madagascariensis*, A. Rich. 5 Madagascar.—*Lecananthus erubescens*, Jack. 5 Singapore.—*Jackia ornata*, Wall. pl. as. rar. 3, t. 293. L. 5 Singapore.

ORDER CLXXXII.—LYGODYSOIDEACEÆ, Bartl.—Lindl. Nat. Syst.
p. 247.

Twining shrubs, of one genus, *Lygodysodea*, Ruiz. and Pav. and 2 species, one Peruvian, the other Mexican. Properties unknown.

- * *Lygodysodea ciliata*, Bartl. 5 ∪ Mexico.

ORDER CLXXXIII.—LONICERACEÆ (CAPRIFOLIACEÆ, Lindl.
Nat. Syst. p. 247.)

THE HONEYSUCKLE TRIBE.

Herbs or shrubs, often twining, seldom arborescent, by Lindl. referred to 15 genera. Of these, DC. pr. enumerates 32 species from N. America; 15 from Europe; 14 from S. America, Mexico, and the W. Indies; 9 from Japan; 5 or more from China; 4 from Siberia; 3 from N. Holland and the South Sea Islands; 3 from Iberia; 2 from N. Africa; 2 from the Canaries; 1 from Abyssinia; 1 from Terra Nova; 1 from Dahuria; and 1 from Tartary. In the E. Indies have been discovered, according to DC., Wall. Cat. and Royl. ill., 62 species; viz., 1 of *Triosteum*; 25 of *Lonicera*; 1 of *Leycesteria*; 1 of *Abelia*; 1 of *Aidia*, (Lour.); 2 of *Mastixia*; 1 of *Diacarpium*; 3 of *Polyosma*; 6 of *Sambucus*; and 22 of *Viburnum*; all natives of the Himalayas, the Khassya Mountains, the Neelgherries, the Mountains of Penang, Java and Cochin China, and several of them also common to China and Japan. The Elders and Honeysuckles are well known. Properties in general unimportant.

LONICERA, L. (DC. pr. 4, p. 330;—G. Don's Mill. dict. 3, p. 444;—W. and A. pr. 1, p. 389.) *Honeysuckle*.

1. *Periclymenum*, L. (DC. o. c. p. 331;—G. Don. o. c. p. 445;—E. B. 12, t. 800;—Roxb. H. B. p. 15.—*Periclymenum vulgare*, Mill. dict. No. 6.—*Caprifolium distinctum*, Mönch.—C. *Periclymenum*, Röm. and Sch.—C. *sylvaticum*, Lam.) *Common Honeysuckle. Woodbine*. 5 (Hedges, groves, and thickets of middle Europe. Fl. large, deep rose-buff coloured, H. and R. S.; fr. 0.
2. *sempervirens*, Ait. (DC. pr. 4, p. 332;—G. Don's Mill. dict. 3, p. 446;—Roxb. H. B. p. 15;—J. Grah. Cat. B. pl. p. 86.) *Trumpet Honeysuckle*. 5 (N. America, in stony dry woods, from New York to Carolina.
β. *minor*, Ait. (B. M. 42, t. 1753;—B. Reg. 7, t. 556.) Fl. large, deep red, March and April; fr. 0.
3. *macrantha*, DC. (pr. 4, p. 333;—G. Don's Mill. dict. 3, p. 446.—L. *japonica*, Wall.;—Roxb. fl. ind.; ed. Carey, 2, p. 174, excl. syn.—*Caprifolium macranthum*, D. Don. pr. fl. nep. p. 140.—*Xylosteon scandens*, Buch. MSS.) 5 (Khassya Mountains, Nepal. Fl. large, white, becoming yellow, sweet-scented, March and April; fr. 0.
4. *japonica*, Thunb. (fl. jap. p. 89;—G. Don's Mill. dict. 3, p. 447.—L. *flexuosa*, Lodd. B. Cab. t. 1037;—B. Reg. 9, t. 712; not Thunb.—L. *chinensis*, Wats. dendr. brit. t. 117;—DC. pr. 4, p. 333; excl. syn. Wall.—B. M. 61, t. 3316;—J. Grah. Cat. B. pl. p. 87.—*Nin-tōo japonica*, Swt.) 5 (Japan, China. Fl. large, white, gradually changing to a golden yellow, purple-dotted, delightfully fragrant, more or less, throughout the year; fr. 0.

5. *Leschenaultii*, Wall. (*Roxb. fl. ind.*; ed. Carey, 2, p. 178;—*DC. pr. 4*, p. 334;—*G. Don's Mill. dict. 3*, p. 447;—*W. and A. pr. 1*, p. 389;—*J. Grah. Cat. B. pl. p. 37*.) 5 Neelgherries. Fl. large, white, becoming yellow, sweet-scented, March and April; fr. 0.
- SAMBUCUS*, Tournef. (*DC. pr. 4*, p. 321;—*G. Don's Mill. dict. 3*, p. 436;—*W. and A. pr. 1*, p. 387.)
1. *Ebulus*, L. (*DC. o. c. p. 5*;—*G. Don. l. c.*;—*Roxb. H. B. p. 22*;—*E. B. 7*, t. 475.—*S. humilis*, Lam.) Dwarf-elder. 4. Cultivated and fertile places in Europe, even to Caucasus. Fl. smallish, dull blood-red, R. S.; fr. C. S. (*Roxb.*) Its qualities are violently purgative, sometimes emetic. The whole plant is foetid.
 2. *nigra*, L. (*DC. l. c.*;—*G. Don. l. c.*;—*Roxb. H. B. p. 22*;—*E. B. 7*, t. 476.—*S. vulgaris*, Lam.) Common Elder. 5 Europe. Caucasus. Siberia. Fl. small, white. Was introduced into H. C. G. in 1799, but had not fl. up to 1814.
- VIBURNUM*, L. (*DC. pr. 4*, p. 323;—*G. Don's Mill. dict. 3*, p. 438;—*W. and A. pr. 1*, p. 388.)
1. *punctatum*, Buch. (*D. Don. pr. fl. nep. p. 142*;—*DC. pr. 4*, p. 324;—*G. Don's Mill. dict. 3*, p. 439.—*V. odoratum*, Wall. MSS.) 5 Nepal. Fl. small, white, fragrant, March and April; fr. 0.
 2. *Colebrookianum*, Wall. (*Cat.*—*DC. pr. 4*, p. 325;—*G. Don's Mill. dict. 3*, p. 439.) 5 Khassya Mountains. In H. C. G. Fl. ?
 3. *cotinifolium*, D. Don. (*pr. fl. nep. p. 141*;—*DC. pr. 4*, p. 328;—*G. Don's Mill. dict. 3*, p. 441;—*B. Reg. 19*, t. 1650.—*V. polycarpum*, Wall. Cat.;—*DC. o. c. p. 328*;—*G. Don. o. c. p. 443*.) 5 Himalayas, at elevations of from 5000 to 7000 f., in 30° N. lat. Fl. small, white, tinged with rose. Has very much the appearance of *V. Lantana*, L., the English Wayfaring-tree. (Lindl.) In H. C. G. Fl. ?
 4. *adenophyllum*, Wall. MSS. In H. C. G. Fl. ? Native place ?
-
- * *Diervilla japonica*, DC. 5 Japan.—*Lonicera Caprifolium*, L.; *E. B. 12*, t. 799. 5 Middle and South Europe.—*L. etrusca*, Santi. 5 Europe.—*L. impleza*, Ait. *B. M. 17*, t. 640. 5 Sicily.—*L. flava*, Sims. *B. M. 32*, t. 1318. 5 S. Carolina.—*L. sempervirens*, Ait. *a. major*; *B. M. 20*, t. 781.—*L. confusa*, DC. (*L. japonica*, Andr.; *B. Reg. 1*, t. 70, not Thunb.) 5 China, Japan.—*L. longiflora*, DC. (*Caprifolium longiflorum*, Lindl. *B. Reg. 15*, t. 1232.) 5 China. Nepal.—*L. Telfairii*, Hook. and Arn. 5 China.—*L. Xylosteum*, L.; *E. B. 13*, t. 916. 5 Europe.—*L. gibbosa*, Willd. 5 Mexico.—*L. Mociniana*, DC. 5 Mexico.—*Abelia chinensis*, R. Br. 5 China.—*Sambucus chinensis*, Lindl. 4. China.—*S. australis*, Cham. and Schlecht. 5 Brazil.—*S. racemosa*, L.; Jacq. icon. rar. 1, t. 59. 5 S. Europe.—*S. ebuloides*, Desv. 5 Canton.—*Viburnum Tinus*, L.; *B. M. 2*, t. 38. 5 S. Europe. (*Laurestina*).—*V. integerrimum*, Wall. 5 Penang.—*V. acuminatum*, Wall. 5 Neelgherries.—*V. nervosum*, Hook. and Arn. 5 China.—*V. fetidum*, Wall. pl. as. rar. 1, t. 61. 5 Taong-



Dong.—*V. odoratissimum*, Ker.; B. Reg. 6, t. 456. 5 China.—*V. Lantana*, L.; E. B. 5, t. 331. 5 Europe.—*V. Mullaha*, Buch. (*V. stellatum*, Wall. pl. as. rar. 2, t. 169.) 5 Deyrah-Dhoon.—*V. Opulus*, L.; E. B. 5, t. 332. 5 Europe.—*V. microcarpum*, Cham. and Schl. 5 Mexico.

ORDER CLXXXIV.—GALIACEÆ, Lindl. Nat. Syst. p. 249.

THE MADDER TRIBE.

Herbs, by Lindl. referred to 7 genera, of these, DC. assigns 112 species to Europe; 43 to S. America, Mexico, and the W. Indies; 16 to N. America; 12 to the Levant; 10 to Tauria; 10 to S. Africa; 8 to Persia; 8 to N. Africa; 3 to Caucasus; 3 to Iberia; 3 to the Canaries; 2 to New Holland; 1 to Japan; 1 to Arabia; and 1 to Tartary. In the E. Indies have been discovered, according to DC., W. and A., Wall. Cat., and Royle ill., 17 species, viz., 5 of *Rubia*; 1 of *Asperula*; and 11 of *Galium*, mostly natives of the Himalayas, the Khassya Mountains and Kunawur; two from Java, 1 from Dindygul-hills and 1 from Cochin China. *Madder* is the only product of the order.

SHERARDIA, Dill. (*DC. pr.* 4, p. 581;—*G. Don's Mill. dict.* 3, p. 637.)

1. *arvensis*, L. (*DC. l. c.*;—*G. Don. l. c.*;—*E. B.* 13, t. 891.) ☉ Europe. Tauria. Fl. small, purplish-blue, Feb.; fr. March.

ASPERULA, L. (*DC. pr.* 4, p. 581;—*G. Don's Mill. dict.* 3, p. 637.)

1. *arvensis*, L. (*DC. l. c.*;—*G. Don. l. c.*) ☉ Europe. Fl. small, blue, March.

CRUCIANELLA, (*DC. pr.* 4, p. 586;—*G. Don's Mill. dict.* 3, p. 640.)

1. *angustifolia*, L. (*DC. l. c.*;—*G. Don. o. c. p.* 641.) ☉ From Spain and Mauritiana to Tauria. Fl. small, yellowish-green, March.

RUBIA, Tournef. (*DC. pr.* 4, p. 588;—*G. Don's Mill. dict.* 3, p. 642;—*W. and A. pr.* 1, p. 442.)

1. *cordifolia*, L. (*DC. l. c.*;—*G. Don. l. c.*;—*W. and A. l. c.*;—*Wight. icon.* 1, t. 187;—*J. Grah. Cat. B. pl.* p. 93.—*R. Munjista, Roxb. fl. ind.* 1, p. 374; *ed. Carey*, 1, p. 383;—*DC. l. c.*;—*G. Don. l. c.*) 2. Neelgherries. Dindygul. Mahableshwur. Taong-Dong. Khassya Mountains. Bhootan. Nepal. Japan. Siberia. Roots, stems and larger branches, (*Indian Madder*,) used to dye red with. Was introduced into H. C. G. in 1801, but had not fl. up to 1814.

GALIUM, Scop. (*DC. pr.* 4, p. 593;—*G. Don's Mill. dict.* 3, p. 647;—*W. and A. pr.* 1, p. 442.)

1. *anglicum*, Huds. (*DC. o. c. p.* 607;—*G. Don. o. c. p.* 657;—*E. B.* 6, t. 384.) ☉ England. France. Sicily. Caucasus. Fl. very small, pale greenish-yellow, Feb.

2. *tricornis*, Wither. (*DC. pr.* 4, p. 608;—*G. Don's Mill. dict.* 3, p. 658;—*E. B.* 23, t. 1641.) ☉ Cornfields of Europe. Caucasus. Fl. very small, cream-coloured, Feb. and March.



3. *Aparine*, L. (DC. l. c.;—G. Don. l. c.;—E. B. 12, t. 816.) ☉
Hedges and fields of Europe. N. Asia, and N. America. Fl. small, pale
buff, Feb. and March.

ORDER CLXXXV.—CALYCERACEÆ, Lindl. Nat. Syst. p. 251.

Herbs of 3 genera, and 10 species, all natives of S. America. Proper-
ties unknown.

- * *Calycera Cavanillesii*, Rich. ☿. Chili.—*C. balsamitæfolia*, Rich. ☿.
Chili.—*Boopis anthemoïdes*, Juss. ☿. Buenos Ayres.—*Acicarpha spa-
thulata*, R. Br. ♂ Rio Janeiro.

ORDER CLXXXVI.—MATRICARIACEÆ, (COMPOSITÆ, Vaill.—
DC. pr. 5, p. 4.—Lindl. Nat. Syst. p. 251.)

Herbs, oftener perennial, or shrubs, or more seldom trees, spread all
over the globe. DC. pr. with addenda, enumerates, under 898 genera, the
following species, viz.

	Vernoniæ.	Eupatoriæ.	Asteriæ.	Senecioniæ.	Cynaræ.	Mutisiæ.	Nassauviæ.	Cichoriæ.	Total.
S. America, Mexico, and the W. I.	340	520	458	945	10	167	115	37	2592
Indies, about,	21	10	216	877	373	26	0	10	1533
S. Africa,	0	14	76	293	310	0	0	396	1088
Europe,	12	65	328	290	18	1	1	80	795
N. America,	65	32	206	217	54	10	0	65	650
E. Indies,	1	6	106	224	3	1	0	2	343
New Holland, and the South Sea Islands,	0	2	27	94	58	1	0	37	219
Siberia,	0	1	21	64	83	0	0	48	217
Dahuria, Iberia, Tauria & Caucasus,	0	1	15	54	70	0	0	32	172
Orient,	0	1	21	47	42	0	0	35	146
N. Africa,	18	5	20	65	0	2	0	3	113
Madagascar,	1	0	6	22	68	0	0	12	110
Persia,	0	0	11	26	11	0	0	26	74
Canaries, Azores and Madeira,	4	1	22	27	0	0	0	5	59
Mascarenhas Islands,	0	3	12	28	13	2	0	9	67
China,	10	1	22	12	2	1	0	3	51
Nubia, Senegal, Guinea and Congo,	2	1	17	10	6	1	0	3	40
Arabia,	0	1	6	9	3	2	0	10	31
Japan,	0	0	6	3	0	0	8	0	17
Magellan Straits,	0	0	1	5	0	0	0	8	14
Juan Fernandez,	0	0	6	4	0	0	0	0	10
St. Helena,	2	0	5	3	0	0	0	0	10
Timor,	2	0	2	5	0	1	0	1	11
Zanzibar and Mozambique,	0	0	0	4	0	0	0	2	6
Falkland Islands,	0	1	0	1	0	0	0	0	2
Melville Island,	0	0	0	1	0	0	0	0	1
Tristan d'Acunha,	0	0	0	1	0	0	0	0	1



The E. Indian Compositæ are distributed among the following genera thus:—

VERNONIÆÆ.

- Oiospermum* ? 1. (Peninsula of India.)
Ethulia, 1. (Bengal, &c.)
Vernonia, 46. (Java. Neelgherries. Nepal, &c.)
Decaneurum, 11. { (Java. Neelgherries. Dindygul. Khassya
Mountains. Moluccas.)
Cyanopis, 3. (Java. Burma. Moluccas.)
Monosis, 1. (Neelgherries.)
Elephantopus, 1. (All India.)

EUPATORIÆÆ.

- Ageratum*, 1. (Bengal, &c.)
Adenostemma, 19. { (Java. Moluccas. Ceylon. Dindygul. Bengal.
Khassya Mountains. Nepal.)
Eupatorium, 9. { (Nepal. Khassya Mountains. Burma. Penang.
1 Cochin China. (Lour.)
Mikania, 2. (Java. Penang. Singapore. Nepal.)
Tussilago, 1. (Himalayas.)

ASTERIÆÆ.

- Aster* ? 1. (Neelgherries ?)
Galatella, 1. (Himalayas.)
Calimeris, 1. (Mussooree.)
Callistephus, 2. (Dindygul.)
Diplopappus, 4. (Nepal. Kemaon.)
Leptocoma, 1. (Nepal.)
Fullertonia, 1. (Kemaon.)
Heterochaeta, 3. (Himalayas.)
Erigeron, 13. { (Nepal. Peerpunjal. Neelgherries. Tanjore.
Bengal. (2 uncertain; Retz. and Lour.)
Rhynchospermum, 1. (Java.)
Stenactis, 2. (Nepal.)
Asteromea, 1. (Java ?)
Myriactis, 5. (Nepal. Java. Neelgherries.)
Microglossa, 1. (Java. Penang. Moluccas.)
Amphirrapis, 7. (Nepal. Khassya Mountains. Ceylon.)
Elepharisperrum, 2. (Peninsula of India.)
Athroisma, 1. (Martaban, at Troglä.)
Sphæranthus, 5. { (Java. Luçon. Penang. Travancore. Bengal.
Khassya Mountains. Negapatam. 1 uncertain, Lour.)
Dicrocephala, 4. (Himalayas. Java.)
Grangea, 1. (Peninsula of India. Bengal, &c.)
Cyathocline, 2. (Nepal. Prome. Madras.)
Rhespis, 2. (Khassya Mountains.)



- Berthelotia*, 1. (Banks of the Jumna.)
- Conyza*, 24. { (Nepal. Khassya Mountains, Oude. Hurdwar.
Martaban, Travancore. (9 uncertain. Lam.
(Roxb.)
- Blumea*, 78. (All over the E. Indies.)
- Pluchea*, 6. (Luçon. Martaban. Mysore. Shrinagur.)
- Epaltes*, 5. (Peninsula of India. Prome.)
- Inula*, 12. (Himalayas. Khassya Mountains. Prome.)
- Vicoa*, 4. (Ceylon. Both Peninsulas of India.)
- Francoeuria*, 1. (Banks of the Ganges, in Behar.)
- Pulicaria*, 3. (Seringapatam. Patna. Himalayas.)
- Cæsulia*, 1. (Tanjore. Nepal.)
- Buphthalmum* ? 1. (Cochin China. Lour.)
- Eclipta*, 4. { (Moluccas. Java. Peninsula of India. Bengal,
&c.)
- Blainvillea*, 1. (Dindygul. Monghir.)
- Siegesbeckia*, 2. (Dindygul. Circars.)
- ? *Placus*, 2. (Cochin China. Lour.)
- SENECIONIÆÆ.
- Melampodium*, 1. (Luçon.)
- Xanthium*, 2. (India. Java.)
- Moonia*, 1. (Ceylon.)
- Wedelia*, 2. (All over India.)
- Wollastonia*, 5. { (Both Peninsulas of India. Khassya Moun-
tains. Java. Moluccas.)
- Guizotia*, 1. (Lower Bengal.)
- Sclerocarpus*, 1. (Mussooree.)
- Helianthus* ? 1. (Cochin China. Lour.)
- Bidens*, 5. { (Nepal. Both Peninsulas of India. Java. Ben-
gal.)
- Verbesina* ? 1. (Cochin China. Lour.)
- Spilanthes*, 5. (Java. Martaban. Mysore. Moluccas. Bengal.)
- Chrysanthellum*, 1. (Sukanaghur.)
- Neuractis*, 1. (Java.)
- Glossocardia*, 1. (Madras. Carnatic.)
- Glossogyne*, 1. (Gorukpur.)
- Enhydra*, 4. (Cochin China. Java. Bengal. Assam.)
- Porophyllum*, 3. (Luçon. Nepal.)
- Calea* ? 1. (Cochin China. Lour.)
- Achillea*, 1. (Kemaon.)
- Matricaria*, 1. (Cashmere. Scarcely Indian.)
- Pyrethrum*, 2. (One all over India; the other from Cashmere.)
- Chrysanthemum*, 1. (Bengal.)
- Artemisia*, 28. { (Himalayas. Khassya Mountains. Prome. Mo-
luccas. Cashmere. 3 uncertain.)



<i>Chrysostephium</i> ,	1.	(Luçon.)
<i>Tanacetum</i> ,	5.	(Himalayas.)
<i>Myriogyne</i> ,	1.	(Java. Peninsula of India. Bengal.)
<i>Sphæromorphæa</i> ,	2.	(Cochin China. Peninsula of India.)
<i>Machlis</i> ,	1.	(Nepal. Khassya Mountains. Bengal.)
<i>Helichrysum</i> ,	4.	{ (Shrinagur. Neelgherries. Ceylon. Cochin China. 2 uncertain.)
<i>Gnaphalium</i> ,	9.	{ (Himalayas. Khassya Mountains. Hurdwar. Neelgherries. Java. Bengal. Cochin China. 1 uncertain.)
<i>Filago</i> ,	1.	(Negapatam. Patna.)
<i>Antennaria</i> ,	7.	(Himalayas. Java.)
<i>Anaphalis</i> ,	21.	{ (Himalayas. Khassya Mountains. Neelgher- ries. Ceylon. Java.)
<i>Leontopodium</i> ,	1.	(Himalayas.)
<i>Carpesium</i> ,	7.	(Himalayas. 1 from Travancore.)
<i>Gynura</i> ,	17.	{ (Himalayas. Khassya Mountains. Peninsula of India. Irrawaddy. Java. Moluccas. 1 un- certain.)
<i>Emilia</i> ,	5.	{ (Khassya Mountains. Bengal. Peninsula of India. Philippines.)
<i>Ligularia</i> ,	7.	(Himalayas.)
<i>Doronicum</i> ,	7.	{ (Himalayas. Khassya Mountains. Neelgher- ries. Travancore. Ceylon.)
<i>Cacalia</i> ?,	1.	(Java.)
<i>Senecio</i> ,	46.	{ (Himalayas. Kunawur. Cashmere. Khassya Mountains. Neelgherries. Ceylon. Taong- Dong. Java. Madras. 1 uncertain.)
<i>Madaractis</i> ,	4.	(Peninsula of India.)
<i>Notonia</i> ,	3.	(Neelgherries. Travancore. Dindygul. Ava.)
CYNARÆÆ.		
<i>Echinops</i> ,	3.	(Himalayas. Benares. Mysore.)
<i>Saussurea</i> ,	2.	(Himalayas.)
<i>Aplotaxis</i> ,	21.	{ (Himalayas. Khassya Mountains. 1 from Lower Bengal.)
<i>Dolomiaea</i> ,	1.	(Himalayas.)
<i>Amberboa</i> ,	4.	{ (Two from the Himalayas. 2 from the Penin- sula of India.)
<i>Microlonchus</i> ,	1.	(Himalayas.)
<i>Tricholepis</i> ,	5.	(Himalayas. Mysore. Travancore. Bombay.)
<i>Centaurea</i> ,	2.	{ (One cultivated in Indian gardens; the other Lour.)
<i>Kentrophyllum</i> ,	1.	(Banks of the Jumna.)
<i>Onobroma</i> ,	1.	(West of India.)

MATRICARIACEÆ.

<i>Carthamus</i> ,	1.	(Moluccas, &c.)
<i>Carduus</i> ,	1.	(Choor.)
<i>Cirsium</i> ,	6.	(Himalayas. Neelgherries. 1 uncertain.)
<i>Lappa</i> ,	1.	(Himalayas.)
<i>Echenais</i> ,	1.	(Himalayas.)
<i>Serratula</i> ,	3.	{ (Two from the Himalayas. 1 from Cochin China, 2 of these uncertain.)
<i>Jurinea</i> ?	1.	(Himalayas.)
MUTISIEÆ.		
<i>Ainsliea</i> ,	2.	(Himalayas.)
<i>Gerbera</i> ,	1.	(Himalayas.)
<i>Oreoseris</i> ,	3.	(Himalayas.)
<i>Berniera</i> ,	1.	(Himalayas.)
<i>Leucomeris</i> ,	2.	(Himalayas.)
<i>Dicoma</i> ,	1.	(Madras. Yenangheun.)
CICHORIÆ.		
<i>Cichorium</i> ,	1.	(Himalayas. Patna.)
<i>Tragopogon</i> ,	1.	(Himalayas.)
<i>Scorzonera</i> ,	3.	(Himalayas.)
<i>Picris</i> ,	2.	(Himalayas.)
<i>Lactuca</i> ,	12.	{ (Himalayas. Khassya Mountains. Neelgher- ries. Negapatam. Java.)
<i>Chondrilla</i> ?	1.	(Himalayas.)
<i>Taraxacum</i> ,	3.	(Himalayas. Oude.)
<i>Ixeris</i> ,	2.	(Himalayas.)
<i>Barkhausia</i> ,	2.	(Himalayas.)
<i>Brachyramphus</i> ,	3.	(N. India. Peninsula of India.)
<i>Microrrhynchus</i> ,	3.	(Coromandel. Bengal. Oude. Kemaon.)
<i>Sonchus</i> ,	7.	(All over India. Java.)
<i>Youngia</i> ,	8.	{ (Himalayas. Silhet. Bengal. Peninsula of In- dia. Java. 2 uncertain.)
<i>Prenanthes</i> ,	7.	(Himalayas. Java. 1 uncertain.)
<i>Hieracium</i> ,	2.	(Himalayas. Khassya Mountains. 1 uncertain.)
<i>Dubyia</i> ,	1.	(Himalayas.)
<i>Mulgedium</i> ,	7.	(Himalayas.)

If we add to these E. Indian Compositæ the following species: *Eupatorium divergens*, Roxb. (Mysore); *Verbesina scandens*, Roxb. (Bengal); *Gnaphalium albo-luteum*, Roxb. (Bhootan); *Senecio moluccanus*, Roxb. (Moluccas); *Chrysanthemum cuneatum*, Roxb. (Moluccas); *Carduus ramosus*, Roxb.; *Apargia Hamones*, Buch, (Nepal); and *Prenanthes liniifolia*, Roxb. (Bengal); their exact number will be 655.

Few of the E. Indian plants of this order are possessed of properties of much medical or dietetical importance. Whatever little is remarkable will be adverted to under the species.



A. TUBULIFLORE. DC. o. c. p. 8.

a. *Vernoniææ*.

(Vernoniaceæ, DC. o. c. p. 9.)

ETHULIA, L. (DC. o. c. p. 12.)

1. *conyzoides*, L. (Sp. p. 1171;—*L. fil. dec.* 1, t. 1;—DC. o. c. p. 12;—*B. Reg.* 9, t. 695;—*Roxb. H. B.* p. 61.) ☉ Fl. light purple, small, and fr. C. S.

a. *indica*; (E. *ramosa*, *Roxb. H. B.* p. 61; *fl. ind.* 3, p. 413.)
Bengal.

VERNONIA, Schreb. (DC. pr. 5, p. 15.)

1. *cinerea*, Less. (DC. o. c. p. 24;—*J. Grah. Cat. B. pl.* p. 96.—*Serratula cinerea*, *Roxb. fl. ind.* 3, p. 406.—*Conyza cinerea*, L.—*Chrysocoma violacea*, *Schum. guin.* p. 158.—*C. purpurea*, *Forst.*—*Conyza mollis*, *Willd.*;—*Rheed.* 10, t. 64;—*Rumph.* 6, t. 14, f. 1;—*Burm. zeyl.* t. 96, f. 1.) ছোট কোকসিম *Chhoto-koksim*. ☉ Equatorial Africa. Java. Ceylon. Coromandel. Bombay Presidency. Bengal, (Serampore.) &c. Moluccas. Fl. small, light purple, and fr. Jan. Feb. and March.
2. *aspera*, Buch. (not Less.—DC. pr. 5, p. 31.—*V. Roxburghii*, *Less.*—*Eupatorium asperum*, *Roxb. fl. ind.* 3, p. 415.—*E. pyramidale*, *Don. pr. fl. nep.* p. 170?) ১ Bengal, &c. Fl. small, purplish blue, C. S.; fr. H. S.
3. *multiflora*, Less. (DC. pr. 5, p. 31;—*Conyza multiflora*, *Wall. Cat.*) ৭. Prome. Penang. In H. C. G.
4. *vagans*, DC. (pr. 5, p. 32.—*Eupatorium vagans*, *Wall. Cat.*) ৭. ৮ Khassya Mountains. Fl. smallish, deep purple, fragrant, C. S.; fr. H. S.
5. *volkameriaefolia*, DC. (pr. 5, p. 32.—*Conyza volkameriaefolia*, *Wall. Cat.*) ১ Nepal. In H. C. G.
6. *anthelminthica*, Willd. (DC. pr. 5, p. 61.—*Conyza anthelminthica*, L.—*Serratula anthelminthica*, *Roxb. fl. ind.* 3, p. 405;—*J. Grah. Cat. B. pl.* p. 96.—*S. elegans*, *Hb. Maurit.*—*Baccharoides anthelminthica*, *Moench.*—*Ascaridia indica*, *Cass.*;—*Rheed.* 2, t. 24;—*Burm. zeyl.* t. 95.) সোম রাজ *Som-raj*. ☉ Mauritius. Ceylon. Peninsula of India. Bengal, (Serampore.) &c. Fl. purplish, C. S.; fr. March.

DECANEURUM, DC. (pr. 5, p. 66.)

1. *grande*, DC. (pr. 5, p. 67.—*Vernonia grandis*, *Bojer.*) ১ Madagascar. Fl. lilac, C. S.
2. *fimbrilliferum*, DC. (pr. 5, p. 68.—*Gymnanthemum fimbrilliferum*, *Cass.*—*Vernonia fimbrillifera*, *Cass.*—*Eupatorium coriaceum*, *Vahl.*; not Spreng.) Fl. whitish, C. S.

CENTRANTHERUM, Cass. (DC. pr. 5, p. 70.)

1. *intermedium*, Less. (DC. l. c.—*Ampherepis intermedia*, *Lk. abbild.* 5, t. 29.—*Spixia violacea*, *Schrank. pl. rar. h. mon.* t. 80.) ☉ Brazil. Fl. purplish, C. S.; fr. March.

DISTEPHANUS, Cass. (DC. pr. 5, p. 74.)

1. *populifolius*, Cass. (*Conyza populifolia*, Lam.—*Vernonia populifolia*, Spreng.) 5 Mauritius. Has been introduced into H. C. G. Fl. ?

ELEPHANTOPUS, L. (DC. pr. 5, p. 85.)

1. *scaber*, L. (*Sp.* p. 1313, excl. syn. Gron. and Brown;—DC. pr. 5, p. 86;—*Roxb. fl. ind.* 3, p. 445;—*J. Grah. Cat. B. pl.* p. 96.—*Rheed.* 10, t. 7.) *सामदलन Samdulun*. 4. Timor. Java. Luçon. Both Peninsulas of India. Bengal, (Serampore.) Khassya Mountains. Nepal. Fl. pale red, C. S.; fr. H. S.

LAGASCA, Cav. (*Lagascea*, H. B. and Kth.—DC. pr. 5, p. 91.)

1. *mollis*, Cav. (*Annal. sc. nat.* 6, p. 333, t. 44;—DC. l. c.;—*B. M.* 43, t. 1804;—*J. Grah. Cat. B. pl.* p. 96.—*Noceæa mollis*, Jacq. *frag. t.* 13.) 0 Hills of Cuba, and at St. Fé in Mexico. Fl. small, white, C. S.; fr. H. S.

LORENTEA, Less. (DC. pr. 5, p. 101; not Ort. nor Lag.)

1. *humifusa*, Less. (DC. o. c. p. 102.—*Pectis humifusa*, Swz.) 0 St. Cruz. Guadeloupe. Fl. small, yellow, C. S.; fr. H. S.

- * *Adenoclychus condensatus*, Less. 5 Trinidad.—*Sporganophorus Vaillantii*, Gärtn. 0 W. Indies.—*Heterocoma albida*, Pers. 5 Brazil.—*Vernonia celebica*, DC. 5 Woods of Celebes.—*V. arborea*, Buch. 5 Lower Nepal.—*V. elæagnifolia*, DC. 5 Moulmein.—*V. elliptica*, DC. 5 Neelgherries.—*V. sericea*, Rich.; B. Reg. 7, t. 522. 4. Rio Janeiro.—*V. axilliflora*, Mart.; B. Reg. 17, t. 1464. 5 Brazil.—*V. flexuosa*, Sims.; B. M. 51, t. 2477. 4. Brazil.—*Decaneurum reticulatum*, DC. 4. Neelgherries.—*D. dindygulense*, DC. 4. Dindygul.—*Monosis Wightiana*, DC. 5 Neelgherries.—*Distrepheus spicatus*, Cass. 4. W. Indies.—*Rolandra argentea*, Rottl. 5 Jamaica.—*Synchodendron ramiflorum*, Bojer. 5 Madagascar.—*Cenlauropsis fruticosa*, Bojer. 5 Madagascar.—*Bojera speciosa*, DC. 4. Madagascar.—*Lialium Brownei*, Cass. 4. Jamaica.

b. Eupatoriæ.

(Eupatoriaceæ, Less.; DC. pr. 5, p. 103.)

AGERATUM, L. (DC. pr. 5, p. 108.)

1. *conyzoides*, L. (DC. l. c.;—*Hook. exot. fl. t.* 15.)

8. *cordifolium*, DC. (*Ageratum cordifolium*, *Roxb. fl. ind.* 3, p. 415.—*A. conyzoides*, *J. Grah. Cat. B. pl.* p. 98.) *উচ্চতি Oochhunti*. 0 Belgaum. Bombay. Bengal, (Serampore,) &c. Fl. small, pale purple, C. S.; fr. March. Has an unpleasant smell.

ADENOSTEMMA, Forst. (DC. pr. 5, p. 110.)

1. *leiocarpum*, DC. (*o. c. p.* 113.—*Ageratum aquaticum*, *Roxb. fl. ind.* 3, p. 416.) *বড় কেশতি Buro-keshuti*. 0 Borders of the Circars. Bengal. Fl. small, white, Feb. and March; fr. C. S.

STEVIA, Cav. (DC. pr. 5, p. 115.)

1. *Eupatoria*, Willd. (DC. o. c. p. 118;—*B. M.* 43, t. 1849.—*S. hyssopifolia*, Cav.; *Lag.*; not Kth., nor Sims.—*S. punctata*, Pers.—*Agera-*



tum punctatum, Oct. not Jacq.—*Mustelia Eupatoria*, Spreng.) 2. Mexico. Fl. white, tinged with rose, C. S.

2. *paniculata*, Lag. (DC. pr. 5, p. 120.—*S. hyssopifolia*, Sims.; B. M. 44, t. 1861; not Cav. nor Kth.) 2. Mexico. Fl. purplish white, Feb. and March.

EUPATORIUM, Tournef. (DC. pr. 5, p. 141.)

1. *atriplicifolium*, Vahl. (Symb. 3, p. 96; not Lam.;—DC. pr. 5, p. 144.—*E. triangulare*, Poir.) 5 St. Cruz. Fl. bluish-purple, Feb.; fr. March.
2. *triplinerve*, Vahl. (E. Ayapana, Vent. Malm. t. 3;—DC. pr. 5, p. 169;—Roxb. H. B. p. 61;—J. Grah. Cat. B. pl. p. 98.—*E. triplinerve*, Vahl.) 2. Banks of the Amazon river. Fl. whitish, C. S. A good bitter. Leaves used as a substitute for tea at the Mauritius. (J. Grah.) In India and America formerly employed against snakes and snake-bites.
3. *cannabinum*, L. (DC. pr. 5, p. 180;—E. B. 6, t. 478.—*E. trifoliatum*, Hahl. not L.) 2. Ditches and inundated places of Europe and Tauria. Fl. pale purple, C. S.

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- * *Piqueria trinervia*, Cav.; B. M. 53, t. 2650. 2. Mexico.—*Isocarpha atriplicifolia*, R. Br. 2. S. America.—*I. oppositifolia*, R. Br. 2. Jamaica.—*Coelestina ageratoides*, H. B. and Kth. (*Ageratum coelestinum*, Sims. B. M. 42, t. 1730.) 2. Mexico.—*Adenostemma microcephalum*, DC. Goalpara.—*A. latifolium*, D. Don. (*Ageratum strictum*, Sims. B. M. 50, t. 2410.) 2. Nepal.—*Sclerolepis verticillata*, Cass. 2. Carolina.—*Stevia salicifolia*, Cav. 5 Mexico.—*S. serrata*, Cav. 2. Mexico.—*S. purpurea*, Pers. (*S. Eupatoria*, B. Reg. 2, t. 93; not Willd.) 2. Mexico.—*Palafoxia linearis*, Lag.; B. M. 47, t. 2132. 5 Mexico.—*Clavigera scoparia*, DC. 2. Mexico.—*Conoclinium microphyllum*, DC. (*Eupatorium microphyllum*, L.) 5 New Grenada.—*Hebeclinium macrophyllum*, DC. (*Eupatorium macrophyllum*, L.) 5 Jamaica.—*Bulbostylis pendula*, DC. (*Eupatorium pendulum*, Schrad.) 5 Mexico.—*Critonia Dalea*, DC. (*Eupatorium Dalea*, L.) 5 Jamaica.—*Eupatorium macranthum*, Swz. 5 Martinique.—*E. odoratum*, L. 5 Jamaica.—*E. simulatum*, Lam. 5 St. Domingo.—*E. punctatum*, Lam. 5 W. Indies.—*E. ternifolium*, Ell. Carolina.—*E. canescens*, Vahl. 5 St. Thomas.—*E. burmannicum*, DC. 5 Segaeen.—*E. Reevesii*, Wall. 2. China.—*E. nodiflorum*, Wall. 2. Khassya Mountains.—*Mikania hastata*, Willd. 5 Jamaica.—*M. clematidea*, Wall. 5 Nepal.—*M. amara*, Willd. 5 Guiana. W. Indies.—*M. volubilis*, Willd. 5 Penang. Singapore.—*Adenostyles glabra*, DC. 2. S. Europe.—*Nardosmia fragrans*, Reich. (*Tussilago fragrans*, B. M. 34, t. 1388.) 2. S. Europe.—*Petasites vulgaris*, Desf. (*Tussilago Petasites*, E. B. 6, t. 431.) 2. Europe.

*c. Asteriæ. Asteroidea, Less.*

(DC. pr. 5, p. 211.)

FELICIA, DC. (pr. 5, p. 218.)

1. *tenella*, Nees. (DC. o. c. p. 219.—*F. fragilis*, Cass.—*Aster tenellus*, L.;—*B. M.* 1, t. 33.—*A. dentatus* and *tenellus*, *Thunb.*—*Kaulfussia ciliata*, *Spreng. fil.*—*Cineraria tenella*, Lk.) ☉ C. G. H. Fl. small, white, C. S.

ASTER, L. (DC. pr. 5, p. 226.)

1. *spectabilis*, Ait. (DC. o. c. p. 230;—*B. Reg.* 18, t. 1527.—*A. elegans*, *Willd.*) ♀ N. America. Fl. largish, blue-purple, C. S.
2. *Amellus*, L. (DC. pr. 5, p. 231.)
 β. latifolius, DC. (*A. Amellus*, *B. Reg.* 4, t. 340.) ♀ Middle and S. Europe. Fl. purple, C. S.
3. *fragilis*, Willd. (DC. pr. 5, p. 241;—*B. Reg.* 18, t. 1537.) ♀ N. America. Fl. middle-sized, white, C. S.
4. *dumosus*, L. (DC. pr. 5, p. 241;—*Roxb. H. B.* p. 61.—*A. foliolosus*, *Nees.*) ♀ N. America, from New England to Carolina. Fl. white, May; fr. August.
5. *cyaneus*, Hoffm. (DC. pr. 5, p. 246;—*B. Reg.* 18, t. 1495.) ♀ N. America. Fl. largish, blue, C. S.

CALLISTEPHUS, Cass. (DC. pr. 5, p. 274.)

1. *chinensis*, Nees. (DC. l. c.;—*J. Grah. Cat. B. pl.* p. 98.—*C. hortensis*, Cass.—*Aster chinensis*, L.;—*Roxb. fl. ind.* 3, p. 433.—*Callistemma hortense*, Cass.—*Diplopappus chinensis*, Less.) ☉ Japan. China. Nepal. Fl. of various colours, C. S.

DIPLOPAPPUS, DC. (pr. 5, p. 275.)

1. *trinervius*, (*D. asperimus*, DC. o. c. p. 277.—*Aster trinervius*, *Roxb. fl. ind.* 3, p. 433;—*H. B.* p. 61.) ♀ Nepal. In H. C. G. fl. C. S. (*Roxb.*)

STENACTIS, Nees. (DC. pr. 5, p. 298.)

1. *annua*, Nees. DC. l. c.—*S. dubia*, Cass.—*Aster annuus*, L.;—*Roxb. H. B.* p. 61.—*Erigeron heterophyllus*, *Willd.*—*E. annuus*, Pers.—*Cineraria corymbosa*, *Mönch.*—*Pulicaria annua*, *Gärtn.*—*Phalacroloma acutifolium*, Cass.—*Diplopappus dubius*, Cass.) ☉ N. America. Domesticated in Europe. Fl. white, Feb.

BRELLIS, L. (DC. pr. 5, p. 304.)

1. *perennis*, L. (DC. l. c.;—*Lam. ill.* 3, t. 677;—*E. B.* 6, t. 424.)—*Common Daisy.* ♀ Europe. Fl. middle-sized, white, C. S.

PSIADIA, Jacq. (DC. pr. 5, p. 318.)

1. *arguta*, (*P. balsamica*, DC. o. c. p. 319.—*Baccharis arguta*, *Pers. syn.* 2, p. 423.—*Eupatorium flexuosum*, *Roxb. fl. ind.* 3, p. 415, not *Lam.*—*Elphegea latifolia*, Cass.—*Conyza balsamica*, *Wall. Cat.*) ♂ Mauritius. Has been introduced into H. C. G. Fl. ?

MICROGLOSSA, DC. (pr. 5, p. 320.)

1. *sessilifolia*, DC. (l. c.) ♂ Madagascar. Fl. small, yellowish, C. S.



CHARYSOPSIS, Nutt. (DC. pr. 5, p. 326.)

1. *mariana*, Ell. (DC. o. c. p. 327.—*Inula mariana*, L.;—*I. glandulosa*, Lam.—*Diplogon marianus*, Rafin.) 4. Carolina. Georgia. Fl. yellow. C. S.

SOLIDAGO, L. (DC. pr. 5, p. 330.)

1. *canadensis*, L. (DC. l. c.) 4. N. America, from Canada to Pennsylvania, and on the Mountains of Carolina. Fl. small, bright yellow. C. S.

SPHAERANTHUS, Vail. (DC. pr. 5, p. 369.)

1. *hirtus*, Willd. ? (DC. l. c.—*S. indicus*, Roxb. fl. ind. 3, p. 446, not L.;—*Wight. herb.*) *ছাগল নদী Chhagul-nudi*. © Peninsula of India. Bengal, (Serampore.) Fl. small, purplish, C. S.; fr. March. Whole plant inodorous.
2. *mollis*, Roxb. (fl. ind. 3, p. 446;—DC. pr. 5, p. 369;—*J. Grah. Cat. B. pl. p. 96*, excl. syn.—*S. hirtus*, Burm.—*Rheed. 10, t. 43.*) *মুন্ডী Munde*. © Peninsula of India. Bengal. (Serampore.) Hindoosthan. Kemaon. Fl. small, purplish, C. S.; fr. March. Whole plant very fragrant.

DICROCEPHALA, DC. (pr. 5, p. 371.)

1. *latifolia*, DC. (o. c. p. 372.—*D. erecta*, L'Herit.—*Cotula latifolia*, Pers.—*C. bicolor*, Roth.—*C. sinapifolia*, Roxb. fl. ind. 3, p. 437.—*Grangea latifolia*, Lam.—*Ethulia glomerata*, Spreng. MSS.—*Hippia bicolor*, Sm.—*Spilanthus atriplicifolius*, L.—*Sphaeranthus africanus*, Burm. ind. t. 60, f. 2; not L.) © Madagascar. Java. Nepal. Fl. small, yellow white. In H. C. G. fl. H. S. (Roxb.)

GRANGEA, Adans. (DC. pr. 5, p. 372.)

1. *maderaspatana*, Poir. (DC. o. c. p. 373.—*G. Adansonii*, Cass.—*Artemisia maderaspatana*, L.—Roxb. fl. ind. 3, p. 422;—*J. Grah. Cat. B. pl. p. 102.*—*Cotula maderaspatana*, Willd.—*Rheed. 10, t. 49.*) *নামতি Namuti*. © Java. Peninsula of India. Bengal, (Serampore.) Fl. small, yellow, C. S.; fr. March.

CONYZA, L. (DC. pr. 5, p. 377.)

1. *angustifolia*, Roxb. (fl. ind. 3, p. 429;—DC. pr. 5, p. 83, not Lam.) © Native place unknown, but probably the Andamans. (Roxb.) Fl. small, pale yellow, C. S.; fr. March.
2. *pinnatifida*, Buch. (Roxb. H. B. p. 61;—fl. ind. 3, p. 430;—not Less, nor DC. pr. 5, p. 384, under *C. absinthifolia*.) 5 Nepal. Fl. yellow, small, C. S.; fr. H. S.
3. *repanda*, Roxb. (fl. ind. 3, p. 431.) © Pegu. Fl. small, yellow. In H. C. G. fl. and fr. from Dec. till May. (Roxb.)
4. *lanceolaria*, Roxb. (fl. ind. 3, p. 432.) 4. Silhet. In H. C. G. fl. Feb. and March; fr. May. It is an article of the *Materia Medica* of Silhet. (Roxb.)
5. *diffusa*, Roxb. (fl. ind. 3, p. 429; not Poir.) © Bengal. In H. C. G. fl. C. S.; fr. H. S. (Roxb.)

? *G. stricta*, Roxb. (*H. B. p.* 61.—*Willd.* ?) © Bengal. In H. C. G. fl. C. S.; fr. Feb. and March. (*Roxb.*)

BLUMEA, DC. (*pr.* 5, p. 432.)

1. *pubiflora*, DC. (*pr.* 5, p. 434;—*J. Grah. Cat. B. pl. p.* 97.—*Erigeron asteroides*, *Roxb. fl. ind.* 3, p. 432.) © Madras. The Concans. Fl. large, yellow, C. S.; fr. March.

2. *bifoliata*, DC. (*l. c.*—*Conyza bifoliata*, *L.*;—*Roxb. fl. ind.* 3, p. 430; not Wall.) © Peninsula of India. Bengal, (Serampore.) Fl. small, yellow, C. S.; fr. Feb. and March.

3. *lacera*, DC. (*pr.* 5, p. 436;—*J. Grah. Cat. B. pl. p.* 97.—*Conyza lacera*, *Burm. ind. t.* 59, f. 1;—*Roxb. fl. ind.* 3, p. 428.) বড় কোকসিমা *Buro-koksima*. © Peninsula of India. Bengal, (Serampore.) Silhet. China. Java. Fl. small, yellowish, C. S.; fr. Feb. and March. The whole plant is strongly aromatic, somewhat smelling of turpentine, and is often used in cases of dyspepsia by the natives.

4. *laciniata*, DC. (*pr.* 5, p. 436.—*Conyza laciniata*, *Roxb. fl. ind.* 3, p. 427.) © Bengal, (Serampore.) Fl. small, yellow, C. S.; fr. Feb. and March.

5. *balsamifera*, DC. (*pr.* 5, p. 447;—*J. Grah. Cat. B. pl. p.* 97.—*Conyza balsamifera*, *L.*;—*Roxb. fl. ind.* 3, p. 427.—*Pluchea balsamifera*, *Less.*—*Baccharis Salvia*, *L.*—*Conyza odorata*, *Rumph. 6, t.* 24, f. 1;—not *L.*) 5 Luzon. Cochin China. Java. Moluccas. Assam. The Concans. Fl. small, yellow, Feb. and March; fr. H. S. The whole plant when bruised smells of camphor. (*Roxb.*)

6. *alata*, DC. (*pr.* 5, p. 448;—*J. Grah. Cat. B. pl. p.* 97.—*Conyza alata*, *Roxb. fl. ind.* 3, p. 430.—*Erigeron alatus*, *Don. pr. fl. nep. p.* 171.) 5 Concans. Nepal. Fl. small, purple, H. S. (*Roxb.*)

7. *aurita*, DC. (*pr.* 5, p. 449;—*J. Grah. Cat. B. pl. p.* 97.—*Conyza aurita*, *Roxb. fl. ind.* 3, p. 428;—*L. ?*) © Both Peninsulas of India. Bengal, (Serampore.) Fl. small, yellow, C. S.; fr. Feb. and March. Smells strongly of turpentine, (*Roxb.*)

PLUCHEA, Cass. (*DC. pr.* 5, p. 449.)

1. *indica*, Less. (*DC. pr.* 5, p. 451;—*Wight. ill.* 2, t. 131.—*Baccharis indica*, *L.*—*Conyza indica*, *Bl.*—*C. corymbosa*, *Roxb. fl. ind.* 3, p. 426.) 5 Luzon. Java. Timor. Penang. Chittagong. Soonderbuns. Fl. small, pale rose-coloured. (in *Wight. ill.* bright yellow) C. S.; fr. H. S.

MONARRHENUS, Cass. (*DC. pr.* 5, p. 457.)

1. *salicifolius*, Cass. (*DC. l. c.*—*Conyza salicifolia*, *a. Lam.*;—*Roxb. fl. ind.* 3, p. 431.) 5 Mauritius. Bourbon. Has been introduced into H. C. G.?

INULA, L. (*DC. pr.* 5, p. 463.)

1. *Helenium*, L. (*DC. l. c.*—*E. B.* 22, t. 1546;—*Gürt. fr.* 2, p. 449, t. 170, f. 2.—*Aster Helenium*, *Scop.*—*A. officinalis*, *All.*—*Corvisartia Helenium*, *Merat. and Cass.*) *Elecampane*. 2. England. Belgium.



France. Germany. Denmark. Fl. large, bright yellow, C. S.; but rarely.

VICOA, Cass. (DC. pr. 5, p. 474.)

1. *indica*, DC. (l. c.)

β *subintegra*, DC. (Inula indica, L.—Doronicum calcaratum, Roxb. fl. ind. 3, p. 434.—Aster indicus, Willd.; not L.—Vicoa indica J. Grah. Cat. B. pl. p. 97.) © Peninsula of India, growing under the shade of trees, in dry, uncultivated ground. Fl. largish, yellow. In H. C. G. fl. C. S.; fr. H. S. (Roxb.)

CÆSULIA, Roxb. (DC. pr. 5, p. 482.)

1. *axillaris*, Roxb. (Corom. 1, t. 93; fl. ind. 3, p. 447;—DC. l. c.;—B. Repos. t. 431.—J. Grah. Cat. B. pl. p. 96.—Meyera orientalis, D. Don. pr. fl. nep. p. 180.—Melanthera orientalis, Spreng.) © Rice fields and other moist places of the Peninsula of India. Fl. light purple, R. and C. S.; fr. C. S.

BUPHTHALMUM, L. (DC. pr. 5, p. 483.)

1. *salicifolium*, DC. (l. c.;—Jacq. austr. t. 370.—B. salicifolium and grandiflorum, L.) 2. Europe. Fl. large, yellow, C. S.

TELERIA, Baum. (DC. pr. 5, p. 485.)

1. *cordifolia*, DC. (l. c.—B. M. 63, t. 3466.—Telekia speciosa, Baumg.—Molpadiæ suaveolens, Cass.—Inula caucasica, Pers.—Bupthalmum cordifolium, Kit.; pl. hung. rar. 2, p. 117, t. 113.—B. speciosum, Schreb.) 2. Hungary. Tauria. Persia. Fl. large, yellow, C. S.

ECLIPTA, L. (DC. pr. 5, p. 489.)

1. *erecta*, L. ? (Willd.—DC. o. c. p. 490.—E. prostrata, Roxb. fl. ind. 3, p. 438;—J. Grah. Cat. B. pl. p. 99.—E. adpressa, Münch.—Verbesina alba, L.—Cotula alba, L.—Micrelium asteroides, Forsk.—Rumph. 6, t. 18, f. 2;—Rheed. 10, t. 41.) केशूरी Keshoori. © N. and S. America. C. G. H. Egypt. Senegal. India. China. Moluccas. Java. Mauritius, &c. Fl. small, white, and fr. the whole year.

BLAINVILLEA, Cass. (DC. pr. 5, p. 492.)

1. *latifolia*, DC. (l. c.—Eclipta latifolia, L.—Verbesinia Lavenia, Roxb. fl. ind. 3, p. 442; excl. syn.) © Dindygul. Malabar. Monghir. Fl. small, white. In H. C. G. fl. C. S.; fr. H. S. (Roxb.) The whole plant has a faint, pleasant, aromatic smell. (Roxb.)

DAHLIA, Cav. (DC. pr. 5, p. 494.)

1. *variabilis*, Desf. (DC. l. c.—J. Grah. Cat. B. pl. p. 100.—D. pinnata and rosea, Cav.—D. sambucifolia, Salisb.;—Roxb. H. B. p. 62.—D. purpurea, Poir.—D. superflua, Ait.;—B. M. 44, t. 1885.—Georgina variabilis, Willd.—G. superflua, DC.—Coreopsis Georgina nuda, Cass.) 2. Mexico. Fl. large, deep rose-coloured, single, more or less double, purple-red, white or yellow, C. S.; fr. H. S.
2. *coccinea*, Cav. (DC. pr. 5, p. 494;—B. M. 20, t. 762.—D. fulgens, Hortul.—D. crocata, Lag.—D. bidentifolia, Salisb.—D. crocea, Poir.—D. frustranea, Ait.—Georgina variabilis, β . Kth.—G. crocata,

Sweet.—*G. coccinea*, Willd.—*G. frustranea*, DC.—*Coreopsis Georgina pruinosa*, Cass.) 2. Mexico. Fl. large, scarlet, deep orange, or yellow, but not purple or white, C. S.; fr. H. S.

SIEGEBECKIA, L. (DC. pr. 5, p. 495.)

1. *orientalis*, L. (DC. l. c.;—*Roeb. fl. ind.* 3, p. 439;—*J. Grah. Cat. B. pl.* p. 100.—*S. brachiata*, *Roeb. l. c.*) © China. Circars. Deccan. Fl. small, yellow, R. and C. S.; fr. C. S.

* *Aster Novæ Angliæ*, Ait. 2. N. America.—*A. carolinianus*, Walth. 2. Carolina, Georgia.—*A. grandiflorus*, L.; B. Reg. 4, t. 273. 2. N. America.—*A. longifolius*, Lam. 2. N. America.—*A. coridifolius*, Michx.; B. Reg. 18, t. 1487. 2. Carolina.—*Tripolium vulgare*, Nees. (*Aster Tripolium*, L.; E. B. 2, t. 87.) 2. Europe.—*Galatella punctata*, DC. 2. S. Europe.—*Podocoma hieracifolia*, Cass. 2. Buenos Ayres.—*Sericocarpus solidagineus*, Nees. 2. N. America.—*Macharanthera tanaacetifolia*, Nees. 2. Mexico.—*Heleastrum paludosum*, DC. 2. S. Carolina.—*Biotia corymbosa*, DC.; B. Reg. 18, t. 1532. 2. N. America.—*Leptocoma racemosa*, Less. and Nees. 2. Nepal.—*Fultartonia kamaonensis*, DC. 2. Kemaon.—*Polyactidium delphinifolium*, DC. ♂. Mexico.—*Erigeron glaucus*, Ker.; B. R. 1, t. 10, 2. Buenos Ayres.—*E. bellidifolius*, Mühl. B. M. 50, t. 2402. 2. Canada, Carolina.—*E. canadensis*, L.; E. B. 29, t. 3019. 2. Europe. Canada. Mexico. W. Indies.—*Bellis sylvestris*, Cyr. B. M. 51, t. 2511. 2. S. Europe.—*Xanthocoma humilis*, H. B. and Kth. 2. Mexico.—*Gymnasperma glutinosum*, Less. (*Selloa glutinosa*, Spreng.; B. Reg. 6, t. 462.) 5 Brazil.—*Grindelia glutinosa*, Dun.; B. Reg. 3, t. 187. 5 Mexico.—*G. inuloides*, Willd.; B. Reg. 3, t. 248. 5 Mexico.—*G. arguta*, Schrad. (*G. angustifolia*, H. B. and Kth.; B. Reg. 10, t. 781.) 2. Mexico.—*Psiadia glutinosa*, Jacq. 5 Mauritius.—*Microglossa volubilis*, DC. 5 (Rumph. 5, t. 104, f. 1, Penang.—*Neja gracilis*, D. Don.; B. Cab. t. 1814. 5 Mexico.—*Solidago procera*, Ait. 2. N. America.—*S. Virgaurea*, L.; E. B. 5, t. 301. 2. Europe.—*Amphirhapis heterotricha*, DC. 5 Khassya Mountains.—*Commidendrum gunniferum*, DC. 5 St. Helena.—*Linosyris vulgaris*, Cass. (*Chrysocoma Linosyris*, L.; E. B. 35, t. 2505.) 2. S. Europe. England.—*Sarcanthemum Coronopus*, Cass. 5 Mauritius. Bourbon.—*Blepharispernum subsessile*, DC. 5 Madras.—*Athroisma lacinia-tum*, DC. 5 Martaban, near Troglia.—*Berthelotia lanceolata*, DC. β. *indica*, 5 Cawnpore.—*Baccharis Vahlil*, DC. 5 St. Cruz, St. Domingo.—*B. articulata*, Pers. 5 Brazil.—*Pluchea odorata*, Cass. 2. Mexico.—*Monarrhenus pinifolius*, Cass. 5 Bourbon.—*Cylindrocline Commersonii*, Cass. 5 Mauritius.—*Inula eupatorioides*, DC. 5 Khassya Mountains.—*Pulicaria dysenterica*, Gärtn. (*Inula dysenterica*, L.; E. B. 16, t. 1115.) 2. Europe.—*Borrichia frutescens*, DC. 5 Jamaica.—*Salmea scandens*, DC. (*Bidens scandens*, L.; B. M. 46, t. 2062.) 5



Jamaica.—*Siegesbeckia jorullensis*, H. B. and Kth.; B. Reg. 13, t. 1061. © Mexico.

d. Seneciae. Senecionidae, Less.

(DC. pr. 5, p. 497.)

XANTHIUM, Tournef. (DC. pr. 5, p. 522.)

1. *orientale*, L. (excl. syn.—X. indicum, Kön. MSS.;—Roxb. fl. ind. 3, p. 601;—DC. o. c. p. 523;—J. Grah. Cat. B. pl. p. 101.) বন ওকড়া *Bun-Okra*. © Egypt. Most parts of India, (Serampore.) Fl. small, white, Feb. and March; fr. H. S.

AMBROSIA, Tourn. (DC. pr. 5, p. 525.)

1. *abrotanifolia*, Wall. (Cat.—DC. l. c.) 5 Native place unknown. According to DC. cultivated in H. C. G. Perhaps a native of Brazil.
2. *elator*, L. (DC. pr. 5, p. 526;—Roxb. H. B. p. 67.) © N. America, from Canada to Carolina. In H. C. G. fl. R. S.; fr. C. S. (Roxb.)
3. *trifida*, L. (DC. pr. 5, p. 527;—Roxb. H. B. p. 67.) © N. America, from Canada to Georgia. Flowers white. In H. C. G. fl. R. S.; fr. C. S. (Roxb.)

PARTHENIUM, L. (DC. pr. 5, p. 531.)

1. *Hysterophorus*, L. (DC. o. c. p. 532;—B. M. 49, t. 2275;—Roxb. H. B. p. 62.—*Argyrochaeta bipinnatifida*, Cav.—*Villanova bipinnatifida*, Ort.) © Mexico. Cuba. Trinidad. Jamaica. St. Thomas. Martinique. Fl. small, white, inodorous, and fr. R. S.

ZINNIA, L. (DC. pr. 5, p. 534.)

1. *tenuiflora*, Jacq. (icon. rar. 3, t. 590.—DC. o. c. p. 535;—B. M. 16, t. 555;—J. Grah. Cat. B. pl. p. 99. (misprinted *Z. tenuiflora*).—*Z. revoluta*, Cav. ic. 3, t. 251.) © Mexico. Fl. middle-sized, scarlet, C. S.; fr. H. S.
2. *multiflora*, L. (DC. l. c.;—B. M. 5, t. 149;—Roxb. H. B. p. 61.) © Mexico. Louisiana. Brazil. Fl. largish, scarlet, March; fr. April and May.
3. *pauciflora*, L. (DC. l. c.;—Lam. ill. t. 685.—*Z. lutea*, Gärtn. fr. 2, p. 459, t. 172, f. 3.—*Rudbeckia foliis oppositis*, Zinn. h. Gott. t. 1.—*Chrysogonum peruvianum*, L. sp. ed. 1, p. 920. excl. syn.—*Bidens Mill. dict. t. 64*.—Lejica, Hill. exot. 29.—*Crassina*, Scop. diss.) © Peru. Fl. middle-sized, yellowish, C. S.; fr. March.
4. *hybrida*, Sims. (B. M. 47, t. 2123;—DC. pr. 5, p. 536.—*Z. grandiflora*, Hortul.) © S. America. Fl. large, crimson, C. S.; fr. H. S.
5. *elegans*, Jacq. (Coll. 3, p. 152;—DC. l. c.) © Mexico. Fl. large, C. S.; fr. H. S.
 - a. *violacea*, DC. (*Z. violacea*, Cav.; ic. 1, t. 81;—B. Repos. 1, t. 55.—*Z. elegans*, Jacq. ic. rar. 3, t. 589;—B. M. 15, t. 527.) Fl. violet.
 - β. *coccinea*, DC. (*Z. violacea*, β. *coccinea*, Lindl. B. Reg. 15, t. 1294.) Fl. bright scarlet.

WEDELIA, Jacq. (DC. pr. 5, p. 538.)

1. *calendulacea*, Less. (DC. o. c. p. 539.—*Verbesina calendulacea*, L.;—*Lam. ill.* t. 686, f. 1;—*Roxb. fl. ind.* 3, p. 440;—*J. Grah. Cat. B. pl.* p. 100.—*V. benghalensis*, Rich.; *Pers.*—*Jägeria calendulacea*, *Spreng.*;—*Rheed.* 10, t. 42;—*Burm. zeyl.* t. 22, f. 1.) बाङ्गड़ा *Bangra. केश राज Kesho-raj.* ५. Ceylon. Coromandel. The Concan. Bengal, (Serampore.) &c. Fl. largish, bright yellow. R. and C. S.; fr. H. S. The plant has a slight terebinthinaceous taste. (*Roxb.*)

WOLLASTONIA, DC. (pr. 5, p. 546.)

1. *biflora*, DC. (l. c.—*Verbesina biflora*, L.;—*Roxb. fl. ind.* 3, p. 440;—*J. Grah. Cat. B. pl.* excl. syn.—*V. urticifolia*, *Wight.*—*Acnella biflora*, *Spreng.*;—*Rheed.* 10, t. 40.) ☉ Coromandel. Very common on the Ghauts, covers the roofs of houses at Kandalla, Martaban, &c. Fl. largish, yellow, C. S.; fr. H. S.
2. *scabriuscula*, DC. (o. c. p. 547.—*Eclipta scabriuscula*, *Wall. Cat.*—*Melananthera glandulosa*, *Wall. herb.*—*Megera capitata*, *Spreng.* excl. syn.—*Verbesina dichotoma*, *Heyn.*—*V. biflora*, *Bl.*; not L.) ५. Timor. Penang. Singapore. Rangoon. Silhet. Fl. yellow. In H. C. G.

HELIOPSIS, Pers. (DC. pr. 5, p. 550.)

1. *lævis*, Pers. (DC. l. c.;—*B. M.* 61, t. 3872.—*Helianthus lævis*, L. *fil.*—*Bupthalmum helianthoides*, L. *hort. ups.*;—*L'Herit. stirp.* p. 93, t. 45.—*Silphium solidaginoides*, L. *sp.* p. 1302;—*Rudbeckia oppositifolia*, L. *sp.* 1280.) ५. N. America, from Pennsylvania to Carolina, on shady, rocky banks of rivers. Fl. large, bright yellow, R. S.; fr. C. S.

GUIZOTIA, Cass. (DC. pr. 5, p. 551.)

1. *abyssinica*, Cass. (G. oleifera, DC. l. c.;—*Wight. ill.* 2, t. 132.—*Polymnia abyssinica*, L. *fil. suppl.* p. 383.—*P. frondosa*, *Bruce.*—*Verbesina sativa*, *Roxb. fl. ind.* 3, p. 441;—*B. M.* 26, t. 1017;—*J. Grah. Cat. B. pl.* p. 100.—*Werinnua*, *Heyn.*—*Parthenium luteum*, *Spreng.*—*Heliopsis platyglossa*, *Cass.*—*Tetragonotheca abyssinica*, *Ledeb.*—*Jägeria abyssinica*, *Spreng.*—*Helianthus oleifer*, *Wall. Cat.*—*Bidens?* *Ramtilla*, *Wall. Cat.*—*Ramtilla oleifera*, DC.—*Bupthalmum Ramtilla*, *Buch.*—*Anthemis mysorensis*, *Hb. Madr.*) राम तिल *Ramtil.* ☉ Abyssinia. Mysore. Deccan, where it is commonly cultivated for the sake of the oil it affords. Lower Bengal. Fl. large, bright-yellow, C. S.; fr. Feb. and March.

ECHINACEÆ, Mönch.) DC. pr. 5, p. 554.)

1. *purpurea*, Mönch. (DC. l. c.—*Rudbeckia purpurea*, L.;—*B. M.* 1, t. 2;—*Roxb. H. B.* p. 62.) ५. Mountains of N. America, from Virginia to Florida. Fl. large, purple. In H. C. G. fl. C. S.; fr. O. (*Roxb.*)

RUDBECKIA, L. (DC. pr. 5, p. 555.)

1. *digitata*, Mill. (DC. l. c.; not Willd.—*R. laciniata* β , *angustifolia*, *Pers.*) ५. Mountainous parts of Virginia and Carolina. Fl. large, yellow, with a brownish disk, C. S.; fr. O.



2. *triloba*, L. (DC. l. c.;—B. Reg. 7, t. 525;—Roxb. H. B. p. 62.—R. triloba and aristata, *Parsh.*;—Nutt.—*Centrocarpha aristata*, Don.?) 4. Mountainous parts of Virginia and Carolina. Fl. large, yellow, with a brownish disk, C. S.; fr. H. S.
3. *hirta*, L. (DC. pr. 5, p. 556;—Sw. brit. fl. gard. 1, t. 82;—Roxb. H. B. p. 62.) ♂ Mountainous places of N. America, from Virginia to Florida. Fl. large, yellow, with a brownish disk. In H. C. G. fl. C. S.; fr. O. (Roxb.)
4. *spathulata*, Michx. (DC. o. c. p. 557.) 4. Mountainous places of Carolina and Florida. Fl. large, yellow, with a brownish disk. R. and C. S.; fr. March, but rarely.
- CHRYSOSTEMMA, Less. (DC. pr. 5, p. 567.)
1. *Tripteris*, Less. (DC. o. c. p. 568;—B. M. 64, t. 3583.—*Coreopsis Tripteris*, L.;—Roxb. H. B. p. 62.—*Anacis Tripteris*, Schrank.) 4. Mountains of N. America, from Virginia to Carolina and Georgia. Fl. large, yellow, with a purple disk. C. S.; fr. O.
- CALLIOPSIS, Reichenb. (DC. pr. 5, p. 568.)
1. *tinctoria*, DC. (l. c.;—J. Grah. Cat. B. pl. p. 101.—C. bicolor, Reichenb.—*Coreopsis tinctoria*, Nutt.;—B. M. 51, t. 2512;—B. Reg. 10, t. 846.—*Diplosastera tinctoria*, Tausch.) © Arkansas. Fl. large, gold-coloured, with a brown base, Feb. and March; fr. C. S.
2. *Atkinsoniana*, Hook. (DC. l. c.—*Coreopsis Atkinsoniana*, Dougl.;—B. Reg. 16, t. 1376.) 4. Banks of the Colombian river, in N. America. Fl. like those of No. 1, C. S.; fr. O.
- HELIANTHUS, L. (DC. pr. 5, p. 585.) *Sunflower*.
1. *annuus*, L. (DC. l. c.—Roxb. fl. ind. 3, p. 443;—J. Grah. Cat. B. pl. p. 100.) *शुद्धि शक्ति Shooriya-mookti*. © Peru. Fl. very large, yellow, and fr. nearly the whole year.
2. *ovatus*, Lehm. (DC. pr. 5, p. 586.) © Mexico. Fl. very large, orange-coloured, tinged with brownish, Feb. and March; fr. April and May.
3. *multiflorus*, L. (DC. o. c. p. 590;—B. M. 7, t. 227;—Roxb. H. B. p. 62.—H. polycephalus, Cass.) 4. Dry, woody and mountainous places of N. America, from Canada and Pennsylvania to Carolina. Fl. large, bright-yellow. In H. C. G. fl. R. and C. S.; fr. C. S. (Roxb.)
4. *tuberosus*, L. (DC. l. c.;—Roxb. H. B. p. 62;—J. Grah. Cat. B. pl. p. 100;—Jacq. vind. t. 161.) *Jerusalem Artichoke*, 4. Brazil. Commonly cultivated in gardens. Fl. large, yellow, R. and C. S.; fr. O. Tubers of the root edible.
- BIDENS, L. (DC. pr. 5, p. 593.)
1. *trifida*, Buch. (Roxb. fl. ind. 3, p. 411.—B. tripartita, Roxb. H. B. p. 60; not L., nor DC. pr. 5, p. 596, under B. repens.) © Nepal. Fl. smallish, yellow, R. and C. S.; fr. H. S. (Roxb.)
2. *pilosa*, L. (DC. pr. 5, p. 597.—*Ceratocephalus pilosus*, Rich. cat. h. med. p. 91.—*Kerneria dubia*, Cass.—K. tetragona, Mönch.) © N.



America, from Pennsylvania to Carolina. Fl. smallish, yellow, Feb. and March; fr. April.

4. *sundaica*, Bl. (B. bipinnata, *Roxb. H. B.* p. 60; *fl. ind.* 3, p. 411, not L.) © Rajmahl. Fl. smallish, yellow, R. and C. S.; fr. H. S.

Cosmos, Cav. (*DC. pr.* 5, p. 606.)

1. *bipinnatus*, Cav. (*icon.* 1, p. 9, t. 14;—*DC. l. c.*—*Cosmea bipinnata*, Willd.;—*B. M.* 37, t. 1535.—*Georgia bipinnata*, *Spreng.*—*Coreopsis formosa*, *Bonato.*) © Mexico. Fl. large, deep rose-coloured, R. and C. S.; fr. H. S.

2. *sulphureus*, Cav. (*icon.* 1, p. 56, t. 79;—*J. Grah. Cat. B. pl.* p. 101.—*Cosmea sulphurea*, Willd.—*Coreopsis artemisiæfolia*, *Jacq. icon.* 3, t. 595.) © Mexico. Fl. large, sulphur-coloured, R. and C. S.; fr. H. S.

SPILANTHES, Jacq. (*DC. pr.* 5, p. 620.)

1. *acmella*, L. (*DC. o. c. p.* 625.—*S. Acmella*, *Roxb. fl. ind.* 3, p. 410;—*J. Grah. Cat. B. pl.* p. 99; not L.—*Verbesinia Pseudoacmella*, L.—*Pyrethrum Acmella*, *Medic.*;—*Rumph.* 6, t. 65.) মার্হাতি তিগা *Marhata-tiga*. © Moluccas. Peninsula of India. Bengal, (Serampore.) Fl. small, yellow, R. and C. S.; fr. C. S.

2. *oleracea*, Jacq. (*Hort. vind.* 2, t. 135;—*DC. pr.* 5, p. 624.—*Pyrethrum Spilanthus*, *Medic.*—*Bidens acmelloïdes*, *Berg.*—*B. fervida*, *Lam.*) © S. America. Fl. small, yellow, and fr. whole year.

XIMENESIA, Cav. (*DC. pr.* 5, p. 627.)

1. *encelioides*, Cav. (*icon.* 2, p. 60, t. 178;—*DC. l. c.*—*Pallasia serratifolia*, *Sm. in Rees' cycl.*) © Mexico. Fl. large, bright-yellow, and fr. C. and H. S.

HETEROSPERMUM, Willd. (*DC. pr.* 5, p. 632.)

1. *pinnatum*, Willd. (*DC. o. c.*—*Heterosperma pinnata*, *Cav. ic.* 3, t. 267.) © Mexico. Fl. largish, yellow, Feb. and March; fr. April and May.

BROTEROA, DC. (*pr.* 5, p. 635.)

1. *trinervata*, DC. (*l. c. p.* 636.—*Brotera trinervata*, *Pers.*—*B. Contrayerva*, *Spreng.* excl. syn. Cav. and Feuill.—*B. Sprengelii*, *Cass.*—*Nauemburgia trinervata*, *Willd.*—*Flaveria repanda*, *Lag.*) © Caraccas. Mexico. Fl. small, yellow, C. S.; fr. H. S.

ENHYDRA, DC. (*pr.* 5, p. 636.—*Enydra*, *Lour.*)

1. *Hingcha*, (E. *Heloncha*, *DC. o. c. p.* 637.—*Hingcha repens*, *Roxb. H. B.* p. 62.—*Hingcha*, *Roxb. fl. ind.* 3, p. 637.—*Meyera Heloncha*, *Wall. Cat.*) হিংচা *Hingcha*. 2, Bengal, (Serampore.) Silhet, Assam. Fl. small, white, H. and R. S.; fr. R. S. Leaves eaten by the natives.

TARGETES, Tournef. (*DC. pr.* 5, p. 642.)

1. *patula*, L. (*DC. o. c. p.* 643;—*B. M.* 5, t. 150;—*Roxb. fl. ind.* 3, p. 434;—*J. Grah. Cat. B. pl.* p. 99.) ছোটো গঁদা *Chhoto-genda*. *French Marygold*. © Mexico. Domesticated in India. Fl. large, golden-brown, C. S.; fr. H. S.



- erecta*, L. (DC. *l. c.*;—*Roxb. fl. ind.* 3, p. 335;—*J. Grah. Cat. B. pl.* p. 99.—*T. major*, *Gürt. fr.* 2, p. 437, t. 172, f. 4.) बड़ जैदा *Burogenda*. African *Marygold*. ☉ Mexico. Domesticated in India. Fl. large, citron-coloured, C. S. Has a fetid smell.

TRIDAX, L. (DC. *pr.* 5, p. 679.)

1. *procumbens*, L. (DC. *l. c.*—*Balbisia elongata*, *Willd.*—*B. pedunculata*, *Hoffmans.*—*B. divaricata*, *Cass.*—*Amellus pedunculatus*, *Ort.*) ☉ Mexico. Vera Cruz. St. Martha. Cuba. Entirely naturalized at the Mauritius, in Tropical India, &c. In Serampore and its neighbourhood it is one of the worst weeds, growing every where, especially on walls and houses, and being in flower and fruit the whole year. Fl. middle-sized, pale yellowish, with an orange disk.

MADIA, Mol. (DC. *pr.* 5, p. 691.)

1. *sativa*, Mol. (DC. *l. c.*—*M. viscosa*, *Cav. icon.* 3, p. 50, t. 238;—*B. M.* 52, t. 2574.—*M. mellosa*, *Jacq. hort. schönbr.* 3, p. 29, t. 302.) ☉ Chili. Fl. middle-sized, deep yellow, Feb. and March.

ANTHEMIS, L. (DC. *pr.* 6, p. 4.)

1. *arvensis*, L. (DC. *o. c. p.* 6;—*E. B.* 9, t. 603.—*Chamæmelum arvense*, *All.*) Corn Chamomile. ☉ Europe. Levant. Egypt. Fl. largish, white, with a yellow disk, Feb. and March.

MARUTA, Cass. (DC. *pr.* 6, p. 13.)

1. *Cotula*, DC. (*l. c.*—*M. vulgaris*, *Bluff and Fing.*—*M. foetida*, *Cass.*—*Anthemis Cotula*, L.;—*E. B.* 25, t. 1772;—*Roxb. H. B.* p. 62.—*A. foetida*, *Lam.*—*A. cotuloides*, *Raf.*—*A. ramosa*, *Lk.*—*Chamæmelum Cotula*, *All.*) ☉ Europe. N. Africa. Madeira. Canaries. Crimea. Persia. Fl. middle-sized, white, with a yellow disk, March and April; fr. 0.

2. *fuscata*, DC. (*pr.* 6, p. 14.—*Anthemis fuscata*, *Brot.*—*A. præcox*, *Lk.*—*A. fallax*, *Willd.*) ☉ S. Europe. N. Africa. Fl. like those of No. 1. March and April; fr. 0.

PTARMICA, Tournef. (DC. *pr.* 6, p. 19.)

1. *vulgaris*, Blackw. (*Herb. t.* 256;—DC. *o. c. p.* 23.—*Achillea Ptarmica*, L.;—*E. B.* 11, t. 757.) ♀ Europe. Siberia. Fl. smallish, white, C. S.; fr. 0.

ACHILLEA, L. (DC. *pr.* 6, p. 24.)

1. *Millefolium*, L. (DC. *l. c.*;—*E. B.* 11, t. 728.) *Milfoil*. ♀ Europe. N. Asia. Fl. middle-sized, white, R. and C. S.; fr. C. S.

2. *tanacetifolia*, All. (DC. *pr.* 6, p. 25.) ♀ France. Switzerland. Italy. Fl. middle-sized purple, C. S.; fr. 0.

3. *asplenifolia*, Vent. (*H. Cels. t.* 95;—DC. *pr.* 6, p. 26.—*A. crispa*, *Lam. herb.*—*A. nova*, *Herm. in herb. L'Herit.*—*A. rosea*, *Desf.*) ♀ Native place uncertain. Fl. smallish, rose-coloured, C. S.

4. *crithmifolia*, Wald. and Kit. (DC. *pr.* 6, p. 25.) ♀ Hungary. Has been introduced into H. C. G.

5. *nobilis*, L. (DC. *pr.* 6, p. 26.) ♀ S. Europe. Introduced in 1841.

LEUCANTHEMUM, Tournef. (DC. pr. 6, p. 45.)

1. *vulgare*, Lam. (DC. o. c. p. 46.—Chrysanthemum Leucanthemum, L.;—E. B. 9, t. 601;—Roxb. H. B. p. 62.—C. montanum, Willd.; not L.) 2. Europe. Fl. very large, white, with a yellow disk, C. S.

MATICARIA, L. (DC. pr. 6, p. 50.)

1. *suaveolens*, L. (DC. o. c. p. 51;—Roxb. fl. ind. 3, p. 437.—M. Chamomilla, Wall. MSS. not L.) © Hindoosthan. Persia. (Roxb.) Cashmere. (Royle.) Fl. smallish, white, with a yellow disk, Feb.; fr. H. S.

PYRETHRUM, Gärtn. (DC. pr. 6, p. 53.)

1. *maritimum*, Sm. (DC. l. c.;—E. B. 14, t. 979.—Matricaria maritima, L.—Chrysanthemum maritimum, Pers.) 2. Sea-coasts of England, Gothland and N. W. France. Fl. middle-sized, white, with a yellow disk, C. S.; fr. H. S.
2. *Parthenium*, Sm. (DC. pr. 6, p. 58;—E. B. 18, t. 1231.—Matricaria Parthenium, L.—M. odorata, Lam.) 2. Europe. Fl. smallish, white, with a yellow disk, C. S.; fr. H. S.
3. *Myconis*, Mönch. (Suppl. p. 287;—Spreng. excl. syn.;—DC. pr. 6, p. 61.—Chrysanthemum Myconis, L.;—Jacq. obs. 4, p. 10, t. 94.—Coleostephus Myconis, Cass.) © S. Europe. N. Africa. Fl. large, deep-yellow, March; fr. April.
4. *indicum*, Cass. (not Roxb.;—DC. pr. 6, p. 62.—Chrysanthemum indicum, L.; Sabine, trans. hort. soc. 14, p. 144;—E. Reg. 15, t. 1287.—Roxb. fl. ind. 3, p. 436;—J. Grah. Cat. B. pl. p. 102; not B. M., nor Thunb. nor in J. Grah. as to the remarks.—C. tripartitum, Sirt. fl. gard. t. 193.) चन्द्र मूलिका Chundro-moolika. गुल दाउदी Gool-daoodee. 2. China. Japan. Dindygul. Taong-Dong. Common in gardens. Fl. middle-sized, or smallish, yellow, R. and C. S.; fr. C. S.
- β. *plenum*, (Chrysanthemum indicum, β. plenum, B. Reg. 18, t. 1502;—Rheed. 10, t. 44;—Rumph. 5, t. 91, f. 1.) Fl. yellow, double.
5. *sinense*, DC. (pr. 6, p. 62.—Chrysanthemum sinense, Sabin. trans. hort. soc. 4, t. 14.—Chrysanthemum indicum, Thunb.;—Lour.;—J. Grah. Cat. B. pl. p. 102, as to the remarks, and excl. all syn.—Anthemis grandiflora, Ramat.;—DC. hort. monspel.—A. artemisiæ-folia, Willd.—A. stipulacea, Mönch.) 2. Japan. Cultivated in China, India, Europe, and America. Fl. large, of various colours, (dark purple, purple-lilac, rose, white, yellow, orange, variegated,) in our gardens double, C. S.
- α. *purple*. (Chrysanthemum indicum, B. M. 10, t. 327, excl. syn.)
- β. *changeable-white*. (Chrysanthemum indicum, β. B. M. 46, t. 2042, excl. syn. Curt. Willd. 3, p. 2147. Rheed. and Rumph.)
- γ. *rose-coloured*. (Chrysanthemum sinense, B. M. 52, t. 2556.)
- δ. *golden-yellow*. (Chrysanthemum indicum, α. B. Reg. 1, t. 4.)
- ε. *quilled-white*. (Chrysanthemum indicum, δ. B. Reg. 1, t. 4.)



2. *superb-white*. (*Chrysanthemum indicum*, var. *superbum*, *B. Reg.* 6, t. 455.)

n. *quilled-pink*. (*Chrysanthemum indicum*, var. 14, *B. Reg.* 8, t. 616.)

CHRYSANTHEMUM, L. (*DC. pr.* 6, p. 63.)

1. *foeniculaceum*, DC. (*o. c.* p. 66.—*Pyrethrum foeniculaceum*, *Choisy*.)
5 Canaries. Fl. smallish, white.

β. *bipinnatifidum*, DC. (*Pyrethrum foeniculaceum*, *B. Reg.* 4, t. 272.)
Fl. C. and H. S.; fr. H. S.

2. *segetum*, L. (*DC. pr.* 6, p. 64;—*E. B.* 8, t. 540;—*Roxb. H. B.* p. 61.
—*Pyrethrum segetum*, *Mönch.*) *Corn-Marygold*. ☉ Fields of Sweden,
Denmark, Belgium, France, England, and Germany. Fl. large, gold-
coloured, C. S.

3. *Roxburghii*, Desf. (*DC. pr.* 6, p. 64.—*C. senecioides*, *Dum.*—*Pyrethrum indicum*, *Roxb. fl. ind.* 3, p. 436;—*B. M.* 37, t. 1521;—*J. Grah. Cat. B. pl.* p. 102.—*Matricaria oleracea*, *Buch. in Wall. Cat.*—*Pinar-
dia Roxburghii*, *Less.*—*Glebionis Roxburghii*, *Cass.*) ☉ Bombay,
Bengal, (Serampore.) Fl. large, lively yellow, Feb. and March; fr.
H. S. The flowers &c. impress a peculiar pricking sensation on the
tongue when chewed. (*Nimmo*.)

4. *carinatum*, Schousb. (*DC. pr.* 6, p. 65.—*C. tricolor*, *Andr. B. Re-
pos.* 2, t. 109;—*B. M.* 15, t. 508.—*Ismelia versicolor*, *Cass.*) ☉ N.
Africa, near Mogadore. Fl. large, yellow-white, with a purplish and
dark purplish disk, March; fr. April.

DIMORPHOTHECA, Vaill. (*DC. pr.* 6, p. 70.)

1. *hybrida*, DC. (*l. c.*—*D. incrassata*, *Mönch.*—*Calendula hybrida*, L.—
Meteorine crassipes, *Cass.*) ☉ C. G. H. Fl. middle-sized, above
whitish, underneath purplish, March; fr. O.

LONAS, Adans. (*DC. pr.* 6, p. 84.)

1. *inodora*, Gärtn. (*fr.* 2, p. 396, t. 165, f. 5;—*DC. l. c.*—*L. inodora*
and *minima*, *Cass.*—*Athanasia annua*, L. sp. 1182; excl. *Triumf.*
syn.;—*B. M.* 49, t. 2276.—*Achillea inodora*, L. sp. ed. 2, p. 1265.)
☉ N. Africa, Sicily. Fl. small, dirty dark-yellowish, March; fr. O.

ARTEMISIA, L. (*DC. pr.* 6, p. 93.) *Wormwood*.

1. *scoparia*, Waldst. and Kit. (*pl. rar. hung.* 1, p. 66, t. 65;—*DC. pr.*
6, p. 99.—*A. elegans*, *Roxb. fl. ind.* 3, p. 421.) ☉ Siberia. China.
Persia. Cashmere. Kamaon. Caucasus. Crimea. Smyrna. Armenia.
Hungary. Lithuania. Fl. small, yellow, March; fr. H. S.

2. *parviflora*, Buch. (*Roxb. fl. ind.* 3, p. 420;—*DC. pr.* 6, p. 100.—*A.*
glabrata, *Wall. Cat.* ?—*DC. l. c.*) 4. Khassya Mountains, Nepal. Fl.
minute, green, May. (*Roxb.*)

3. *paniculiformis*, DC. (*pr.* 6, p. 107.—*A. paniculata*, *Roxb. fl. ind.*
3, p. 418; not Lam.) 5 Persia. (*Roxb. H. B.*) Fl. small, yellow, C.
S.; fr. H. S. The smell of the plant is somewhat like that of South-
ernwood, but less powerful.

4. *Abrotanum*, L. (DC. pr. 6, p. 108;—*J. Grah. Cat. B. pl.* p. 102.) Southernwood. 5 Hills of S. Europe. Fl. very small, greenish-white, C. S.; fr. 0.
 5. *vulgaris*, L. (DC. pr. 6, p. 112;—*E. B.* 14, t. 978;—*Roxb. fl. ind.* 3, p. 420.—*A. officinalis*, *Gat. fl. mont.* p. 144.) नागदानी Nagdana. Magwort. 4. Europe. N. Africa. Levant. Siberia. Cultivated in gardens in India. Fl. minute, purplish, Feb. and March; fr. H. S.
 6. *indica*, Willd. (DC. pr. 6, p. 114;—*Roxb. fl. ind.* 3, p. 419;—*J. Grah. Cat. B. pl.* p. 102, excl. syn. Rheed. Rumph. and Pluk.) दाना Dana. 5 China Japan. Nepal. Cultivated in India. Fl. very small, greenish, Feb. and March; fr. H. S. Leaves of a slightly aromatic odour, and of a bitterish taste. (*Roxb.*)
 7. *grata*, Wall. (*Cat.*—DC. pr. 6, p. 114.—*A. vulgaris*, *Burm. fl. ind.* p. 177;—*Rheed.* 10, t. 45.) 4. Peninsula of India. Fl. small, greenish-white, Feb.
 8. *lactiflora*, Wall. (*Cat.*—DC. pr. 6, p. 115.) 4. China. Fl. small, whitish, C. S.
 9. *carvifolia*, Buch. (*Roxb. fl. ind.* 3, p. 422;—DC. pr. 6, p. 119.—*A. riparia*, *Buch. herb.*) © Khassya Mountains. Nepal. Fl. minute, greenish-yellow. In H. C. G. fl. March and April. (*Roxb.*)
- CROSSOSTEPHIUM, Less. (DC. pr. 6, p. 127.)
1. *artemisioides*, Less. (DC. l. c.—*Artemisia chinensis*, *Vahl.* not L.) 5 Luçon, near Manilla. Canton. Fl. minute, sulphur-coloured, C. S.; fr. 0.
- TANACETUM, L. (DC. pr. 6, p. 127.)
1. *vulgare*, L. (DC. o. c. p. 128;—*E. B.* 18, t. 1229;—*Roxb. H. B.* p. 61;—*Gärtn. fr.* 2, p. 395, t. 165, f. 7;—*Lam. ill.* t. 696, f. 1.—*T. sibiricum*, *Falk. topogr.* 2, No. 992.) Common Tansy. 4. Europe. Tauria. Fl. minute, yellow, C. S.; fr. H. S. The whole plant is very bitter, and exhales a peculiar, strong scent. Its medicinal use is now obsolete.
- MYRIOGYNE, Less. (DC. pr. 6, p. 139.)
1. *minuta*, Less. (DC. l. c.—*Cotula minuta*, *Forst.*—*C. minuta* and *cuneifolia*, *Willd.*—*Grangea minuta* and *cuneifolia*, *Poir.*—*G. decumbens*, *Desf.*—*Artemisia minima*, *Thunb.*; not L.—*Dicrocephala minuta*, *L'Herit. MSS.*) © Japan India. Luçon. New Holland. New Zealand. N. Caledonia. Madagascar. Fl. minute, yellow.
 - β. *lanuginosa*, DC. (*Artemisia sternutatoria*, *Roxb. fl. ind.* 3, p. 423.—*Cotula minima*, *Bl.*—*C. sternutatoria*, *Wall. Cat.*) हौहूँ Hachutee. © Java. Bengal, (Serampore.) Fl. Feb. and March; fr. H. S. The minute seeds are used as a sternutatory by the natives. *Roxb.* says he often used them successfully himself.
- MACHLIS, DC. (pr. 6, p. 140.)
1. *hemisphærica*, DC. (l. c. and in *Detess. ic. sel.* 4, t. 50.—*Artemisia hemisphærica*, *Roxb. fl. ind.* 3, p. 423.—*Cotula hemisphærica*, *Wall.*



Cat.—*Echulia nepalensis*, *Spreng. MSS.*—*Grangea mucronata*, *Buch. herb.*) ☉ Bengal, (Serampore.) &c. Fl. small, yellow, Feb. and March; fr. H. S.

HELICHRYSUM, Vaill. (*DC. pr.* 6, 169.)

1. *bracteatum*, Willd. (*DC. o. c.* p. 189.—*H. chrysanthum*, *Pers.*—*Elchrysium lucidum*, *Hänk.*—*Xeranthemum bracteatum*, *Vent.*) ♀. Fl. heads large; florets bright-yellow, March; fr. O. S. and E. New Holland.

GNAPHALIUM, L. (*DC. pr.* 6, p. 221.) *Everlasting.*

1. *indicum*, L. (*DC. pr.* 6, p. 231 ;—*Roxb. H. B.* p. 61 ;—*J. Grah. Cat. B. pl.* p. 97.—*G. pluricaule*, *Buch. herb.*—*G. multicaule*, *Willd.* ;—*Roxb. fl. ind.* 3, p. 425 ; not Lam.—*G. polycaulon*, *Pers.*—*G. pluricaule*, *Poir.*—*G. strictum*, *Roxb. fl. ind.* 3, p. 424.) ☉ Ceylon. Peninsula of India. Prome. Martaban. Bengal, (Serampore.) Fl. very small; florets yellow, C. S. ; fr. Feb. and March.
2. *Roxburghianum*, (*G. albo-luteum*, *Roxb. fl. ind.* 3, p. 425. not *G. luteo-album*, L.) ☉ Bhootan. Fl. minute, yellow, Feb. and March; fr. H. S. (*Roxb.*)

FILAGO, Tournef. (*DC. pr.* 6, p. 247.)

1. *prostrata*, DC. (*o. c.* p. 248.—*Gnaphalium prostratum*, *Roxb. herb.*—*G. depressum*, *Roxb. fl. ind.* 3, p. 425.—*Evax indica*, *Buch. in Wall. herb.*) ☉ Negapatam. Patna. Fl. minute, yellow, Feb. and March; fr. H. S. (*Roxb.*)

CREMOCEPHALUM, Cass. (*DC. pr.* 6, p. 297.)

1. *cernuum*, Cass. (*DC. l. c.*—*Senecio cernuus*, *L. fil. suppl.* p. 370 ;—*Ait.*—*S. rubens*, *Jacq. h. vind.* 3, p. 50, t. 98.—*S. uniflorus*, *Retz.*—*S. purpureus*, *Will. fl. maur.* 51.—*Crassocephalum cernuum*, *Mönch.*) ☉ Mauritius. Bourbon. Madagascar. Fl. small, purple, March.

GYNURA, Cass. (*DC. pr.* 6, p. 298.)

1. *sarmentosa*, DC. (*l. c.*—*Cacalia sarmentosa*, *Bl. bijdr.* p. 907.—*C. reclinata*, *Roxb. fl. ind.* 3, p. 412 ;—*Wall. Cat.*—*C. cylindriflora*, *Wall. Cat.*—*Rumph.* 5, t. 103, f. 2. ?) ♀. Java. Penang. Singapore. Fl. largish, orange, C. S.
2. *purpurascens*, DC. (*pr.* 6, p. 299.—*Cacalia purpurascens*, *Wall. Cat.*) ♀. Nepal. Fl. yellow. In H. C. G. Fl. ?
3. *bicolor*, DC. (*l. c.*—*Cacalia bicolor*, *Roxb. fl. ind.* 3, p. 412.—*Salisb. parad.* t. 25 ;—*B. Reg.* 2, t. 110.) ♀. Moluccas. Fl. largish, deep orange, and fr. C. S.
4. *nepalensis*, DC. (*pr.* 6, p. 300.—*Cacalia nepalensis*, *Spreng. MSS.*—*C. aurantiaca*, *Wall. Cat.* not Bl.) ♀. Nepal. Fl. largish, orange, C. S.

EMILIA, Cass. (*DC. pr.* 6, p. 301.)

1. *sonchifolia*, DC. (*o. c.* p. 302.—*E. purpurea*, Cass.—*Cacalia sonchifolia*, L. ; not Forsk ;—*Roxb. fl. ind.* 3, p. 413 ;—*J. Grah. Cat. B. pl.* p. 98.—*C. sonchifolia*, and *glabra*, *Wall. Cat.*—*C. prenanthoides*,

Sieb. excl. syn. Kth.—*Senecio sonchifolia*, *Mönch*—*Crassocephalum sonchifolium*, *Less.*—*Rheed.* 10, t. 68;—*Rumph.* 5, t. 103, f. 1.)
शुद्धि शुद्धि *Shudi-mudi*. ☉ China. Timor. Mauritius. Moluccas. Both Peninsulas of India. Bengal, (Serampore,) &c. Fl. small, bright purple, and fr. C. S.

2. *sagittata*, DC. (*pr.* 6, p. 302.—*E. flammea*, *Cass.*—*Cacalia sagittata*, *Vahl. symb.* 3, p. 91, excl. syn.—*C. coccinea*, *Curt. B. M.* 16, t. 564.)
☉ Philippine Islands. Fl. smallish, deep orange, scarlet, and fr. C. S.

SENECIO, L. (*DC. pr.* 6, p. 341.)

1. *vulgaris*, L. (*DC. l. c.*;—*E. B.* 11, t. 747;—*Roxb. H. B.* p. 61.) ☉ Europe. N. Africa. N. and temperate Asia. Fl. smallish, yellow, Feb. and March.

NOTONIA, DC. (*pr.* 6, p. 441.)

1. *grandiflora*, DC. (*l. c.* and in *Deless. ic. sel.* 4, t. 61.—*Cacalia grandiflora*, *Wall. Cat.*) ☽ Travancore. Neelgherries. Fl. heads largish, white, C. S.
2. *crassissima*, DC. (*l. c.*—*Cacalia crassissima*, *Wall.*) ☽ Ava. Fl. heads largish, white, C. S.

- * *Pterolobium arboreum*, R. Br. 5 St. Helena.—*Clitadium asperum*, DC. 2, Cayenne.—*C. erosum*, DC. ☽ W. Indies.—*Chrysogonum Diotostephus*, DC. 2, Carolina.—*Franseria artemisioides*, Willd. ☽ Peru.—*Philactis zinniioides*, Schrad. 2, Mexico.—*Zinnia verticillata*, Andr. B. Repos. 3, t. 189. ☉ Mexico.—*Wedelia radiosa*, Ker.; B. Reg. 8, t. 610. ☽ Brazil.—*W. carnosu*, Rich. 2, W. Indies.—*Meianthera hastata*, Rich. 2, Havannah.—*Helioopsis scabra*, Dun. (*H. canescens*, Don.; B. Reg. 7, t. 592.) 2, N. America.—*H. buphthalmoides*, Dun. 2, Peru.—*Ferdinanda augusta*, Lag. ☽ Mexico.—*Chrysophania fastigiata*, Kth. ☽ Mexico.—*Zaluzania triloba*, Pers. 2, Mexico.—*Chilophyllum globosum*, DC. 2, Mexico.—*Echinacea serotina*, DC. 2, S. Louisiana.—*E. heterophylla*, D. Don.; Swt. brid. fl. gard. ser. 2, t. 32. 2, Mexico.—*Rudbeckia fulgida*, Ait.; B. M. 49, t. 1996. 2, N. America.—*Obeliscaria pinnata*, Cass. (*Rudbeckia pinnata*, Vent.; B. M. 49, t. 2310.) 2, Carolina. Georgia.—*Wulffia maculata*, DC. (*Gymnoloma maculatum*, Ker.; B. Reg. 8, t. 662.) 2, Brazil.—*Encelia canescens*, Cav. B. Reg. 11, t. 909. ☽ Peru.—*Coreopsis lanceolata*, L.; B. M. 5, t. 156. 2, Carolina.—*C. diversifolia*, DC.; B. M. 63, t. 3474. 2, Carolina.—*C. senifolia*, Michx.; B. M. 63, t. 3484. 2, Carolina. Georgia.—*C. delphinifolia*, Lam. (*C. verticillata*, Willd.; B. M. 5, t. 156.) 2, Carolina.—*Simsia heterophylla*, DC. 2, Mexico.—*Leighia linearis*, DC. (*Helianthus linearis*, Cav.; B. Reg. 7, t. 523.) 2, Mexico.—*Tithonia togetiflora*, Desf.; B. Reg. 7, t. 591. ☉ Mexico.—*T. tubæformis*, Cass.; B. Reg. 18, t. 1519. ☉ Mexico.—*Bidens tripartita*, L.; E. B. 16, t. 1113. ☉ Europe.—*B. cernua*, Willd.; E. B. 16, t. 1114. ☉ Europe.—*B. striata*, Swt.; brit. fl. gard. t. 237.



Mexico.—*B. Coreopsisidis*, DC. 2. Jamaica.—*Cosmos caudatus*, H. B. and Kth. 2. W. Indies.—*Verbesina aurea*, DC. (*Weddellia aurea*, Hook; B. M. 62, t. 3384.) 5 Mexico.—*V. gigantea*, Jacq. 5 W. Indies.—*V. alata*, L.; B. M. 41, t. 1716. 2. Jamaica.—*V. crocata*, Less. (*Spilanthes crocata*, Sims.; B. M. 39, t. 1629.) 2. Mexico.—*Sanvitalia procumbens*, Lam.; B. Reg. 9, t. 707. © Mexico.—*Flaveria Contrayerva*, Pers.; B. M. 50, t. 2400. © Mexico.—*Adenophyllum coccineum*, Pers. Mexico.—*Tagetes lucida*, Cav.; B. M. 20, t. 740. © Mexico.—*T. tenuifolia*, Cav.; B. M. 46, t. 2045. © Peru.—*T. glandulifera*, Schrank. © Buenos Ayres.—*Parophyllum limifolium*, DC. 5 Mexico.—*Gaillardia Drummondii*, DC.; (*G. bicolor*, β . *Drummondii*, Hook.; B. M. 61, t. 3368.) © Mexico.—*G. lanceolata*, Michx. (*G. bicolor*, Ell.; B. M. 39, t. 1602.) 2. Carolina. Florida.—*Florestina pedata*, Cass. (*Stevia pedata*, Cav.; B. M. 46, t. 2040.) © Mexico.—*Hymenopappus scabioseus*, L'Herit. 2. Carolina. Georgia.—*Helenium quadridentatum*, Labill.; B. Reg. 7, t. 598. © Mexico.—*Calea jamaicensis*, Swz. 5 Jamaica.—*Sogalgina trilobata*, Cass. (*Galisoga trilobata*, Cav.; B. M. 44, t. 1895.) © Mexico.—*Madaria elegans*, DC. (*Madia elegans*, Don.; B. Reg. 17, t. 1458.) © California.—*Achillea Ageratum*, L. 2. S. Europe.—*A. decolorans*, Schrad. (*A. serrata*, E. B. 36, t. 1531.) 2. England.—*Santolina Chamæcyparissus*, L. 5 S. Europe.—*Matricaria Chamomilla*, L.; E. B. 18, t. 1232. © Europe.—*Pyrethrum carneum*, Bieb. (*P. roseum*, Lindl.; B. Reg. 12, t. 1034.) 2. Caucasus.—*Chrysanthemum coronarium*, L. © S. Europe. N. Africa.—*C. viscosum*, Desf. © S. Spain.—*C. frutescens*, L. 5 Canaries.—*Artemisia campestris*, L. E. B. 5, t. 338. 2. Europe.—*A. Moxa*, DC. 5 China.—*Rhodanthe Manglesii*, Lindl.; B. Reg. 20, t. 1703. © Swan River.—*Helichrysum bicolor*, Lindl.; B. Reg. 21, t. 1814. © Swan River.—*Neurolana lobata*, R. Br. (*Calea lobata*, Swz.; B. M. 42, t. 1734.) 5 Jamaica.—*Gynura angulosa*, DC. 2. Khassya Mountains.—*G. Pseudochina*, DC. 2. Canton.—*G. ovalis*, DC. (*Cacalia ovalis*, Ker.; B. Reg. 2, t. 101.) 2. China.—*Doronicum Pardalianches*, L.; E. B. 9, t. 630. 2. Europe.—*Cacalia reticulata*, Vahl. 2. Mauritius.—*C. flexuosa*, Wall. Cat. 2. Mauritius.—*Senecio ampullaceus*, Hook; B. M. 63, t. 3487. 2. Texas.—*S. Petasitis*, DC. (*Cineraria Petasitis*, Sims.; B. 37, t. 1536.) 5 Mexico.

e. Cynaræa, Less.

(DC. *pr.* 6, p. 449.)

CALENDULA, L. (DC. *pr.* 6, p. 451.)

1. *officinalis*, L. (DC. *l. c.*;—B. M. 59, t. 3204;—*Roxb. H. B.* p. 62;—*J. Grah. Cat. B. pl.* p. 101;—*Gärtn. fr.* 2, p. 422, t. 168, f. 4.—*Caltha officinalis*, *Mönch*.—*Caltha vulgaris*, *C. Bayh.*) *Common Marygold*. © S. Europe. Fl. large, deep orange, Feb. and March; fr. H. S.
2. *stellata*, Cav. (*icon.* 1, p. 3, t. 5.—DC. *pr.* 6, p. 454.—*C. Cristagalli*, *Viv.*) © Barbary. Fl. large, yellow, Feb. and March; fr. H. S.

ECHINOPS, L. (DC. pr. 6, p. 522.)

1. *echinatus*, Roxb. (*fl. ind.* 3, p. 447;—DC. pr. 6, p. 526;—J. Grah. Cat. B. pl. p. 95.) © Mysore. Deccan. Mahableshwur. Flower-heads large, greenish-white, Feb. and March; fr. H. S.

APLOTAXIS, DC. (pr. 6, p. 538.)

1. *cirsioïdes*, DC. (*l. c.*—*Carduus lanatus*, Roxb. *fl. ind.* 3, p. 408.)
ভিক বুয়া *Tik-booma*. © Bengal, (Serampore.) &c. Fl. large, pale purple, Feb. and March; fr. H. S.
2. *carthamoïdes*, DC. (*Serratula carthamoïdes*, Buch.;—Roxb. *fl. ind.* 3, p. 407.—*Saussurea carthamoïdes*, Flb. Buch.) © Khassya Mountains. Nepal. Martaban. Fl. small, rose-coloured, and fr. Nov. to March. (Roxb.)

AMBERBOA, DC. (pr. 6, p. 558.)

1. *indica*, DC. (*l. c.*—*Serratula indica*, Klein; Willd.; Wall. Cat.—*Athanasia indica*, Roxb. *fl. ind.* 3, p. 417.—*Centaurea indica*, Less.) © Peninsula of India. Fl. largish, purplish rose coloured, Feb. and March; fr. H. S. (Roxb.)
2. *odorata*, DC. (pr. 6, p. 559.—*Chryseis odorata*, Cass.) © Levant. Persia. Tauria. Iberia.
a. *ambracea*, DC. (*Centaurea Amberboi*, Lam.—*C. suaveolens*, Willd.—*C. moschata*, β. L.—*C. ambracea*, Schkuhr.) © Fl. largish, bright yellow, sweet-scented, Feb. and March; fr. H. S.
3. *moschata*, DC. (pr. 6, p. 560.—*Centaurea moschata*, α. L.—Roxb. *fl. ind.* 3, p. 444;—J. Grah. Cat. B. pl. p. 95.—*Chryseis moschata*, Cass.) सौमन्द *Sapusund*.—*Sweet Sultan*. © Levant. Greece. Fl. large, lilac purplish, sweet scented, C. S.; fr. H. S.

TRICHOLEPIS, DC. (pr. 6, p. 563.)

1. *radicans*, (DC. o. c. p. 564.—*Carduus radicans*, Roxb. *fl. ind.* 3, p. 408.—*C. glaber*, Hb. Buch.—*C. punctatus*, Hb. Madr.) © Mysore. Fl. middle-sized, lively lilac, R. S.; fr. C. S. (Roxb.)

CENTAUREA, L. (DC. pr. 6, p. 565.)

1. *glastifolia*, L. (DC. o. c. p. 568;—B. M. 2, t. 62.) ५. Iberia. Armenia. Lower Caucasus. S. Siberia. Fl. large, bright yellow, C. S.
2. *macrocephala*, Muss. Puschk. (DC. l. c.;—B. M. 31, t. 1428.) ५. Iberia. Fl. very large, deep yellow, C. S.
3. *alba*, L. (DC. pr. 6, p. 569.) ५. S. Europe. Fl. largish, white, C. S.
4. *amara*, L. (DC. l. c.—*Jacea supina*, Lam. *fl. fr.* 2, p. 53.—*C. Jacea*, γ. Lam. dict. 1, p. 666.—*C. alba*, Sut. *fl. helv.* 2, p. 204; not L.) ५. Meadows of S. Europe.
c. *bracteata*, DC. (*C. bracteata*, Bertol. dec. 1. in Röm. cat. 1, p. 111;—Scop. del. 2, p. 17, t. 9.) ५. S. France. Italy. Fl. large, white, R. and C. S.
5. *Jacea*, L. (DC. pr. 6, p. 570;—E. B. 24, t. 1678.—*Cyanus Jaceus*, Baumg.) ५. Meadows of middle Europe. Fl. large, bright purple, R. and C. S.; fr. C. S.



6. *nigra*, L. (DC. pr. 6, p. 571;—E. B. 4, t. 278.—*Cyanus niger*, Gärtn. fr. 2, p. 382, t. 161, f. 4.—*Jacea nigra*, Cass.—*Rhaponticum ciliatum*, Lam.) ♀. Meadows of Europe. Fl. large, bright purple, R. and C. S.; fr. C. S.
7. *phrygia*, L. (DC. pr. 6, p. 573;—fl. dan. t. 520.—*Lepteranthus hygrometricus*, Cass.) ♀. Alpine meadows of France, Switzerland, Piedmont, Germany, and Denmark. Fl. large, violet, red, C. S.; fr. March.
8. *Cyanus*, L. (DC. pr. 6, p. 578;—E. B. 4, t. 277;—J. Grah. Cat. B. pl. p. 95.—*Jacea segetum*, Lam.—*Cyanus arvensis*, Mönch.—*Cyanus segetum*, C. Bauh.—*Cyanus vulgaris*, Lob.; Cass.) Corn Blue-bottle. ☉ Corn-fields of Europe. Fl. large, bright blue, with a purplish disk, Feb. and March; fr. April.
9. *paniculata*, L. (DC. pr. 6, p. 583.—*Jacea paniculata*, Lam.) ♂. Hills and sterile places of S. France, Spain, Italy, &c. Fl. largish, white, R. S.
10. *melitensis*, L. (Syn. uncertain.—DC. pr. 6, p. 593.) ☉ Malta. Sicily. Madeira, Teneriffe. Fl. largish, yellow, Feb. and March; fr. April.
11. *sphærocephala*, L. (DC. pr. 6, p. 599.—B. M. 52, t. 2551.—C. caespitosa, Vahl.) ♀. Dry maritime places of Italy. Sicily. Corsica. Sardinia, Spain, and N. Africa. Fl. large, purple, C. S.
- CNICUS, Vaill. (DC. pr. 6, p. 606.)
1. *benedictus*, L. (DC. l. c.;—Gärtn. fr. 2, p. 385, t. 165, f. 5.—*Centaurea benedicta*, L.;—Roxb. H. B. p. 62.—*Carduus benedictus*, Cam.—*Calcitrapa lanuginosa*, Lam.) ☉ Stony and cultivated places of Persia, Tauria, Greece, &c. Fl. large, yellow, Feb. and March.
- CARTHAMUS, Tournef. (DC. pr. 6, p. 611.)
- c. *tinctorius*, L. (DC. o. c. p. 612;—B. Reg. 2, t. 170;—Gärtn. fr. 2, p. 375, t. 161, f. 2;—Lam. ill. t. 661, f. 3;—Roxb. fl. ind. 3, p. 409;—J. Grah. Cat. B. pl. p. 95;—Rumph. 5, t. 79, f. 2.) कूड़म Koosoom, Safflower. ☉ India, from whence it has wandered into Egypt, the Levant, N. Africa, Europe, Madeira, &c. Fl. large, deep orange, C. S.; fr. H. S. Cultivated in India for the use of the dyers, as also for the oil obtained from the seeds. (Roxb.)
- SILYBUM, Vaill. (DC. pr. 6, p. 616.)
1. *marianum*, Gärtn. (fr. 2, p. 378, t. 168, f. 2;—DC. l. c.—*Carduus marianus*, L.;—E. B. 14, t. 976;—Roxb. H. B. p. 60.—*Silybum maculatum*, Mönch.—*Cirsium maculatum*, Scop.—*Carthamus maculatus*, Lam.) ☉ S. Europe. England. W. Asia. Fl. large, purplish, Feb. and March; fr. H. S.
- ONOPORDON, Vaill. (DC. pr. 6, p. 617.)
1. *Acanthum*, L. (DC. o. c. p. 618;—E. B. 14, t. 977;—Roxb. H. B. p. 60.—*Acanos Spina*, Scop.) Cotton Thistle. ♂. Europe. Fl. large, deep purple, C. S.



CARDUUS, Tournef. (DC. pr. 6, p. 621.)

1. *nulans*, L. (DC. l. c.; —E. B. 16, t. 1112. —C. *apenninus*, Jan. herb. —C. *montosus*, Poll.) ☉ Europe. Fl. large, rich crimson, strongly smelling of musk, Feb.; fr. H. S.
2. *tenuiflorus*, Sm. (E. B. 6, p. 412; —DC. pr. 6, p. 626; —Roxb. H. B. p. 60.) ☉ England. S. Europe, from Madeira to Tauria and Persia. Fl. smallish, pale purple, Feb. and March.
3. *arabicus*, Jacq. (Coll. 1, p. 56; —icon. rar. 1, t. 166; —DC. pr. 6, p. 626. —C. *Galactites*, Lam.) ☉ Arabia. Syria. Malta. Sicily. Fl. like those of No. 2, Feb. and March; fr. H. S.

CYNARA, Vaill. (DC. pr. 6, p. 620.)

1. *Scolymus*, L. (DC. l. c.; —Roxb. fl. ind. 3, p. 409; —J. Gralh. Cat. B. pl. p. 95; excl. B. M.) *Artichoke*. ♀. Native place uncertain. Fl. very large, blue-violet, Feb. and March; fr. H. S.

CIRSIIUM, Tournef. (DC. pr. 6, p. 634.)

1. *lanceolatum*, Scop. (DC. o. c. p. 636. —Carduus *lanceolatus*, L.; —E. B. 2, t. 107; —Roxb. H. B. p. 60. —Cnicus *lanceolatus*, Hoffm. —Lophiolepis *dubia*, Cass. —Eriolepis *lanceolata*, Cass.) ♂. Fl. large, pale purple, Feb. and March.
2. *horridulum*, Michx. (DC. pr. 6, p. 651; —Roxb. H. B. p. 60. —Carduus *spinosissimus*, Wall.; not Vill. —Carduus *horridulus*, Pers. —Cnicus *horridulus*, Ell.) ♀. Carolina. Fl. large, purple. In H. C. G. fl. C. S.; fr. H. S. (Roxb.)

NOTOBASIS, Cass. (DC. pr. 6, p. 660.)

1. *syriaca*, Cass. (DC. l. c. —Carduus *syriacus*, L.; —Roxb. H. B. p. 60. —Cirsium *syriacum*, Gärtn. fr. 2, p. 383, t. 163, f. 2; —Cirsium *maculatum*, Mönch. —Cnicus *syriacus*, Willd. excl. syn. Bauh. —Cnicus *obvallatus*, Salzmann.) ☉ Madeira. Portugal. N. Africa. Corsica. Italy. Sicily. Archipelago. Egypt. Syria. Fl. purple. In H. C. G. fl. Feb. and March. (Roxb.)

LAPPA, Tournef. (DC. pr. 6, p. 661.)

1. *toментosa*, Lam. (DC. l. c. —Arctium *tomentosum*, Schkuhr. —A. *Lappa*, β. L. —A. *Bardana*, Willd.; —E. B. 35, t. 2478.) ♂. Europe. Fl. largish, bluish-red, C. S.
2. *minor*, DC. (l. c. —Arctium *minus*, Schkuhr. —A. *Lappa*, E. B. 18, t. 1228.) *Clot-Bar*, ♂. Europe. W. Asia. Fl. largish, purple, C. S.

JURINEA, Cass. (DC. pr. 6, p. 673.)

1. *alata*, Cass. (DC. o. c. p. 675. —Serratula *alata*, Desf.; not Poir. Carduus *alatus*, Don.; —Sw. brit. fl. gard. 2, t. 103.) ♂. Caucasus. Fl. purple, C. S.

* *Calendula arvensis*, L. ☉ S. Europe. —C. *parviflora*, Rafin. ☉ Sicily. —*Cryptostemma calendulaceum*, R. Br. ☉ C. G. H. —C. *hypochondriacum*, R. Br. ☉ C. G. H. —*Echinops niveus*, Wall.; Royle ill. 56, f. 1.



© Shrinagur. Mussooree.—*Carlina vulgaris*, L.; E. B. 16, t. 1144. ♂ Europe. Levant.—*C. sicula*, L. © S. Europe.—*Centaurea pectinata*, L. ♀ S. France.—*C. Scabiosa*, L.; E. B. 1, t. 56. ♀ Europe.—*C. spinosa*, L.; B. M. 51, t. 2493. ♂ Greece. Levant.—*C. solstitialis*, L.; E. B. 4, t. 243. © England. S. Europe.—*C. aurea*, Ait.; B. M. 12, t. 421. ♀ S. Europe.—*C. Calcitrapa*, L.; E. B. 2, t. 125. © Europe.—*Kentrophyllum lanatum*, DC. (*Carthamus lanatus*, L.; B. M. 47, t. 2142.) © S. Europe.—*K. arborescens*, Hook.; B. M. 61, t. 3302.—*Carduncellus cæruleus*, DC. (*Carthamus cæruleus*, L.; B. M. 49, t. 2293.) ♀ S. Europe.—*Onopordon arabicum*, L.; B. M. 61, t. 3299. ♂ Greece. S. France. Portugal.—*Cynara Cardunculus*, L.; B. M. 60, t. 3241. ♀ S. Europe.—*Cirsium arvense*, Scop. (*Carduus arvensis*, L.; B. 14, t. 975.) ♂ S. Europe.—*Erythrolæna conspicua*, Swt.; B. M. 56, t. 2909. ♀ Mexico.—*Serratula tinctoria*, L.; E. B. 1, t. 38. ♀ Europe.

B. LABIATIFLORÆ, DC.

(Pr. 7, p. 1.)

f. Mutisiææ.

(Mutisiaceæ, Less. DC. l. c.)

- * *Mutisia speciosa*, Hook.; B. M. 54, t. 2705.—*Ainsliea pteropoda*, DC. ♀ Nepal.—*Berniera nepalensis*, DC. ♀ Khassya Mountains. Nepal.—*Tricocline incana*, Cass. ♀ Brazil.—*Lycoseris mexicana*, Cass. and Less. ♂ Mexico.—*Anastrophia ilicifolia*, Don. ♂ Havannah.—*Onoseris reflexa*, Less. (*Centroclinium reflexum*, Hook.; B. M. 58, t. 3114.) ♂ Peru.—*Dicoma lanuginosa*, DC. ♀ Madras. Trichinopoly.—*Chaptalia tomentosa*, Vent. ♀ Carolina. Florida.—*C. dentata*, Cass. ♀ W. Indies.—*Leria nutans*, DC. ♀ Brazil.—*Loxodon brevipes*, Cass. ♀ Brazil.—*Chevreulia stolonifera*, Cass. ♀ Brazil.

g. Nassauviææ, Cass.

(Nassauviaceæ, Less.; DC. pr. 7, p. 48.)

- * *Triptilion spinosum*, Ruiz. and Pav. ♀ Chili.—*T. cordifolium*, Lag.; B. R. 10, t. 853. © Chili.—*Trixis corymbosa*, D. Don. ♂ Mexico.—*T. frutescens*, P. Browne. ♂ Jamaica. Mexico.—*T. divaricata*, Spreng. ♂ Brazil.—*T. brasiliensis*, DC. ♀ Buenos Ayres.—*Moscharia bipinnatifida*, Ruiz. and Pav.; B. Reg. 18, t. 1564. © Chili.

C. LIGULIFLORÆ, DC.

(Pr. 7, p. 74.)

h. Cicoriææ.

(Cichoraceæ, Vaill.; DC. l. c.)

SCOLYMUS, Tournef. (DC. pr. 7, p. 75.)

1. *maculatus*, L. (DC. l. c.—Lam. ill. t. 659.—S. angiospermus, Gärtner. fr. 2, p. 356, t. 157, f. 4.—S. pectinatus, Cass.) © S. Europe. N. Africa. Fl. large, yellow, C. S.; fr. O.



LAPSANA, Tournef. (DC. pr. 7, p. 76.)

1. *communis*, DC. (l. c.—*Lapsana communis*, L.; *Gärtn. fr.* 2, p. 353, t. 175, f. 1;—*E. B.* 12, t. 844.) © Europe. Fl. small, light yellow, Feb. and March; fr. April.

2. *grandiflora*, Bieb. (DC. o. c. p. 77.—*L. lyrata*, Willd.—*L. glandulifera*, Cass.) © Fl. large, yellow, Feb. and March. Caucasus. Tauria.

RHAGADIOLUS, Tournef. (DC. pr. 7, p. 77.)

1. *stellatus*, Gärtn. (fr. 2, p. 354, t. 157, f. 2.)

γ. *edulis*, DC. (R. *edulis*, Gärtn. fr. 2, p. 354.—*Lapsana Rhagadiolus*, L.) © S. Europe. Fl. smallish, yellow, Feb. and March; fr. April.

HYOSERIS, L. (DC. pr. 7, p. 79.)

1. *microcephala*, Cass. (DC. l. c.—*H. scabra*, L.; not Mönch.—*H. adspersa*, Mönch.—*Hedypnois scabra*, Less.—*Rhagadiolus scaber*, All.) © Along the Mediterranean. Fl. small, yellow, Feb. and March; fr. April.

2. *radiata*, L. (DC. l. c.—*Hedypnois radiata*, Gärtn. fr. 2, p. 373, t. 160, f. 3.—*Leontodon radiatum*, Lam.—*Rhagadiolus stellatus*, All.—*Taraxacum saxatile*, Bocc.) ♀. Along the Mediterranean. Fl. largish, yellow, C, S.

HEDYPNOIS, Tournef. (DC. pr. 7, p. 81.)

1. *cretica*, Willd. (DC. l. c.;—*Hyoseris cretica*, L.—*Gärtn. fr.* 2, p. 360, t. 160, f. 2;—*Roxb. H. B.* p. 60.—*H. scabra*, Mönch; not L.—*Rhagadiolus creticus*, All.) © Creta. Nizza. Spain. Fl. yellow. In H. G. fl. C. S. (*Roxb.*)

2. *polymorpha*, DC. (pr. 7, p. 81.) © Mediterranean Coasts. Fl. smallish, yellow, Feb. and March; fr. April.

CICHORIUM, Tournef. (DC. pr. 7, p. 83.)

1. *Intybus*, L. (DC. o. c. p. 84;—*Gärtn. fr.* 2, p. 357, f. 6;—*E. B.* 8, t. 539;—*Roxb. H. B.* p. 60.) *Succory*. ♀. Road-sides of Europe. Fl. large, pale-blue, C. S.

2. *Endivia*, Willd. (DC. l. c.) © ♂ *Endivia*.

α. *Cosnia*, DC. (C. *Cosnia*, Buch. in Wall. Cat.) Patna. Nepal. Kemaon.

β. *sativa*, DC. (C. *Endivia*, L.;—*Roxb. H. B.* p. 60;—*J. Grah. Cat. B. pl.* p. 94.) Cultivated in gardens. Fl. large, blue and white, C. S.; fr. H. S.

TOLPIS, Bivon. (DC. pr. 7, p. 85.)

1. *barbata*, Gärtn. (fr. 2, p. 373, t. 160, f. 1;—*Lam. ill.* t. 651;—DC. o. c. p. 86.—*Crepis barbata*, L.—*B. M.* 1, t. 35; not Mill.—*C. bætica*, Mill.—*Swertia barbata*, All.—*Drepania barbata*, Desf.—*D. falcata*, Rouss.) © S. Europe. N. Africa. Fl. largish, straw-coloured, with a dark brown disk, Feb.; fr. H. S.

2. *altissima*, Pers. (DC. pr. 7, p. 86.—*T. sexaristata*, Bivon.—*Crepis altissima*, Balb.—*C. ambigua*, Balb. diss. p. 4, t. 1.—*C. virgata*, Desf.



—*Drepania ambigua*, DC. *cat. h. monspel.*—*Schmidtia ambigua*, Cass.)
♂. ⊙ Liguria. Corsica. N. Africa. Fl. yellowish, Feb. and March ;
fr. April.

HYPOCHÆRIS, Vaill. (DC. *pr.* 7, p. 90.)

1. *glabra*, L. (DC. *l. c.* ;—*Gärtn. fr.* 2, p. 374, t. 160, f. 4 ;—*Lam. ill.* t. 646, f. 1 ;—*Curt. lond.* 3, t. 149 ;—*E. B.* 9, t. 575.—*H. stellata*, *Gat.*—*H. dimorpha*, *Brot. fl. lus.* 1, p. 332.—*H. adscendens*, *Bort. phyt. lus. t.* 25.) ⊙ Europe. Fl. small, yellow, Feb. and March ; fr. April.

2. *radicata*, L. (DC. *pr.* 7, p. 91 ;—*E. B.* 12 t. 831 ;—*Curt. lond.* 3, t. 168.—*Achyrophorus radicans*, *Scop.* ;—*Gärtn. fr.* 2, p. 370, t. 159, f. 6.—*Porcellites radicata*, *Cass.*—*Seriola taraxacifolia*, *Salzm.*) ♀. Europe. Fl. large, yellow, C. S.

ACHYROPHORUS, Scop. (DC. *pr.* 7, p. 92.)

1. *hispidus*, DC. (*l. c.*—*Hypochaeris hispida*, *Willd. h. berol. t.* 46 ; not Roth.) ♀. Native country unknown. Fl. largish, yellow, C. S.

2. *maculatus*, DC. (*pr.* 7, p. 93.—*Hypochaeris maculata*, L. ; *Fl. dan. t.* 149.) ♀. Middle and N. Europe.

β. *monocephalus*, DC. (*Hypochaeris maculata*, *E. B.* 4, t. 225.) ⊙ England, &c. Fl. largish, yellow, C. S.

SERIOLO, L. (DC. *pr.* 7, p. 95.)

1. *ætnensis*, L. (DC. *l. c.* ;—*Gärtn. fr.* 2, p. 370, t. 159, f. 5 ;—*Jacq. obs.* 4, p. 3, t. 79 ;—*Lam. ill. t.* 656, f. 1.—*S. urens*, *All.* ; not L. *S. hispida*, *Mönch.*) ⊙ S. Europe. Fl. yellow, Feb. and March ; fr. April.

THRINCIA, Roth. (DC. *pr.* 7, p. 99.)

1. *hirta*, DC. (*l. c.* ; not Roth.—*Leontodon hirtus*, L. ;—*Curt. lond.* 2, t. 160.—*Hedypnois hirta*, *Sm.* ; *E. B.* 8, t. 555.—*Hyoseris hirta*, *Gärtn. fr.* 2, p. 373.—*Hyoseris taraxacoides*, *Lam.*) ♀. Europe. Fl. smallish, externally orange, internally yellow, C. S.

2. *hispida*, Roth. (DC. *pr.* 7, p. 100.—*T. hirta*, β, *crassa*, *Richt. lips.*—*T. taraxacoides*, *a. Gand.*—*Hyoseris taraxcoïdes*, *Vill. dauph.* 3, p. 166, t. 25 ; not Lam.—*Colobium hispidum*, *Roth.*—*Rhagadiolus taraxcoïdes*, *All.*—*Leontodon saxatilis*, *Lam.*) ⊙ Europe. Fl. like those of No. 1, Feb. and March.

3. *maroccana*, Pers. (DC. *l. c.*—*T. mauritanica*, *Spreng.*—*Hyoseris hispida*, *Schousb.* ;—*Willd.*) ⊙ Tangier. Mogador. Fl. largish, yellow, externally brownish, March ; fr. H. S.

LEONTODON, L. (DC. *pr.* 7, p. 101.)

1. *hastilis*, L. (DC. *o. c. p.* 102.—*L. danubialis*, *Jacq. austr. t.* 164.—*L. proteiformis*, var. A. B. C. *Vill. dauph.* 3, p. 87, t. 24.—*Apargia hastilis*, *Hoffm.*—*A. danubialis*, *Scop.*—*A. livida* and *heterophylla*, *Mönch.*—*Picris danubialis*, *All.*—*Virea hastilis*, *Gärtn. fr.* 2, p. 365, t. 159, f. 3.) ♀. Humid places of Europe. Fl. large, yellow, C. S. ; fr. H. S.

2. *caucasicus*, Fisch. (not Stev.—*DC. pr. 7, p. 104.*—*Apargia caucasica*, Bieb.) ♀. Caucasus. Fl. large, yellow, C. S.; fr. H. S.

APARGIA, Willd. (*DC. pr. 7, p. 107.*)

- ? 1. *Hamones*, Buch. (*Roxb. H. B. p. 60.*) ⊙ Nepal, from whence it was introduced into H. C. G., in 1802, where it fl. C. S.; fr. H. S. (*Roxb.*)

PODOSPERMUM, DC. (*pr. 7, p. 110.*)

1. *laciniatum*, DC. (*o. c. p. 111.*—*Scorzonera laciniata*, L.;—*Gärtn. fr. 2, p. 367, t. 159, f. 1.*—*S. paucifida*, Lam.—*S. petiolaris*, Lapeyr; excl. syn.) ♂. S. Europe. Fl. yellow, C. S.; fr. H. S.

GEROPOGON, L. (*DC. pr. 7, p. 111.*)

1. *glaber*, L. (*DC. l. c.*—*B. M. 14, t. 479.*—*Jacq. h. vind. 1, t. 33.*—*G. australis*, Spreng.) ⊙ Corn-fields about Nizza. Sardinia. Sicily. Spain. Madeira. Italy. Greece. Mogador. Fl. largish, pale rose-coloured, Feb. and March; fr. H. S.

TRAGOPOGON, Tournef. (*DC. pr. 7, p. 112.*)

1. *porrifolius*, L. (*DC. o. c. p. 113.*—*Jacq. icon. rar. t. 159.*—*E. B. 9, t. 638.*—*T. sativus*, Gat.) *Salsify*. ⊙ Europe. Fl. large, deep purple, Feb. and March; fr. C. S. The root, when boiled or stewed, has a mild sweetish flavour, and used formerly to be much more cultivated for the table than it is at present. (*Sm.*)

URÓSPERMUM, Scop. (*DC. pr. 7, p. 116.*)

1. *picroïdes*, Desf. (*DC. l. c.*—*Tragopogon picroïdes*, L.;—*Lam. ill. t. 646, f. 3.*—*T. aculeatum*, Mönch.—*Arnopogon picroïdes*, Willd.;—*Roxb. H. B. p. 60.*) ⊙ Greece. Italy. S. France. Spain, Madeira, &c. Fl. large, yellow, March; fr. April.

SCORZONERA, L. (*DC. pr. 7, p. 117.*)

1. *hispanica*, L. (*DC. o. c. p. 120.*—*Lam. ill. t. 647, f. 5.*—*Roxb. H. B. p. 60.*—*S. sativa*, Gater.—*S. denticulata*, Lam. fl. fr.) ♀. Spain. Fl. large, yellow, C. S. Root edible.

LACTUCA, Tournef. (*DC. pr. 7, p. 133.*)

1. *sativa*, L. (*DC. o. c. p. 138.*—*Roxb. fl. ind. 3, p. 403.*—*J. Grah. Cat. B. pl. p. 94.*—*L. romana longa dulcis*, J. Bauh.—*L. romana*, Gars. ic. t. 315.—*L. sativa longifolia*, Lam.—*L. sativa* and *bracteata*, Wall. Cat.) *Garden Lettuce*. ⊙ Native country unknown. Persia? Fl. small, pale yellow, Feb. and March; fr. H. S.

2. *Heyneana*, DC. (*pr. 7, p. 140.*—*Prenanthes sonchifolia*, Willd. sp. 3, p. 1541;—*Heyne*, in *Wall. Cat.*—*P. racemosa*, Roxb. fl. ind. 3, p. 405; not Michx.—*Chondrilla racemosa*, Poir.) ⊙ Coromandel. Negapatam. Fl. small, yellow. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)

TARAXACUM, Hall. (*DC. pr. 7, p. 145.*)

1. *Dens leonis*, Desf. (*DC. l. c.*—*T. Leontodon*, Dumort.—*T. officinale*, Vill.—*Leontodon Taraxacum*, L.;—*E. B. 8, t. 510.*—*Roxb. H. B. p. 60.*—*Gärtn. fr. 2, p. 363, t. 158, f. 7.*—*L. officinalis*, With.—*L. vulgaris*, Lam.—*Hedypnois Taraxacum*, Scop.) *Dandelion*. ♀. Mea-



adows and road-sides of Europe, W. Asia, and N. Africa. Fl. large, bright yellow. Was introduced into H. C. G. in 1807, but had not fl. up to 1814.

BORKHAUSIA, Mönch. (*DC. pr. 7, p. 152.*)

1. *alpina*, DC. (*o. c. p. 153.*—*B. scariosa*, Mönch.—*Crepis alpina*, L.;—*Gärtn. fr. 2, p. 354, t. 158, f. 8.*—*C. alpina* and *vesicaria*, Lam.) ⊙ Mountains of Tauria, Siberia, and Asia Minor. Fl. largish, yellow, Feb. and March.
2. *rubra*, Mönch. (*DC. pr. 7, p. 157.*—*Crepis rubra*, L.—*C. incarnata*, Vis.—*Pieris rubra*, Lam.) ⊙ Dalmatia. Greece. S. Italy. Fl. largish, pale rose-coloured, March; fr. H. S.
3. *foetida*, DC. (*pr. 7, p. 158.*—*Crepis foetida*, L.; *E. B. 6, t. 406; Roxb. H. B. p. 60.*—*C. foetens*, Lk.—*C. barbata*, Mill.; not L.—*Pieris foetida*, Lam.—*Wibelia graveolens*, fl. wett. 3, p. 144.—*Hos-tia foetida*, Mönch.) ⊙ Middle and S. Europe. Teneriffe. Tauria. Fl. largish, pale-yellow, Feb. and March; fr. H. S.

CREPIS, L. (*DC. pr. 7, p. 160.*)

1. *pulchra*, L. (*DC. l. c.*;—*E. B. 33, t. 2325.*—*Chondrilla pulchra*, Lam.—*Lampsana pulchra*, Vill.—*Prenanthes paniculata*, Mönch.—*P. hieracifolia*, Willd.—*P. pulchra*, DC. fl. fr.—*P. viscosa*, Baumg.—*Hieracium pulchrum*, J. Bauh.—*Phæcasium lampsanoides*, Cass.) ⊙ England. France. Germany. Italy. Tauria. W. Asia. Fl. small, pale-yellow, Feb. and March; fr. H. S.

ZACINTHA, Tournef. (*DC. pr. 7, p. 178.*)

1. *verrucosa*, Gärtn. (*fr. 2, p. 358, t. 157, f. 7;—DC. l. c.;—Desf. fl. alt. 2, p. 233.*—*Z. pendula*, Rausch.—*Lapsana Zacintha*, L.—*Ragadiolus Zacintha*, All.) ⊙ S. Europe. N. Africa, along the Mediterranean. Fl. yellow, March; fr. April and May.

MICRORRHYNCHUS, Less. (*DC. pr. 7, p. 180.*)

1. *asplenifolius*, DC. (*o. c. p. 181. excl. syn.* Roxb. which does not exist.—*Prenanthes asplenifolia*, Willd.;—*Roxb. fl. ind. 3, p. 404.*—*P. dichotoma*, Wall. Cat.) তিক চামা Tik-chama. ♂ Coromandel. Bengal, (Serampore.) Fl. largish, bright yellow, C. S.; fr. H. S.

PICRIDIMUM, Desf. (*DC. pr. 7, p. 182.*)

1. *tingitarum*, Desf. (*DC. l. c.*—*Scorzonera tingitana*, L.;—*B. M. 4, t. 142;—Roxb. H. B. p. 60.*—*S. tingitana* and *ciliata*, Forsk.—*Reichardia tingitana*, Roth.—*R. runcinata*, Mönch.—*Sonchus hispidulus*, Bosc.—*S. pinnatifidus*, Lag.) ⊙ Sea-rocks of Barbary, (especially at Tangier.) Egypt, Sicily, and the Balearic Islands. Fl. large, golden yellow, March; fr. H. S.
2. *vulgare*, Desf. (*DC. l. c.*—*Scorzonera picroïdes*, L.—*Sonchus picroïdes*, Lam.;—*All. ped. t. 16, f. 1;—Gärtn. fr. 2, p. 359, t. 158, f. 2.*—*S. squamosus*, Lam. fl. fr.—*Reichardia picroïdes*, Roth.—*R. integrifolia*, Mönch.) ⊙ Cultivated places along the Mediterranean. Fl. like those of No. 1. but smaller, March; fr. H. S.

SONCHUS, L. (DC. pr. 7, p. 184.)

1. *orizensis*, Roxb. (*fl. ind.* 3, p. 402;—*DC. pr.* 7, 190.) दम पीनङ्ग *Bun-pahng*. © Coromandel, (Samulkota.) Bengal, (Serampore.) &c. Fl. large, yellow, Feb. and March; fr. H. S. Cattle are fond of every part of the plant, which on being wounded, discharges much milky juice that thickens into a substance like fresh, soft opium. (*Roxb.*)
2. *ciliatus*, Lam. (*DC. pr.* 7, p. 185.—*S. oleraceus*, *L. α. and β.*—*S. oleraceus*, *E. B.* 12, t. 843;—*Roxb. fl. ind.* 3, p. 402; excl. syn. *Willd.* 3, p. 154.—*J. Grah. Cat. B. pl.* p. 94, excl. syn. *S. orizensis* *Roxb.*—*S. asper*, *Blackw. herb.* t. 30;—*Gärtn. fr.* 2, p. 360, t. 158, f. 2; not *Fuchs. Bess.*, &c.—*S. laevis*, *Vill.*—*Hieracium oleraceum*, *Scop.*) © Europe. Peninsula of India. Bengal, (Serampore.) &c. Fl. as in *No.* 1, Feb. and March; fr. H. S. Cattle are fond also of this species, which, on being wounded, yields a milky juice.

YOUNGIA, Cass. (DC. pr. 7, p. 192.)

- ? 1. *procumbens*, DC. (*pr.* 7, p. 193.—*Prenanthes procumbens*, *Roxb. fl. ind.* 3, p. 404.) ♂ Bengal. Fl. yellow. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)
- ? 2. *acaulis*, DC. (*l. c.*—*Prenanthes acaulis*, *Roxb. fl. ind.* 3, p. 403.) ♀. Dinagapore. Fl. yellow. In H. C. G. fl. March and April; fr. C. S. (*Roxb.*)
- ? 3. *linifolia*, (*Prenanthes linifolia*, *Roxb. H. B. p.* 60.) ♀. Bengal. In H. C. G. fl. and fr. C. S. (*Roxb.*)

HIERACIUM, L. (DC. pr. 7, p. 199.)

1. *Pilosella*, L. (*DC. l. c.*;—*E. B.* 16, t. 1093.) ♀. Hills and road-sides of Europe. Fl. largish, bright yellow, C. S.
2. *glomeratum*, Tröl. MSS. (*DC. pr.* 7, p. 207.—*H. cymosum*, *fl. dan.* t. 810; not *Vill.*) ♀. Denmark. Prussia. Fl. smallish, yellow, C. S.
3. *sabaudum*, All. (*Pedem. No.* 796, t. 27, f. 2; not *L. suæc.* nor German authors;—*DC. pr.* 7, p. 226;—*Lapeyr.*—*H. canadense*, *Hort. gotting.*—*H. cotoneifolium*, *Ger. h. easicc.*—*H. virgatum*, *Hort. greifsw.*—*H. sylvaticum*, *Lapeyr.*; not *Sm.*) ♀. Mountains and woods of S. Europe. Fl. pale yellow, C. S.; fr. H. S.

- * *Scolymus hispanicus*, L. ♂. Spain.—*S. grandiflorus*, Desf. ♀. Barbary. Sicily.—*Kölpinia linearis*, Pall. © Siberia. Bagdad.—*Arnoseris pusilla*, Gärtn. (*Hyoseris minima*, L.; *E. B.* 2, t. 95.) © Europe.—*Hyoseris lucida*, L. ♀. Greece. Egypt. Sicily.—*Aposeris foetida*, Less. ♀. S. Europe.—*Catananche coerulea*, L.; *B. M.* 9, t. 293. © S. Europe.—*Tolpis umbellata*, Bert. © S. Europe.—*T. macrorrhiza*, DC. (*Crepis macrorrhiza*, Banks.; *B. M.* 57, t. 2988.) ♀. Madeira.—*Krigia virginica*, Willd. © N. America.—*Microseris pygmaea*, Hook. and Arn. © Valparaiso.—*Cynthia Boschii*, DC. ♀. Carolina.—*Oporinia autumnalis*, Don. (*Hedypnōis autumnalis*, *E. B.* 12, t. 830 ?) ♀. Europe.—*Podospermum calcitrapifolium*, DC. ♀. S. Europe.—*Trago-*



pogon pratensis, L.; E. B. 7, t. 434. ♂ Europe, Levant.—*Urospermum Dalechampii*, Desf. (Arnopogon Dalechampii, Willd.; B. M. 39, t. 1623.) ♂ Italy. Spain.—*Scorzonera purpurea*, L.; B. M. 49, t. 2294. ♀ Germany.—*S. humilis*, L. ♀ Europe.—*S. mollis*, Bieb.; B. M. 57, t. 3027. ♀ Tauria.—*Picris hieracioides*, L.; E. B. 3, t. 196. ♂ Europe.—*Helminthia echiioides*, Gärtn. (*Picris echiioides*, L.; E. B. 14, t. 972.) ⊙ England, France.—*Lactuca perennis*, L.; B. M. 47, t. 2130. ♀ Europe.—*L. saligna*, L.; E. B. 10, t. 707. ⊙ Europe. Tauria. Syria.—*L. virosa*, L. E. B. 28, t. 1957. ⊙ Europe.—*L. Scariola*, L.; E. B. 4, t. 268. ♂ Europe.—*L. muralis*, DC. (*Prenanthes muralis*, L.; E. B. 7, t. 457.) ⊙ Europe.—*Pyrrophappus carolinianus*, Nutt. ♀ Carolina.—*Taraxacum Wallichii*, DC. ♀ Oude.—*T. palustre*, DC. (*Leontodon palustris*, Sm.; E. B. 8, t. 553.) ♀ Swampy places of Europe and N. America.—*Borkhausia setosa*, DC. ⊙ S. Europe.—*Crepis tectorum*, L.; E. B. 16, t. 1111. ⊙ Europe. Siberia.—*C. biennis*, L.; E. B. 3, t. 149. ⊙ Europe.—*C. hieracioides*, Willd. E. B. 31, t. 2210. ♀ Europe.—*Phanopus vimineus*, DC. ⊙ S. Europe.—*Endoptera Dioscoridis*, DC. ⊙ S. Europe.—*Microrrhynchus sarmentosus*, DC. Wight. ill. 2, t. 133. ♀ Negapatam. Penang. Mauritius.—*Zollikoferia pumila*, DC. ♀ Spain.—*Sonchus arvensis*, L.; E. B. 10, t. 674. ♀ Europe.—*Hieracium Auricula*, L.; E. B. 33, t. 2368. ♀ Wet places of Europe.—*H. aurantiacum*, L.; E. B. 21, t. 1469. ♀ Europe.—*H. sylvaticum*, Sm.; E. B. 29, t. 2031. ♀ England. France. Italy.—*H. venosum*, L. ♀ Carolina.—*H. umbellatum*, L.; E. B. 25, t. 1771. ♀ Meadows of Europe.—*H. sylvestre*, Tausch. (*H. sabaudum*, E. B. 5, t. 349; not L.) ♀ Europe.—*Nabulus Fraseri*, DC. ♀ S. Carolina.—*Andryala ragusina*, L. ♀ Ragusa.—*A. sinuata*, L. ♂ S. France.—*Mulgedium alpinum*, Less. (*Sonchus alpinus*, L.; E. B. 34, t. 2425.) ♀ Europe.

ORDER CLXXXVII.—DIPSACEÆ, Juss.—Lindl. Nat. Syst. p. 264.

THE SCABIOUS TRIBE.

Herbs or undershrubs, by Lindl. referred to 7 genera. Of these, DC. pr. enumerates 59 species from Europe; 11 from the Orient; 8 from S. Africa or 10 (Harvey); 7 from Dahuria, Tauria, and Caucasus; 6 from N. Africa; 4 from Siberia; 3 from the Azores and Canaries; 2 from Persia; and 1 from Arabia. In the E. Indies have been found, according to DC. Wall. Cat. and Royle ill. 16 species; viz. 7 of *Dipsacus*; 4 of *Scabiosa*; and 5 of *Morina*;—one of these from the Neelgherries, one from Cochin China, (uncertain,) one from Taong-Dong, one from the Khassya Mountains, and the rest from the Himalayas. Properties unimportant.



DIPSACUS, Tournef. (DC. pr. 4, p. 645;—G. Don's Mill. dict. 3, p. 682;—W. and A. pr. 1, p. 444.)

1. *syvestris*, Mill. (DC. l. c.;—G. Don. l. c.;—E. B. 15, t. 1032;—Jacq. fl. austr. t. 402.—D. vulgaris, Gmel.—D. fullonum, Thor.;—not Mill.) ♂ Europe. Siberia. Flower-heads very large, florets small, bluish-purple. Introduced in 1841.

2. *inermis*, Wall. (DC. pr. 4, 646.) Nepal, 1818.

SCABIOSA, L. (DC. pr. 4, p. 654;—G. Don's Mill. dict. 3, p. 689.)

1. *stellata*, L. (DC. o. c. p. 655;—G. Don. o. c. p. 690;—Scabiosa rotata, Bieb.—Succisa stellata, Münch.—Asterocephalus rotatus, Spreng.) ☉ Fields along the Mediterranean. Flower-heads middle-sized, florets, whitish-bluish, small, C. S.; fr. April.

2. *atropurpurea*, L. (DC. pr. 4, p. 657;—G. Don's Mill. dict. 3, p. 691;—B. M. 7, t. 247;—J. Grah. Cat. B. pl. p. 94.—Succisa atropurpurea, Münch.—Sclerostemma atropurpureum, Schott.—Asterocephalus atropurpureus, Spreng.) ☉ Native country unknown. Cultivated in gardens. Flower-heads large; florets smallish, dark purple, Feb. and March; fr. H. S.

* *Morina persica*, L. ♀ Persia. Syria. Asia Minor.—*Dipsacus fullonum*, L.; E. B. 29, t. 2080. ♂ England. S. Europe.—*D. pilosus*, L.; E. B. 13, t. 877. ♂ Europe.—*D. asper*, Wall. Khassya Mountains.—*Cephalaria transylvanica*, Schrad. ☉ S. Europe.—*Knautia orientalis*, L. ☉ Levant.—*K. hybrida*, Coult. ☉ S. Europe.—*K. arvensis*, Coult. (Scabiosa arvensis, L.; E. B. 10, t. 659.) ♀ Meadows of Europe.—*Pteroccephalus papposus*, Coult. ☉ Portugal. Spain. Greece.—*P. plumosus*, Coult. ☉ Levant.—*P. lusitanicus*, DC. ♀ Portugal.—*Scabiosa micrantha*, Desf. ☉ Tauria. Armenia.—*S. maritima*, L. ☉ ♂ S. France.—*S. Columbaria*, L.; E. B. 19, t. 1311. ♀ Europe.—*S. succisa*, L.; E. B. 13, t. 878. ♀ Europe.

ORDER CLXXXVIII.—VALERIANACEÆ, Lindl. Nat. Syst. p. 265.

THE VALERIAN TRIBE.

Herbs, by DC. pr. referred to 11 genera. Of these according to the same author, 53 species belong to S. America, Mexico, and the W. Indies; 41 to Europe; 6 to N. America; 6 to Iberia, Dahuria, Tauria, and Caucasus; 3 to the Levant; 3 to Siberia; 2 to the Straits of Magellan; 1 to Falkland Islands; 1 to N. Africa; 1 to S. Africa; and 1 to Japan. In the E. Indies, according to DC. and Royle, ill. have been discovered 16 species; viz. 2 of *Nardostachys*; 13 of *Valeriana*; and 1 of *Triplostegia*;—of which



3 are from the Mountains of the Peninsula of India, and the rest from the Himalayas and Khasiya Mountains.

The roots of several species of *Valeriana* (*officinalis*, *celtica*, *Phu*, &c.) have a bitter taste and an offensive penetrating smell. They (specially *V. officinalis*, *L.*) increase in a high degree the action of several organs, and are upon the whole a very powerful remedy against nervousness, spasms and worms. "The young leaves of the species of *Valerianella* are eaten as salad under the French name of *Mâche*, or the English one of *Lamb's Lettuce*. Red Valerian is also eaten in the same way in Sicily." (*Lindl.*)

NARDOSTACHYS, DC. (*pr.* 4, p. 624.—*G. Don's Mill. dict.* 3, p. 666.)

1. *Jatamansi*, DC. (*l. c.*;—*G. Don. o. c.* p. 667;—*Reyl. ill. t.* 54.—*Valeriana Jatamansi*, *W. Jones*;—*Roxb. fl. ind.* 1, p. 163; *ed. Carey*, 1, p. 166.—*V. Spica*, *Vahl*.—*Patrinia Jatamansi*, *D. Don. pr. fl. nep.* p. 150.—*Nardus*, *Garc. ab. hort. arom.* p. 133, *ic. rad.*—*N. indica*, *C. Bauh.*—*Nardostachyon*, *Nardus Gangitis*, *Nardus syriaca* of the ancients.) *Jatamangsi* of the Natives of India. 2. *Nepal*. (*Gossainthan*.) Fl. small pale rose-coloured.—Was introduced into H. C. G. in 1796, but had not fl. up to 1814.—This plant, the true Spikenard of the ancients, is highly esteemed in India, not only on account of its scent, but as a remedy in hysteria and epilepsy.

VALERIANELLA, Mönch. (*DC. pr.* 4, p. 625;—*G. Don's Mill. dict.* 3, p. 667.)

1. *olitoria*, Mönch. (*DC. l. c.*;—*G. Don. l. c.*—*Valeriana olitoria*, *Willd.*;—*Valeriana Locusta*, *L.*;—*E. B.* 12, t. 811.—*Fedia olitoria*, *Vahl.*; not *Gärtn.*—*F. Locusta*, *Reichb.*—*Lactuca agnina*, *Ger.*) *Corn Salad*. *Lamb's Lettuce*. ☉ Cornfields of Europe. Fl. minute, pale blue, or flesh-coloured, Feb.; fr. March.
2. *uncinata*, *Dufr.* (*DC. pr.* 4, p. 626;—*G. Don's Mill. dict.* 3, p. 668.—*Fedia uncinata*, *Stev.*; *Bieb.*; *Reichb.*—*Valeriana pubescens*, *Hopp.*) ☉ Dry, mountainous places of Tauria and E. Caucasus, and at the Bosphorus.—Fl. small, lilac, Feb.
3. *coronata*, DC. (*pr.* 4, p. 628;—*G. Don's Mill. dict.* 3, p. 670.—*Fedia sicula*, *Guss.*—*F. coronata*, *Reichb.*) ☉ Region of the Mediterranean. Fl. small, rose-coloured, Feb. and March; fr. April.

FEDIA, Mönch. (*DC. pr.* 4, p. 630;—*G. Don's Mill. dict.* 3, p. 671.)

1. *Cornucopia*, *Gärtn.* (*fr.* 2, p. 37, t. 86, f. 3;—*DC. l. c.*;—*G. Don. l. c.*—*Valeriana Cornucopiæ*, *L.*;—*Sibth. and Sm. fl. gr. t.* 32.—*V. Locusta*, *Ucria*; not *L.*) ☉ Corn-fields and waste places in S. Europe. Levant, N. Africa, &c. Fl. small, red, Feb. and March; fr. April.

CENTRANTHUS, DC. (*pr.* 4, p. 631;—*G. Don's Mill. dict.* 3, p. 672.)

1. *ruber*, DC. (*l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 93.—*C. maritimus*, *Gray*.—*C. latifolius*, *Dufr.*; *H. B. and Kth.*—*Valeriana rubra*, *All.*—*V. rubra*, *a. L.*;—*E. B.* 22, t. 1531.) 2. S. Europe,



Levant. N. Africa. Mount Vesuvius. Now cultivated in gardens, even about Quito. Fl. smallish, rose-coloured, C. S.

2. *Calcitrapa*, Dufr. (*DC. pr.* 4, p. 632;—*G. Don's Mill. dict.* 3, p. 672.—*Valeriana Calcitrapa*, L.;—*Sibth. and Sm. fl. gr.* t. 30.—*V. annua*, Gray.) ⊙ S. Europe, along the Mediterranean. Temperate France, as far as Nantes. Fl. smallish, white, tinged with red, Feb. and March; fr. April.

- * *Valerianella Morisonii*, DC. (*Fedia dentata*, Bieb.;—*E. B.* 20, t. 1370.) ⊙ Europe. Tauria.—*V. Auricula*, DC. ⊙ S. Europe.—*V. dentata*, DC. ⊙ Europe.—*Astrephia charophylloides*, DC. ⊙ Lima.—*Plectritis congesta*, DC. (*Valerianella congesta*, Lindl.;—*B. Reg.* 13, t. 1095.) ⊙ N. W. America.—*Valeriana scandens*, L. ♀. Brazil, St. Domingo.—*V. dioica*, L.; *E. B.* 9, t. 628. ♀. Swampy places of Europe and Levant.—*V. mexicana*, DC. ♀. Mexico.—*V. officinalis*, L.; *E. B.* 10, t. 698. ♀. Humid places of Europe.

ORDER CLXXXIX.—BRUNONIACEÆ, Lindl. Nat. Syst. p. 266.

Herbs, referred by Lindl. to one genus, with 2 species, both natives of N. Holland. Properties unknown.

- * *Brunonia sericea*, Sm. ♀. Tropical New Holland.

ORDER CXC.—PLANTAGINACEÆ, Lindl. Nat. Syst. p. 267.

THE RIB GRASS TRIBE.

Herbs, by Lindl. referred to 2 genera. Of these, 38 species have, according to Spreng. syst. been discovered in Europe; 20 in S. America, and Mexico; 7 in N. America; 6 in N. Africa; 5 in S. Africa; 4 in Siberia; 4 in N. Holland and the South Sea Islands; 3 in Caucasus and Tauria; 3 in the Canaries; 2 in the Levant; 1 in Patagonia; 1 in Terra del Fuego; and 1 in the Straits of Magellan. About 5 species have been found in the Himalayas, Khassya Mountains, Neelgherries, Philippines, and Cochin China; all belonging to *Plantago*. Properties slightly bitter and astringent; the seeds covered with mucus.

PLANTAGO, L. (*Spreng. syst.* 1, p. 369, No 456;—*R. Br. pr. fl. Nov. Holl.* 1, p. 280.) Plantain.

1. *major*, L. (*Spreng. syst.* 1, p. 433;—*E. B.* 22, t. 1558.—*Roxb. H. B.* p. 10.) ♀. Europe. Fl. small, white, R. S.; fr. C. S.



2. *asiatica*, L. (*P. erosa*, Wall. *Roxb. fl. ind.*; *ed. Carey*, 1, p. 423.) 4. Khassey Mountains. Nepal. Fl. small, whitish, and fr. C. S.
3. *media*, L. (*Spreng. syst.* 1, p. 434;—*E. B.* 22, t. 1559.) 4. Fl. minute, whitish, with a tinge of red, C. S.
4. *virginica*, L. (*Spreng. syst.* 1, p. 434;—*Moris. hist.* 3, s. 8, t. 15, f. 8;—*Roxb. H. B.* p. 10.) ☉ Virginia. Fl. small, greenish-white, R. S.
5. *lanceolata*, L. (*Spreng. syst.* 1, p. 434;—*E. B.* 8, t. 507;—*Roxb. H. B.* p. 10. 4. Europe. Himalayas.) Fl. small, pale reddish-greenish, R. S.; fr. C. S.
6. *Lagopus*, L. (*Spreng. syst.* 1, p. 435;—*Moris. hist.* 3, s. 8, t. 16, f. 13.—*Roxb. H. B.* p. 10.) ☉ S. France, Spain. Fl. greenish-white, Feb.; fr. H. S.
7. *maritima*, L. (*Spreng. syst.* 1, p. 436;—*E. B.* 3, t. 175.) 4. Sea coasts of Europe. Fl. small, greenish-red, C. S.
8. *Coronopus*, L. (*Spreng. syst.* 1, p. 439;—*E. B.* 13, t. 892.) ☉ Europe. Barbary. Fl. minute, whitish-green, R. S.; fr. C. S.
9. *amplexicaulis*, Cav. (*Spreng. syst.* 1, p. 439;—*Cav. ic. t.* 25.) ☉ Spain. Fl. small, greenish-white, March; fr. April.
10. *vaginatus*, Vent. (*Spreng. syst.* 1, p. 439;—*Vent. jard. de Cels. t.* 29.) 4. N. Africa. Fl. small, greenish-white, R. S.; fr. C. S.
11. *Cynops*, L. (*Spreng. syst.* 1, p. 440;—*Moris. hist.* 3, s. 8, t. 17, f. 1;—*Roxb. H. B.* p. 10.) 5 S. Europe. Siberia. Fl. small, greenish-white, C. S.; fr. January.
12. *Psyllium*, L. (*Spreng. syst.* 1, p. 440.) ☉ S. Europe. Fl. small, greenish-white, Feb.; fr. April.
13. *stricta*, Schousb. (*Moroc.* 1, p. 69, *ic.* 145;—*Spreng. syst.* 1, p. 440;—*Roxb. H. B.* p. 11.) ☉ Mogadore. Fl. small, greenish-white, C. S.; fr. Feb. and March.
14. *Ispaghula*, Roxb. (*fl. ind.* 1, p. 404; *ed. Carey* 1, p. 421;—*Spreng. syst.* 1, p. 440.) ईसफ़गूल *Issufgool*. ☉ Persia. Cultivated in India. Fl. small, whitish, and fr. C. S. Seeds of a very cooling nature, and, like those of *Plantago Psyllium*, L., forming with boiling water, a rich mucilage, which is much used in India in catarrh, blennorrhoea, and affections of the kidneys. They are also deservedly recommended in chronic diarrhoea, two tea-spoonsful of them being given twice a day with a little powdered sugar-candy. (*Ainslie. Twining*).
15. *pumila*, L. (*Spreng. syst.* 1, p. 440.—*P. exigua*, *Murr. comm. gött.* 1778, p. 94, t. 5.) ☉ S. Europe. Fl. small, whitish, C. S.; fr. March.

* *Plantago mexicana*, Lk. 4. Mexico.—*P. brasiliensis*, Sims.; B. M. 53, t. 2616. 4. Brazil.—*P. Serraria*, L. 4. Barbary.—*P. Gouani*, Gmel. 4. S. Europe.



ORDER CXCI.—GLOBULARIACEÆ, Lindl. Nat. Syst. p. 268.

Shrubs, undershrubs, or perennial herbs, constituting but one genus. Of these, Spreng. syst. assigns 9 species to Europe; 1 to Asia Minor; and 1 to the E. Indies. With the latter, (*Globularia bisnagarica*, L.; according to Spreng.) we are not acquainted. "Properties, bitter, tonic, and purgative." (Lindl.)

- * *Globularia vulgaris*, L. 4. B. M. 48, t. 2256. S. Europe.—*G. bellidifolia*. Ten. 4. Italy.

ORDER CXCI.—SALVADORACEÆ, Lindl. Nat. Syst. p. 269.

Shrubs, or small trees, of one genus, and 3 species; one from Arabia, Persia, and the Peninsula of India; and two from Cochin China, according to Lour. "Fruit eatable." (Lindl.)

- * *Salvadora persica*, L. Roxb. Corom. 1, t. 26. 5 Circars, near the sea. Both Concans.

ORDER CXCI.—PLUMBAGINACEÆ, Lindl. Nat. Syst. p. 269.

THE LEADWORT TRIBE.

Herbs, undershrubs, or shrubs, by Lindl. referred to 6 genera. Of these, Spreng. syst. enumerates 36 species for Europe; 10 for S. Africa; 7 for N. Africa; 7 for Siberia; 7 for Tauria and Caucasus; 5 for S. America; 3 for the Canaries; 2 for the Levant; 2 for New Holland; and 1 for Arabia. In the E. Indies have been found 3 species of *Plumbago*; (Ceylon, Moluccas, both Peninsulas of India, Bengal;) and 1 of *Ægialitis*, (Soonderbuns, Amherst.)

"This order contains plants of very opposite qualities; part are tonic and astringent, and part acrid and caustic in the highest degree." (Lindl.) PLUMBAGO, L. (Spreng. syst. 1, p. 501, No. 573;—R. Br. pr. fl. Nov. Holl. 1, p. 425.)

1. *zeylanica*, L. (Spreng. syst. 1, p. 537;—R. Br. o. c. p. 426;—Roxb. fl. ind. 1, p. 463; ed. Carey, 2, p. 38;—J. Grv. Cat. B. pl. p. 166;—Rheed. 10, t. 8.) চিতা Chita. 5 Ceylon. Segaeen. Prome. Penang. Rangoon. Courtallum. Malabar hill, Bombay. Hills throughout the Concans. Guzerat. Bengal, (Serampore.) Kutmandu. New Holland. Fl. middle-sized, pure white, R. and C. S.; fr. H. S. The fresh bruised bark of the root is sometimes applied for raising blisters. (Ainslie.)



2. *rosea*, L. (Spreng. syst. 1, p. 537;—B. M. 7, t. 230;—Roxb. fl. ind. 1, p. 463; ed. Carey, 2, p. 38;—J. Grah. Cat. B. pl. p. 166;—Rheed. 12, t. 9;—Rumph. 5, t. 168.) रुक्त चित्तী *Rukto-chita*. 5 Moluccas. Both Peninsulas of India, Common in gardens. Fl. middle-sized, bright red. R. and C. S.; fr. H. S.
3. *capensis*, Thunb. (Spreng. syst. 1, p. 537;—B. Reg. 5, t. 417;—B. M. 47, t. 2110;—J. Grah. Cat. B. pl. p. 166.) 5 C. G. H. Fl. large, pale blue, more or less the whole year; fr. 0.
- ÆGIALITIS, R. Br. (pr. fl. Nov. Holl. 1, p. 426.)
1. *rotundifolia*, Roxb. (fl. ind. 2, p. 111.) S. 5 Soonderbuns. Amherst. Fl. largish, pale yellow. Introduced in 1840. Has not fl.
-
- * *Plumbago scandens*, L. 5 ∪ New Granada.—*P. europæa*, L.; B. M. 47, t. 2139. 5 S. Europe.—*P. occidentalis*, Scop. 5 ∪ W. Indies.—*P. mexicana*, Lk. and Otto. 5 Mexico.—*P. rhomboidea*, Hook; B. M. 56, t. 2917. 5 S. America.—*Vogelia africana*, Lam. 5 C. G. H.—*Ægialitis annulata*, R. Br. 5 Tropical New Holland.

ORDER CXCV.—HYDROPHYLLACEÆ, Lindl. Nat. Syst. p. 271.

THE WATERLEAF TRIBE.

Hispid herbs, by Lindl. referred to 6 genera. Of these, according to Spreng. syst. B. M. and B. Reg. 18 species belong to N. America; 1 to Peru; and 1 to Patagonia. Properties unknown.

- * *Ellisia Nyctelea*, L. 5 Virginia.—*Eutoca Franklinii*, R. Br.; B. M. 57, t. 2985. 5 Banks of the Mississippi.—*E. Menziesii*, R. Br.; B. M. 66, t. 3762. 5 California.—*E. viscosa*, Benth.; B. Reg. 21, t. 1808. 5 California.—*E. divaricata*, Benth.; B. Reg. 21, t. 1784. 5 California.—*Nemophila phacelioides*, Bartl.; B. M. 50, t. 2373. 5 N. America.—*N. aurita*, Lindl.; B. Reg. 19, t. 1601. 5 California.—*N. insignis*, Benth.; B. Reg. 20, t. 1713. 5 California.—*N. atomaria*, Fisch.; B. Reg. 23, t. 1940. 5 California.—*Phacelia congesta*, Hook; B. M. 62, t. 3452. 5 Texas.—*P. tanacetifolia*, Benth.; B. Reg. 20, t. 1696. 5 N. America.

ORDER CXCV.—CORDIACEÆ, Link.—Lindl. Nat. Syst. p. 272.

Trees or shrubs, sometimes climbing, by Lindl. referred to 4 genera. Of these Spreng. syst. enumerates 61 species for S. America, Mexico, and the



W. Indies; 2 for New Holland; 1 for Patagonia; 1 for China; and 1 for Senegal. In the E. Indies have been discovered, according to Spreng. syst. Wall. Cat. and Royl. ill. 25 species; viz. 14 or 15 of *Cordia*; 1 of *Cordiopsis*; and 9 of *Erycibe*;—all natives of the Himalayas, the Khassya Mountains, both Peninsulas of India, and the Moluccas. Properties under the species.

Cordia, L. (*R. Br. pr. fl. Nov. Holl.* 1, p. 498;—*G. Don's Mill. dict.* 4, p. 374.)

1. *orientalis*, R. Br. (*pr. l. c.* (1810).—*C. campanulata*, *Roxb. H. B. p.* 17; *fl. ind.* 1, p. 593; *ed. Carey*, 2, p. 336;—*Rumph.* 2, t. 75.) 5 Moluccas, Tropical New Holland. Fl. largish, reddish-orange. Introduced into H. C. G. in 1839, but had not fl. up to 1814.—R. Brown's specific character of this tree is "(calyx 5-raro 4-dentatus) foliis ovatis, subacuminatis, lævibus, integris; calycibus glabris, exsulcis; drupâ inclusâ." As he quotes as a synonym *Rumph.* 2, t. 75, with an ! there can be no doubt of the correctness of the quotations, although the panicles in the plate quoted, and according to *Roxb.*, are lateral, not terminal.—The calyx in *Rumphius's* plate is more than 3 dentate, and, adds R. Br., glabrous. His *C. orientalis*, and *Rumph.* 2, t. 75, can, therefore, be referred neither to *C. Rumphii*, Bl., nor to *C. subcordata*, Lam., the calyx being, in the former tomentose within, and, in both, 3-dentate, not to speak of the pubescence of the leaves underneath.—*G. Don's C. subcordata*, in *Mill. dict.* 4, p. 375, is a compound of *Lamarck's* name, and *Roxburgh's* character of *C. campanulata*.
2. *Sebestena*, L. (*G. Don's Mill. dict.* 4, p. 375;—*Jacq. amer.* 42, ed. 2, t. 44;—*B. Repos.* 2, t. 157;—*B. M.* 21, t. 794;—*Lam. ill.* t. 96, f. 1;—*Roxb. fl. ind.* 1, p. 593; *ed. Carey*, 2, p. 336, under *C. campanulata*.) 5 W. Indies. Fl. large, orange scarlet, R. S.; fr. O. A small piece of the wood of this species put on a pan of lighted coals will perfume the whole house with a most agreeable smell. (*G. Don. l. c.*)
3. *latifolia*, *Roxb.* (*fl. ind.* 1, p. 589; *ed. Carey*, 2, p. 330;—*G. Don's Mill. dict.* 4, p. 378; not *Wall. ibid.* p. 375;—*J. Grah. Cat. B. pl.* p. 136.) बड़ बड़ोआरि *Buro-buhooari*. 5 Hindoosthan. Silhet. Common throughout Guzerat. Fl. small, white, C. S.; fr. June and July. The fruit, (*Larger Sepistens*, or *Sebestens*, *Roxb. Colebr.*) while young and tender, is pickled, and is also eaten as a vegetable by the natives. (*Vaupell.*)
4. *Myxa*, L. (*G. Don's Mill. dict.* 4, p. 379;—*Roxb. fl. ind.* 1, p. 590; *ed. Carey*, 2, p. 332;—*J. Grah. Cat. B. pl.* p. 136;—*Delile. fl. aegypt.* p. 47, t. 19, f. 1, 2.—*Cordia officinalis*, or *Sebestena domestica*, *Lam. ill.* t. 96, f. 2.—*C. domestica*, *Roth.*—*Sebestena officinalis*, *Gärtner. fr.* 1, p. 364, t. 76, f. 1.—*S. domestica*, *Prosp. Alp. aegypt.* p. 30; *Bauh. hist.* 1, p. 198.—*S. domestica*, or *Myxa*, *Commel. hort. amst.* 1, t. 72.—*Prunus Sebestena*, &c. *Pluk. alm. t.* 217, f. 3.—*Cornus sanguinea*,



- Forsk.*; not L.—*Rheed.* 4, t. 37.) बहुआदि *Buhocari*. 5 Both Peninsulas of India. Bengal. Hindoosthan. Nepal. Egypt. Fl. small, white, C. S.; fr. May and June. Wood soft, and of little use except for fuel, and kindling fire by friction. Fruit (*Smaller Sepistens* or *Sebestans*, Roxb. Colebr.) eaten by the natives pickled or raw. Smell of the nut, when cut, heavy and disagreeable. Kernels tasting like fresh filberts. (Roxb.) The tree abounds in a transparent, glutinous juice. (*J. Garh. l. c.*)
5. *polygama*, Roxb. (*fl. ind.* 1, p. 594; *ed. Carey*, 2, p. 337;—*G. Don's Mill. dict.* 4, p. 379.) 5 Mountains of Coromandel. Fl. small, white, May; fr. August.
6. *monoica*, Roxb. (*Corom.* 1, t. 58; *fl. ind.* 1, p. 592; *ed. Carey*, 2, p. 334;—*G. Don's Mill. dict.* 4, p. 379;—*J. Grah. Cat. B. pl.* p. 136.) 5 Circars. Fl. small, white. In H. C. G. fl. R. S. (Roxb.)
7. *prionodes*, (*C. serrata*, Roxb. *fl. ind.* 1, p. 591; *ed. Carey*, 2, p. 333;—*G. Don's Mill. dict.* 4, p. 379; not Juss.) 5 Travancore. Fl. middle-sized, white. In H. C. G. fl. August.
8. *grandis*, Roxb. (*fl. ind.* 1, p. 593; *ed. Carey*, 2, p. 335;—*Wight. icon.* 2, t. 469;—*G. Don's Mill. dict.* 4, p. 379; not Cham. and Schlecht.) L. 5 Chittagong. Fl. small, white, fragrant, Oct. and Nov.
9. *angustifolia*, Roxb. (*H. B.* p. 17; *fl. ind.* 1, p. 595; *ed. Carey*, 2, p. 337;—*G. Don's Mill. dict.* 4, p. 379;—*J. Grah. Cat. B. pl.* p. 136; not Röm. and Sch.;—*G. Don. o. c.* p. 386.—*C. reticulata*, Roth.; not Vahl.) 5 Mysore. Bombay. Guzerat. Deccan. Hurdwar. Fl. small, white, May.
10. *Gerascanthus*, Jacq. (*Amer. p.* 43, t. 175, f. 16.) W. Indies, Mexico.
11. *tectonocfolia*, Wall. (*C. domestica*, Bojer. not Roth.) Egypt. Teek d'Arabie.
- ERYCIBE, Roxb. (*G. Don's Mill. dict.* 4, p. 392.)
1. *paniculata*, Roxb. (*Corom.* 2, t. 159;—*fl. ind.* 1, p. 585; *ed. Carey*, 2, p. 284;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 137.—*E. Rheedei*, Bl.;—*G. Don. l. c.*—*Erimatalia Rheedei*, Röm. and Sch.—*Rheed.* 7, t. 39.) L. 5 Java. Circars. The Concans. Monghir. Khassya Mountains. Fl. smallish, straw-coloured, delightfully fragrant, April and May.
- * *Cordia Dillenii*, Spreng. 5 Bahama Islands.—*C. laevis*, Jacq. 5 Caraccas.—*C. Collococca*, L. 5 Jamaica.—*C. tetraphylla*, Aubl. 5 Guiana.—*C. nodosa*, Lam. 5 Guiana.—*C. elliptica*, Swz. 5 Jamaica.—*C. macrophylla*, L. 5 W. Indies.—*C. domingensis*, Lam. 5 St. Domingo.—*C. incana*, Royle. Deyra-Dhoon.—*C. dentata*, Vahl. 5 Mexico.—*C. alba*, Röm. and Sch. 5 Curaçao.—*C. guazumafolia*, Röm. and Sch. 5 Brazil.—*C. globosa*, Röm. and Sch. 5 W. Indies.



ORDER CXCVI.—BORAGINACEÆ, Lindl. Nat. Syst. p. 272.

THE BORAGE TRIBE.

Herbaceous plants, seldom shrubs or trees, by Lindl. including his Elhretiacæ, referred to 49 genera. Of these Spreng. syst. enumerates about 120 for S. America, Mexico and the W. Indies; 114 for Europe; for N. Africa 35; for Dahuria, Iberia, Tauria and the Caucasus 26; for the Levant 24; for New Holland and the South Sea Islands 24; for Siberia 22; for N. America 20; for the Canaries and Madeira 14; for the Mascarenhas Islands 5; for Persia 5; for Arabia 2; for Guinea 1; for China 1, and for Japan 1. In S. Africa have been discovered 60 species, (*Harvey*), and in the E. Indies, according to Spreng. syst., Wall. Cat., Royle. ill. and B. Reg. 99; viz. 1 of *Coldenia*; 2 of *Tiaridium*; 14 of *Heliotropium*; 4 of *Lithospermum*; 5 of *Echinospermum*; 1 of *Messerschmidia*; 1 of *Echium*; 7 of *Onosma*; 1 of *Anchusa*; 15 of *Myosotis*; 17 of *Cynoglossum*; 5 of *Trichodesma*; 7 of *Tournefortia*, and 19 of *Ehretia*. The principal stations of these are Cashmere, the Himalayas, Kunawur, the Khassya Mountains, both Peninsulas of India and Bengal. A few are from Ceylon, Java and the Philippines.

"Soft, mucilaginous, emollient properties are the usual characteristics of this order. Some are also said to contain nitre, a proof of which is shewn by their frequent decrepitation when thrown on the fire." (*Lindl.*)

A. BORAGÆ, Benth.

(*In Royle's ill. p. 305.*)

BORAGO, Tournef. (*G. Don's Mill. dict. 4, p. 309.*)

1. *officinalis*, L. (*G. Don. l. c.*;—*E. B. 1, t. 36.*) *Common Borage*. ♂ Said to be a native of the Levant, but now naturalized in most parts of Europe, growing on dung-hills and heaps of rubbish. Fl. largish, pale-blue, or purple, C. S.

CERINTHE, Tournef. (*G. Don's Mill. dict. 4, p. 320.*)

1. *major*, L. (*G. Don. l. c.*;—*B. M. 10, t. 333.*—*C. glabra, Mill. fig. t. 91.*—*C. glauca, Mönch.*) ☉ S. Europe, N. Africa. Fl. middle-sized, yellow-orange at bottom, deep-purple and pale-yellow at top, Feb. and March.

LITHOSPERMUM, Tournef. (*G. Don's Mill. dict. 4, p. 321.*)

1. *arvense*, L. (*G. Don. o. c. p. 323*;—*E. B. 2, t. 123.*) ☉ Europe, Asia, Africa, N. America. Fl. small, white, Feb. and March; fr. H. S.
2. *tenuiflorum*, L. (*G. Don. o. c. p. 324*;—*Jacq. icon. rar. 2, t. 313*;—*Sibth. and Sm. fl. græc. t. 159.*—*Buglossoïdes ramosissima, Mönch.*) ☉ Egypt, Island of Cyprus. Fl. smallish, whitish, March; fr. H. S.

ECHIUM, Pliny, Tournef. (*G. Don's Mill. dict. 4, p. 327.*)

1. *vulgare*, L. (*G. Don. o. c. p. 332*;—*E. B. 3, t. 181*;—*Roxb. H. B. p. 13.*) ♂ Europe, N. America. Fl. largish, pale blue, C. S.



2. *violaceum*, L. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 134.—*E. creticum*, *Lam.*; not L.) ☉ S. Europe. Fl. large, violet or pale-blue, Feb. and March; fr. H. S.
3. *plantagineum*, L. (*G. Don. o. c. p.* 333;—*Sibth. and Sm. fl. græc. t.* 179;—*Jacq. hort. vind. 1, t.* 45.—*E. plantaginoides*, *Röm. and Sch.*) ☉ S. Europe. Fl. large, purplish violet, Feb. and March; fr. H. S.

LYCOPSI, L. (*G. Don's Mill. dict. 4, p.* 338.)

1. *arvensis*, L. (*G. Don. l. c.*;—*Curt. fl. lond. t.* 336;—*E. B. 14, t.* 938.—*Anchusa arvensis*, *Hoffm. and Lk.*) ☉ Europe. N. America. Fl. small, blue or rose-coloured, March; fr. H. S.

ANCHUSA, L. (*G. Don's Mill. dict. 4, p.* 339.)

1. *paniculata*, Ait. (*G. Don. o. c. p.* 340;—*Sibth. and Sm. fl. græc. t.* 163.—*A. italica*, *Retz.*;—*Roxb. H. B. p.* 13.—*A. officinalis*, *Gouan*;—*Brot.*;—*Desf.*;—*Sav.*;—*Jaume St. Hil.*; not L.—*Buglossum officinale*, *Lam.*—*B. elatum*, *Mönch.*—*B. angustifolium*, *All.*—*B. amœnum*, *Gärtn. fr. 1, p.* 323, *t.* 67, *f.* 2.) ☽ S. Europe. N. Africa. Madeira. Siberia. Introduced into H. C. G. in 1807, but had not fl. up to 1814.
2. *undulata*, L. (*G. Don. o. c. p.* 342;—*B. M. 47, t.* 2219;—*Sibth. and Sm. fl. græc. t.* 165.) ☽ S. Europe. N. Africa. Has been introduced into H. C. G. Fl. ?
3. *officinalis*, L. (*G. Don. l. c.*;—*E. B. 10, t.* 662.) ☽ Europe. Asia. Africa. Has been cultivated in the garden here for more than fourteen years, without flowering.

MYOSOTIS, L. (*G. Don's Mill. dict. 4, p.* 343.)

1. *arvensis*, *Sibth.* (*G. Don. o. c. p.* 345;—*E. B. 36, t.* 2558.—*M. annua*, *Mönch.*—*M. scorpioides*, *Desf.*—*M. scorpioides*, α . *arvensis*, L.—*Echioïdes annua*, *Mönch.*) ☉ Europe. Asia. Africa. N. America. Fl. small, pale blue, Feb. and March; fr. H. S.

B. CYNOGLOSSÆ, Benth.

(In *Royle's ill. p.* 305.)

CYNOGLOSSUM, Tournef. (*G. Don's Mill. dict. 4, p.* 352.)

1. *diffusum*, *Roxb.* (*fl. ind. 1, p.* 457; *ed. Carey, 2, p.* 7;—*G. Don. o. c. p.* 353.) ☉ Bengal, (Serampore.) Fl. small, white, R. and C. S.; fr. March.
2. *furcatum*, *Wall.* (*Roxb. fl. ind.*; *ed. Carey, 2, p.* 6;—*G. Don. l. c.*;—*Royle. ill. p.* 306.) ☽ Mussoorie. Saharunpore. Kheree. Nepal. Fl. small, blue. In H. C. G. fl. R. S. (*Wall.*)
3. *marifolium*, *Roxb.* (*fl. ind. 1, p.* 457; *ed. Carey, 2, p.* 8;—*G. Don. l. c.*) ☉ Chittagong. Fl. very small, pale whitish-blue, C. S.
4. *canescens*, *Willd.* (*G. Don. o. c. p.* 354.—*C. micranthum*, *Desf.*—*C. hirsutum*, *Jacq. hort. schonbr. 4, t.* 489; not *Thunb.*;—*C. racemosum*, *Roxb. fl. ind. 1, p.* 456; *ed. Carey, 2, p.* 6.) ☉ Bengal, (Seram-

pore.) Mussoorie. Saharunpore. Kandalla Ghant. Various parts of the Concan. Fl. very small, white, with a purple throat, R. S. ; fr. C. S.

5. *Falconerianum*, Wall. Cashmere.

ASPERUGO, Tournef. (*G. Don's Mill. dict.* 4, p. 357.)

1. *procumbens*, L. (*G. Don. l. c.* ;—*E. B.* 10, t. 661.—*A. vulgaris*, *Tournef.*) ☉ Europe. Siberia. Fl. small, pale blue, Feb. and March ; fr. C. S.

TRICHODESMA, R. Br. (*G. Don's Mill. dict.* 4, p. 311.)

1. *indicum*, R. Br. (*G. Don. l. c.* ;—*J. Grah. Cat. B. pl.* p. 134.—*Borago indica*, L. ;—*Roxb. fl. ind.* 1, p. 458 ; *ed. Carey*, 2, p. 8.—*Borraginoides sagitata*, *Mönch*.—*Pollichia indica*, *Med.*) ছেড়ি কল্লী *Chhoto-Kulpa*. ☉ Both Peninsulas of India. Bengal, (Serampore.) Hindoosthan. N. India. Mauritius. Fl. smallish, pale blue, and fr. nearly the whole year.

2. *zeylanicum*, R. Br. (*G. Don. l. c.* ;—*J. Grah. l. c.*—*Borago zeylanica*, L. ;—*Jacq. ic. rar.* 2, t. 314 ;—*Burm. ind. t.* 14, f. 2.—*Roxb. fl. ind.* 1, p. 458 ; *ed. Carey*, 2, p. 10.) বড় কল্লী *Buro-Kulpa*. ☉ Ceylon. Deccan. Bengal, (Serampore.) New Holland. Fl. middle-sized, pale blue, C. S. ; fr. H. S.

3. *spinulosum*, (*Borago spinulosa*, *Roxb. fl. ind.* 1, p. 459 ; *ed. Carey*, 2, p. 11.) ☉ Bengal. Fl. C. S.

C. HELIOTROPÆÆ, Benth.

(*In Roysl. ill.* 305.)

HELIOTROPIMUM, Tournef. (*G. Don's Mill. dict.* 4, p. 357.)

1. *peruvianum*, L. (*G. Don. l. c.* ;—*B. M.* 4, t. 141 ;—*Roxb. H. B.* p. 13 ;—*J. Grah. Cat. B. pl.* p. 135.—*H. odoratum*, *Mönch.*) ॐ Peru. Fl. small, purple-lilac, with a green throat, smelling like Vanilla, C. S. ; fr. 0.

2. *curassavicum*, L. (*G. Don. o. c.* p. 358 ;—*Forsk. fl. arab.* p. 38 ;—*Swz.* ;—*Desf.* ;—*Ruiz. and Pav.* ;—*B. M.* 53, t. 2669 ;—*Roxb. H. B.* p. 13.—*H. glaucophyllum*, *Mönch.*) ☉ S. America. Sandwich Islands. N. America. Domesticated about Serampore. Fl. small, white, with a yellowish green bottom, R. S. ; fr. C. S.

3. *parviflorum*, L. (*G. Don. l. c.*—*H. angiospermum*, *Murr.*) ॐ W. Indies. Fl. minute, white, and fr. nearly the whole year.

4. *coromandelianum*, Retz. (*G. Don. o. c.* p. 359 ;—*Roxb. fl. ind.* 1, p. 454 ; *ed. Carey*, 2, p. 2 ;—*J. Grah. Cat. B. pl.* p. 135.) নাগ কুলী *Naga-phoollee*. ☉ Peninsula of India. Bengal, (Serampore.) Plains of North India. Fl. small, white, R. and C. S. ; fr. C. S.

5. *supinum*, L. (*Spec.* 187 ;—*Benth. in Roysl. ill.* p. 306.—*H. malabaricum*, *Retz.*—*H. europæum*, *Forsk. descr.* p. 742, not L.—*H. europæum*, var. *malabaricum*, *Burm. ind.* p. 40, t. 16, f. 1.—*H. humifusum*, *Tournef.*—*Piptoclaina malabarica*, *G. Don's Mill. dict.* 4, p. 364 ;—*J. Grah. Cat. B. pl.* p. 135.—*P. supina*, *G. Don. l. c.*) ☉ Portugal. S. France.



Islands of the Archipelago. Barbary. Arabia. C. G. H. The Deccan. Fl. small, white, with a yellow tube, Feb. and March; fr. H. S.

6. *brevifolium*, Wall. (*Roxb. fl. ind.*; ed. Carey, 2, p. 2;—*G. Don. o. c.* p. 361.—*H. compactum*, *D. Don. pr. fl. nep.* p. 101.) © Banks of the Irrawaddi. Bengal, (Serampore.) Hindoosthan. Nepal. Fl. small, white, with a yellow tube, R. and C. S.; fr. C. S.

7. *Roxburghianum*, (*H. Roxburghii*, *Spreng. syst. c.* p. 54.—*H. paniculatum*, *Roxb. fl. ind.* 1, p. 455; ed. Carey, 2, p. 2; not R. Br.) Chittagong. Introduced into H. C. G. before 1814. It is not mentioned, whether the plant is an annual or perennial, or whether it flowered.

TIARIDIMUM, Lehm. (*G. Don's Mill. dict.* 4, p. 364.)

1. *indicum*, Lehm. (*G. Don l. c.*;—*J. Grah. Cat. B. pl.* p. 135.—*Heliotropium indicum*, *L.*;—*B. M.* 43, t. 1837;—*Roxb. fl. ind.* 1, p. 454; ed. Carey, 2, p. 1.—*H. cordifolium*, *Mönch.*—*Rheed.* 10, t. 48.)
 হাতুড়ী *Hatsoora*. © Fl. small, lilac-bluish, R. S.; fr. C. S.

COLDENIA, L. (*G. Don's Mill. dict.* 4, p. 365.)

1. *procumbens*, L. (*G. Don. l. c.*;—*Roxb. fl. ind.* 1, p. 448; ed. Carey, 2, p. 468;—*Lam. ill.* t. 89;—*J. Grah. Cat. B. pl.* p. 135.) © Ceylon. Peninsula of India. Bengal, (Serampore.) Monghir, &c. Fl. small, white, C. S.; fr. H. S.

TOURNEFORTIA, L. (*G. Don's Mill. dict.* 4, p. 365.)

1. *viridiflora*, Wall. (*Roxb. fl. ind.*; ed. Carey, 2, p. 5, annot.—*Lithospermum viridiflorum*, *Roxb. fl. ind.* 1, p. 455; ed. Carey, 2, p. 4.—*Heliotropium viridiflorum*, *Lehm.*;—*G. Don's Mill. dict.* 4, p. 358.) 5 Chittagong. Fl. small, green, C. S.

EHRETIA, L. (*G. Don's Mill. dict.* 4, p. 388;—*R. Br. pr. fl. Nov. Holl.* 1, p. 467.)

1. *serrata*, *Roxb.* (*fl. ind.* 1, p. 596; ed. Carey, 2, p. 346;—*G. Don. l. c.*;—*B. Reg.* 13, t. 1096;—*Benth. in Royle. ill.* p. 306.—*E. pyrifolia*, *D. Don. pr. fl. nep.* p. 102;—*G. Don. l. c.*) 5 Bengal. Hindoosthan. Chittagong. Khassya Mountains. Bhootan. Deyra-Dhoon. Kheree Pass. Fl. small, greenish-white, sweet scented, H. S.

2. *lævis*, *Roxb.* (*Corom.* 1, t. 56; *fl. ind.* 1, p. 597; ed. Carey, 2, p. 341;—*J. Grah. Cat. B. pl.* p. 136, excl. syn. *Don.*;—*Benth. in Royle's ill.* p. 306.—*Beurreria lævis*, *G. Don's Mill. dict.* 4, p. 390.) 5 Peninsula of India. Bengal, (Serampore.) Hindoosthan. Deyra-Dhoon. Kheree Pass. Fl. small, white, inodorous, Jan. and Feb.; fr. May and June. Wood used by the hill people for many purposes. (*Roxb.*) Has a 5-parted calyx, a bilocular 4-seeded berry, and inverse embryo, and is, therefore, like the next species, no genuine Ehretia. (*R. Br.*)

3. *aspera*, *Roxb.* (*Corom.* 1, t. 55; *fl. ind.* 1, p. 598; ed. Carey, 2, p. 342.—*E. tomentosa*, *Roth.*; not *Lam.* nor *H. B.* and *Kth.*—*E. Heynii*, *Röm. and Sch.*—*Beurreria aspera*, *G. Don's Mill. dict.* 4, p. 390.) 5 Coromandel. Fl. very small, white, R. S.; fr. O.

4. *internodis*, L'Herit. (*Stirp.* 1, p. 47, t. 24;—*G. Don's Mill. diet.* 4, p. 388.)

β. *Subria*. (*Commers. Hb.* according to Lam.—*E. internodis*, Roxb. *fl. ind.* 1, p. 599; *ed. Carey*, 2, p. 343.) 5 Mauritius. Was introduced into H. C. G. in 1811, but had not fl. up to 1814.

5. *buzifolia*, Roxb. (*Corom.* 1, t. 57; *fl. ind.* 1, p. 598; *ed. Carey*, 2, p. 343.—*Cordia retusa*, Vahl. *symb.* 2, p. 42.) 5 Coromandel. Fl. small, white, C. S.—No genuine *Ehretia*, having a lateral inflorescence, a two-parted style, and the putamen of a berried drupe, consisting of two closely cohering nuts, and besides eight empty cells, quadrilocular. (*R. Br.*)

6. *graveolens*, Wall. Khassya Hills.

TRICHODESMA, R. Br.

1. *perfoliatum*, Wall. Banks of the Irawaddi.

* *Trichodesma africanum*, R. Br. ⊙ C. G. H.—*Colsmannia flava*, Lehm. 2, Levant.—*Onosma strigosum*, H. B. and Kth. 2, Meadows of Mexico.—*Cerinthe aspera*, Roth. ⊙ S. Europe.—*C. minor*, L. ♂ S. Europe.—*Lithospermum apulum*, Vahl. ⊙ S. Europe, &c.—*L. villosum*, Wall. Cat. 2, Hurdwar.—*Macromeria longiflora*, D. Don. 2, Mexico.—*M. exserta*, D. Don. 2, Mexico.—*Echium rubrum*, Jacq. ♂ B. M. 43, t. 1826. Hungary, &c.—*E. italicum*, L. ♂ S. Europe.—*E. pustulatum*, Sibth. and Sm. ♂ Sicily.—*E. orientale*, L. ♂ Levant.—*E. grandiflorum*, Desf.; B. Reg. 2, t. 124. ⊙ Barbary.—*E. creticum*, L.; B. M. 44, t. 1934. ⊙ Candia.—*E. bonariense*, Poir. ⊙ ? Buenos Ayres.—*Nonea ciliata*, Röm. and Sch. ⊙ Levant.—*N. lutea*, DC. ⊙ France. Italy.—*Lycopsis orientalis*, L. ⊙ Caria.—*L. variegata*, L. ⊙ Italy.—*Anchusa stoechadifolia*, Cham. and Schlecht. 2, Brazil.—*A. ciliata*, Cham. and Schlecht. 2, Tropical Brazil.—*A. tuberosa*, H. B. and Kth. ♂ Mexico.—*Myosotis versicolor*, Roth. ⊙ E. B. 7, t. 480. Europe.—*Echinosperrum zeylanicum*, Lehm. 2, Ceylon.—*E. virginicum*, Lehm. ⊙ Virginia. Carolina.—*Omphalodes linifolia*, Mönch. ⊙ S. Europe.—*Cynoglossum officinale*, L.; E. B. 13, t. 921. ♂ Europe.—*C. pictum*, Ait.; B. M. 47, t. 2134. ♂ S. Europe.—*Heliotropium amplexicaule*, Vahl. 5 Brazil.—*H. corymbosum*, Ruiz. and Pav.; B. R. 39, t. 1609. 5 Peru.—*H. zeylanicum*, Lam.; Burm. ind. t. 16, f. 2. 5 Ceylon.—*H. inundatum*, Swz. 5 W. Indies. Mexico.—*H. humile*, Lehm. 5 W. Indies.—*H. europæum*, L. ⊙ S. Europe.—*Tournefortia cymosa*, L. 5 W. Indies.—*T. foetidissima*, L. 5 W. Indies. Mexico.—*T. bicolor*, Swz. 5 Jamaica.—*T. sarmentosa*, Lam. 5 ∪ Mauritius.—*T. argentea*, L. Rumph. 4, t. 55. 5 Mauritius. New Holland, &c.—*T. ovata*, Wall. Cat. 5 Rangoon.—*Messerschmidia volubilis*, Röm. and Sch. 5 ∩ Jamaica. Mexico.—*M. syringifolia*, Röm. and Sch. 5 ∩ Cayenne.—*M. laurifolia*, Röm. and Sch. 5 ∩ St. Thomas.—*Ehretia macrophylla*, Wall. 5 Nepal.—*E. tinifolia*, L. 5 Jamaica.—



E. divaricata, DC. 5 Havannah.—*E. Radula*, Poir. 5 St. Domingo.—*Borreria esucca*, Jacq. 5 St. Thomas. Mexico.—*B. succulenta*, Jacq. 5 Jamaica.—*Cortesia cuneifolia*, Cav. 5 Buenos Ayres.—*Rhabdia lycioides*, Mart. 5 Brazil.

ORDER CXCVII.—LAMIACEÆ, Lindl. Nat. Syst. p. 275.—
(LABIATÆ, Juss.)

THE MINT TRIBE.

Herbs or undershrubs, seldomer shrubs, by Bentham, (Gen. and Spec. Labiatarum 1832-1836.) arranged under 110 genera, in 11 sections. To this work we must refer for the distribution of the order, only adding that the number of E. Indian species, amounts to 299; viz. 80 of *Ocimeæ*; 38 of *Mentheæ*; 8 of *Monardeæ*; 4 of *Satureiæ*; 7 of *Melisseæ*; 12 of *Scutellariæ*; 0 of *Prostanthereæ*; 25 of *Nepetæ*; 93 of *Stachyæ*; 14 of *Prasiæ*; and 18 of *Ajugæ*. Many of these have been found in the plains, but the bulk of them consists of Mountain plants, especially from the Northern Provinces.

"Tonic, cordial, and stomachic qualities, due to the presence of an aromatic volatile oil and a bitter principle, are the universal features of Labiatæ, which do not contain a single unwholesome or even suspicious species." (Lindl.)

A. OCIMEÆ.

(Ocymoiðeæ, Benth.;—G. Don's Mill. dict. 4, p. 666.)

OCIMUM, L. (Benth. Lab. gen. and sp. p. 1;—G. Don. l. c.)

1. *canum*, Sims. (B. M. 51, t. 2452;—G. Don. l. c.;—J. Grah. Cat. B. pl. p. 147.—O. *americanum*, L. *amoen.* 4, p. 276; *spec.* 833; not Jacq.—O. *stamineum*, B. M. l. c., in the text.—O. *incanescens*, Mart. and Spix.—O. *album*, Roxb. *fl. ind.* 3, p. 15; not, L.) ☉ Madagascar. East Indies. China. Brazil, &c. Fl. white, smaller than those of the next species, R. and C. S.; fr. C. S.

2. *Basilicum*, L. (G. Don. l. c.)

a. *pilosum*, Benth. (Lab. p. 4;—G. Don. l. c.—O. *pilosum*, Willd. *enum.* 2, p. 29;—Roxb. *fl. ind.* 3, p. 16.—O. *minimum*, Burm.; not L.—O. *Basilicum*, Burm.—O. *hispidum*, Lam.—O. *ciliatum*, Horn.—O. *hispidulum*, Schum.—*Basilicum indicum*, Rumph. 5, t. 92, f. 1.) बाइड़े डुबनो *Babooi-tulsee*. 5 Peninsula of India. Bengal, (Serampore.) Hindoosthan, Oude, &c. Fl. small, white, and fr. nearly the whole year. Whole plant aromatic, fragrant.—The seeds steeped in water swell into a pleasant jelly, which is used by the natives in cases of catarrh, dysentery, chronic diarrhoea, &c. and is very nourishing and demulcent.

- β. *anisatum*, Benth. (*l. c.*;—*G. Don. l. c.*—*Ocimum Basilicum*, L. *spec.* 833; not *Burm.*—*Roxb. fl. ind.* 3, p. 17.—*Basilicum citratum*, *Rumph.* 5, t. 93, f. 1;—*Rheed.* 10, t. 87.) *Sweet Basil*. © Persia.—Very aromatic and fragrant. Fl. small, white, R. and C. S.; fr. C. S.
- γ. *glabratum*, Benth. (*l. c.*;—*G. Don. l. c.*—*Ocimum caryophyllum*, *Roxb. fl. ind.* 3, p. 16.—*O. integerrimum*, *Willd.*—*O. lanceolatum*, *Schum.*) *गुलाब तुलसी* *Goolab-tulsee*. ५ Guinea. Penang. Bengal, (Serampore.) Patna &c. Fl. smallish-white, R. and C. S.; fr. C. S. Whole plant very aromatic and fragrant.
- δ. *thyrsiflorum*, Benth. (*l. c.*;—*G. Don. o. c. p.* 671.—*Ocimum thyr-siflorum*, L.; *Murr. comm. gött.* 8, t. 5;—*Jacq. h. vind.* 3, p. 72;—*Roxb. fl. ind.* 3, p. 15.) ० Peninsular of India. Fl. smallish, pale pink, and fr. nearly the whole year. Whole plant very aromatic and fragrant.
3. *gratissimum*, L. (*G. Don's Mill. dict.* 4, p. 671;—*Jacq. rar.* 3, t. 495;—*Roxb. fl. ind.* 3, p. 17;—*J. Grah. Cat. B. pl.* p. 147.—*O. zeylanicum*, *Burm. zeyl.* t. 80, f. 1.—*O. petiolare*, *Lam.*—*Rheed.* 10, t. 86.) *राम तुलसी* *Ram tulsee*. ५ Only found in gardens. Diffuses a very strong degree of fragrance. Fl. white, pale-yellow, and fr. nearly the whole year.
4. *ascendens*, Willd. (*G. Don. o. c. p.* 672.—*O. cristatum*, *Kön.*;—*Roxb. fl. ind.* 3, p. 19.—*O. indicum*, *Roth.*;—*Plectranthus indicus*, *Spreng.*) *बन तुलसी* *Bun-tulsee*. ० Peninsular of India. Bengal, (Serampore.) Fl. small, pale rose-coloured, R. S.; fr. C. S. Whole plant scentless.
5. *sanctum*, L. (*G. Don's Mill. dict.* 4, p. 672; excl. syn. *Roxb.*—*Roxb. fl. ind.* 3, p. 14;—*J. Grah. Cat. B. pl.* p. 147.—*O. hirsutum*, *Benth.* in *Wall. pl. as. rar.* 2, p. 14;—*O. tomentosum*, *Lam.*—*O. tenuiflorum*, *Lam.*;—*Willd.*; not L.—*O. frutescens*, *Burm. ind.* p. 129;—*Burm. zeyl.* t. 80, f. 1.—*Lumnitzera tenuiflora*, *Spreng.*—*Plectranthus monachorum*, *Spreng.*—*Basilicum agreste*, *Rumph.* 5, t. 92, f. 2.—*Rheed.* 10, t. 85.) *काबो तुलसी* *Kabo-tulsee*. *कृष्ण तुलसी* *Krishno-tulsee*. ५ Found cultivated about the Hindoo temples. Fl. small, pale purple, and fr. nearly the whole year. Whole plant dark purple, and gratefully smelling. The juice expressed forms one of the ingredients of a celebrated and rather effectual nostrum for the cure of ringworms. (*Dr. Gibson.*)
6. *villosum*, *Roxb.* (*fl. ind.* 3, p. 13; excl. syn. *Rheed.*; not *Weinm.*) *तुलसी* *Tulsee*. ५ Common about the Hindoo temples; aromatic. Fl. small, pale greenish rose-coloured, and fr. the whole year.
7. *micranthum*, *Willd.* (*G. Don's Mill. dict.* 4, p. 672.—*O. frutescens*, *Sieb.*—*O. americanum*, of several authors.—*O. pubescens*, *Mill. dict.*—*O. montanum*, *Hook.*; *B. M.* 57, t. 2996.) © Tropical America, from Carracas to Rio Janeiro. Fl. small, white or purple, and fr. nearly throughout the year. Whole plant fragrant.



8. *inodorum*, Kön. (*Roxb. fl. ind.* 3, p. 19.) ♂ 2. India about old walls, and under the shade of bushes. Fl. very minute, white, and fr. R. and C. S. Scentless.

GENIOSPORUM, Wall. (*Benth. Lab.* p. 19;—*G. Don's Mill. dict.* 4, p. 674.)

1. *strobiliferum*, Wall. (*Benth. Lab.* p. 20;—*G. Don. l. c.*—*Plectranthus coloratus*, *D. Don. pr. fl. nep.* p. 116.) ♂ Khassya Mountains. Nepal. Fl. small, blue, C. S.

MOSCHOSMA, Reichb. (*G. Don's Mill. dict.* 4, p. 675.)

1. *polystachya*, Reichb. (*Lumnitzera polystachya*, *Jacq.*—*Ocimum polystachyon*, *L.*;—*Murr. comm. gött. nov.* 3, p. 71, t. 3;—*Roxb. fl. ind.* 3, p. 18.—*O. tenuiflorum*, *Burm. ind.* p. 129; not *L.*—*Plectranthus micranthus*, *Spreng.*) ⊙ Circars. Travancore. Rangoon. Fl. minute, pale purple, R. S.; fr. C. S. Possesses little or no fragrance.

ORTHOSIPHON, Benth. (*Lab.* p. 25;—*G. Don's Mill. dict.* 4, p. 676.)

1. *incurvus*, Benth. (*Lab.* p. 28;—*G. Don. l. c.*;—*B. M.* 67, t. 3847.) 2. Silhet. Fl. twelve lines, pale rose-coloured, R. and C. S.
2. *stamineus*, (*Benth. G. Don's Mill. dict.* 4, p. 677.—*Ocimum grandiflorum*, *M. Bijdr.* p. 835.) 2. Lower Assam. R. S.

SACCOSTOMA, Wall. MSS.

1. *urticafolium*, Wall. MSS. 2. Munipore. Fl. small, white, R. and C. S.

PLECTRANTHUS, L'Herit. (*G. Don's Mill. dict.* p. 677;—*Benth. Lab.* p. 29.)

1. *secundus*, Roxb. (*H. B.* p. 45;—*fl. ind.* 3, p. 20.—*P. cordifolius*, *D. Don. pr. fl. nep.* (1825.) p. 116;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 148.—*P. mollis*, *Spreng. syst.* 2, p. 69. (1825.);—*Benth. Lab.* p. 35.—*P. divaricatus*, *Weinm. obs. in Regenb. bot. zeit.* (1821.)—*P. incanus*, *Lk. enum.* 2, p. 120. (1822.)—*P. magpuensis*, *Roth. nov. spec.* p. 271. (1821.)—*Ocimum molle*, *Ait.*—*Rheed.* 10, t. 84.) ⊙ Mysore. Abundant throughout Kandalla village, on the ruins of Rosa, near Ellora Caves, and generally every where near the habitations of man, in the Presidency of Bombay. Nepal. Fl. small, pale yellow, (*Roxb.*) blue, (*J. Grah.*) In H. C. G. fl. Oct. and Nov.; fr. Jan. and Feb. (*Roxb.*)

2. *parviflorus*, Willd. (*Hort. berol.* 1, p. 65; not *R. Br.*—*G. Don's Mill. dict.* p. 679.—*P. graveolens*, *R. Br. pr.* p. 506.—*P. paniculatus*, *Jacq. fragm.* p. 62, t. 91.) ♂ Tropical New Holland. Mountains about Port Jackson. Sandwich Islands. Fl. blue, or purple. Has been introduced into H. C. G. Fl. ?

3. *rugosus*, Wall. (*Benth. Lab.* p. 43;—*G. Don's Mill. dict.* 4, p. 681.—*Lumnitzera densiflora*, *Spreng.*—*Isodon plectranthoides*, *Schrad.*) ♂ Mount Choor. Sirmore. Deyra Dhoon. Fl. small, with the upper lip purple edged and purple dotted, R. and C. S. The leaves have an aromatic, sage-like smell, and a somewhat bitterish taste.

COLEUS, Lour. (*Benth. Lab.* p. 47;—*G. Don's Mill. dict.* 4, p. 682.)

1. *barbatus*, Benth. (*Lab.* p. 49;—*G. Don. l. c.*—*J. Grah. Cat. B. pl.*

- p. 148.—*Plectranthus barbatus*, *Andr. B. Repos. t.* 594.—*P. Forskälhi*, *Willd.*;—*B. M.* 46, *t.* 2036.—*P. comosus*, *Sims.*; *B. M.* 49, *t.* 2318.—*P. asper*, *Spreng.*—*P. monadelphus*, *Roxb. fl. ind.* 3, *p.* 22.—*Germanea Forskälhi*, *Poir.*—*Ocimum asperum*, *Roth.*) © Bangalore. Dindygul. Guzerat. Nepal. Kemaon. Fl. small, light purple. In H. C. G. B. C. S.; fr. H. S. (*Roxb.*) The whole plant possesses a strong, though not disagreeable smell. (*Roxb.*) Commonly cultivated in native gardens at Bombay for the roots, which are pickled. (*Dr. Gibson.*) Sold in the green-market, Bombay. (*Nimma.*)
2. *amboinicus*, *Lour.* (*fl. cochinch. p.* 372.—*C. aromaticus*, *Benth.*;—*G. Don's Mill. dict.* 4, *p.* 682;—*B. Reg.* 18, *t.* 1520;—*J. Grah. Cat. B. pl. p.* 148.—*C. crassifolius*, *Benth. Lab. p.* 51.—*Plectranthus aromaticus*, *Roxb. fl. ind.* 3, *p.* 22.—*P. amboinensis*, *Spreng. ?*—*P. crassifolius*, *Hortul.*—*Marrubium album amboinicum*, *Rumph. 5, t.* 102, *f.* 3.) पाथूर चूर *Pathur-choor.* ५. Common in gardens, Cochin China, the Moluccas, India, &c. Fl. smallish, pale blue, very aromatic, April; fr. 0. Leaves, and, indeed, all the parts of the plant, delightfully fragrant. The former are frequently eaten with bread and butter, or bruised and mixed with various articles of food, drink, or medicine. (*Roxb.*)
3. *scutellarioides*, *Benth.* (*Lab. p.* 53;—*G. Don's Mill. dict.* 4, *p.* 683.—*Plectranthus scutellarioides*, *Roxb. fl. ind.* 3, *p.* 21;—*R. Er. pr. p.* 506.—*Ocimum scutellarioides*, *L.*;—*B. M.* 35, *t.* 1446.—*Majoiana rubra*, *Rumph. 5, t.* 101.) 5 Moluccas. Tropical N. Holland. Mauritius. Fl. small, pale blue, with a white tube and throat, March and April. Scentless.
- ANISOCHILOS, *Wall.* (*Benth. Lab. p.* 59;—*G. Don's Mill. dict.* 4, *p.* 685.)
1. *carnosum*, *Wall.* (*Benth. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 148.—*Lavandula carnosus*, *L. amoen.* 10, *p.* 56, *t.* 3.—*Plectranthus carnosus*, *Sm.*—*P. strobiliferus*, *Roxb. fl. ind.* 3, *p.* 23.—*P. dubius*, *Spreng.*—*P. crassifolius*, *Hortul.*;—*Rheed.* 10, *t.* 90.) ५. Clefs of the rocks among the Circar Mountains. Taong-Dong. Fl. smallish, bluish purple, R. and C. S.
- HYPRIS, *Jacq.* (*Benth. Lab. p.* 64;—*G. Don's Mill. dict.* 4, *p.* 686.)
1. *pectinata*, *Poit.* (*Ann. mus.* 7, *p.* 474;—*Benth. Lab. p.* 127;—*G. Don. o. c. p.* 703.—*H. persica*, *Poit.*—*H. racemosa*, *Zucc. ?*—*Mentha perilloides*, *L. syst. ed.* 13, *p.* 445; not of others.—*Nepeta pectinata*, *L. spec.* 799.—*N. aristata*, *Rich.*—*Bystropogon pectinatus*, *L'Herit.*—*B. coarctatus*, *Thonn. and Schum.*—*Brotera persica*, *Spreng.*—*Balota disticha*, *Rodsch.*;—*Meyer*; not L.—*B. suaveolens*, *Rodsch.*; not L.) © Tropical America. W. Indies. Guinea. Madagascar. Arabia. Fl. small, blue, R. S.; fr. C. S.
2. *radiata*, *Willd.* © Mexico.
- LAVANDULA, *Tournef.* (*Benth. Lab. p.* 146;—*G. Don's Mill. dict.* 4, *p.* 708.)
1. *Spica*, *DC.* (*G. Don. o. c. p.* 710;—*Roxb. H. B. p.* 44;—*J. Grah.*



Cat. B. pl. p. 149.—*L. Spica*, β . *L.*—*L. vulgaris*, β . *Lam.*—*L. latifolia*, *Vill.*) *Common Lavender*. $\bar{5}$ S. Europe. N. Africa. Fl. small, indigo coloured, July, but rarely.

- * *Ocimum viride*, Willd. (*O. febrifugum*, Ker.; B. R. 9, t. 753.) $\bar{5}$ West coast of Africa, within the Tropics.—*O. suave*, Willd. $\bar{5}$ Madagascar.—*O. Bojeri*, Benth. $\bar{5}$ Madagascar.—*O. serpyllifolium*, Forsk. $\bar{5}$ Arabia. C. G. H.—*Geniosporum parviflorum*, Benth. $\bar{4}$. Silhet.—*G. prostratum*, Benth. $\bar{4}$. Coromandel. Ceylon. S. Concan.—*Acrocephalus capitatus*, Benth. $\odot$ China.—*Moschosma ocymoides*, Benth. $\odot$ Silhet.—*Orthosiphon rubicundus*, Benth. $\bar{4}$. Nepal.—*O. virgatus*, Benth. $\bar{4}$. Morung Mountains.—*O. tomentosus*, Benth. $\bar{4}$. Madras.—*O. pallidus*, Royle. $\bar{4}$. Banks of the Jumna.—*O. glabratus*, Benth. $\bar{4}$. Courtallum.—*O. scapiger*, Benth. $\bar{4}$. Nepal.—*O. stamineus*, Benth. $\bar{4}$. Banks of the Attran.—*Plectranthus fruticosus*, L'Her. $\bar{5}$ C. G. H.—*P. rotundifolius*, Spreng. $\bar{4}$. The Concans. Mauritius.—*P. ternatus*, Sims.; B. M. 51, t. 2460. $\bar{4}$. Madagascar.—*P. madagascariensis*, Benth. $\bar{4}$. Madagascar. Mauritius.—*P. striatus*, Benth. $\bar{4}$. Silhet. Nepal.—*P. Coetsa*, D. Don. $\bar{4}$. Simla. Mussooree. &c.—*P. ternifolius*, D. Don. $\bar{4}$. Silhet. Nepal. &c.—*Coleus Bojeri*, Benth. $\bar{4}$. Madagascar.—*C. atropurpureus*, Benth. $\bar{4}$. Singapore.—*Anisochilos pallidum*, Wall. $\bar{4}$. Taong-Dong.—*Hyptis radiata*, Willd. $\bar{4}$. Carolina. Mexico.—*H. barbata*, Schrank. $\bar{5}$ Brazil.—*H. canescens*, H. B. and Kth. $\bar{4}$. Caraccas.—*H. spicata*, Poit. $\bar{5}$ Mexico.—*H. suaveolens*, Poit. $\odot$ Mexico. &c.—*H. scoparia*, Poit. $\bar{5}$ Portorico.—*H. tomentosa*, Poit. $\bar{5}$ Mexico.—*Eriope nudiflora*, H. B. and Kth. $\bar{5}$ Guiana.—*Lavandula Stoechas*, L. $\bar{5}$ S. Europe. N. Africa.—*L. viridis*, Ait. $\bar{5}$ Portugal.—*L. dentata*, L.; B. M. 12, t. 400. $\bar{5}$ S. Europe, N. Africa.—*L. vera*, DC. (*True Lavender*.) $\bar{5}$ S. Europe. N. Africa.—*L. multifida*, L. $\bar{5}$ S. Europe. N. Africa.—*L. Burmanni*, Benth. $\bar{4}$. Deccan.

B. MENTHÆ.

(*Menthoidæ*, Benth. *Lab. p. 152*;—*G. Don's Mill. dict. 4, p. 711.*)

POGOSTEMON, Desf. (*Benth. l. c.*;—*G. Don. l. c.*)

1. *plectranthoides*, (Desf.—*Benth. l. c.*;—*G. Don. l. c.*;—*B. M. 60, t. 3238.*—*Origanum bengalense*, *Burm. ind. t. 38, f. 1.*—*Mentha secunda*, *Roxb. H. B. p. 44.*—*M. fruticosa*, *Roxb. fl. ind. 3, p. 6.*—*Wensea pyramidata*, *Wendl. coll. 2, p. 26, t. 84.*) বীজ বটা *Beel-tuta*. $\bar{5}$ Bengal, (Serampore.) Hindoosthan. Deyra-Dhoon. Kheree Pass. Kemaon. Fl. small, tinged with deep rose, C. S.; fr. H. S. The plant possesses a strong, heavy, aromatic smell, and a bitterish taste. (*Roxb.*)

DYSOPHYLLA, Bl. (*Benth. Lab. p. 156*;—*G. Don's Mill. dict. 4, p. 712.*)

1. *quadrifolia*, Benth. (*l. c.*;—*G. Don. l. c.*—*Mentha quadrifolia*, *Roxb. fl. ind. 3, p. 4*; not D. Don.—*Chotekia sericea*, *Opiz. and Corda.*) $\bar{5}$ Circars, Tavoy. Fl. small, rose-coloured, R. and C. S.; fr. C. S.

2. *verticillata*, Benth. (*o. c.*;—*G. Don. l. c. p.* 713.—*Mentha stellata*, Lour.—*M. verticillata*, *Roxb. fl. ind. 3, p. 5.*) पाने-कुला *Panee-kula*. © Cochin China. Bengal, (Serampore,) &c. in wet places. Fl. minute, purple, R. S.; fr. C. S. Smell and taste very aromatic. (*Roxb.*)
 3. *Auricularia*, Bl. (*G. Don's Mill. dict. 4, p.* 712.—*Mentha Auricularia*, L.—*Roxb. fl. ind. 3, p. 4.*—*M. foetida*, *Burm. ind. p.* 126.—*Majana foetida*, *Rumph. 6, t. 16, f. 2.*) ५. Mahableshwur? Ceylon. Taong-Dong. Penang. Moluccas. Java. Silhet. Has been introduced into H. C. G.
- COLEBROOKIA, Sm. (*Benth. Lab. p.* 165;—*G. Don's Mill. dict. 4, p.* 715.)
1. *oppositifolia*, Sm. (*Exot. bot. 2, p.* 111, *t.* 115;—*G. Don. l. c.*;—*Roxb. fl. ind. 3, p.* 26.—*Elzholtzia oppositifolia*, *Poir. suppl. 5, p.* 663, *f.* 75.) ३ Nepal. Kemaon. Fl. minute, white, inodorous, Feb. and March; fr. H. S.
 2. *ternifolia*, Roxb. (*Corom. 3, t.* 245; *fl. ind. 3, p.* 25;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 150, excl. syn. Sm.) ३ Mysore. Kandalla Ghaut. Hills about Parr. Sidney. Mahableshwur, &c. Fl. minute, white, inodorous, Feb. and March; fr. H. S.
- PERILLA, L. (*Benth. Lab. p.* 166;—*G. Don's Mill. dict. 4, p.* 715.)
1. *ocimoides*, L. (*Benth. l. c.*;—*G. Don. l. c.*;—*B. M. 50, t.* 2395;—*J. Grah. Cat. B. pl. p.* 150.—*Mentha perilloides*, *Lam.*;—*Roxb. fl. ind. 3, p.* 7; not L.—*Ocimum frutescens*, L.—*Melissa maxima*, *Arduin. spec. 2, p.* 28, *t.* 13.) © Common on the Ghauts, and at Mahableshwur. Ava. Silhet. Nepal. Kemaon. Fl. very small, white. C. S.; fr. H. S. The whole plant has a strong, rather disagreeable smell. (*J. Grah.*)
- MENTHA, Pliny. L. (*Benth. Lab. p.* 168;—*G. Don's Mill. dict. 4, p.* 716.)
1. *sylvestris*, L. (*G. Don. l. c.*)
 - ♂. *vulgaris*, Benth. (*Lab. p.* 171;—*G. Don. l. c.*—*M. sylvestris*, Sm.; *E. B. 10, t.* 686.—*M. candicans*, *Mill. dict.*—*M. gratissima*, *Willd.*—*M. niliaca*, *Willd.* not Vahl.—*M. longifolia*, *Huds.*) Horse Mint. ५. Europe. Tauria. Caucasus. Siberia. C. G. H. &c. Fl. very small, purplish. Has been cultivated for many years in the garden here without flowering.
 2. *viridis*, L. (*G. Don's Mill. dict. 4, p.* 717;—*E. B. 34, t.* 2424.—*M. verticillata*, *Fcuill.*—*M. spicata*, *Crantz.*—*M. ocimiodora*, *Opiz.*—*M. brevispicata*, *Lehm.*—*M. balsamea*, *Reichb. ?* not Willd.—*M. niliaca*, *Vahl.*; not Willd.—*M. tenuis*, *Michx.*—*M. sativa*, *Roxb. fl. ind. 3, p.* 6; not L.;—*J. Grah. Cat. B. pl. p.* 151, excl. syn.—*M. Pudina*, *Buch.*—*M. lavigata*, *Willd.*) ५. पूदिना *Poodina*. ५. Temperate parts of Europe. C. G. H. N. and S. America, where, as in our gardens, it is probably but domesticated. Fl. small, purplish. Does not fl. in Lower Bengal. It was introduced into H. C. G. in 1795, but had not fl. up to 1814.



3. *piperita*, L. (*G. Don. o. c. p.* 718;—*E. B.* 10, t. 687.—*M. glabrata*, Vahl.—*M. kahirina*, Forsk.) *Pepper Mint*. 4. N. Europe. Cultivated throughout Europe, Egypt, Asia, and America. Fl. small, purple. Has been cultivated for more than fourteen years in the garden here, without flowering.

4. *arvensis*, L. (*G. Don. o. c. p.* 719.)

℥. *vulgaris*, Benth. (*Lab. p.* 179;—*G. Don. l. c.*—*M. arvensis*, Sole, *menth. brit. t.* 12;—*E. B.* 30, t. 2119.—*M. agrestis*, Sole, *o. c. t.* 14;—*E. B.* 30, t. 2120.—*M. gentilis*, *Mill. dict. No.* 15, &c.—*M. austriaca*, Jacq.—*M. palustris*, Mönch, &c.) 4. Europe. N. and M. Asia. Fl. small, purplish. Has been introduced into H. C. G. Fl.?

LYCOPUS, Tournef. (*Benth. Lab. p.* 185;—*G. Don's Mill. dict. 4, p.* 720.)

1. *exaltatus*, L. fil. (*Benth. l. c.*;—*G. Don. l. c.*;—*Sibth. and Sm. fl. græc. t.* 12.—*L. pinnatifidus*, *Pall. fl. ross. 2, t.* 1.) 4. E. Europe, Middle Asia, in humid or watery places. Fl. small, white. Has been cultivated in the garden here for several years, without flowering.

MERIANDRA, Benth. (*Lab. p.* 188;—*G. Don's Mill. dict. 4, p.* 722.)

1. *strobilifera*, Benth. (*l. c.*;—*G. Don. l. c.*) 5 Sirmore, Simla. Fl. very small, white, March and April. The whole plant has a very strong, camphor-like smell, and a bitterish taste.

2. *bengalensis*, Benth. (*l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 151.)—*Salvia bengalensis*, Kön.;—*Roxb. fl. ind. 1, p.* 145; ed. Carey, 1, p. 146.—*S. dianthera*, Roth.—*S. abyssinica*, R. Br. *app. to Salt. abyss.*—*S. stellata*, Buch. *Herb.*) 5 Coromandel, Bengal, Abyssinia. Fl. small, white, May and R. S.; fr. C. S. The whole plant has a very strong camphor-like smell and taste, even stronger than those of the common Sage, whose virtues it possesses.

* *Pogostemon paniculatus*, Benth. *Rheed. 10, t.* 65. 4. The Concan, Tavoy.—*P. parviflorus*, Benth. 4. Silhet.—*P. Heyneanus*, Benth. *Rheed. 10, t.* 77. 4. The Concan.—*Dysophylla strigosa*, Benth. 4. Silhet.—*D. cruciata*, Benth. 4. Nepal.—*D. crassicaulis*, Benth. 4. Silhet.—*D. pumila*, Benth. (*Mentha verticillata*, Hook., B. M. 56, t. 2907.) 4. Nepal.—*Elsholtzia polystachya*, Benth. (*Aphanochilus polystachyus*, Benth. in Wall. pl. as. rar. 1, t. 33, not *Mentha fruticosa*, Roxb.) 5 Mussooree.—*E. blanda*, Benth. (*Aphanochilus blandus*, Benth.; Hook. B. M. 58, t. 3091.) 4. Silhet. Nepal.—*E. incisa*, Benth. 4. Deyra Dhoon, Taong-Dong.—*E. strobilifera*, Benth. 4. Nepal.—*E. cristata*, Willd.; B. M. 52, t. 2560. ☉ Siberia.—*Tetradenia fruticosa*, Benth. 5 Madagascar.—*Isanthus caruleus*, Michx. ☉ Carolina, &c.—*Preslia cervina*, Fresen. 4. Ditches of S. Europe.—*Mentha Royleana*, Benth. 4. Deyra-Dhoon.—*M. rotundifolia*, L. 4. Europe. N. Africa.—*M. suavis*, Guss. 4. Italy. Sicily.—*M. aquatica*, L. (*M. hirsuta*, Sm.; *E. B.* 7, t. 447.) 4. Watery places of Europe.—*M. lanceolata*, Benth. 4. Cey-



lon.—*M. mollis*, Benth. 2. Tropical America.—*M. Pulegium*, L.; E. B. 15, t. 1026. 2. Europe, in ditches.

C. MONARDEZ, Benth.

(*Lab. p.* 190 ;—*G. Don's Mill. dict. p.* 722.)

SALVIA, L. (*Benth. l. c.* ;—*G. Don. l. c.*)

1. *officinalis*, L. (*G. Don. o. c. p.* 723 ;—*Roxb. H. B. p.* 4 ;—*J. Grah. Cat. B. pl. p.* 151.—*S. grandiflora*, Ten. ; not Ettling.) *Common Sage*. 5 S. Europe. Was introduced into H. C. G., in 1809, but had not fl. up to 1814.
2. *aurea*, L. (*G. Don. o. c. p.* 726 ;—*B. M.* 6, t. 182.—*S. colorata*, L. ? not Vahl.—*S. africana*, &c. *Commel. hort.* 2, p. 183, t. 92.) 5 C. G. H. Fl. large, orange, quickly becoming coloured like rusty iron, March ; fr. 0.
3. *africana*, L. (*G. Don. l. c.* ;—*Commel. hort.* 2, p. 181, t. 91 ;—*Mill. fig. t.* 225, f. 1 ;—*S. colorata*, Vahl. ; not L.—*S. integerrima*, Mill. fig. t. 225, f. 2.) 5 C. G. H. Fl. largish, white bluish, March ; fr. 0.
4. *nubicola*, Wall. (*Benth. Lab. p.* 219 ;—*G. Don. l. c.* ;—*Sw. fl. gard.* 2, t. 140.) 2. Kemaon. Shrinaghur. Kidar-kanta. Valley of Cashmere. Simla. Fl. largish, pale yellow, C. S. ; fr. 0.
5. *Horminum*, L. (*G. Don. o. c. p.* 727 ;—*Sibth. and Sm. fl. græc.* 1, t. 20.—*S. colorata*, Thore ; not L. ; nor Vahl.—*Horminum sativum*, Mill. dict. No. 5.—*H. coloratum*, Mönch.) © S. Europe. N. Africa. W. Asia, along the Mediterranean. Fl. smallish, purple, Feb. and March ; fr. April.
6. *syriaca*, L. (*G. Don. o. c. p.* 728 ;—*Roxb. H. B. p.* 4.—*Horminum syriacum*, Baith.—*Sclarea syriaca*, Mill. dict. No. 5.) 2. Persia. Palestine. Syria, near Aleppo. Fl. white. In H. C. G. fl. C. S. ; fr. 0. (*Roxb.*)
7. *Sclarea*, L. (*G. Don. l. c.* ;—*Sibth. and Sm. fl. græc.* 1, t. 25.—*S. Simsiana*, Röm. and Sch. ;—*B. Reg.* 12, t. 1003.—*S. bracteata*, Sims. ; *B. M.* 49, t. 2320 ; not Russel. *Sclarea vulgaris*, Mill. dict. No. 1.) ♂ S. Europe. Fl. large, pale blue, with large, greenish rose-coloured bractes, C. S. ; fr. 0.
8. *lanata*, Roxb. (*fl. ind.* 1, p. 146 ; *ed. Carey*, 1, p. 147 ;—*G. Don. o. c. p.* 730 ;—*Wight. icon.* 2, t. 325 ;—*Wall. pl. as. rar.* 2, t. 116, under name of *S. cana*, afterwards corrected to *S. lanata*.—*S. integrifolia*, Hardw.—*Stenarrhena lanata*, D. Don. pr. fl. nep. p. 111.) 5 Kemaon. Sirmore. Mussooree. Fl. large, purple, C. S. ; fr. 0.
9. *pratensis*, L. (*G. Don. o. c. p.* 731 ;—*E. B.* 3, t. 153 ;—*S. hæmatodes*, L. sp. p. 35.—*S. agrestis*, L. amæn. 3, p. 399 ?—*S. Barrelieri*, Ten.—*S. Tenorii*, Spreng. ;—*Sw. fl. gard.* 1, t. 26.—*S. rubicunda*, Wenderoth.—*S. virgata*, Sav. not Ait.—*S. variegata*, Waldest. and Kit.—*S. tricolor*, Hortul.) 2. Middle and S. Europe, in dry grassy fields, and by way-sides. Fl. large, blue, H. and R. S. Not very aromatic.



10. *lusitanica*, Jacq. fl. (*Eol.* 1, p. 57, t. 38, excl. syn. Vahl. and Poir.—*G. Don. l. c.*—*Sclarea lusitanica*, *Mill. dict. No. 3?*) 4. Spain. Portugal. Fl. small, blue, H. S.
11. *Verbenaca*, L. (*G. Don. o. c. p.* 733;—*B. B.* 3, t. 154;—*Curt. lond.* 6, t. 1.—*S. Spielmanni*, *Willd.* not Scop.—*S. Spielmanniana*, *Bieb.*—*S. illyrica*, *Schult.*—*S. micrantha*, *Desf.*; not Vahl.—*S. horminoïdes*, *Pourr.*—*S. byzantina* and *heterophylla*, *Hortul.*—*Horminum Verbenacum*, *Mill. dict. No. 1.*) 4 N. and M. Europe. Tauria. Caucasus. Fl. small, purple, H. and R. S. Very aromatic when rubbed. The seeds produce a great quantity of mucilage when moistened, whence they become serviceable for removing extraneous matter from the eyes.
12. *clandestina*, L. (*Spec. p.* 36; not of his Hb.—*G. Don. l. c.*—*S. Verbenaca*, *Vahl.*; not L.;—*Reichb. icon. bot.* 6, t. 523.—*S. verbenacioides*, *Broth.*) 4 S. Europe. N. Africa. Madeira. Syria. Caucasus. Fl. small, pale blue, or pale purple, C. S.; fr. H. S. Plant very variable.
13. *hispanica*, L. (*G. Don. o. c. p.* 739;—*B. Reg.* 5, t. 359.—*S. tetragona*, *Mönch.*—*S. prismatica*, *Cav.*;—*Lam. ill. t.* 20, f. 2.) © Tropical America. Jamaica. Mexico. Now apparently naturalized in S. Europe. Fl. small, pale blue, Feb. and March; fr. H. S.
14. *splendens*, Sello. (*Benth. Lab. p.* 287;—*G. Don. o. c. p.* 748;—*B. Reg.* 8, t. 687;—*S. brasiliensis*, *Spreng.*—*S. colorans*, *Hortul.*) 4. Woods in Brazil, near Rio Janeiro. Fl. large, deep scarlet, C. and H. S.; fr. O.
15. *coccinea*, L. (*G. Don. o. c. p.* 749;—*Roxb. H. B. p.* 4;—*Murr. comm. gött.* 1778, p. 86, t. 1.—*S. rosea*, *Vahl.*—*S. glaucescens*, *Pohl. pl. bras.* 2, t. 192.—*Horminum coccineum*, *Mönch.*) 5 Florida. Georgia. Mexico. Cuba. Jamaica. Brazil. Domesticated in many parts of India. Fl. large, scarlet, and fr. nearly throughout the year.—*Leaves* slightly aromatic, very bitter.
16. *lyrata*, L. (*G. Don. o. c. p.* 755.—*Cunila lyrata*, *Schrank.*—*Horminum lyratum*, *Mill. dict. No. 2.*—*H. virginicum*, L.) 4. Virginia. Carolina. Georgia. Fl. purplish-violet. Was introduced into H. C. G. in 1790, but had not fl. up to 1814.
17. *plebeia*, R. Br. (*pr. p.* 501;—*G. Don. o. c. p.* 756.—*S. minutiflora*, *Bunge enum. pl. chin. p.* 146.—*S. brachiata*, *Roxb. fl. ind.* 1, p. 145; *ed. Carey*, 1, p. 146.—*S. parviflora*, *Roxb. H. B. p.* 4.—*Ocimum fastigiatum*, *Roth.*—*Lumnitzera fastigiata*, *Spreng.*) কোক বরাদী *Koka-buradee*. হু তুলসী *Bhoo-tulsee*. © Tropical New Holland. China. Deyra-Dhoon. Oude. Hindoosthan. Silhet. Cashmere. Bengal, (Serampore.) Fl. minute, purple, and fr. C. S. Slightly aromatic.
18. *verticillato*, L. (*G. Don. l. c.*—*Horminum verticillatum*, *Mill. dict. No. 3.*) 4. S. Europe. N. Africa. Caucasus. Fl. largish, bluish-violet, C. S.
19. *napifolia*, Jacq. (*Hort. vind.* 2, t. 152;—*G. Don. l. c.*) 4. Asia Minor, among bushes about Smyrna. Fl. small, bluish-purple, C. S.

ROSMARINUS, Tournef. (*Benth. Lab. p. 314*;—*G. Don. o. c. p. 757*.)

1. *officinalis*, L. (*G. Don. l. c.*;—*Sibth. and Sm. fl. græc. 1, t. 14*.—*J. Grah. Cat. B. pl. p. 151*.—*R. latifolius, Mill. dict. No. 2*.) Common. Rosemary. ♀ S. Europe. N. Africa. Fl. whitish, with blue spots and dots. Has been cultivated in the garden here for many years, without flowering

MORARDA, L. (*Benth. Lab. p. 315*;—*G. Don. o. c. p. 758*.)

1. *fistulosa*, L. (*G. Don. l. c.*;—*Reichb. icon. exot. 2, t. 172*;—*Mill. fig. t. 183, f. 2*.) ♀ N. America. Texas. Mexico. Fl. large, purplish or pale red, never-scarlet, C. S.

2. *punctata*, L. (*G. Don. o. c. p. 759*;—*B. Repos. 8, t. 546*;—*B. Reg. 1, t. 87*;—*Roxb. H. B. p. 4*.—*M. lutea, Michx.*) ♀ N. America, from Virginia and New Jersey to Florida, Carolina, and New Orleans. Fl. yellowish, dotted with brown, largish, C. S.

* *Salvia cretica*, L. ♀ Candia.—*S. interrupta*, Schousb.; Swt. fl. gard. 2, t. 169. ♀ S. Morocco.—*S. bracteata*, Russ. ♀ Syria, near Aleppo.—*S. viridis*, L. ☉ S. Europe. N. Africa.—*S. Forskühlii*, L.;—*B. M. 25, t. 988*. ♀? Levant.—*S. indica*, L., *B. M. 11, t. 376*. ♀ Persia?—*S. odorata*, Willd. ♀ Bagdad.—*S. spinosa*, L. ♂ Syria. Egypt.—*S. argentea*, L. ♂ S. Europe. N. Africa.—*S. austriaca*, L. *B. Reg. 12, t. 1019*. ♀ S. Austria.—*S. occidentalis*, Swz. ♀ Mexico. W. Indies.—*S. tiliaefolia*, Vahl. ♀ Mexico.—*S. angustifolia*, Cav. ♀ Mexico.—*S. chamædryoides*, Cav.; *B. M. 21, t. 808*. ♀ Mexico.—*S. scordonia*, Poir. ♀ Mexico.—*S. amerissima*, Ort.; *B. Reg. 4, t. 347*. ♀ Mexico.—*S. involucrata*, Cav.; *B. M. 55, t. 2874*; *B. Reg. 14, t. 1205*. ♀ Mexico.—*S. Grahamii*, Benth; *B. Reg. 16, t. 1370*. ♀ Mexico.—*S. pseudococcinea*, Jacq. *B. M. 55, t. 2864*. ♀ Trinidad.—*S. pulchella*, DC. ♀ Mexico.—*S. fulgens*, Cav.; *B. Reg. 16, t. 1356*. ♀ Mexico.—*S. mexicana*, L. ♀ Mexico.—*S. lamifolia*, Jacq. ♀ Trinidad. St. Vincent.—*S. purpurea*, Cav. ♀ Mexico.—*S. nilotica*, Vahl. ♀ Egypt.—*Blephilia ciliata*, Rafin. ♀ Carolina.—*Ziziphora hispanica*, L. ☉ Spain.

D. SATUREIÆ.

(*Satureiæ*, *Benth. Lab. p. 324*;—*G. Don's Mill. dict. 4, p. 761*.)

ORIGANUM, L. (*Benth. Lab. p. 334*;—*G. Don. o. c. p. 764*.)

1. *vulgare*, L. (*G. Don. l. c. p. 765*.—*E. B. 16, t. 1143*.—*O. stoloniferum*, Bess.—*O. orientale*, *Mill. dict. No. 5*.—*O. decipiens*, *Waltr.*) Common Marjoram. ♀ Europe. N. Africa. Middle Asia. (Caucasus. Siberia. Cashmere.) Fl. small, rose-coloured, or purple, C. S.; fr. 0.

MARJORANA, Mönch. (*Benth. Lab. p. 338*;—*G. Don. o. c. p. 766*.)

1. *hortensis*, Mönch. (*Benth. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p. 152*.—*M. vulgaris*, *Bauh.*—*Origanum Marjorana*, L.—*Roxb. H. B. p. 44*.—*O. marjoranoides*, *Willd.*—*O. Wallichianum*, *Benth. in Wall. pl. as. rar. 1, p. 31*.—*O. onites*, *Lam.*; not L.—*O. acinacifolium*,



Wallr.—*Amaracus vulgarior*, *Léb.*) *Sweet Marjoram*. ♂ Fl. small, purplish, or white, C. S.; fr. H. S.

THYMUS, L. (*Benth. Lab. p.* 340;—*G. Don. o. c. p.* 767.)

1. *vulgaris*, L. (*G. Don. l. c.*—*Roxb. H. B. p.* 44;—*J. Grah. Cat. B. pl. p.* 152.—*Blackw. icon. t.* 211.) *Common Thyme*. ♂ Dry, arid, uncultivated places in the S. W. of Europe. Was introduced into H. C. G. before 1794, but had not fl. up to 1814.

SATURNIA, L. (*Benth. Lab. p.* 351;—*G. Don. o. c. p.* 771.)

1. *hortensis*, L. (*G. Don. l. c.*;—*Roxb. H. B. p.* 44;—*J. Grah. Cat. B. pl. p.* 152;—*Lam. ill. t.* 504, *f.* 1.—*S. viminea*, *Burm. fl. ind. p.* 126; not L.) *Garden Savory*. ☉ S. Europe. Fl. small, pale red, Feb. and March; fr. April.

HYSSOPUS, L. (*Benth. Lab. p.* 356;—*G. Don. o. c. p.* 773.)

1. *officinalis*, L. (*G. Don. l. c.*—*Jacq. austr. 3, t.* 254;—*Roxb. H. B. p.* 44.) *Common Hyssop*. ♂ S. Europe. Caucasus. Altai Mountains. Was introduced into H. C. G. in 1796, but had not fl. up to 1814.

* *Pychnanthemum linifolium*, Pursh. ♀. New Orleans.—*P. nudum*, Nutt. ♀. Carolina.—*Origanum normale*, D. Don. ♀. Nepal.—*Collinsonia tuberosa*, Michx. ♀. Carolina.—*C. scabriuscula*, Ait. ♀. Carolina.—*Cunila leucantha*, Benth. ♀. Mexico.—*C. lythrifolia*, Benth. ♀. Mexico.

N. MELISSINÆ.

(*Melissinæ*, *Benth. Lab. p.* 365;

G. Don's Mill. dict. 4, p. 775.)

HEDEROMA, Pers. (*Benth. Lab. p.* 365;—*G. Don. l. c.*)

1. *nepalense*, Benth. (*Lab. p.* 366;—*G. Don. l. c.*—*Cunila nepalensis*, *D. Don. pr. fl. nep. p.* 107.—*C. Buchanani*, *Spreng.*—*Melissa nepalensis*, *Benth. in Wall. pl. as. rar. 1, p.* 66.—*Mosla ocimoides*, *Buch. MSS.*—*Lycopus diantherus*, *Buch.*—*Roxb. fl. ind. 1, p.* 144; *ed. Carey, 1, p.* 145.) ☉ Himalaya. Cashmere. Deyra Dhoon. Fl. small, pale rose-coloured, Feb. and March; fr. H. S.

MELISSA, L. (*Benth. Lab. p.* 383;—*G. Don. o. c. p.* 780.)

1. *Acinos*, Benth. (*Lab. p.* 388;—*G. Don. o. c. p.* 782.—*Thymus Acinos*, L.;—*E. B. 6, t.* 411.—*T. heterophyllus*, *Poir.*—*T. canescens*, *Dumort.*—*Acinos thymoides*, *Mönch.*—*A. vulgaris*, *Pers.*—*Calamintha arvensis*, *Lam.*) ☉ Corn fields of Europe. Fl. small, purplish-blue, Feb. and March. Has a pleasant, aromatic smell.

2. *repens*, Benth. (*Lab. p.* 392;—*G. Don. o. c. p.* 782.—*Thymus repens*, *D. Don. pr. fl. nep. p.* 113.—*Clinopodium repens*, *Roxb. fl. ind. 3, p.* 13.) ♀. Nepal. Fl. small, purplish, R. S.

3. *officinalis*, L. (*G. Don. l. c.*—*M. graveolens*, *Host.*—*M. foliosa*, *Opiz.*—*M. occidentalis*, *Rafin.*—*M. corsica*, *Hast.*) *Common Balm*. ♀. S. Europe. Middle Asia. Fl. white or pale yellow, C. S.



- * *Hedeoma pulegioides*, Pers. ☉ Carolina.—*H. Drummondii*, Benth. ☿ Mexico.—*Micromeria bracteolata*, Benth. ♀ Carolina.—*M. Brownei*, Benth. ♀ Jamaica.—*M. biflora*, Benth. ☿ Mussooree.—*M. obovata*, Benth. ☿ Jamaica.—*Melissa Nepeta*, L. (*Thymus Nepeta*, Sm.; E. B. 20, t. 1414.) ♀ S. Europe.—*M. caroliniana*, Benth. ♀ Carolina.—*M. parviflora*, Benth. ♀ Deyra-Dhoon.—*Glechom spathulatus*, Benth. ☿ Brazil.—*G. thymoides*, Benth. ☿ Brazil.—*Keithia pilosa*, Benth. ♀ Humid pastures of Brazil.—*Dicerandra linearis*, Benth. ♀ Carolina.

F. SCUTELLARIÆÆ.

(Scutellarinææ, *Benth. Lab. p. 416*;*G. Don's Mill. dict. 4, p. 789*.)SCUTELLARIA, L. (*Benth. Lab. p. 419*;—*G. Don. o. c. p. 791*.)

1. *discolor*, Colebr. (*Wall. pl. as. rar. 1, p. 66*;—*G. Don. l. c.*—*S. indica*, *D. Don. pr. fl. nep. p. 109*; not L.) ♀ Khassya Mountains. Nepal. Fl. 8 lines, pale blue violet, R. and C. S.
2. *indica*, L. (*G. Don. l. c.* not *D. Don.*;—*Roxb. fl. ind. 3, p. 24*;—*J. Grah. Cat. B. pl. p. 152*.) ☉ China. Japan. Java. Moluccas. Mahableshwur in the Bombay Presidency. Fl. white. In H. C. G. fl. and fr. C. S. (*Roxb.*)
3. *rivularis*, Wall. (*pl. as. rar. 2, p. 66*;—*Benth. Lab. p. 438*;—*G. Don. o. c. p. 796*.—*S. peregrina*, *Roxb. fl. ind. 3, p. 24*. not L.—*S. barbata*, *D. Don. pr. fl. nep. p. 109*.—*S. squamulosa*, *Arth. Hamilt. Mon. p. 35*.) ♀ Nepal and China, by sides of rivulets and rivers. Fl. small, blueish, C. S.; fr. H. S.
4. *scandens*, Buch. (*D. Don. pr. fl. nep. p. 110*.—*G. Don. o. c. p. 797*.—*S. angulosa*, *Benth. in Wall. pl. as. rar. p. 67*.—*S. celtidifolia*, *Arth. Hamilt. Mon. p. 27*.) ☿ Nepal. Kemaon. Fl. 8 lines, white sulphur-coloured violet, R. and C. S.

- * *Cleonia lusitanica*, L. ☉ Portugal. Spain. Barbary.—*Scutellaria purpurascens*, Swz. ♀ W. Indies.—*S. Colebrookiana*, Wall. ♀ Peninsula of India.—*S. pilosa*, Michx. ♀ Carolina.—*S. galericulata*, L.; E. B. 8, t. 523. Europe. Asia. N. America. ♀—*S. rumicifolia*, H. B. and Kth. ♀ Mexico.—*Perilomia fruticosa*, Schiede and Deppe. ☿ Mexico.

G. PROSTANTHERÆÆ, Benth.

(Lab. p. 447;—*G. Don's Mill. dict. 4, p. 798*.)

- * *Prostanthera ovalifolia*, R. Br. ☿ Tropical New Holland.

H. NEPETÆÆ, Benth.

(Lab. p. 462;—*G. Don's Mill. dict. 4, p. 802*.)NEPETA, L. (*G. Don. o. c. p. 803*.)

1. *ruderalis*, Buch. (*Benth. in Wall. pl. as. rar. 1, p. 64*;—*G. Don. o. c. p. 806*.—*Thymus nepetoides*, *D. Don. pr. fl. nep. p. 113*.—*Glechoma erectum*, Buch.; *Roxb. fl. ind. 3, p. 7*.—*G. hindostanum*, *Roth*.—*G. indicum*, *Spreng.*) ☉ Saharunpore. Rajmahl. Hurdwar. Deyra-Dhoon.



Fl. small, purple. In H. C. G. fl. and fr. whole year.—Has a pleasant smell, not unlike that of Balm, and a pungent, bitterish taste. (*Roxb.*)

2. *ciliaris*, Benth. (*Lab. p.* 475;—*G. Don. l. c.*) ♀ Nepal. Cashmere. Fl. small, C. S.

3. *madagascariensis*, Lam. (*Spreng. syst. 2, p.* 730.) ♀ Madagascar. Has been introduced into H. C. G. Fl. ?

DRACOCEPHALUM, L. (*Benth. Lab. p.* 490;—*G. Don. o. c. p.* 811.)

1. *Moldavica*, L. (*G. Don. o. c. p.* 813.—*Lam. ill. t.* 513, *f.* 1;—*Roxb. H. B. p.* 44.—*Moldavica punctata*, *Mönch.*) ⊙ E. Siberia. Cultivated in India and S. America. Fl. 10 lines, deep blue, with a white tube, and fr. C. S. Plant when bruised emits a fragrance somewhat like that of Citron-oil.

β. *roseum*. Fl. rose-coloured.

2. *Ruschiana*, L. (*G. Don. o. c. p.* 814; *fl. Don. t.* 121.—*D. hyssopifolium*, *Mart.*—*Zornia linearifolia*, *Mönch.*—*Ruschiana spicata*, *Mill. dict. No. 1.*—*R. glabra*, *Amm. ruth. p.* 50.) ♀ Mountains of Europe, and Asiatic Russia. Fl. 12 lines, purplish, C. S.; fr. H. S.

CEDRONELLA, *Mönch.* (*Benth. Lab. p.* 501;—*G. Don. o. c. p.* 814.)

1. *triphylla*, *Mönch.* (*G. Don. o. c. p.* 815.—*Dracocephalum canariense*, L.;—*Roxb. H. B. p.* 44.) ♂ America. Canaries?—Was introduced into H. C. G. in 1799, but had not fl. up to 1814. This is the plant first brought to Europe under the name of *Permentia de Tanaa*. It is now known under the name of *Balm of Gilead*, which it has obtained from its rich odour on being gently rubbed. (*Mill. dict.*)

- * *Nepeta elata*, Royle. ♀ Simla.—*N. spicata*, Benth. Simla.—*N. discolor*, Royle. ♀ Mussooree.—*N. tuberosa*, L. ♀ S. Spain. Sicily.—*N. distans*, Royle. ♀ Mussooree.—*N. clinopodioides*, Royle. ♀ Banks of the Jumna.—*N. leucophylla*, Benth. ♀ Mussooree, Simla.—*N. graciliflora*, Benth. ♀ Hurdwar. Deyra-Dhoon.—*N. Glechoma*, Benth. (*Glechoma hederaceum*, L.; *E. B. 12, t.* 873.) ♀ Europe. Asia.—*Dracocephalum peltatum*, L. ⊙ Syria.—*D. canescens*, L. ⊙ Syria.—*D. thymiflorum*, L. ⊙ E. Europe.—*D. nutans*, L. ⊙ Siberia.—*Cedronella mexicana*, Benth. ♀. Among corn and in woods of Mexico.

I. STACHYDÆ.

(*Stachydeæ*, *Benth. Lab. p.* 503;

G. Don's Mill. dict. 4, p. 815.)

LEONURUS, L. (*Benth. Lab. p.* 517;—*G. Don. o. c. p.* 820.)

1. *Cardiaca*, L. (*G. Don. l. c.*;—*E. B. 4, t.* 286.—*L. campestris*, *Andrz.*—*L. illyricus*, *Hortul.*—*Cardiaca vulgaris*, *Mönch.*—*C. trilobata*, *Lam.*) ♀. ♂ Europe. Middle Asia. Fl. smallish, externally whitish, elegantly stained with paler and darker purple within, C. S. β. *villosus*, Benth. (*Lab. p.* 518.—*L. villosus*, *Desf.*—*L. condensatus*, *Horn.*—*L. lacerus*, *Lindl.*—*L. canescens*, *Dumort.*—*L. neglectus*, *Schrank.*) ♀. ♂. Has been introduced into H. C. G. Fl. ?

2. *sibiricus*, L. (*G. Don. o. c. p.* 821;—*Reichb. icon. bot. eur.* 4, t. 337;—*Sm. exot. bot.* 2, t. 94;—*Swt. fl. gard.* 3, t. 204.—*L. tataricus*, *Burm. ind.*;—*Roxb. fl. ind.* 3, p. 8; not *L.*—*L. heterophyllus*, *Swt. brit. fl. gard.* 2, t. 197.—*Stachys Artemisiæ*, *Lour.*) ☉ Asia. Africa. America. Bengal, (Serampore,) where it is no doubt only naturalized. Fl. 6 lines, deep rose-coloured, inodorous, and fr. nearly the whole year.
- ANISOMYLES, R. Br. (*Pr. p.* 503;—*Benth. Lab. p.* 701;—*G. Don. l. c.*)
1. *ovata*, R. Br. (*G. Don. o. c. p.* 822;—*Wight. in Hook. bot. misc.* 2, t. 19;—*J. Grah. Cat. B. pl. p.* 153.—*A. disticha*, *Heyne*, according to Roth.—*Nepeta amboinica*, *L. suppl. p.* 273.—*N. disticha*, *Bl.*—*Ballota disticha*, *L. Mant. p.* 83.—*B. mauritiana*, *Pers.*—*Ajuga disticha*, *Roxb. fl. ind.* 3, p. 2.—*Marrubium indicum*, *Burm. ind. p.* 127;—*Burm. Zeyl. t.* 71.—*Monarda Zeylanica*, *Burm. ind. p.* 12;—*Rheed. 10, t.* 88.) गोबर (Gobur). ☉ Ceylon. Coromandel: Bombay. Bengal, (Serampore.) Nepal, &c. Fl. middle-sized, reddish-purple, R. and C. S.; fr. C. S. The whole plant has a strong camphoraceous smell. (*Nimmo.*)
 2. *malabarica*, R. Br. (*B. M.* 46, t. 2071;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 153.—*Nepeta malabarica*, *L.*;—*Ajuga fruticosa*, *Roxb. fl. ind.* 3, p. 1.—*Stachys malabarica*, *Sieb.*;—*Rheed. 10, t.* 93 ?) 4. Java. Both Peninsulas of India. Mauritius. Fl. large, purplish, faintly fragrant. R. and C. S.; fr. C. S.
- STACHYS, L. (*Benth. Lab. p.* 525;—*G. Don. o. c. p.* 823.)
1. *densiflora*, Benth. (*Lab. p.* 532;—*G. Don. l. c.*—*Betonica Monnieri*, *Osbeck. p.* 146.—*B. hirsuta*, *L. Mant. p.* 248.—*Murr. comm. gött.* 1779, vol. 2, t. 3.—*Reichb. icon. bot. eur.* 8, t. 714.—*B. danica*, *Mill. dict. No. 2.*—*B. incana*, *Ait.*;—*B. M.* 47, t. 2125.—*Reichb. icon. bot. eur.* 8, t. 713.—*Barrel. icon. t.* 340.) 4. Subalpine places in S. Europe. Has been cultivated in the garden here for many years without flowering.
 2. *Betonica*, Benth. (*Lab. p.* 532;—*G. Don. l. c.*—*Betonica officinalis*, *L.*;—*E. B.* 16, t. 1142;—*Reichb. icon. bot. eur.* 8, t. 710.—*B. stricta*, *Ait.*;—*Reichb. icon. bot. eur.* 8, t. 712.) 4. Woods, heaths and pastures of Europe and Russian Asia. Has been cultivated for many years in the garden here, but has not fl.
 3. *germanica*, L. (*Jacq. austr.* 4, t. 319;—*E. B.* 12, t. 829;—*Reichb. icon. bot. eur.* 10, t. 950;—*B. Reg.* 15, t. 1289.—*S. lanata*, *Crantz.*; not *Jacq.*) 4. Dry, arid, and stony places of Europe, Middle Asia, and N. Africa. Has been cultivated for many years here, but has not fl.
 4. *sericea*, Wall. (*pl. as. rar.* 1, p. 64;—*Benth. Lab. p.* 537;—*G. Don. l. c.*;—*S. persica*, *Gmel. jun.*) ☉ Caucasus. Persia. Nepal. Kemaon. Fl. 6 lines, whitish rose-coloured, March; fr. H. S.
 5. *annua*, L. (*G. Don. o. c. p.* 831;—*Jacq. austr.* 4, t. 360.—*S. nervosa*, *Gat.*—*S. Betonica*, *Crantz.*—*Betonica annua*, *L.*; *Mönch.*) ☉ Europe, in corn-fields, and by road-sides. Fl. 7 lines, white, inodorous, March; fr. H. S.

MARRUBIUM, Tournef. (*Benth. Lab.* p. 585 ;—*G. Don. o. c.* p. 840.)

1. *supinum*, L. (*G. Don. o. c.* p. 842.) ♀. S. Europe. Introduced into H. C. G. in 1801, but had not fl. up to 1814.

2. *vulgare*, L. (*G. Don. l. c.* ;—*E. B.* 6, t. 410 ;—*M. hamatum*, *H. B. and Kth.*—*M. germanicum*, *Schrank.*) ♀. Europe. Middle Asia. Introduced into H. C. G. in 1807, but had not fl. up to 1814.

BALLOTA, L. (*Benth. Lab.* p. 592 ;—*G. Don. l. c.*)

1. *hispanica*, Benth. (*Lab.* p. 597 ;—*G. Don. o. c.* p. 844.—*Marrubium hispanicum*, *L. sp.* 816 ; not of his Hb.) ♀. Spain. S. Italy. Sicily. Has been introduced into H. C. G. Fl. ?

ROYLEA, Wall. (*Benth. Lab.* p. 601 ;—*G. Don. o. c.* p. 845.)

1. *elegans*, Wall. (*pl. as. rar.* 1, t. 74 ;—*Benth. l. c.* ;—*G. Don. l. c.*—*Phlomis calycina*, *Roxb. fl. ind.* 3, p. 11.—*Ballota cinerea*, *D. Don. pr. fl. nep.* p. 111.) ♂ Sirmore. Deyra-Dhoon. Shrinagar. Hurdwar. Fl. small, white pale rose-coloured, C. S.

LEUCAS, R. Br. (*pr.* p. 504 ;—*Benth. Lab.* p. 602 ;—*G. Don. l. c.*)

1. *mollissima*, Wall. (*pl. as. rar.* 1, p. 62 ;—*G. Don. o. c.* p. 846.) ♀. Valleys of Nepal. Khasiya Mountains. Fl. small, white, R. and C. S. ; fr. C. S.

2. *pilosa*, Benth. (*G. Don. o. c.* p. 847.—*Phlomis pilosa*, *Roxb. fl. ind.* 3, p. 12 ?) ♀. Bengal. Banks of the Irrawaddi. Fl. small, white, R. S. ; fr. C. S.

3. *procumbens*, Desf. (*Mem. mus. par.* 11, t. 3, f. 2.—*G. Don. l. c.* ;—*J. Grah. Cat. B. pl.* p. 153, excl. *L. biflora*, R. Br. and Burm. zeyl.—*Phlomis biflora*, *Roxb. fl. ind.* 3, p. 12, excl. syn. Burm. zeyl. not Vahl.—*Nepeta indica*, *Burm. ind.* p. 126.) শ্বেত বসন্ত *Shwet-busunto*. ♀. Ceylon. Peninsula of India. Bengal, (Serampore.) Bundlekund, &c. Fl. and fr. nearly the whole year.

4. *stelligera*, Wall. (*pl. as. rar.* 1, p. 61 ;—*Benth. Lab.* p. 613 ;—*G. Don. o. c.* p. 848.) ♀. Aurungabad. Fl. 6 lines, white, C. S. ; fr. H. S.

5. *aspera*, Spreng. (*Syst.* 2, p. 743 ;—*G. Don. o. c.* p. 849 ;—*J. Grah. Cat. B. pl.* p. 153.—*L. Plukenetii*, *Spreng.* ?—*Phlomis aspera*, *Willd.*—*P. Plukenetii*, *Roth.* ?—*P. cephalotes*, β . *Bl.* ?—*P. esculenta*, *Roxb. fl. ind.* 3, p. 10.—*Rheed.* 10, t. 91 ?) ছোট হুলকসা *Chhoto-hulkusa*. ☉ Mauritius. Bourbon. Java. Philippines. Peninsula of India. Bengal, (Serampore.) Himalayas. Fl. small, white, R. and C. S. ; fr. C. S. This plant possesses a considerable degree of peculiar fragrance. Its leaves are used as a potherb by the natives. (*Roxb.*)

6. *cephalotes*, Spreng. (*Syst.* 2, p. 743 ;—*G. Don. l. c.* ;—*J. Grah. Cat. B. pl.* p. 153 ;—*Wight, icon.* 2, t. 327.—*L. capitata*, *Desf. mem. mus.* 11, t. 4.—*Phlomis cephalotes*, *Kön.* ; *Roxb. fl. ind.* 3, p. 10 ;—*Roth.*) বড় হুলকসা *Buro-hulkusa*. ☉ Peninsula of India. Bengal, (Serampore.) Hindoosthan. Nepal. Fl. small, white, R. and C. S. ; fr. C. S.

7. *martinicensis*, R. Br. (*pr.* p. 617 ;—*G. Don. l. c.*—*Clinopodium martinicense*, *Jacq. amer. t.* 177, f. 75.—*Phlomis martinicensis*, Swz.—



- P. caribæa*, Jacq. icon. rar. 1, t. 110.—*P. mollis*, Schum.—*Leonurus parviflorus*, Mönch. ☉ Brazil. West Indies. W. Africa. Madagascar. Taong-Dong. Fl. small, white, and fr. C. S.
8. *linifolia*, Spreng. (Syst. 2, p. 743;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 153.—*L. lavandulæfolia*, Sm.—*Phlomis linifolia*, Roth.—*P. zeylanica*, Roxb. fl. ind. 3, p. 9, excl. syn. Rheed;—*Jacq. icon. rar.* 1, t. 111; not *L.*—*Leonurus indicus*, Burm. ind. p. 127.—*Rumph.* 6, t. 16, f. 1.) इनकमा *Hulkusa*. ☉ Mauritius. Bourbon. Madagascar. Moluccas. Philippines. Peninsula of India. Bengal, (Serampore.) Fl. 8 lines, white, C. S.; fr. H. S. Has a pleasant, faint, aromatic smell. (Roxb.)
- LEONOTIS, R. Br. (pr. p. 504;—*Benth. Lab. p.* 618;—*G. Don. o. c. p.* 850.)
1. *nepetæfolia*, R. Br. (*l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 153;—*B. Reg.* 4, t. 281.—*Phlomis nepetifolia*, L.;—*Roxb. fl. ind.* 3, p. 8.—*Leonurus globosus*, Mönch.—*L. nepetifolius*, Mill. dict. No. 2.) খোজুর চড়ি *Khujoor-churi*. ☉ Peninsula of India. Bengal, (Serampore.) Silhet, &c. Tropical Africa. W. Indies. Brazil. Fl. large, deep orange-coloured, C. S.; fr. H. S.
2. *Leonurus*, R. Br. (pr. p. 504;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 153.—*Phlomis Leonurus*, L.;—*B. M.* 14, t. 478;—*Roxb. H. B. p.* 44.—*Leonorus grandiflorus*, Mönch.—*L. africanus*, Mill. dict. No. 1.) ॐ C. G. H. Fl. large, golden-scarlet, with a white yellowish tube, and fr. nearly the whole year.
- HOLMSKJOLDIA, Retz. (*Benth. Lab. p.* 642;—*G. Don. o. c. p.* 856.)
1. *sanguinea*, Retz. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 153;—*B. Reg.* 9, t. 692.—*Hastingia coccinea*, Kön.;—*Sm. exot. bot.* 2, t. 80;—*Roxb. fl. ind.* 3, p. 65.—*Platunium rubrum*, Juss.) L. ॐ China. Silhet. Hindoosthan. Nepal. Fl. large, orange-scarlet or scarlet, C. S.; fr. H. S.
- COLQUHOUNIA, Wall. (*Benth. Lab. p.* 644;—*G. Don. o. c. p.* 857.)
1. *coccinea*, Wall. (*Tent. fl. nep.* 1, t. 6.—*Hastingia scandens*, Roxb. fl. ind. 3, p. 66;—*Holmskjoldia scandens*, Swt.) ॐ Nepal. Fl. large, scarlet. Has been introduced into H. C. G. Fl. ?
- * *Melittis Melissophyllum*, L.;—*E. B.* 9, t. 577. ॡ England. S. Europe.—*Physostegia virginiana*, Benth. (*Dracocephalum virginianum*, L.; *B. M.* 13, t. 467.) ॡ Humid places of N. America, from Canada to Texas.—*P. truncata*, Benth. ॡ Mexico.—*Macbridea pulchella*, Elliot. ॡ Carolina.—*Lamium amplexicaule*, L.; *E. B.* 11, t. 770. ☉ Europe. N. Africa, &c.—*L. purpureum*, L.; *E. B.* 11, t. 769. ☉ Europe. Asia.—*L. incisum*, Willd.; *E. B.* 27, t. 1933. ☉ Europe.—*L. moschatum*, Mill. ☉ Levant.—*Anisomeles moschata*, R. Br. ॐ Tropical New Holland.—*A. inodora*, R. Br. ॐ Tropical New Holland.—*Galeopsis Ladanum*, L.; *E. B.* 13, t. 884. ☉ Europe. Caucasus.—

G. Tetrakit, L. *a. parviflora*, Benth. (*G. Tetrakit*, E. B. 3, t. 207.)
γ. grandiflora, Benth. (*G. versicolor*, L.; E. B. 10, t. 667.) ⊙
 Europe. Middle Asia.—*Stachys splendens*, Wall. Mussooree.—*S. coc-*
cinea, Jacq.; B. M. 18, t. 666. ♀ Mexico.—*S. hirsuta*, H. B. Kth.
 Mexico.—*S. arvensis*, L.;—E. B. 17, t. 1154. ⊙ Europe, N. Africa,
 Middle Asia.—*Sphacele salviaefolia*, Benth. ♂ S. America.—*Lepechinia*
spicata, Willd.; B. R. 15, t. 1292. ♀ Mexico.—*Craniotome versicolor*,
 Reichb. ♀ Nepal. Silhet.—*Sideritis lanata*, L. ⊙ S. Europe.—*S. pur-*
purea, H. F. Talbot. ⊙ Corfu.—*S. romana*, L. ⊙ Italy. Sicily, &c.—
Leonotis ovata, Spreng. ♀ C. G. H.—*L. intermedia*, Lindl; B. R. 10,
 t. 850. ♀ C. G. H.—*Phlomis bracteosa*, Royle. ♀ Simla.—*P. lamii-*
folia, Royle. ♀ Mussooree.—*Eremostachys superba*, Royle. ill. t. 74. ♀
 Deyra-Dhoon.—*Moluccella lavis*, L.; B. M. 43, t. 1852. ⊙ Syria.
 Palestine.—*M. spinosa*, L. ⊙ Sicily. Naples. Palestine.—*Achyrosp-*
erum densiflorum, Bl. Java.—*A. fruticosum*, Benth. ♂ Madagascar.—
Colquhounia elegans, Wall. pl. as. rar. 3, t. 268. ♂ Taong-Dong.

K. PRASIÆ, Benth.

(*Lab. p. 646*;—*G. Don's Mill. dict. 4, p. 857.*)

GOMPHOSTEMMA, Wall. (*Benth. Lab. p. 646*;—*G. Don. l. c.*)

1. *lucidum*, Wall. (*Benth. Lab. p. 648*;—*G. Don. o. c. p. 858.*) ♀ Chap-
 pedong, on the coast of Tenasserim. Khassya Mountains. Fl. middle-
 sized, yellow, R. S.; fr. C. S.
2. *melissafolium*, Wall. (*Benth. Lab. p. 649*;—*G. Don. l. c.*—*Prasium*
melissifolium, *Roxb. fl. ind. 3, p. 26.*) ♂ Silhet. Fl. largish, yel-
 low, R. S.; fr. C. S.

* *Gomphostemma strobilinum*, Wall. ♀ Prome.—*G. viride*, Wall. ♀ Ta-
 voy.—*G. Heyneanum*, Wall. ♀ Courtallum.—*G. oblongum*, Wall. ♂
 Tavoy.—*G. parviflorum*, Wall. ♀ Penang. Khassya Mountains. Nepal.
 —*G. crinitum*, Wall. ♀ Tavoy.—*G. velutinum*, Wall. ♀ Khassya
 Mountains.

L. AJUGÆ.

(*Ajugoides*, Benth. *Lab. p. 657*;—

G. Don's Mill. dict. 4, p. 860.)

TRUCRUM, L. (*Benth. Lab. p. 660*;—*G. Don. o. c. p. 861.*)

1. *Leucosceptrum*, (T. macrostachyum, Wall.; Benth. *Lab. p. 663.*—
Leucosceptrum canum, *Sm. exot. bot. t. 116.*—*Clerodendron Leucos-*
ceptrum, *D. Don. pr. fl. nep. p. 103.*) ♂ Nepal. Khassya Mountains.
 Has been introduced into H. C. G. Fl. ?
2. *stoloniferum*, Buch. (*Benth. Lab. p. 674*;—*G. Don. o. c. p. 865*;—
Roxb. fl. ind. 3, p. 3?) ♀ Khassya Mountains. Taong-Dong. Fl.
 small, lively pink-coloured. (*Roxb.*) In H. C. G. fl. R. S.; fr. C. S.
 (*Roxb.*)
3. *Botrys*, L. (*G. Don. o. c. p. 867*;—*Mill. fig. 176. t. 264, f. 1.*—*Cha-*
mædrys Botrys, *Mönch*—*Scorodonia Botrys*, *Ser.*) ⊙ S. Europe. N.



Africa. Fl. small, purplish. March; fr. April. The plant has a pleasant aromatic smell. (*Mill. dict.*)

AJUGA, L. (*Benth. Lab. p.* 690;—*G. Don. o. c. p.* 370.)

1. *bracteosa*, Wall. (*Benth. Lab. p.* 696;—*G. Don. o. c. p.* 372.—*A. integrifolia*, Buch.;—*D. Don. pr. fl. nep. p.* 198: ♀. Nepal. Fl. small, white, C. S.

2. *repens*, Roxb. (*fl. ind. 3, p.* 3;—*G. Don. o. c. p.* 373.) ♂. Chittagong. In H. C. G. fl. Jan. and, Feb.; fr. Feb. and March. (*Roxb.*)

CYMARIA, Benth. (*Lab. p.* 705;—*G. Don. l. c.*)

1. *elongata*, Benth. (*l. c.*;—*G. Don. o. c. p.* 374.) ♂. Taong-Dong, Seguen. Fl. small, white, C. S.; fr. H. S.

* *Amethystea coerulea*, L.; B. M. 51, t. 2448. © Asiatic Russia. China.—*Trichostema lineare*, Nutt. © N. America.—*T. dichotomum*, L. © N. America.—*Teucrium cubense*, L. ♂. Mexico. W. Indies. Buenos Ayres.—*T. Wallichianum*, Benth. ♀. Silhet.—*T. inflatum*, Swz. ♀. Mexico. Jamaica.—*T. Royleanum*, Wall. ♀. Deyra-Dhoon, Mussooree.—*T. quadrifarium*, Buch. ♀. Silhet. Nepal.—*T. resupinatum*, Desf. © N. Africa.—*Ajuga lobata*, D. Don. ♀. Nepal.—*A. remota*, Benth. ♀. Deyra-Dhoon.—*A. parviflora*, Benth. ♀. Simla. Mussooree.—*A. decumbens*, Thunb. ♀. Deyra-Dhoon.—*A. macrosperma*, Wall. ♀. Khassya Mountains.—*A. Ivo*, Schreb. © S. Europe. N. Africa.—*A. chia*, Schreb. © Europe and Asia, along the Mediterranean.—*A. Chamaepithys*, Schreb.; E. B. 2, t. 77. © Middle and S. Europe. Tauria. Caucasus.—*Cymaria dichotoma*, Benth. ♂. Taong-Dong, Seguen.

ORDER CXCVIII.—VERBENACEÆ, Juss.—Lindl. Nat. Syst. p. 277.

THE VERVAIN TRIBE.

Trees or shrubs, sometimes herbs, by Lindl. referred to 52 genera. Of these, Spreng. syst. assigns 180 species to S. America, Mexico, and the W. Indies; 26 to N. Holland and the South Sea Islands; 16 to N. America; 10 to China; 4 to Europe; 3 to Guinea; 3 to Japan; 2 to the Mascarenhas Islands; 2 to Arabia; and 1 to the Falkland Islands. In S. Africa have been discovered about 7 species; (*Harvey*.) and in the E. Indies, according to Spreng. syst., Wall. Cat., and Royle ill. 153, viz. 40 of *Clerodendron*; 1 of *Egiphyla*? 14 of *Callicarpa*; 36 of *Premna*; 26 of *Vitex*; 8 of *Congea*; 1 of *Symphorema*; 8 of *Gmelina*; 2 of *Tectona*; 1 of *Phryma*; 1 of *Streptium*; 3 of *Verbena*; 1 of *Stackyturpheta*? 2 of *Zapania*; 5 of *Lantana*; 1 of *Asaphes*; 1 of *Glossocarya*; 1 of *Hymenopyramis*; and 1 of *Avicennia*. Most of these are natives of Nepal, Kemaon, the Khassya Mountains, Assam and both Peninsulas of India. Many have



also been found in the Moluccas, Java, Ceylon and the Philippines. We are unacquainted with *Peronema*, Jack. and *Geunsia*, Bl.

Excepting the Teak-tree, the order is not of much importance either in a medicinal or economical point of view.

A. VITICÆÆ, Bartl.

(Lindl. l. c. p. 278.)

CLERODENDRON, L. (*Spreng. syst.* 2, p. 678, No. 2121;—*R. Br. pr.* p. 510.)

1. *Siphonanthus*, R. Br. (*Spreng. syst.* 2, p. 758;—*J. Grah. Cat. B. pl.* p. 157.—*Siphonanthus indicus*, L.; *Roxb. fl. ind.* 3, p. 67;—*Lam. ill.* t. 79, f. 1.—*Ovieda mitis*, L.;—*Burm. ind. t.* 43, f. 1, 2.) बागन झाँझ *Bamin-hatec*, L. 5 Prome, Ava, Tavoy, Peninsula of India. Bengal, (Serampore.) Silhet. &c. Fl. more than four inches long, greenish-white, April, May and from Aug. to Jan.; fr. Jan. and Feb.

2. *hastatum*, Wall. (*Cat.*;—*B. Reg.* 16, t. 1307;—*B. M.* 62, t. 3398.—*Siphonanthus hastatus*, *Roxb. fl. ind.* 3, p. 67.) হাতি কাণা *Hati-kana*, L. 5 Silhet. Fl. more than 5 inches long, greenish-white, with the mouth of the throat marked with 5 purple dots, April and May; fr. June and July.

3. *phlomoïdes*, L. fil. (*Spreng. syst.* 2, p. 760;—*Roxb. fl. ind.* 3, p. 57;—*J. Grah. Cat. B. pl.* p. 157.—*Volkameria multiflora*, *Burm. ind. t.* 45, f. 1.) 5 Coromandel, Deccan, Bengal, Lower Kemaon. Fl. 1½ inch, white, fragrant, R. and C. S.

β. *rubrum*, *Roxb.* Mountains of Coromandel. Fl. red.

4. *inermis*, Gärtn. (*fr.* 1, p. 271, t. 57, f. 1;—*R. Br. pr.* p. 367;—*Spreng. syst.* 2, p. 758;—*Roxb. fl. ind.* 3, p. 58;—*J. Grah. Cat. B. pl.* p. 157.—*Volkameria inermis*, L.;—*Jacq. coll. suppl.* p. 117, t. 4, f. 1;—*Rheed.* 5, t. 49;—*Rumph.* 5, t. 46.) बन बाँझ *Ban-jocen*, L. 5 New Holland, China, Moluccas. Both Peninsulas of India. Soonderbuns. Fl. nearly 2 inches, pure-white, with greenish-white tube, R. and C. S.

5. *neriifolium*, Wall. (*Cat.*—*Volkameria neriifolia*, *Roxb. fl. ind.* 3, p. 64.) 5 Chittagong, Tenasserim, Tavoy. Fl. 12 lines, white, R. S.; fr. Feb. and March. Has a strong premnaceous smell.

β. *lanceolatum*, Wall. *Cat.*—Martaban, Tavoy. Fl. smallish, white, C. S.

6. *heterophyllum*, R. Br. (*Spreng. syst.* 2, p. 758.—*Volkameria heterophylla*, *Poir.*) 5 Mascarenhas Islands. Fl. white, largish, C. S.

7. *emirnense*, Bojer, (*B. M.* 56, t. 2925;—*J. Grah. Cat. B. pl.* p. 158.) L. 5 Province of Emirne in Madagascar. Fl. middle-sized, pale flesh-coloured, almost white, C. S.

8. *nutans*, Wall. (*Cat.*;—*B. M.* 58, t. 3049.) 5 Silhet. Fl. large, white, C. S.; fr. H. S.

9. *viscosum*, Vent. (*Malm.* No. 25;—*B. M.* 43, t. 1805;—*B. Reg.* 8, t. 629.—*C. infortunatum*, L.;—*J. Grah. Cat. B. pl.* p. 157.—*Volkameria*

- infortunata, *Roxb. fl. ind.* 3, p. 59;—*Rheed.* 2, t. 29.) *উটে*, *Bhant.* 5 Both Peninsulas of India. Bengal, (Serampore.) Oude, &c. Fl. large, white, tinged with rose on the inside, Feb. and March; fr. April and May.
10. *velutinum*, Wall. (*Cat.*—*C. molle*, *Jack.*; not H. and B.) 5 Singapore. Has, I think, been introduced into H. C. G.
11. *squamatum*, Vahl. (*Spreng. syst.* 2, p. 759;—*B. Reg.* 8, t. 69.—*Volkameria Kämpferiana*, *Jacq. icon. rar.* 3, t. 500.—*V. Kämpferi*, *Willd.*;—*Roxb. fl. ind.* 3, p. 60;—*Banks. icon. Kämpf.* t. 58.) 5 China. Fl. 12 lines, scarlet, H. and R. S.; fr. 0.
12. *dentatum*, Wall. (*Cat.*—*Volkameria dentata*, *Roxb. fl. ind.* 3, p. 61.) 5 Silhet. Fl. like those of No. 11, May and August; fr. 0.
13. *Buchanani*, Wall. (*Cat.*—*Volkameria Buchanani*, *Roxb. fl. ind.* 3, p. 60.) 5 Moluccas. Fl. like those of No. 11 and 12. In H. C. G. fl. R. S.; fr. 0.
14. *urticifolium*, Wall. (*Cat.*—*Volkameria urticifolia*, *Roxb. fl. ind.* 3, p. 61.) 4. Pegu. Taong-Dong. Fl. largish, scarlet, August, September and October; fr. 0.
15. *paniculatum*, L. (*Spreng. syst.* 2, p. 760;—*B. Reg.* 5, t. 406.—*C. pyramidale*, *Andr. B. Repos.* 10, t. 626.) 5 Penang. Has been introduced into H. C. G. Fl.?
16. *fragrans*, Vent. (*Matm.* t. 70;—*Spreng. syst.* 2, p. 760;—*B. Reg.* 1838, t. 41.) 5 China. Chittagong. Taong-Dong. Martaban. Fl. largish, purplish deep rose-coloured, fragrant.
β. *plenum*, (*B. M.* 43, t. 1834;—*J. Grah. Cat. B. pl.* p. 157.—*Volkameria japonica*, *Jacq. hort. schönbr.* 3, t. 338.) Fl. double, nearly throughout the year.
17. *glandulosum*, Colebr. (*Wall. Cat.*) 5 Khassya Mountains. Fl. large, whitish, C. S.
18. *deflexum*, Wall. (*pl. as. rar.* 3, t. 215.) 5 Penang. Singapore. Fl. large, white, rose-coloured. In H. C. G. fl. January.
19. *serratum*, Bl. (*Bijdr. p.* 110;—*J. Grah. Cat. B. pl.* p. 157.—*C. macrophyllum*, *Sims.*; *B. M.* 52, t. 2536.—*Volkameria serrata*, *L.*;—*Roxb. fl. ind.* 3, p. 62.) 5 Courtallum. Kandalla. The Mahal districts, above the Ghauts. Salsette, Assam. Moring Mountains. Nepal. Fl. large, pale lilac, with the lower lip indigo-coloured, May and June; fr. Sept. Oct. and Nov. The natives eat the flowers and leaves as greens. (*J. Grah.*)
20. *farinosum*, Wall. (*Cat.*—*Volkameria farinosa*, *Roxb. fl. ind.* 3, p. 64.) L. 5 Silhet. In H. C. G. fl. R. S.; fr. 0. (*Roxb.*)
21. *odoratum*, Buch. (*Volkameria odorata*, *Roxb. H. B.* p. 46.) 5 Patna. Sivapur. Oude. Nepal. Kernaon. Fl. middle-sized, bluish, with an indigo-coloured lip, sweet-scented, Jan. and Feb.
β. *albiflorum*. White-flowered.
22. *herbaceum*, Wall. (*Cat.*—*Volkameria herbacea*, *Roxb. H. B.* p. 46.)



24. Nepal. In H. C. G. fl. May and June; fr. October and November. (Roxb.)
23. *Madaera*, (Volkameria *Madaera*, Roxb. *H. B. p.* 46.) Cawnpore. Was introduced into H. C. G. in 1800, but had not fl. up to 1814.)
24. *trichotomum*, Thunb. (*Spreng. syst.* 2, p. 759;—*Thunb. jap.* p. 256.)
♂ Japan. Fl. white. In H. C. G. Fl. ?
25. *roseum*, Wall. In H. C. G.
26. *aculeatum*, J. Grah. (*Cat. B. pl.* p. 157.—*Volkameria aculeata*, L.; *Spreng. syst.* 2, p. 760;—*Jacq. amer.* 185, t. 117; *ed. pict.* t. 177;—*Browne jam.* 262, t. 20, f. 2;—*Plum. spec. ic.* 164, f. 1.) 5 Jamaica. Barbadoes. Fl. small, white, inodorous, and fr. nearly throughout the year.
- CALLICARPA**, L. (*Spreng. syst.* 1, p. 363, No. 430;—*R. Br. pr.* p. 513.)
1. *arborea*, Roxb. (*fl. ind.* 1, p. 390; *ed. Carey*, 1, p. 405;—*Spreng. syst.* 1, p. 421.) 5 Moulmein. Chittagong. Goalpara. Morung Mountains. Oude. Nepal. Kamaon. Fl. small, purple-lilac, unpleasantly smelling, C. S.; fr. H. S.
2. *purpurea*, Juss. (*Roxb. fl. ind.* 1, p. 395; *ed. Carey*, 1, p. 410;—*Spreng. syst.* 1, p. 420.—*Porphyra dichotoma*, Lour.) ♂ S. China. Fl. small, pale purple, sweet-scented, May, June and July; fr. R. S.
3. *lanceolaria*, Roxb. (*fl. ind.* 1, p. 395; *ed. Carey*, 1, p. 409;—*Spreng. syst.* 1, p. 420.) ♂ Amherst. Tavoy. Khassya Mountains. Fl. small, pale purplish-lilac, C. S.; fr. H. S.
4. *Heynii*, Roth. (*Spreng. syst.* 1, p. 429.—*C. decuminata*, Roxb. *fl. ind.* 1, p. 394; *ed. Carey*, 1, p. 408; not Humb.) ♂ Silhet. In H. C. G. fl. April, May and June; fr. C. S. (Roxb.)
5. *Reevesii*, Wall. (*Cat.*) ♂ China. Fl. small, purplish, C. S.; fr. H. S.
6. *macrophylla*, Roxb. (*fl. ind.* 1, p. 393; *ed. Carey*, 1, p. 408;—*Vahl*?) ♂ Taong-Dong. Chittagong. Silhet. Assam. Shreenagur. Nepal. Fl. small, rose-coloured. In H. C. G. fl. R. S.; fr. C. S. (Roxb.)
7. *villosa*, Vahl. (*Spreng. syst.* p. 421;—*Roxb. H. B. p.* 10.) 5 Silhet. Introduced into H. C. G. in 1810, but had not fl. up to 1814.
8. *incana*, Roxb. (*fl. ind.* 1, p. 393; *ed. Carey*, 1, p. 407.—*C. Roxburghii*, Wall. *Cat.*) मथुरा *Muthura*. ♂ Bengal. (Serampore.) Fl. small, purple, H. and R. S.; fr. C. S.
9. *cana*, L. (*Spreng. syst.* 1, p. 419;—*Roxb. fl. ind.* 1, p. 392; *ed. Carey*, 1, p. 406;—*B. M.* 47, t. 2107.—*C. tomentosa*, Lam.—*C. americana*, Lour.; not L.) ♂ Moluccas. Java. Sumatra. Cochin China. Penang. Malabar Coast. Fl. small, pale-reddish, and fr. throughout the year.
10. *dentata*, Roth. (*Wall. Cat.*) ♂ China. Has not fl. here as yet.
- PREMNA**, L. (*Spreng. syst.* 2, p. 678, No. 2118;—*R. Br. pr.* p. 512.)
1. *esculenta*, Roxb. (*fl. ind.* 3, p. 81.) ♂ Chittagong. Fl. small, pale-greenish, and fr. whole year. The natives of Chittagong use the leaves in their diet, as well as in medicine. (Roxb.)



2. *barbata*, Wall. Cat. (*P. serratifolia*, Roxb. *fl. ind.* 3, p. 77; not L.) ভূত ভেরুবে *Bhoot-bheruwee*. L. 5 Bengal, (Serampore.) Goalpara. Morung. Nepal. Kemaon. Fl. minute, greenish-white, R. S.; fr. C. S. The whole plant has a heavy, unpleasant smell, nearly the same as some of the other species of this genus. (Roxb.)
3. *latifolia*, Roxb. (*fl. ind.* 3, p. 76.) 5 Coromandel. Fl. minute, dirty-yellowish. In H. C. G. fl. April; fr. Aug. (Roxb.) Wood white, firm, used for many economical purposes. The leaves have a pretty strong, though not disagreeable smell, and are much used in curries by the natives. (Roxb.)
4. *longifolia*, Roxb. (*fl. ind.* 3, p. 79.) 5 Bengal. Khassya Mountains. Assam. Fl. small, white. In H. C. G. fl. H. and R. S.; fr. C. S. (Roxb.) Has an agreeable smell. (Roxb.)
5. *herbacea*, Roxb. (*fl. ind.* 3, p. 80.) ভুই জাম *Bhoot-jam*. 2. Interior of Bengal. Fl. small, pale-whitish-yellow. Feb. and March.
6. *procumbens*, Moon, (*Catal. ceyl. pl.*—Wall. Cat.) L. 5 Ceylon. Fl. small, greenish-white, nearly the whole year.
7. *spinosa*, Roxb. (*fl. ind.* 3, p. 77;—*Rumph.* 3, t. 134.) 5 Bengal, (Calcutta. Serampore.) গুনিয়ারী *Guniaree*. Fl. small, greenish-yellowish, unpleasantly smelling, R. S.; fr. C. S.
8. *hircina*, Buch. MSS. (according to Wall.—*P. integrifolia*, Roxb. *fl. ind.* 3, p. 81;—*Spreng. syst.* 2, p. 755, excl. syn.;—*J. Grah. Cat. B. pl.* p. 155; not L.;—*Rheed.* 1, t. 53.?—*Rumph.* 3, t. 134.) 5 Mauritius. Sea-shores of Bombay. Moluccas. Goalpara. (Buch.) Fl. small, greenish, H. S.; fr. R. S.
9. *scandens*, Roxb. (*fl. ind.* 3, p. 82;—*J. Grah. Cat. B. pl.* p. 155.) L. 5 Kandalla. Silhet. Fl. small, greenish-yellow, H. S.; fr. R. S.
10. *grandifolia*, Wall. MSS. In H. C. G. Fl. ?
11. *cordifolia*, Roxb. (*fl. ind.* 3, p. 78;—*J. Grah. Cat. B. pl.* p. 155.) 5 Penang. Kandalla. Fl. small, greenish-white, May and June. Leaves not so disagreeably smelling as those of other species. (Roxb.)
12. *lævis*, Wall. L. 5 Doab. Fl. small, greenish-white, and fr. March and April.
13. *coriacea*, L. 5 Native place? Fl. small, white, H. S.; fr. O.
- VITEX, L. (*Spreng. syst.* 2, p. 678, No. 2120;—*R. Br. pr.* p. 511.)
1. *trifolia*, L. (*Spreng. syst.* 2, p. 757;—*R. Br. l. c.*;—*Roxb. fl. ind.* 3, p. 69;—*B. M.* 47, t. 2187;—*J. Grah. Cat. B. pl.* p. 155, excl. *Rheed.* 2, t. 12;—*Rheed.* 2, t. 11;—*Rumph.* 4, t. 18.) 5 Tropical New Holland. Moluccas. Pegu. Coromandel. The Concan and Decan. Patna. Morung. Fl. smallish, bluish-white, April and May. For the cure of the spleen, the Malays employ the leaves given in decoction, and infusion, and formed into a cataplasm, which is applied to the enlarged spleen. (Roxb.) The leaves and flowers are rather agreeably heavy-scented.



2. *Negundo*, L. (*Spreng. syst.* 2, p. 757;—*Roxb. fl. ind.* 3, p. 70.—*V. paniculata*, Lam.;—*Roxb. fl. ind.* 3, p. 71;—*Rheed.* 2, t. 12;—*Rumph.* 4, t. 10.) **निशिन्दा** *Nishinda*. 5 Moluccas. Peninsula of India. Bengal, (Serampore.) Rajmahl. Deyra-Dhoon, &c. Fl. smallish, odoriferous, beautifully blue, H. and R. S.; fr. C. S. A decoction of the aromatic leaves helps to form the warm bath for native women after delivery. Bruised they are applied to the temples for the head-ache. Pillows stuffed with them are put under the head to remove a catarrh and the head-ache attending it. (*Roxb.*) For the rest of the medicinal use of this plant, see *Azadirachta indica*, Juss.
3. *heterophylla*, Roxb. (*fl. ind.* 3, p. 75;—*Wall. pl. as. rar.* 3, t. 226.) L. 5 Tippera. Goalpara. Fl. largish, yellowish, H. S.
4. *incisa*, Lam. (*Spreng. syst.* 2, p. 757;—*Roxb. fl. ind.* 3, p. 72.—*V. Negundo*, Curt.;—*B. M.* 11, t. 364; not L.—*V. chinensis*, *Hb. Banks.*) L. 5 China. Penang. Nepal. Fl. small, bluish-white, odoriferous. H. S.; fr. C. S.
5. *arborea*, Roxb. (*fl. ind.* 3, p. 73;—*Rheed.* 5, t. 2.) L. 5 Circars. Courtallum. Shores of Penang and Singapore. Martaban. Tavoy. Silhet. Fl. small, blue, April; fr. August. Wood, when old, chocolate-coloured, very hard and durable, which renders it useful for various purposes. (*Roxb.*)
6. *Leucoxylon*, Roxb. (*H. B.* p. 46; *fl. ind.* 3, p. 74;—*Rheed.* 4, t. 36.) L. 5 Ceylon. Both Peninsulas of India. Chittagong. Silhet. Assam. Fl. largish, whitish-yellow, fragrant. In H. C. G. fl. April; fr. March. (*Roxb.*)
- Wall. Cat. makes a distinction between *V. Leucoxylon* and *saligna*, of the flor. ind. and the same plants of Hort. Beng. The late Dr. Carey, who compiled the latter work from the MSS. of the former, assured us, however, that he had meant no difference, and consequently there is none.
7. *saligna*, Roxb. (*H. B.* p. 46; *fl. ind.* p. 75.) L. 5 Coromandel. Fl. pure white, middle-sized, inodorous, April; fr. 0.
8. *alata*, Roxb. (*fl. ind.* 3, p. 72;—*J. Grah. Cat. B. pl.* p. 155, excl. syn. Spreng.—*Rheed.* 5, t. 1.) L. 5 Hills W. of Panwell. South Mahratta Country. Chittagong. Silhet. Monghir Mountains. Fl. smallish, yellowish, slightly tinged with blue, April and May; fr. August and Sept.
9. *altissima*, Roxb. (*fl. ind.* 3, p. 71.—L. ?) L. 5 Mountainous forests of Coromandel. Goalpara. Fl. small, white, tinged with blue. In H. C. G. it fl. April and May; fr. August and Sept. (*Roxb.*)
10. *Hoynga*, Roxb. (*H. B.* p. 46.) 5 Chittagong. Introduced into H. C. G. before 1814. Fl. ?
- CONGEA, Roxb. (*Spreng. syst.* 2, p. 678, No. 2115.—*Sphenodesme*, Jack.—*Roscoe*, *Roxb. fl. ind.* 3, p. 54, not Sm.)
1. *pentandra*, Wall. (*Cat.* not Jack.—*Roscoe* *pentandra*, *Roxb. l. c.*) **कुङ्गिया** *Kungiya*, L. 5 Khassya Mountains. Fl. middle-sized, purple, March and April; fr. C. S.

2. *azurea*, Wall. (*Cat.*) 5 Martaban. Has not fl. here yet, though introduced 5 years ago.

SYMPHOREMA, Roxb. (*fl. ind.* 2, p. 262;—*Spreng. syst.* 2, p. 170, No. 1418.)

1. *involutatum*, Roxb. (*Corom. pl.* 2, t. 186; *fl. ind.* 1, c.;—*Spreng. syst.* 2, p. 208;—*Wight. icon.* 2, t. 362.) L. 5 Martaban. Forests of Coromandel. Fl. small, sessile, white, Feb. March and April; fr. 0.

- ? 2. *polyandrum*, Wight. (*icon.* 2, t. 363.) 5 Hills at Balaghaut. Fl. 10 lines, pure-white, April; fr. 0.

GMELINA, L. (*Spreng. syst.* 2, p. 679, No. 2131.)

1. *arborea*, Roxb. (*Corom. pl.* 3, t. 246;—*fl. ind.* 3, p. 84;—*J. Grah. Cat. B. pl.* p. 158;—*Spreng. syst.* 2, p. 765;—*Rheed.* 1, t. 41.) গম্ভীরী Gumbharee. L. 5 Coromandel. Neelgherry. Concans. Bombay Island. Prome. Troglia River. Saluen. Taong-Dong. Gorukpore. Sukanaghur. Onde, &c. Fl. large, sulphur-coloured, slightly tinged with reddish on the outside of the tube, H. S.; fr. C. S. Timber very strong and durable, resisting the influence of water and worms better than teak. (*Roxb.*)? Roxburgh could not be sure, whether the wood, which he subjected to his experiments, really belonged to this tree. Indeed, he only says, "I conceived it to be this wood." The light wood of this tree is used by the natives of Hindoosthan for making the cylinders of the drums called Dholucks; (*Asiat. Res.* 6, p. 366,) also for making carriage pannels, as it combines lightness with strength. (*Dr. Gibson.*)

2. *villosa*, Roxb. (*fl. ind.* 3, p. 86;—*Rumph.* 2, t. 39.) 5 Moluccas. Penang. Madura. Fl. large, bright-yellow, the whole year; fr. C. S.

3. *asiatica*, L. (*Spreng. syst.* 2, p. 765;—*Roxb. fl. ind.* 3, p. 85;—*J. Grah. Cat. B. pl.* p. 158, excl. syn. *G. parviflora* [= *parvifolia*.] *Roxb. Corom. and Pluk. and Rumph.* 2, t. 39.—*Rumph.* 1, t. 40.) L. 5 Coromandel. Fl. large, bright sulphur, whole year; fr. C. S.

4. *parvifolia*, Roxb. (*H. B.* p. 46;—*Spreng. syst.* 2, p. 765.—*G.* [by a misprint] *parviflora*, *Roxb. Corom.* 2, t. 162; *fl. ind.* 3, p. 87.—*G. coromandelica*, *Burm. ind.* p. 32;—*Pluk.* t. 14, f. 4.) L. 5 Coromandel. Mirzapore. Fl. like those of No. 3, April; fr. C. S.

5. *macrophylla*, Wall. (*Cat.*) Amboyna. In H. C. G. Fl.?

TECTONA, L. (*Spreng. syst.* 1, p. 509, No. 704.)

1. *grandis*, L. (*Spreng. syst.* 1, p. 643.—*Roxb. Corom.* 1, t. 6; *fl. ind.* 1, p. 600; *ed. Carey*, 2, p. 346;—*J. Grah. Cat. B. pl.* p. 158;—*Gärtn. fr.* 1, p. 275, t. 57, f. 6.—*Theka, Lam. ill.* t. 136;—*Rheed.* 4, t. 24;—*Rumph.* 3, t. 18.) মেগা Segoon. Teak-tree. L. 5 Banks of the Taptee. The Concans. Malabar. Siam. Java. Bundelkund. Fl. smallish, white, R. S.; fr. Oct. and Nov.

2. *ternifolia*, Buch. (*T. Hamiltoniana*, *Wall. pl. as. rar.* 3, t. 294.) L. 5 Banks of the Irrawaddi at Segaeen, Loongye, Prome, Ava, &c. Foot of Taong-Dong. Fl. small, pale blue, fragrant, March; fr. 0.



B. VERBENÆ, Bartl.

(Lindl. Nat. Syst. p. 278.)

DURANTA, L. (Spreng. syst. 2, p. 679, No. 2129.)

1. *Plumieri*, L. (Spreng. syst. 2, p. 764.—*B. Reg.* 3, t. 244;—*Jacq. amer.* 186, t. 176, f. 76; *ic. pict.* t. 261.) 5 W. Indies. Fl. small, blue, C. S.

2. *Ellisia*, L. (*B. M.* 42, t. 1759.) In H. C. G.

PETREA, L. (Spreng. syst. 2, p. 679.)

1. *volubilis*, L. (Spreng. syst. 2, p. 761;—*Jacq. amer.* 180, t. 114;—*B. M.* 17, t. 628.) 5 Vera Cruz. W. Indies. Fl. large, violet. Introduced in 1841.

STREPTIUM, Roxb. (Spreng. syst. 2, p. 678, No. 2116.)

1. *asperum*, Roxb. (*Corom.* 2, t. 146; *fl. ind.* 3, p. 90;—*Spreng. syst.* 2, p. 754;—*J. Grah. Cat. B. pl.* p. 154.—*Tortula aspera*, Willd.—*Verbena Forsküllii*, Vahl.—*Priva leptostachya*, Pers.) 5 Arabia. Coromandel. Old walls at Dapoorree. Banks of the Irrawaddi. Fl. small, white, C. S.; fr. H. S.

VERBENA, L. (Spreng. syst. 2, p. 678, No. 2109;—*R. Br. pr.* p. 514.)

1. *bonariensis*, L. (Spreng. syst. 2, p. 748.—*Dill. elth.* 406, t. 300, f. 387;—*Roxb. H. B.* p. 4.—*V. trichotoma*, Mönch.) 5 Banks of the Plata River. Fl. minute, purple, H. S.
2. *officinalis*, L. (Spreng. syst. 2, p. 750;—*E. B.* 11, t. 767;—*R. Br. l. c.*—*Roxb. H. B.* p. 4.—*J. Grah. Cat. B. pl.* p. 154.) *Common Vervain*. 4 Europe. Rajmahl. Gondoyera. Oude. Nepal. Taong-Dong. Kemaon. New Holland. Fl. small, pale rose-coloured, C. S.; fr. H. S.

ALOYSIA, Ort. (Pers. syn. 2, p. 139.)

1. *citriodora*, Ort. (Pers. l. c.;—*J. Grah. Cat. B. pl.* p. 154.—*Lippia citriodora*, Kth.;—*Spreng. syst.* 2, p. 753.—*Verbena triphylla*, L'Herit. stirp. 1, p. 20, t. 11;—*B. M.* 11, t. 367.) 5 Peru. Chili. Paraguay. Buenos Ayres. Fl. small, white, with red calices. Has been introduced into H. C. G. Fl. ? In Bombay, at Belgaum and Dharwar, it thrives luxuriantly, and is much esteemed for the delightful fragrance of its leaves. (Law.)

STACHYTARPHETA, Vahl. (Spreng. syst. 1, p. 26, No. 87.)

1. *jamaicensis*, Vahl. (Spreng. syst. 1, p. 53;—*B. M.* 44, t. 1860;—*J. Grah. Cat. B. pl.* p. 154.—*Verbena jamaicensis*, Jacq. obs. 4, p. 6, t. 85;—*Roxb. H. B.* p. 4.) 5 W. Indies. S. America. Fl. small, pale blue, and fr. the whole year.
2. *urticifolia*, Sims. (*B. M.* 43, t. 1848.—*Cymburus urticæfolius*, *Salisb. par. lond.* p. 53, excl. syn.) 5 S. America. Fl. small, indigo-coloured, whole year.
3. *crubica*, Vahl. (Spreng. syst. 1, p. 53.—*Ekret. pict.* 5, f. 1;—*J. Grah. Cat. B. pl.* p. 154.) 5 New Granada. Has been introduced into H. C. G. Fl. ?
4. *mutabilis*, Vahl. (Spreng. syst. 1, p. 53;—*B. M.* 25, t. 976.—*J. Grah.*

Cat. B. pl. p. 154.—*Zapania mutabilis*, Lam.—*Verbena mutabilis*, Willd.;—*Jacq. ic. rar. 2, t. 207.*—*Cymburus mutabilis*, Salisb. *par. lond. p. 49.* 5 Caracas. Fl. at first deep scarlet, then rose or flesh-coloured, middle-sized, and fr. nearly the whole year.

ZAPANIA, JUSS. (*Pers. syn. 2, p. 140*;—*R. Br. pr. p. 514.*)

1. *nodiflora*, Lam. (*R. Br. l. c.*;—*J. Grah. Cat. B. pl. p. 158*, excl. syn. *Lippia repens*, Spreng.—*Lippia nodiflora*, Rich.;—*Spreng. syst. 2, p. 751.*—*S. saimentosa*, Spreng. *o. c. p. 752.*—*Verbena cuneata*, Willd. *herb.*—*V. nodiflora*, L.; *Roxb. H. B. p. 4*;—*Burm. ind. t. 6, f. 1*;—*Rheed. 10, t. 47.*) ছোট ঝকড়া *Chhoto-okra*. বৃহৎ ঝকড়া *Bhooi-okra*. 2. N. America. W. and E. Indies. Islands in the Pacific. New Holland. Fl. minute, white, and fr. the whole year.

VERBENA, L.

1. *Aubletii*, L. suppl. (*B. M. 9, t. 308*;—*B. Reg. 4. 264.*) 2. Carolina.
2. *chamaedrifolia*, Juss. (*B. Cab. 16, t. 1514.*) 5 Buenos Ayres.
3. *sororia*, Don. (*Prodr. fl. nep.*;—*Roxb. Hort. Beng. p. 4*, not L.) Nepal.

LANTANA, L. (*Spreng. syst. 2, p. 679*, No. 2126.)

1. *aculeata*, L. (*Spreng. syst. 2, p. 761*;—*B. M. 3, t. 96*;—*Roxb. H. B. p. 46*;—*J. Grah. Cat. B. pl. p. 156.*) 5 Jamaica and most W. Indian Islands, where it is called *Wild Sage*, on account of its strongly aromatic smell. Fl. yellowish orange-scarlet, small, and fr. whole year.
 2. *nivea*, Vent. (*Spreng. syst. 2, p. 761*;—*B. M. 45, t. 1946.*) 5 W. Indies. (Sm.)
β. mutabilis, Hook. (*B. M. 58, t. 3110.*) 5 Native country unknown. Fl. smallish, first yellow, then rose-coloured, and fr. the whole year.
 3. *odorata*, L. (*Spreng. syst. 2, p. 762*;—*Plum. gen. 32, ic. 71, f. 2.*) 5 W. Indies. Fl. small, rose-coloured, sweet-scented, C. S.
 4. *trifolia*, L. (*Spreng. syst. 2, p. 762*;—*B. M. 35, t. 1449*;—*Roxb. H. B. p. 46.*) 5 West Indian Mountains. Fl. smallish, purplish, and fr. the whole year.
 5. *indica*, Roxb. (*fl. ind. 3, p. 89*;—*J. Grah. Cat. pl. p. 56.*) 5 Mysore. Common about Dharwar. Fl. small, light purple, inodorous, R. S.; fr. 0.
 6. *Gogchana*, Buch. MSS. (*L. dubia*, Wall. *Cat.*;—*Royle ill. p. 300, t. 73, f. 2.*) 5 Banks of the Jumna. Saharunpore. Peer Punjal. Assufghur in Rohilkund. Fl. small, white, aromatic, sweet-scented, and fr. nearly the whole year.
 7. *canescens*, Kth. 5 S. America.
 8. *Selloviana*, Lk. and Ott. (*B. M. 57, t. 2987.*) 5 Monte Video.
- ? *HYMENOPYRAMIS*, Wall. *Cat. (Sine caractere !)*
1. *brachiata*, Wall. (*Cat.*) L. 5 Banks of the Irawaddi. Taong-Dong. Fl. small, white, delightfully fragrant, June and July; fr. August and Sept.

AVICENNIA, L. (*Spreng. syst.* 2, p. 680, No. 2143;—*R. Br. pr.* p. 518.)

1. *tomentosa*, L. (*Spreng. syst.* 2, p. 768;—*R. Br. l. c.*;—*Roxb. fl. ind.* 3, p. 88;—*Wall. pl. as. rar.* 3, t. 211;—*J. Grah. Cat. B. pl.* p. 159;—*Jacq. amer.* t. 112, f. 2.—*A. resinifera*, *Forst. pr.* no. 246.—*A. africana*, *Palis. flor. d'Oware*, 80, t. 47.—*A. Oepata*, *Buch. Herb.*—*Secura marina*, *Forsk. descr.* 37.—*Oepata*, *Rheed.* 4, t. 45.—*Mangium album*, *Rumph.* 3, t. 76.) विना Bina. Between the tropics all over the world. N. Holland, Penang. Singapore. Moluccas. Soonderbuns, &c. Fl. small, dingy-yellow. H. S.; fr. O. The bark is in general use in Rio Janeiro for tanning. (*Lindl.*)

- * *Clerodendrum fortunatum*, L. 5 Goalpara.—*C. calamitosum*, L. Java.—*C. ligustrinum*, *R. Br.* 5 Mauritius.—*C. pubescens*, *Lindl.*; *B. R.* 12, t. 1035. 5 W. Indies.—*C. coromandelianum*, *Spreng.* 5 Mauritius.—*C. lividum*, *Lindl. B. Reg.* 11, t. 945. 5 China.—*C. tomentosum*, *R. Br.*; *B. M.* 37, t. 1518. 5 Tropical N. Holland.—*C. floribundum*, *R. Br.* 5 Tropical N. Holland.—*C. ovatum*, *R. Br.* 5 Tropical N. Holland.—*C. coriaceum*, *R. Br.* 5 Tropical N. Holland.—*Cornutia pyramidata*, *Callicarpa longifolia*, *Lam.*; *B. Reg.* 10, t. 864. 5 Penang.—*C. lanata*, L. 5 Neelgherries.—*C. pentandra*, *Roxb.* 5 Penang.—*C. ferruginea*, *Swz.* 5 Jamaica.—*C. reticulata*, *Swz.* 5 Jamaica.—*C. pedunculata*, *R. Br.* 5 Tropical N. Holland.—*C. adenanthera*, *R. Br.* 5 Tropical N. Holland.—*C. rubella*, *Lindl.*; *B. Reg.* 11, t. 883. 5 China.—*Pityrodia salvifolia*, *R. Br.* 5 Tropical N. Holland.—*Premna mucronata*, *Roxb.* 5 Morung and Khasia Mountains.—*P. tomentosa*, *Willd.* 5 Circar Mountains.—*P. flavesces*, *Buch.* Goalpara.—*P. cordata*, *acuminata*, *ovata*, *obtusifolia*, *R. Br.* 5 Tropical N. Holland.—*P. reticulata*, *Juss.* 5 Jamaica.—*Hosta coerulea*, *Jacq.*; *B. Reg.* 14, t. 1204. 5 Mexico.—*Vitex umbrosa*, *Swz.* 5 Jamaica.—*V. triflora*, *Vahl.* 5 Cayenne.—*V. ovata*, *Thunb.* 5 China. Tropical N. Holland.—*V. acuminata*, *R. Br.* 5 Tropical N. Holland.—*Congea villosa*, (*Roscoe villosa*, *Roxb.*) 5 Rangoon.—*Gmelina oblongifolia*, *Roxb.* L. 5 East of Bengal.—*Duranta Mutisii*, L. 5 W. Indies.—*Citharexylum caudatum*, L. 5 W. Indies.—*C. villosum*, *Jacq.* 5 Domingo.—*Anasonia punicea*, *Vahl.* 4. Trinidad.—*Taligalia campestris*, *Aubl.* 4. Guiana.—*Priva mexicana*, *Pers.* 4. Mexico.—*P. Lappulacea*, *Pers.* 4. W. Indies.—*Tamonia curassavica*, *Aubl.* 5 Curaçao.—*Verbena Lambertii*, *Sims.*; *B. M.* 45, t. 2200. 4. S. America.—*V. bracteosa*, *Michx.*; *B. M.* 56, t. 2910. 5. Mexico.—*V. scabra*, *Vahl.* 4. Mexico.—*Stachytarpheta angustifolia*, *Vahl.* 5 S. America.—*S. prismatica*, *Vahl.* 5 W. Indies.—*Lippia purpurea*, *Jacq.* 5 Mexico.—*Lantana mollis*, *Grah.* 5 Buenos Ayres.—*L. scabrida*, *Ait.* 5 W. Indies.—*L. melissifolia*, *Ait.* 5 W. Indies.—*L. Lockharti*, *G. Don.* 5 Trinidad.—*L. stricta*, *Swz.* 5 Jamaica.—*L. Radula*, *Swz.* 5 W. Indies.—*L. involu-*



crata, L. ♀ W. Indies.—*L. crocea*, Lk. ♀ Jamaica.—*Glossocarya mollis*, Wall. Cat. Sagaen. Towards Taong-Dong.

ORDER CXCIX.—MYOPORACEÆ, Lindl. Nat. Syst. p. 279.

Shrubs, by Lindl., excluding *Avicennia*, referred to 5 genera, with 21 species, of which 20 are natives of New Holland, and 1 (*Bontia*) of the W. Indies. "Properties unknown." (Lindl.)

MYOPORUM, Banks. (*Spreng. syst.* 2, p. 679, No. 2133;—*R. Br. pr. p.* 515.)

1. *acuminatum*, R. Br. (*Spreng. syst.* 2, p. 766;—*R. Br. l. c.*) ♀ New Holland, near Port Jackson. Fl. smallish, white, at the bottom purple stained, Feb. and March; fr. 0.

2. *debile*, R. Br. (*Spreng. syst.* 2, p. 766;—*R. Br. pr. p.* 516;—*B. M.* 43, t. 1830.—*Pogonia* (not R. Br.) *debilis*. *Andr. B. Repos. t.* 212.) ♀ N. Holland, near Port Jackson. Fl. smallish, pale rose-coloured with a tinge of purple, more or less the whole year.

* *Myoporum ellipticum*, R. Br. ♀ Tropical N. Holland.—*M. tenuifolium*, R. Br. ♀ Tropical New Holland.—*Bontia daphnoides*, L. ♀ W. Indies.

ORDER CC.—SELAGINACEÆ, Lindl. Nat. Syst. p. 279.

Herbs or small shrubs, referred by Harvey to 7 genera, containing numerous species, all natives of S. Africa. "Properties unknown." (Lindl.)
HEBENSTREITIA, L., (*Spreng. syst.* 2, p. 678, No. 2113.)

1. *fruticosa*, Thunb. (*Spreng. syst.* 2, p. 754;—*B. M.* 45, t. 1970.) ♀ C. G. H. Fl. small, white, C. S.; but very rare; fr. 0.

* *H. dentata*, L. B. M. 14, t. 483. ♀ C. G. H.

ORDER CCI.—PEDALIACEÆ, Lindl. Nat. Syst. p. 281.

THE OIL-SEED TRIBE.

Herbs, by Lindl. referred to 10 genera, of which Spreng. syst. only enumerates 5 for S. America, Mexico and W. Indies; 2 for New Holland, and 1 for E. Africa. In S. Africa have been found 3 species (*Harvey*); and in the E. Indies as many; viz. 1 of *Pedatum*; and 2 of *Sesamum*. Properties under the species.



MARTYNIA, Houst. (*G. Don's Mill. dict.* 4, p. 234.)

1. *diandra*, Glox. (*G. Don. o. c. p.* 235;—*B. Repos.* 9, t. 575;—*B. Reg.* 23, t. 2001;—*Roxb. H. B. p.* 45;—*J. Grah. Cat. B. pl. p.* 127.—excl. syn. Gärtn. B. M. and *G. Don.*—*M. angulosa*, Lam.) © Mexico. Fl. 2 inches, white-pale rose-coloured, stained with orange below on the inside, and stained on the limb above with 5 central dark purple spots, and fr. R. S. Domesticated about Serampore.

PEDALIMUM, L. (*G. Don's Mill. dict.* 4, p. 235.)

1. *Murex*, L. (*G. Don. o. c. p.* 236;—*Roxb. fl. ind.* 3, p. 114;—*J. Grah. Cat. B. pl. p.* 127;—*Gärtn. fr.* 1, p. 276, t. 58, f. 1;—*Rheed.* 10, t. 72;—*Burm. ind. t.* 45, f. 2.) © Sea-shores of the Coromandel Coast. At Bombay, in compounds on the Esplanade, near the Marine Lines. Ceylon. Fl. largish, yellow, and fr. R. and C. S. The fresh leaves have the property of thickening water, and rendering it mucilaginous. (*J. Grah.*)

SESAMUM, L. (*G. Don's Mill. dict.* 4, p. 234.)

1. *indicum*, L. (*G. Don. l. c.*;—*B. M.* 41, t. 1688;—*Endl. ichtogr. t.* 70.—*S. orientale*, L.;—*G. Don. l. c.*;—*Gärtn. fr.* 2, p. 132, t. 110, f. 2;—*Roxb. fl. ind.* 3, p. 100.—*S. trifoliatum*, *Mill. dict. No.* 3.—*S. luteum*, Retz.—*S. laciniatum*, Willd.;—*Rheed.* 9, t. 54, 55;—*Rumph.* 5, t. 76, f. 1;—*Burm. zeyl. t.* 38, f. 1.) তিল Til. © All over India. Cultivated in Egypt, S. America, W. Indies, the Levant, &c. Fl. largish, white rose-coloured, H. S.; fr. R. S. Leaves emollient. Seeds contain a fixed oil, as tasteless as Olive oil.

β. *major* কৃষ্ণ তিল *Krishno-til.* Of a larger size. Fl. deeper rose-coloured.

- * *Martynia annua*, L. (*M. proboscidea*, Glox.; *B. M.* 26, t. 1056.) © Mexico.—*M. longiflora*, L. © C. G. H.—*M. lutea*, Lindl.; *B. Reg.* 11, t. 934. © Brazil.—*Josephinia grandiflora*, R. Br. ♂ Tropical New Holland.—*Sesamum prostratum*, Retz. © Coromandel.

ORDER CCH.—BIGNONIACEÆ, R. Br.—Lindl. Nat. Syst. p. 282.

THE TRUMPET-FLOWER TRIBE.

Trees or shrubs, often twining or climbing, by Lindl. referred to 31 genera. Of these, Spreng. syst. enumerates 106 species for S. America, Mexico and the W. Indies; 3 for N. America; 3 for Madagascar; 3 for N. Holland; 2 for Guinea; 1 for Senegal; and 1 for China. In S. Africa have been found 4 species; (*Harvey.*) and in the E. Indies, according to Spreng. syst. Wall. Cat., about 27; viz. 17 of *Bignonia*; (both Peninsulas of India, Assam, Morung, Banks of the Jumna, Moluccas), 6 of *Spathodea*,

(Peninsula of India, One from Pegu); 1 of *Calosanthus*; (Coromandel, The Concan, Cochin China); 1 of *Schrebera*; (Circars); 1 of *Trigonocarpus*; (Amherst, Chappedong); and 1 of *Wightia*. (Nepal). Wall. Cat., B. M., and B. Reg.; add 2 species for Mauritius; 1 for Madagascar; and 1 for New Holland. "Plants of this order little known, except for the great beauty of the flowers." (Lindl.)

COLEA, (Bojer.)

1. *mauritiana*, Boj. (B. Colei. B. M. 55, 2817.) Madagascar.

BIGNONIA, Tournef. (G. Don's Mill. dict. 4, p. 214.)

1. *undulata*, Roxb. (*fl. ind.* 3, p. 101;—*J. Grah. Cat. B. pl.* p. 124.—*Tecoma undulata*, G. Don's Mill. dict. 4, p. 223.) 5 Banks of the Jumna and Chumbul. Cawnpore. Abundant in one locality about Kandesh, Guzerat. Fl. large, orange-coloured, scentless, Feb. and March; fr. June and July.
2. *capreolata*, L. (G. Don's Mill. dict. 4, p. 217;—*B. M.* 22, t. 864.) 5 Virginia. Carolina. Fl. largish, externally red, internally sulphur-red, scentless; March.
3. *equinoctialis*, L. (G. Don. l. c.) 5 Cayenne. Introduced in 1840.
4. *crucigera*, L. (G. Don's Mill. dict. 4, p. 217;—*Roxb. H. B.* p. 47.) 5 Virginia. Mexico. Fl. largish, yellow, whitish beneath. Has not fl. here, though cultivated for many years.
5. *suaveolens*, Roxb. (*fl. ind.* 3, p. 104;—*J. Grah. Cat. B. pl.* p. 125.—*Tecoma suaveolens*, G. Don's Mill. dict. 4, p. 224.) पाटली Patulee पारूल Parool. 5 Deccan. Bengal. Sukanaghur. Gorukpur. Kheree Jungle. Fl. large, dark dull crimson, fragrant, H. S.; fr. C. S.
6. *chelonoides*, L. (*Roxb. fl. ind.* 3, p. 106;—*J. Grah. Cat. B. pl.* p. 125, excl. syn. G. Don.—*Rheed.* 6, t. 26.) L. 5 Coromandel. Elephanta. Lanowlee grove, near Kandalla. Jungles in a ravine, near Parr. The Ghauts. Silhet. Assam. Fl. largish, dull yellowish, tinged with brown and orange, May, June and July; fr. Dec. and January.
7. *multijuga*, Wall. (*pl. as. rar.* 1, t. 95, 96;—G. Don's Mill. dict. 4, p. 221.) 5 Silhet. Penang. Fl. very large, greenish-pale, sulphur-coloured, more or less tinged with dark purple, Feb. and March; fr. C. S.
8. *adenophylla*, Wall. (G. Don's Mill. dict. 4, p. 221.) 5 Banks of the Irawaddi. Taong-Dong. Ava. Prome. Has been cultivated here for many years, without fl.
9. *amocna*, Wall. (*pl. as. rar.* 2, t. 183;—G. Don's Mill. dict. 4, p. 222.) 5 Mauritius. Fl. large, pale rose-coloured, at the throat inside orange, fragrant, H. S.; fr. C. S.
10. *suberosa*, Roxb. (*fl. ind.* 3, p. 111;—*J. Grah. Cat. B. pl.* p. 126.—*Millingtonia hortensis*, L. fil.;—G. Don's Mill. dict. 4, p. 229;—*Roxb. Corom.* 3, t. 214.) L. 5 Tanjore. Segaeen. Between Ava and Taong Dong. Fl. large, pure white, fragrant, C. S.; fr. March.



11. *xylocarpa*, Roxb. (*fl. ind.* 3, p. 108;—*J. Grah. Cat. B. pl.* p. 125.—*Tecoma xylocarpa*, *G. Don's Mill. dict.* 4, p. 225.) 5 Neelgherries. Tull Ghaut. Jowar Jungles. Hills about Nagotnah, and on Parr Ghaut. Jungles about Rutnagiree. Abundant in the Jungles about Daung in Kandesh. Fl. large, white, tinged with yellow, fragrant, March and April; fr. Feb. and March. Tender fruit edible. (*Nimmo*.)
 12. *fimbriata*, Wall. Moulmein.
 13. *cauliflora*, Burke. (*Maurit. Cat.*) 5 Madagascar, R. S. 1840.
 14. *venusta*, Ker. (*B. Reg.* 3, 249.—*B. M.* 46, 2050.) 5 ~ Brazil. C. S. 39.
 15. *gracilis*, B. Cab. (18, 1705.) S. Amer. C. S. 39.
 16. *viridiflora*, B. Cab. (11, 1026.)
 17. *echinata*, Jacq. (*amer.* p. 183, t. 176, f. 52.) C. S. 1840.
- SPATHODEA, Beauv. (*G. Don's Mill. dict.* 4, p. 222.)
1. *uncinata*, Spreng. (*syst.* 2, p. 335.—*Bignonia uncinata*, *Meyer*;—*G. Don's Mill. dict.* 4, p. 216.) 5 ~ Essequibo. Fl. largish, dull-red, Oct; fr. 0.
 2. *Rheedii*, Spreng. (*S. longifolia*, *Vent.* ex Lam.—*B. spathacea*, *L. fil. suppl.* not Roxb. *Corom.* 2, 24, t. 144.—*fl. ind.* 3, t. 103, quo teste. *B. falcata*, Kön, MSS.) H. S.; fr. C. S.
 3. *Roxburghii*, Spreng. (*G. Don's Mill. dict.* 4, p. 223.—*Bignonia quadrilocularis*, *Roxb. Corom.* 2, t. 145; *fl. ind.* 3, p. 107;—*J. Grah. Cat. B. pl.* p. 125.) L. 5 Circar Mountains. Malabar Hill. Bombay. Elephanta. The Ghauts. Very common in Paddashapore Jungles, in South Mahratta Country. Kandesh. Fl. large, rose-coloured, fragrant, Feb. and March. Wood employed for many purposes by the natives. (*Roxb.*)
 4. *crispa*, Wall. (*Cat.*—*G. Don's Mill. dict.* 4, p. 222.—*S. atrovirens*, *Spreng.*—*Bignonia crispa*, *Roxb. fl. ind.* 3, p. 103;—*J. Grah. Cat. B. pl.* p. 125.—*B. atrovirens*, *Roth.*) 5 Mysore. Duddi on the Gutpurba. Fl. large, pure white, fragrant, opening in the evening, falling the next morning, May and June; fr. Dec.
 5. *stipulata*, Wall. (*pl. as. rar.* 3, t. 238;—*G. Don's Mill. dict.* 4, p. 223.—*Bignonia stipulata*, *Roxb. fl. ind.* 3, p. 108.) L. 5 Pegu. Fl. large, sulphur-coloured, of an unpleasant smell, Feb.; fr. April.
 6. *serrulata*, Wall. Irawaddi. In H. C. G. Fl.?
- TECOMA, JUSS. (*G. Don's Mill. Dict.* 4, p. 223.)
1. *australis*, R. Br. (*G. D. l. c.*—*Bignonia pandorea*, *Vent. malm.* t. 43.—*B. pandorana*, *B. Repos.* t. 86.—*B. Pandoræ*, *Ker. in. recens. bot. repos.* 97.—*B. M.* 22, t. 865.) 5 ~ Trop. N. Holland. Fl. largish, white pale-rose, with a dark purple throat. Introduced in 1841.
 2. *jasminoides*, G. Don. (*Mill. dict.* 4, p. 235;—*Lindl. B. Reg.* 23, p. 2002.—*Bignonia jasminoides*, *Cunningh.*) 5 ~ N. Holland. Fl. large, white rose-coloured, March and April; fr. 0.

3. *capensis*, Lndl. (*B. Reg.* 13, t. 1117;—*G. Don's Mill. dict. l. c.*—*Bignonia capensis*, *Thunb.*) Fl. large, orange scarlet. Has been introduced into H. C. G. Fl. ?
 4. *grandiflora*, Swt. (*G. Don. l. c.*—*Bignonia grandiflora*, *Thunb.*;—*Roxb. fl. ind.* 3, p. 105;—*Bl.*;—*B. M.* 34, t. 1398;—*B. Repos.* 8, t. 493;—*B. chinensis*, *Lam.*—*Incarvillea grandiflora*, *Spreng.*) L. 5 Japan, China. Fl. large, orange-coloured, scentless, June, July and August; fr. C. S.
 5. *radicans*, Juss. (*G. Don. l. c.*—*Bignonia radicans*, *L.*;—*B. M.* 14, t. 485;—*Roxb. H. B.* p. 47;—*J. Grah. Cat. B. pl.* p. 126.)
β. *minor*. 5 Carolina. Fl. large, deep orange, tinged with scarlet, nearly the whole year; fr. O.
- CATALPA, Juss. (*G. Don's Mill. dict.* 4, p. 230.)
1. *syringifolia*, Sims. (*B. M.* 27, t. 1094;—*G. Don. l. c.*—*Bignonia Catalpa*, *L.*;—*Roxb. H. B.* p. 47.) 5 Banks of the Ohio and Mississippi. Has been cultivated in H. C. G. as well as here, for many years, without fl.
- JACARANDA, Juss. (*G. Don's Mill. dict.* 4, p. 225.)
1. *mimosifolia*, D. Don. (*B. Reg.* 8, t. 631;—*G. Don. l. c.*—*J. ovalifolia*, *R. Br. B. M.* 49, t. 2327.) 5 Brazil. Fl. large, pale-blue. Introduced in 1841.
- CALOSANTHES, Bl. (*Bijdr. p.* 760;—*G. Don's Mill. dict.* 4, p. 229.)
1. *indica*, Bl. (*o. c. p.* 761;—*G. Don. l. c.*—*Bignonia indica*, *L.*;—*Roxb. fl. ind.* 3, p. 110;—*J. Grah. Cat. B. pl.* p. 125;—*B. pentandra*, *Lour.*—*Spathodea indica*, *Pers.*;—*Rheed. l.* t. 43, 44.) L. 5 Coromandel, Bombay Presidency, in Mahim woods; Elephanta; Hills throughout the Concan; Jungles in Kandesh. Fl. very large, outside dark purple, inside yellowish-white, June; fr. Jan. and Feb.
- AMPHILOPHIUM, Humb. Bonpl. and Kth.
1. *Mutisii*, Kth. Equinoctial America.
- SCHREBERIA, Roxb. (*G. Don's Mill. dict.* 4, p. 231.)
1. *swietenoides*, Roxb. (*Corom.* 2, t. 101; *fl. ind.* 1, p. 109; *ed. Carey*, 1, p. 109;—*J. Grah. Cat. B. pl.* p. 112;—*G. Don. l. c.*) L. 5 Circar Mountains. Hala hills, W. of the Indus. Tull Ghaut, near Bhewndy. Jowaur. Fl. smallish, variegated with white and brown, during the night very fragrant, Feb. and March. Wood of a grey colour, very close-grained, heavy, and durable. It is employed by weavers in many parts of their looms, particularly the beam. It is also used for a variety of other purposes. (*Roxb.*)
- ? CREECHNTIA, L. (*G. Don's Mill. dict.* 4, p. 232.)
1. *Cujete*, L. (*G. Don. l. c.*—*Jacq. amer.* 175, t. 111; *ed. pict.* p. 86, t. 167;—*Roxb. H. B.* p. 45.) Common Calabash tree. 5 Equinoctial America. Fl. large, variegated with green, purple, red and yellow, not withering, but becoming putrid, and exhaling a nauseous and in-



tolerable smell, R. S.; fr. O. *Shells* of the fruit, cleansed and dried, are used by the inhabitants of Tropical America for drinking cups. Those of the long, small-fruited kind, are formed into spoons and ladles. The round ones are cut through the middle and used for chocolate-cups; they are frequently large enough to hold a gallon of fluid, serving to boil water in, as they bear fire well. The thicker parts are frequently used for button-moulds in the W. Indies. The Caribs engrave the outside with a number of grotesque figures, which they sometimes colour black and red. The *pulp* is now and then eaten by the negroes, but it is not looked upon as either agreeable, or wholesome; it is, however, much used by way of poultice, and a syrup made out of it is much in request among the natives, in disorders of the breast, in contusions, and inward bruises. The *wood* being very tough and flexible, is fit for the coach-makers, and frequently used for making saddles, stools, and other furniture. (*Mill. dict.*)

2. *alata*, H. B. and Kth. (*G. Don. o. c. p.* 233.) 5 Mexico. In the Governor General's garden, at Barrackpore, fl. R. S. The flowers are like those of No. 1.

? *TRIPINNA*, Lour. (*Tripinnaria*, Pers.—*G. Don's Mill. dict.* 4, p. 233.)

1. *africana*, (*Tripinnaria africana* Spreng. *syst.* 2, p. 842;—*G. Don. l. c.*—*Crescentia pinnata*, Jacq. *coll.* 3, t. 18.—*Tanæcium pinnatum*, Willd.) L. 5 Mozambique. Introduced in 1841.

* *Bignonia pallida*, Lindl.; B. Reg. 12, t. 965 5 St. Vincent.—*B. Unguis*, L. 5 Barbadoes.—*B. staminea*, Lam. 5 St. Domingo.—*B. Chamberlaynii*, Sims.; B. M. 47, t. 2148. 5 Brazil.—*B. alliacea*, Swz. 5 Guiana.—*B. rigescens*, Jacq. 5 Caraccas.—*B. lactiflora*, Vahl. 5 St. Cruz.—*B. Leucoxylon*, L. B. Repos. 1, t. 43. 5 Jamaica.—*B. Telfairiae*, Bojer; B. M. 57, t. 2976. 5 Madagascar.—*B. Colei*, Bojer; B. M. 55, t. 2817. 5 Mauritius. Has been introduced at Bombay.—*Spathodea uncata*, Spreng. (*Bignonia uncata*, Andr.; B. M. 37, t. 1511.) 5 Guiana. W. Indies.—*Tecoma pentaphylla*, Juss. 5 W. Indies.—*T. stans*, Juss.; B. M. 59, t. 3191. 5 W. Indies. Mexico. Introduced at Bombay.—*T. radicans*, Juss. a. *major*, (*Bignonia radicans*, L.; B. M. 14, t. 485.) 5 Virginia. Carolina. Florida.—*Jacaranda brasiliensis*, Lam. 5 Brazil.—*J. tomentosa*, R. Br.; B. Reg. 13, t. 1103. 5 Brazil.—*Fredericia speciosa*, Mart. 5 Rio Janeiro.—*Ferdinandusa elliptica*, Pohl. 5 Brazil.—*Astianthus longifolius*, D. Don. 5 Mexico.—*Chilopsis saligna*, D. Don. 5 Mexico.—*Wightia gigantea*, Wall. pl. as. rar. 1, t. 81. 5 Nepal.—*Catalpa longissima*, Juss. 5 W. Indies.—*Tourretia lappacea*, Willd. 5 B. M. 66, t. 3749. Peru.—*Crescentia cucurbitina*, L. 5 Jamaica.—*C. aculeata*, H. B. and Kth. 5 Mexico.—*Tanæcium parasiticum*, Swz. 5 Jamaica.—*T. Jaroba*, Swz. 5 Jamaica.



ORDER CCIII.—CYRTANDRACEÆ, Jack.—Lindl. Nat. Syst. p. 283.

Terrestrial or parasitical plants, usually herbaceous and stemless, occasionally caulescent, and sometimes shrubby, referred by R. Br. (*Horsf. pl. jav. rar.* 2, p. 114.) to 22 genera: of these 5 species belong to S. Africa and Madagascar; (*Streptocarpus*, Lindl.); 1 to Magellan; 1 to N. China, (*Bæa*, Commers.); 1 to Mexico; (*Glossanthus*, Klein.); 1 to New Zealand; (*Rhabdothermus*, Cunningh.); 1 to N. S. Wales; (*Fieldia*, Cunningh.). The E. Indian species, amount to about 75 species, referred to the following genera; viz. *Æschynanthus*, (12), *Tromsdorffia*, (1?), *Agalmiyla*, (1), *Lysionotus*, (1), *Chirita*, (10), *Didymocarpus*, (22), *Loxocarpus*, (1), *Loxonia*? incana, Wall. Cat.), *Epithema*, *Stauranthera* (2), *Monophyllaea*, (1), *Platystemma*, (1), *Rhynchothecum*, (*Corysanthera*, Wall. Cat.), *Centronia*, (1), *Cyrtandra*, (13), *Whitia*. "Properties unknown." (Lindl.)

ÆSCHYNANTHUS, Jack. (*G. Don's Mill. dict.* 4, p. 656.)

1. *parasiticus*, Wall. (Cat.—*Æ. grandiflorus*, *G. Don. l. c.*;—*B. M.* 67, t. 3843;—*J. Grah. Cat. B. pl.* p. 146.—*Trichosporum grandiflorum*, *D. Don. pr. fl. nep.* p. 125.—*Incarvillea parasitica*, *Roxb. Corom.* 2, t. 291;—*H. B. p.* 47; *fl. ind.* 3, p. 112.) ♀. Paras. The Concans. Khassya Mountains, &c. Fl. large, orange-scarlet, R. S.; fr. Sept. and Oct.

PLATYSTEMMA, Wall. (*G. Don's Mill. dict.* 4, p. 664.)

1. *vioides*, Wall. (*pl. as. rar.* 2, t. 151;—*Royle. ill. t.* 71, f. 1;—*G. Don. l. c.*) ☉ Rocks of Upper Nepal. Fl. largish, violet-blue, in the centre minutely green-rayed, underneath whitish, G. S.

LOXONIA?

1. *alata*, Wall. ♂ North East of Bengal.

- * *Tromsdorffia speciosa*, Blum. ♂ Banks of rivers in Java.—*Æschynanthus oblongifolius*, *G. Don.* (*Incarvillea oblongifolia*, *Roxb.*) ♂ Chittagong.—*Æ. ramosissimus*, Wall. (*pl. as. rar.* 1, t. 71.) ♂ Paras. Nepal.—*Didymocarpus crinitus*, Jack. ♀. Penang.—*D. reptans*, Jack. ♀. Penang.—*Loxotis obliqua*, Benth. Khassya Mountains.—*L. intermedia*, Benth. Moulmein.—*Stauranthera grandifolia*, Benth. Penang.—*Epithema Brunonis*, Decaisne, (*Aikinia Brunonis*, Wall. *pl. as. rar.* 3, t. 228.) ☉ Timor.

ORDER CCIV.—ACANTHACEÆ, R. Br.—Lindl. Nat. Syst. p. 284.

THE JUSTICIA TRIBE.

Herbs or shrubs, by Nees von Esenbeck and Lindl. Nat. syst. p. 285, referred to 78 genera. Of these, Spreng. syst. and Lindl. l. c. addenda, enumerate about 140 species from S. America, Mexico and Brazil; 24 from



Arabia; 22 from New Holland; 12 from Senegal and Guinea; 9 from the Southern part of N. America; 4 from S. Europe; 4 from Madagascar; 4 from China; 3 from Japan; 2 from the Mascarenhas Islands; 2 from N. Africa; and 1 from the Canaries. In S. Africa have been discovered 50 species, (*Harvey*.) Of E. Indian ones, Nees. v. Esenb. has described 263; viz. 6 of *Thunbergia*; 1 of *Meyenia*; 3 of *Hexacentris*; 1 of *Elytraria*; 1 of *Nelsonia*; 1 of *Cardanthera*; 4 of *Adenosma*; 3 of *Ebermayera*; 1 of *Hemidelfhis*; 6 of *Hygrophila*; 3 of *Dyschoriste*; 9 of *Dipteracanthus*; 1 of *Petalidium*; 6 of *Ruellia*; 1 of *Phlebophyllum*; 1 of *Buteraa*; 1 of *Adenacanthus*; 2 of *Stenosiphonium*; 26 of *Strobilanthes*; 2 of *Æchmanthera*; 14 of *Goldfussia*; 11 of *Asystasia*; 1 of *Echinacanthus*; 1 of *Leptacanthus*; 1 of *Asteracanthus*; 24 of *Barleria*; 1 of *Ætheilema*; 18 of *Lepidogathis*; 1 of *Neuracanthus*; 2 of *Blepharis*; 1 of *Acanthus*; 3 of *Dilivaria*; 3 of *Crossandra*; 3 of *Endopogon*; 1 of *Loxanthus*; 5 of *Phlogacanthus*; 4 of *Cryptophragmium*; 10 of *Rostellaria*; 1 of *Hemichoriste*; 1 of *Graptophyllum*; 7 of *Adhatoda*; 10 of *Gendarussa*; 2 of *Leptostachya*; 1 of *Gymnostachyum*; 14 of *Eranthemum*; 4 of *Justicia*; 3 of *Rhinacanthus*; 1 of *Blechnum*; 7 of *Rungia*; 8 of *Dicliptera*; 8 of *Peristrophe*; 2 of *Hypoestes*; 1 of *Rhaphidospora*; 2 of *Erianthera*; 1 of *Haplanthus*; and 6 of *Andrographis*. To these must be added *Eranthemum barlerioides*, Roxb.; *Justicia vetellina*, Roxb.; *J. alba*, Roxb.; *J. bivalvis*, Roxb.; *J. latebrosa*, Kün.; *J. verticillata*, Roxb.; *Ruellia comosa*, Roxb.; *R. flava*, Roxb.; *R. cernua*, Roxb.; *R. flagelliformis*, Roxb.; *R. Pavala*, Roxb.; *R. hirsuta*, Roxb.; and *R. suffruticosa*, Roxb. Perhaps *Stavrogyne argentea* and *angustifolia*, Wall. may also belong to the order. About 60 of these have been found in the Himalayas, the Khassya Mountains, and Assam; the rest are natives chiefly of Mountainous districts of both Peninsulas of India, Java, the Moluccas, Luçon, and Ceylon. But few properties of this order are known.

A. THUNBERGIEÆ, Nees.

(In Wall. *pl. as. rar.* 3, p. 74.)

THUNBERGIA, L. (Nees. *o. c.* p. 77.)

1. *grandiflora*, Roxb. (*fl. ind.* 3, p. 34;—Nees. *o. c.*;—*J. Grah. Cat. B. pl. p.* 163;—*B. Reg.* 6, t. 493;—*B. M.* 50, t. 2366.) नील बज्ज *Neel-luta*. १. Bengal, (Serampore.) Silhet. Hindoostan. Assam. Peninsula of India, &c. Fl. very large, blue, with a white tube, and fr. the whole year.
2. *fragrans*, Roxb. (*Corom.* 1, t. 67; *fl. ind.* 3, p. 33;—Nees. *l. c.*;—*J. Grah. Cat. B. pl. p.* 163;—*B. M.* 44, t. 1881.) १. Circular Mountains. Kennery Jungles. The Ghauts. Hindoosthan. Fl. 15 lines, white, with a sulphur-coloured bottom, inodorous, and fr. the whole year.
3. *alata*, Hook. (*Exot. fl.* t. 177;—*B. M.* 52, t. 2591;—Nees. *o. c.* p. 78.) १. Zanzibar and Pemba. Fl. 16 lines, ochraceous, with deep purple bottom, and fr. C. S.



4. *angulata*, Hook. (*Exot. fl. t.* 166;—*Nees. l. c.*) 4. Madagascar. Fl. 1 inch, violet, with a yellow throat, R. S.

MEYENIA, Nees. (*o. c. p.* 78; not Schlecht.)

1. *Hawtayneana*, Nees. (*l. c.*—*Thunbergia Hawtayneana*, Wall. *tent. fl. nep.* 1, p. 49; *pl. as. rar.* 2, t. 164.) 5 (Neelgherries. Fl. 16 lines, indigo-coloured, with a yellow throat, and fr. the whole year.

β. *albiflora*. Fl. white.

HEXACENTRIS, Nees. (*l. c.*)

1. *coccinea*, Nees. (*l. c.*—*Thunbergia coccinea*, Hook. *exot. fl. t.* 195;—*D. Don. pr. fl. nep. p.* 120.) 4. Nepal. Khaseya Mountains. Fl. largish, intensely red, with a yellow throat, and fr. C. S.

* *Thunbergia levis*, Wall. Cat. 4. Nepal. Dindygul.—*T. tomentosa*, Wall. 4. Neelgherries.—*Hexacentris acuminata*, Nees. Khassya Mountains.—*Mendozia aspera*, Ruiz. and Pav. 5 Peru.—*Mendozia racemosa*, Ruiz. and Pav. Peru.

B. NELSONIÆÆ, Nees.

(In Wall. *pl. as. rar.* 3, p. 74.)

ELYTRARIA, Vahl. (*Nees. o. c. p.* 79.)

1. *crenata*, Vahl. (*Nees. l. c.*—*E. indica*, Pers.—*Justicia acaulis*, L.;—*Roxb. Corom.* 2, t. 127; *fl. ind.* 1, p. 119; *ed. Carey*, 1, p. 120.) 4. Circar Mountains. Madras. Gingie. Madura. Banks of the Jumna, &c. Fl. small, white, R. and C. S.

NELSONIA, R. Br. (*Nees. l. c.*)

1. *tomentosa*, Dietr. (*Nees. l. c.*—*Justicia tomentosa*, Roxb. *fl. ind.* 1, p. 131; *ed. Carey*, 1, p. 132.—*J. vestita*, Röm. and Sch.—*J. bengalensis*, Spreng.) পরামুন্ড Puramool. 4. Both Peninsulas of India. Bengal, (Serampore.) Fl. 3½ line, bluish-purple, inodorous, R. and C. S.; fr. C. S.

β. *lamiifolia*, (*Justicia lamiifolia*, Kön.; *Roxb. fl. ind.* 1, p. 134; *ed. Carey*, 1, p. 135.—*Nelsonia lamiifolia*, Spreng.) 4. Chappedong. Banks of the Saluen River. Bengal, (Serampore.) Fl. small, variegated with deep and light purple, C. S.; fr. March.

CARDANTHERA, Buchan.

1. *triflora*, Buch. (*Ruellia triflora*, Roxb. *fl. ind.* 3, p. 52.) কালি Kala. © Bengal, (Serampore.) Fl. 8 lines, deeper and lighter blue, with a white reddish tube, and a yellow stained throat, and fr. C. S.

ADENOSMA, R. Br. (*Nees. o. c. p.* 79.)

1. *uliginosa*, R. Br. (*Nees. l. c.*—*Ruellia uliginosa*, L.; *Roxb. fl. ind.* 3, p. 52.) © Coromandel. Tranquebar. Bengal, (Serampore,) &c. Fl. small, blue; and fr. C. S.

ERYTHRACANTHUS, Nees. (*o. c. p.* 80.)

1. *racemosus*, Nees. (*l. c.*—*Ruellia racemosa*, Roxb. *fl. ind.* 3, p. 42.) 5 Penang. Has been introduced into H. C. G. ?



- * *Adenosma biplicata*, Nees. Prome.—*Ebermaiera humilis*, Nees. Prome.—*E. thyrsoidea*, Nees. Moulmein.—*E. axillaris*, Nees. Penang.—*Gymnacanthus petiolaris*, Nees. Mexico.

C. ECHMATACANTHI, Nees.

(In Wall. *pl. as. rar.* 3, p. 75.)

a. *Hygrophilæ*, Nees. l. c.

HEMIDELPHIS, Nees. (o. c. p. 80.)

1. *polysperma*, Nees. (l. c.—*Justicia polysperma*, Roxb. *fl. ind.* 1, p. 119; ed. Carey, 1, p. 120.—*Ruellia polysperma*, Roth.—*Adenosma polysperma*, Spreng.) ছোট মেছতা *Chhoto-mecheta*. © Bengal, (Serampore.) Silhet. Assam. Oude. Banks of the Irawaddi. Fl. small, pale blue. C. S.; fr. H. S.

HYGROPHILA, R. Br. (Nees. l. c.)

1. *obovata*, Nees. (o. c. p. 81.—*Ruellia obovata*, Roxb. *fl. ind.* 3, p. 51; —*J. Grah. Cat. B. pl.* p. 162, excl. syn. Rheed.) © Bombay. Coromandel. Bengal, (Serampore.) Chittagong. Fl. small, blue, C. S.; fr. Feb. and March.
2. *radicans*, Nees. (l. c.—*Ruellia radicans*, Wall. *Cat.*—*R. salicifolia*, Roxb. ? *fl. ind.* 3, p. 50; not Vahl.) © Circars. Fl. small, light blue. Silhet. In H. C. G. fl. R. S.; fr. C. S.

- * *Hygrophila phlomboides*, Nees. Silhet.—*H. salicifolia*, Nees. © Silhet. Assam.—*Geissomeria longiflora*, Lindl; B. Reg. 13, t. 1045. 5 Brazil.

b. *Ruellia*, Nees.

(In Wall. *pl. as. rar.* 3, p. 75.)

DIPTERACANTHUS, Nees. (o. c. p. 81.)

1. *ciliatus*, Nees. (l. c.—*Ruellia ciliata*, Hornem; —*Spreng.*) 5 Mountains near Prome. Fl. large, blue, C. S.
2. *dejectus*, Nees. (o. c. p. 82.—*Ruellia ringens*, Roxb. *fl. ind.* 3, p. 44; not L.—*J. Grah. Cat. B. pl.* p. 162, excl. syn. Rheed.) বুড়িগোপানি *Boorigopani*. 4. Tanjore. The Concans. Bengal, (Serampore.) Fl. large, pale blue, expanding in the evening, drooping the next morning, nearly the whole year; fr. C. S.
3. *patulus*, Nees. (l. c.—*Ruellia patula*, Jacq. *icon. rar.* 1, t. 119; —*Roxb. fl. ind.* 3, p. 45; —*J. Grah. Cat. B. pl.* p. 162.) 4. Negapatam. Bombay. Fl. largish, pale blue, C. S. The plant has a weak, but pleasant, fragrant smell. (Roxb.)
- ? 4. *suffruticosus*, (*Ruellia suffruticosa*, Roxb. *fl. ind.* p. 53.) 5 Dinagapore, &c. Fl. 2 inches, pure white, May; fr. O.

PETALIDIUM, Nees. (l. c.)

1. *barlerioides*, Nees. (l. c.—*Ruellia barlerioides*, Roth.—*R. bracteata*, Roxb. *fl. ind.* 3, p. 47; —*J. Grah. Cat. B. pl.* p. 162.) 5 Sheikpur. Monghir. Deyra-Dhoon. The Ghauts. Hills in the vicinity of Panwell. Fl. large, white, with a brownish throat, Feb. and March.



RUELLIA, L. (Nees. l. c.)

1. *sarmentosa*, Nees. (o. c. p. 83.—*Ruellia latebrosa*, Roxb. *fl. ind.* 3, p. 46; not Roth.) 2. Bengal, (Serampore,) &c. Fl. small, light blue, C. S.; fr. Feb. and March.
2. *hirta*, Vahl. (*Roxb. fl. ind.* 3, p. 46.) 2. Circars. Fl. large, bluish-purple. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)
- ? 3. *comosa*, Roxb. (*fl. ind.* 3, p. 43.) L. 5 Moluccas. Fl. large purple. In H. C. G. fl. R. S.; fr. C. S. (*Roxb.*)
- ? 4. *cernua*, Roxb. (*fl. ind.* 3, p. 45; not Wall. Cat., and consequently not *Dyschoriste cernua*, Nees.;—*Rumph.* 6, t. 22, f. 1; according to Roxb.) 5 Mysore. Fl. small, pale pink. In H. C. G. fl. R. S.; fr. C. S. (*Roxb.*)
- ? 5. *maculata*, Wall. (*pl. as. rar.* 3, t. 250.) 5 Khassya Mountains. Fl. large, pale blue. In H. C. G.

BUTERA, Nees. (o. c. p. 83.)

1. *ulmifolia*, Nees. (o. c. p. 84.) 5 Native place not mentioned. Fl. middle-sized, pale violet. Has been cultivated in H. C. G.

STROBILANTHES, Bl. (Nees. l. c.)

1. *scabra*, Nees. (l. c.) 5 Prome. Khassya Mountains. Fl. 14 lines, sulphur-coloured, March; fr. H. S.
2. *callosa*, Nees. (o. c. p. 85.) 5 Nagpur. Fl. large, pale blue, C. S.
3. *Sabiniana*, Nees. (o. c. p. 86;—*B. Reg.* 15, t. 1238;—*B. M.* 63, t. 3517.) 5 Khassya Mountains. Fl. large, lilac, C. S.
4. *auriculata*, Nees. (*Wall. pl. as. rar.* 3, t. 295.) 5 Nepal. Fl. large, pale blue, externally whitish, C. S.
5. *levigata*, Wall. MSS. 5 Khassya Hills. In H. C. G.
6. *elegans*, Wall. MSS. 5 Munipore.

GOLDFUSSIA, Nees. (o. c. p. 87.)

1. *lamiifolia* Nees. (o. c. p. 88.) 5 Nepal. Fl. large, purplish blue, C. S.
2. *glomerata*, Nees. (l. c.) 5 Khassya Mountains. Fl. 2 inches, bluish-violet, C. S.
3. *anisophylla*, Nees. (l. c.—*B. M.* 62, t. 3404.—*Ruellia anisophylla*, Hook. *exot. fl.* t. 191; *B. Reg.* 11, t. 955.) 5 Khassya Mountains. Fl. 1½ inch, pale purplish blue, with a yellow base, C. S.
4. *isophylla*, Nees. (l. c.) 5 Khassya Mountains. Fl. 14 lines, pale purplish blue, C. S.

ASYSTASIA, Bl. (Nees. o. c. p. 89.)

1. *coromandeliana*, Nees. (l. c.—*Justicia gangetica*, L. *amæn.* 4, p. 290, excl. all. syn.?—*Ruellia intrusa*, Vahl.—*R. secunda*, Vahl.—*R. zeylanica*, Kön.; *Roxb. fl. ind.* 3, p. 42;—*J. Grah. Cat. B. pl.* p. 161.—*Rheed.* 9, t. 45.) 5 Common about hedges in India. Fl. 16 lines, purplish blue, and fr. C. S.

* *Dyschoriste littoralis*, Nees.; Wight icon. 2, t. 447. (*Justicia madurensis*, Burm. ind. t. 4, f. 3.) 5 Madura. Negapatam.—*Dipteracanthus*



prostratus, Nees. Negapatam.—*Ruellia quadrifaria*, Wall. 5 Taong-Dong.—*R. ? elegans*, Hook ; B. M. 62, t. 3389. 4. The Ghauts.—*R. ? ciliatiflora*, Hook. B. M. 66, t. 3718. 4. Buenos Ayres.—*R. ? formosa*, Andr. ; B. M. 34, t. 1400. 5 Brazil.—*R. ? rubricaulis*, Cav. 4. Mexico.—*R. ? ovata*, Cav. 4. Mexico.—*R. ? tuberosa*, L. 4. Jamaica.—*R. ? lactea*, Cav. 4. Mexico.—*R. ? fulgida*, Andr. ; B. Repos. t. 527. 4. Barbadoes.—*Phlebophyllum Kunthianum*, Nees. ; Wight icon. 2, t. 448. 5 Neelgherries.—*Adenacanthus acuminatus*, Nees. 4. Burma.—*Stenosiphonium subsericeum*, Nees. Madras.—*Strobilanthes rosea*, Nees. 5 Taong-Dong.—*S. glaucescens*, Nees. 5 Prome.—*S. barbata*, Nees. 5 Courtallum.—*S. fimbriata*, Nees. 5 Khassya Mountains.—*S. echinata*, Nees. 5 Khassya Mountains.—*S. ciliata*, Nees. 5 Courtallum.—*S. glutinosa*, Nees. 5 Nepal.—*S. collina*, Nees. 5 Penang.—*S. Wallichii*, Nees. (*Ruellia alata*, Wall. pl. as. rar. 1, t. 31.) 3 Nepal.—*S. Brunonian*, Nees. 5 Khassya Mountains.—*Echmanthera tomentosa*, Nees. 4. Nepal.—*E. gossypina*, Nees. (*Ruellia gossypina*, Wall. pl. as. rar. 1, t. 42.) 5 Deyra-Dhoon.—*Goldfussia extensa*, Nees. 5 Khassya Mountains.—*G. pentastemonoides*, Nees. 5 Nepal.—*G. colorata*, Nees. 4. Borjora.—*Asystasia Kunthiana*, Nees. 5 Penang.—*A. macrocarpa*, Nees. 5 Nepal.—*A. Neesiana*, Nees. (*Ruellia Neesiana*, Wall. pl. as. rar. 1, t. 83.) 5 Khassya Mountains.—*Echinacanthus attenuatus*, Nees. 4. Nepal.

c. *Barleriæ*, Nees.

(In Wall. pl. as. rar. 3, p. 75.)

ASTERACANTHA, Nees. (o. c. p. 90.)

1. *longifolia*, Nees. (l. c.—Wight. icon. 2, t. 449.—*Barleria longifolia*, L. ; —J. Grah. Cat. B. pl. p. 161.—*Ruellia longifolia*, Roxb. fl. ind. 3, p. 50 ; —Rheed. 2, t. 45.) কঁটা কুলিকা *Kanta-koolika*. 3 4. Both Peninsulas of India, Bengal, (Serampore). Monghir. Oude. Nepal. Fl. 16 lines, pale blue, with the tube and throat white ochraceous, R. S. ; fr. C. S. Considered tonic, and diuretic.

BARLERIA, L. (Nees. o. c. p. 91.)

1. *hirsuta*, Nees. (l. c.) 5 Prome. Fl. 2 inches, blue, C. S.
2. *polytricha*, Wall. (pl. as. rar. 1, t. 82 ; —Nees. l. c.) 5 Banks of the Irawaddi. Fl. 2½ inches, pale blue, C. S. ; fr. Feb.
3. *coerulea*, Roxb. (fl. ind. 3, p. 39 ; —Nees. l. c.) 5 Banks of the Irawaddi. Nepal. Fl. 2 inches, pale blue, C. S. ; fr. Feb. and March.
4. *dichotoma*, Roxb. (fl. ind. 3, p. 39 ; —Nees. l. c. ; —B. Cab. 4, t. 360.) শাদা জাতি *Sada-jati*. 5 Banks of the Irawaddi. Prome. Melloon. Taong-Dong. Penang. Bengal, (Serampore. Patna). Fl. 2 inches, pure white, C. S. ; fr. Feb. and March.
5. *ciliata*, Roxb. (fl. ind. 3, p. 38 ; —Nees. o. c. p. 92.) 5 Bengal. Hindoosthan. Himalayas. Fl. nearly 2 inches, purplish-pink, downwards rosy streaked, C. S. ; fr. Feb. and March.
6. *cristata*, L. (Roxb. fl. ind. 3, p. 37 ; —Nees. l. c. ; —B. Cab. 4, t. 344 ; —

- B. M.* 39, t. 1615;—*Wight. icon.* 2, t. 453;—*J. Grah. Cat. B. pl.* p. 160.) 5 Negapatam. Nepal, &c. Fl. $2\frac{1}{2}$ inches, bright blue, with a dash of purple, Oct. and Nov.; fr. Feb. and March.
β. rosea, (*Roxb. H. B. p.* 45.) 5 Cawnpore. Fl. rose-coloured.
7. *Prionitis*, L. (*Nees, o. c. p.* 93;—*Roxb. fl. ind.* 3, p. 36;—*Wight. icon.* 2, t. 452;—*J. Grah. Cat. B. pl.* p. 160; excl. syn. Rumph.—*Justicia appressa*, *Forsk.*;—*Rheed.* 9, t. 41.) कंठि जाति *Kanta-jati*. 5 Arabia. Java. Ceylon. Both Peninsulas of India. Bengal, (Serampore). Silhet. Assam. Hurdwar, &c. Fl. $1\frac{1}{2}$ inch, bright orange, and fr. C. and H. S.
8. *obovata*, L. (*B. buxifolia*, *Roxb. fl. ind.* 3, p. 37, not L.) 5 Mysore. Fl. 14 lines, pale rosy lilac, C. S.
9. *bispinosa*, (*Nees. l. c.* not Vahl, excl. some synonymes.) 5 Arabia. Courtallum. Fl. like those of No. 8, C. S.
ÆTHRILEMA, R. Br. (*Nees, l. c.*)
1. *reniforme*, *Nees. (l. c.*—*Ruellia imbricata*, *Vahl.* excl. syn. *Forsk.*;—*Roxb. fl. ind.* 3, p. 48.—*R. dorsiflora*, *Retz.*) 4 Prome. Taong-Dong. Bengal, (Serampore). Silhet. Fl. small, white, R. and C. S.; fr. C. S.
LEPIDAGATHIS, Willd. (*Nees, o. c. p.* 95.)
1. *fasciculata*, *Nees. (l. c.*—*Ruellia fasciculata*, *Vahl.*;—*Roxb. fl. ind.* 3, p. 48.) 5 Ceylon. Both Peninsulas of India. Fl. small, white. In H. C. G. fl. Feb. and March; fr. H. S. (*Roxb.*)
2. *hyalina*, *Nees. (l. c.*—*Ruellia dependens*, *Roxb. fl. ind.* 3, p. 49.) 5 Prome. Amherst. Chappedong. Mysore. Assam. Fl. 5 lines, white, dotted with brown, R. and C. S.; fr. C. S.
3. *ustulata*, *Nees. (l. c.)* 5 Gorukpur. Sukanaghur. Fl. like those of No. 2, C. S.; fr. Feb. and March.
4. *cristata*, Willd. (*Nees, o. c. p.* 96;—*Roxb. fl. ind.* 3, p. 53;—*Wight. icon.* 2, t. 455.—*J. Grah. Cat. B. pl.* p. 160.) 4. Coromandel. Bombay. Banks of the Jumna. Fl. small, rose-coloured. Was introduced into H. C. G. in 1803, but had not fl. up to 1814.

- * *Barleria nitida*, *Nees.*; *Wight. icon.* 2, t. 454. 5 Dindygul. Madura.—*B. involocrata*, *Wight.* 4. Neelgherries.—*B. tomentosa*, *Roth.* 5 Negapatam.—*B. longiflora*, L. 5 Prome. Vellore. Travancore.—*B. Hystrix*, L.; Rumph. auct. t. 13. 5 Moluccas. Segaen. Prome.—*B. nepalensis*, *Nees.* 5 Nepal.—*B. nuda*, *Nees.* 5 Silhet.—*B. noctiflora*, L. 5 Courtallum, Ceylon.—*B. solanifolia*, L. 5 W. Indies.—*Lepidagathis mucronata*, *Nees.* 4. Coromandel.—*L. scariosa*, *Nees.*;—*Wight. icon.* 2, t. 457. 5 Dindygul. Madura.—*L. dulcis*, *Nees.* 4. Prome.—*L. pungens*, *Nees.* 5 Tinnevely.—*Aphelandra cristata*, R. Br.; *B. Reg.* 18, t. 1477. 5 W. Indies.—*Neuracanthus tetragonostachyus*, *Nees.* 5 Prome. Taong-Dong.
d. Acanthæ, *Nees.*

(*In Wall. pl. as. rar.* 3, p. 76.)

BLEPHARIS, JUSS. (*Nees, o. c. p.* 97.)

1. *boerhaaviaefolia*, *Juss. (Nees. l. c.*—*Wight. icon.* 2, t. 458.)



- β. *maderaspatensis*, Nees. (*Acanthus maderaspatensis*, L.;—*Roxb. fl. ind.* 3, p. 33.) 4 Madras. Banks of the Jumna. Fl. largish, blue, C. S.; fr. H. S.

ACANTHUS, L. (Nees. o. c. p. 98.)

1. *leucostachyus*, Wall. (Nees. l. c.) 5 Khassya Mountains. Fl. largish, white. Has been introduced into H. C. G. Fl.?

DILIVARIA, Juss. (Nees. l. c.)

1. *ilicifolia*, Juss. (Nees. l. c.;—*Wight, icon.* 2, t. 459.—*Acanthus ilicifolius*, L.;—*Roxb. fl. ind.* 3, p. 32;—*J. Grah. Cat. B. pl.* p. 159, excl. syn. Rumph.—*Rheed.* 2, t. 48.) हाकूच कैंटा *Hakooch-kania*. 5 Sea-shores of India and New Holland. (Soonderbuns.) Fl. large, blue, R. and C. S.; fr. C. S.

- * *Blepharis molluginifolia*, Juss. (*Acanthus repens*, Vahl.) 4 Madras. Bombay. Monghir.—*B. boerhaaviaefolia*, *a. ciliaris*, Nees. (Burm. ind. t. 42, f. 2.) 3 Ceylon. Bombay. Tanjore. Madras. Chingliput. Banks of the Irawaddi.—*Acanthus spinosus*, L.; B. M. 43, t. 1808. 4 Italy.—*Blepharacanthus capensis*, Nees, 4 C. G. H.—*Dilivaria ebracteata*, Juss. (Rumph. 6, t. 71, f. 1.) 5 Moluccas. Chappedong.—*D. volubilis*, Nees. (*Acanthus volubilis*, Wall. pl. as. rar. 2, t. 172; Rumph. 6, t. 72, f. 2.) 5 Moluccas. Java.

e. Justiciæe, Nees.

(*In Wall. pl. as. rar.* 3, p. 76.)

CROSSANDRA, Salisb. (Nees. o. c. p. 98.)

1. *infundibuliformis*, Nees. (l. c.—*Wight, icon.* 2, t. 461.—*C. undulæfolia*, Salisb.—*B. M.* 47, t. 2186;—*B. Reg.* 1, t. 69.—*Justicia infundibuliformis*, L.—*Ruellia infundibuliformis*, Andr.; *B. Repos.* 8, t. 542;—*Roxb. fl. ind.* 3, p. 41;—*J. Grah. Cat. B. pl.* p. 161.—*Harrachia speciosa*, Jacq. ecl. t. 21;—*Blum.*;—*Rheed.* 9, t. 62.) 5 Common in flower-pots about temples, and in gardens. Fl. large, copper-coloured, whole year; fr. C. S.

- β. *aurantiaca*. 5 Singapore. Madura. Nepal. Fl. orange-coloured, large, whole year; fr. C. S.

PHLOGACANTHUS, Nees. (o. c. p. 99.)

1. *curviflorus*, Nees. (l. c.—*B. M.* 66, t. 2783.—*Justicia curviflora*, Wall. pl. as. rar. 2, t. 112.) 5 Khassya Mountains. Fl. 2 inches, reddish-orange, Nov. and Dec.; fr. O.

2. *thyrsiflorus*, Nees. (l. c.—*Justicia thyrsiflora*, *Roxb. fl. ind.* 1, p. 114; ed. Carey, 1, p. 116.) 5 Interior of Bengal. Malung. Khassya Mountains. Nepal. Oude. Fl. 1 inch, deep orange, Jan. and Feb.; fr. April and May.

4. *guttatus*, Nees. (l. c.—*Justicia guttata*, Wall. pl. as. rar. 1, t. 28;—*B. Reg.* 16, t. 1334.) 5 Khassya Mountains. Fl. 1 inch, very pale greenish, stained with blood-red spots, Dec. and Jan.

5. *asperulus*, Nees. (l. c.—*Justicia asperula*, Wall.—*J. quadrangularis*,

Hook;—*B. M.* 55, *t.* 2845;—*B. Reg.* 16, *t.* 1340.—*Justicia vitellina*, *Roxb. fl. ind.* 1, *t.* 117.) 3 Khassya Mountains. Fl. 6 lines, pale rose-coloured, Feb.

CRYPTOPHRAGMIUM, Nees. (*o. c. p.* 100.)

1. *venustum*, Nees. (*o. c.*—*B. M.* 60, *t.* 3208.—*Justicia venusta*, *Wall. pl. as. rar.* 1, *t.* 66;—*B. Reg.* 16, *t.* 1380.) 3 Khassya Mountains. Fl. indigo-coloured, 13 lines, beginning of C. S.; fr. 0.

ROSTELLARIA, Nees. (*l. c.*)

1. *procumbens*, Nees. (*o. c. p.* 101.—*Justicia procumbens*, *L.*;—*Roxb. fl. ind.* 1, *p.* 132; *ed. Carey*, 1, *p.* 133.) 4 Both Peninsulas of India. Fl. small, rose-coloured, and fr. C. S.
2. *quinguangularis*, Nees. (*l. c.*—*Justicia quinquangularis*, *Kön.*;—*Roxb. fl. ind.* 1, *p.* 133; *ed. Carey*, 1, *p.* 134.) 4 Coromandel. Bengal. (Serampore), Rajmahal. Nepal. Fl. small, white-rose-coloured, R. and C. S.; fr. C. S.
3. *glaberrima*. 4. Serampore. Fl. small, rosy-white, R. and C. S.; fr. C. S.
4. *Vahlil*, Nees, (*o. c. p.* 102.—*Justicia Vahlil*, *Roth.*—*J. Vahliana*, *Röm. and Sch.*—*J. diffusa*, *Vahl. excl. syn.* Willd.) Southern India.
5. *molissima*, Nees.
 - β. *graminea*, (*Justicia graminea*, (*junceae*), *Kön.*;—*Roxb. fl. ind.* 1, *p.* 133; *ed. Carey*, 1, *p.* 134.) 4 Coromandel. Bengal. Fl. small, rosy-white, C. S.

GRAPTOPHYLLUM, Nees. (*l. c.*)

1. *hortense*, Nees. (*l. c.*—*Justicia picta*, *L.*;—*Roxb. fl. ind.* 1, *p.* 117; *ed. Carey*, 1, *p.* 118;—*B. Reg.* 15, *t.* 1227;—*J. Grah. Cat. B. pl. p.* 163;—*Rheed.* 6, *t.* 60;—*Rumph.* 4, *t.* 30.) 5 Java. Commonly cultivated in gardens. Fl. 1½ inch, crimson, more or less the whole year.
 - β. *lurido-sanguineum*, (*Justicia picta*, *L.* var. *lurido-sanguinea*, *Sims.*;—*B. M.* 44, *t.* 1870.) Larger. Leaves dark-blood-coloured. Fl. larger.

ADHATODA, Herm. (*Nees. l. c.*)

1. *Betonica*, Nees. (*o. c. p.* 103.—*Justicia Betonica*, *L.*;—*Roxb. fl. ind.* 1, *p.* 128; *ed. Carey*, 1, *p.* 129;—*J. Grah. Cat. B. pl. p.* 165.—*J. Pseudo-Betonica*, *Roth.*—*J. ochroleuca*, *Bl.*;—*Rheed.* 2, *t.* 21.) 4 Coromandel. Bombay. The Concans. Prome. Monghir Hills, &c. Fl. 7 lines, whitish, tinged with pale rose and purple, C. S.; fr. Feb. and March.
2. *ramosissima*, Nees. (*l. c.*—*Justicia ramosissima*, *Roxb. fl. ind.* 1, *p.* 129; *ed. Carey*, 1, *p.* 130;—*J. Grah. Cat. B. pl. p.* 165.) 4 Coromandel. The high Table-land, E. of Mahableshwar. Fl. 6 lines, white, slightly tinged with purple, C. S.; fr. Feb. and March.
3. *Vasica*, Nees. (*l. c.*—*Justicia Adhatoda*, *L.*;—*Roxb. fl. ind.* 1, *p.* 126; *ed. Carey*, 1, *p.* 127;—*J. Grah. Cat. B. pl. p.* 164;—*B. M.* 22, *t.* 861.)
 बकुस *Bakus*. *L.* 5 Java. Ceylon. Both Peninsulas of India. Bengal,



(Serampore.) Silhet, Nepal, &c. Fl. 14 lines, white, tinged with sulphur at the throat, and at the limb with dark purple lines and spots, C. S.; fr. Feb. Wood soft, considered very fit for making charcoal for gunpowder. (Roxb.) Flowers, leaves, and roots bitterish, subaromatic, and considered antispasmodic. (Ainslie.)

4. *corynostachya*, Wall. ♂ Khassya Hills.

GENDARUSSA, Rumph. (Nees. l. c.)

1. *vulgaris*, Nees. (o. c. p. 104;—Wight. icon. 2, t. 468.—*Justicia* Gendarussa, L.; Roxb. fl. ind. 1, p. 128; ed. Carey, 1, p. 129;—B. Reg. 8, t. 635;—J. Grah. Cat. B. pl. p. 164;—Rheed. 9, t. 42;—Rumph. 4, t. 28, 29.) জগন্নাথ Jugan-mudun. গন্ধা রস Gundho-ruso. ♂ Rangoon. Taong-Dong. Madura. Salsette. N. Concan. Bengal, (Serampore.) Khassya Mountains, &c. Fl. 7 lines, pale greenish-white, sparingly stained with purple, C. S.; fr. Feb. and March. Leaves and tender stalks have when rubbed a strong, not unpleasant smell. (Ainslie.)

2. *bifaria*, Nees. (l. c.) ♂ Rocks near Pingee, on the banks of the Irawaddi. In H. C. G.

3. *decussata*, Nees. (l. c.—*Justicia* decussata, Roxb. fl. ind. 1, p. 127; ed. Carey, 1, p. 128.) ♂ Rangoon. Amherst. Prome. Fl. 6½ lines, rosy-white, Feb. and March; fr. April.

4. *ventricosa*, Nees. (l. c.—*Justicia* ventricosa, Wall. pl. as. rar. 1, t. 93;—B. M. 54, t. 2766.) ♂ Khassya Mountains. Amherst. Fl. 9 lines, greenish-white, the limb inside streaked with purple, Dec. Jan. and Feb.; fr. March.

5. *orixensis*, Nees. (l. c.—*Justicia* orixensis, Kön.;—Roxb. fl. ind. 1, p. 132; ed. Carey, 1, p. 133.—*J. tranquebariensis*, Roxb. fl. ind. 1, p. 130; ed. Carey, 1, p. 131, excl. syn. L.; not Röm. and Sch. which is the real *J. tranquebariensis*, L.) ♀ Coromandel. Orissa. Fl. small, pale yellowish-red, and fr. Feb. and March.

6. *Neesiana*, Nees. (o. c. p. 105.—*Justicia* Neesiana, Wall.) ♂ Khassya Mountains. Fl. small, pale greenish-rose, C. S.

7. *quadrifaria*, Nees. (l. c.) ♂ Khassya Mountains. Fl. 4 lines, streaked with white and purple, C. S.; fr. Feb.

8. *micrantha*, Wall. MSS. ♀ Burma. In H. C. G. fl. C. S.

9. *furcata*, Nees. (l. c.—*Justicia* furcata, Jacq. hort. schönbr. 1, t. 3.—*J. peruviana*, L.;—Cav. icon. 1, p. 17, No. 26, t. 28;—B. M. 12, t. 430;—Roxb. H. B. p. 4.) ♂ Peru. Fl. 14 lines, pale purple violet, the lower lip at the middle reticulated with white veins, C. S.; fr. 0. Has been cultivated in H. C. G. since 1805.

10. *vasculosa*, Nees. ♂ Khassya Hills.

11. *ptychostoma*, Wall. ♂ Penang.

ERANTHEMUM, R. Br. (Nees. o. c. p. 106.)

1. *nervosum*, R. Br. (Nees. l. c.—*E. pulchellum*, Andr.; B. Repos. t. 88;—Roxb. fl. ind. 1, p. 111; ed. Carey, 1, p. 111;—J. Grah. Cat. B. pl. p. 163;—*J. pulchella*, Ker. recens. pl. repos. p. 41;—Roxb.

Corom. 2, *t.* 177.—*J. nervosa*, Vahl.;—*B. M.* 33, *t.* 1358.—*Ruellia varians*, Cels. *t.* 46.) काल जॉन्टी *Kalo-jhantee*. L. 5 Common throughout the hilly parts of the Concan. Malabar Hill. Bombay. Mahableshwur. Silhet. Hurdwar. Nepal. Fl. 16 lines, indigo-coloured, with a whitish-yellow tube, Feb.

β. *floribus pallido-coeruleis*. Fl. pale-blue.

2. *strictum*, Colebr. (*Nees. l. c.*;—*Roxb. fl. ind. ed. Carey*, 1, *p.* 114;—*B. Reg.* 10, *t.* 867;—*B. M.* 58, *t.* 3068.) 5 Khassya Mountains. Fl. 20 lines, above indigo-coloured, beneath pale blue, at the tube white-yellowish-blue, Jan. Feb. and March.

3. *suffrutescens*, Roxb. (*fl. ind.* 1, *p.* 111; *ed. Carey*, 1, *p.* 112;—*Nees. o. c. p.* 107.) 5 Andaman Islands. Fl. pale blue. In H. C. G. fl. March. (*Roxb.*)

4. *crenulatum*, Wall. (*Nees. l. c.*;—*B. Reg.* 11, *t.* 879.—*E. forcadum*, Lindl.;—*B. Reg.* 18, *t.* 1494?) 5 Khassya Mountains, Penang. Fl. 14 lines, pale lilac, C. S.

5. *racemosum*, Roxb. (*fl. ind.* 1, *p.* 113; *ed. Carey*, 1, *p.* 113;—*Nees. l. c.*) 5 Moluccas. Fl. largish, pale pink, or white, tinged with red. In H. C. G. fl. Nov. (*Roxb.*)

6. *palatiferum*, Nees. (*o. c. p.* 108.—*Justicia palatifera*, Wall. *pl. as. rar.* 1, *t.* 92.) 5 Khassya Mountains. Fl. 2 inches, pale rose-coloured, with a yellowish dark purple-stained palate, end of R. S. and beginning of C. S.; fr. C. S.

? 7. *diantherum*, Roxb. (*fl. ind.* 1, *p.* 112; *ed. Carey*, 1, *p.* 112;—*Nees. l. c.*) 5 Moluccas. Fl. small, white, with a tinge of red, and some minute red spots on the base of the middle lobe of the under lip. In H. C. G. fl. Sept. (*Roxb.*)

? 8. *barlerioides*, Roxb. (*fl. ind.* 1, *p.* 113; *ed. Carey*, 1, *p.* 114.) 5 Andaman Islands. Fl. blue. In H. C. G. fl. March. (*Roxb.*)

JUSTICIA, L. (*Nees. l. c.*)

1. *Ecbolium*, L. (*Nees. l. c.*;—*B. M.* 43, *t.* 1847;—*Wight. icon.* 2, *t.* 463, not *Roxb.*) large, greenish-livid. In H. C. G. ?

2. *dentata*, Klein. (*Nees. l. c.*—*J. Ecbolium*, *Roxb. fl. ind.* 1, *p.* 114; *ed. Carey*, 1, *p.* 115; not L.—*J. Grah. Cat. B. pl.* *p.* 164, excl. syn. L., Wall. *Roxb.* and *B. M.*—*Rheed.* 2, *t.* 20.) উদু জাতি *Oodoo-jati*. 5 Fl. 2 inches, livid-verdigris-coloured, with a white tube. Common in most parts of India, and fl. nearly the whole year.

3. *calycotricha*, Lk. (*B. M.* 55, *t.* 2816;—*Spreng. syst. c. p.* *p.* 18.—*J. calytricha*, Hook. *exot. fl. t.* 212.—*J. flavicoma*, Lindl.;—*B. Reg.* 12, *t.* 1027.) 5 Brazil. Fl. 1½ inch, pale yellow, tinged with orange, Feb. and March.

RHINACANTHUS, Nees. (*l. c.*)

1. *communis*, Nees. (*o. c. p.* 109;—*Wight. icon.* 2, *t.* 464.—*Justicia nasuta*, L.;—*Roxb. fl. ind.* 1, *p.* 120; *ed. Carey*, 1, *p.* 121;—*J. Grah. Cat. B. pl.* *p.* 164;—*B. M.* 10, *t.* 325;—*Rheed.* 9, *t.* 69.) জুই পানি *Jooi-*



- ana*. 5 Rocky part of the Rotunda Ghaut, Mahableshwar. Common in gardens. Fl. $1\frac{1}{2}$ inches, pure white, C. and H. S.; fr. 0.
2. *calcaratus*, Nees. (*I. c.*—*Justicia calcarata*, Wall. *pl. as. rar.* 2, t. 113.) 5 Khasiya Mountains. Fl. 20 lines, greenish-white, with a tinge of sulphur, March; fr. 0.
3. *albus*, Wall. (*Justicia alba*, Roxb. *fl. ind.*; *ed. Carey*, 1, p. 117.) 5 Andaman Islands. Fl. large, pure white. In H. C. G. fl. H. S. (Roxb.)

* *Crossandra oppositifolia*, Wight. 5 Courtallum.—*Endopogon Amomum*, Nees. Peninsula of India?—*E. consanguineus*, Nees. Courtallum.—*Loxanthus Gomezii*, Nees. 5 Khasiya Mountains.—*Phlogacanthus tubiflorus*, Nees. 5 Goalpara.—*Cryptophragmium cordifolium*, Nees. 5 Courtallum.—*Rostellaria mollissima*, Nees. 4. Nepal.—*Beloperone oblongata*, Nees. Brazil.—*Adhatoda argyrostachya*, Nees. 5 Prome.—*A. nilgherrensis*, Nees. 5 Neelgherries.—*A. arenaria*, Nees. 5 Negapatam.—*Gendarussa vasculosa*, Nees. 5 Khasiya Mountains.—*G. tranquebariensis*, Nees.; Wight. *icon.* 2, t. 462. 5 Tranquebar. Madras.—*Leptostachya virgata*, Nees. Taong-Dong.—*L. pectoralis*, Nees. (*Justicia pectoralis*, Jacq.; B. Reg. 10, t. 796.) Great Antilles.—*L. nitida*, Nees. (*Justicia nitida*, Jacq.) Small Antilles.—*Gymnostachyum leptostachyum*, Nees. 4. Tavoy.—*Eranthemum macrophyllum*, Wall. 5 Taong-Dong.—*E. purpurascens*, Nees. Monghir.—*E. montanum*, Roxb. (*Justicia montana*, Roxb. *Corom.* 2, t. 176.) 5 Circars.—*E. Wightianum*, Wall. 5 Courtallum.—*E. graciliflorum*, Nees. 4. Penang.—*E. cinnabarinum*, Wall. *pl. as. rar.* 1, t. 21. Martaban.—*E. bicolor*, Schrank. B. M. 35, t. 1423. 5 Luçon.—*E. fecundum*, Lindl.; B. R. 18, t. 1494. 5 Brazil.—*E. spinosum*, R. Br. 5 W. Indies.—*E. variabile*, R. Br. 5 Tropical New Holland.—*Justicia ? coccinea*, Aubl. 5 B. M. 12, t. 432. S. America.—*J. ? quadrifida*, Vahl. 5 Mexico.—*J. ? variegata*, Aubl. 5 Guiana.—*J. ? secunda*, Vahl.; B. M. 46, t. 2060. 5 W. Indies.—*J. ? geniculata*, Sims.; B. M. 51, t. 2487. 5 W. Indies.—*J. ? lucida*, Andr.; B. M. 26, t. 1014. 5 W. Indies.—*J. ? salviflora*, Humb. 5 Mexico.—*J. ? carthaginensis*, Jacq.; B. Reg. 10, t. 797. 5 Carthage.—*J. ? nemorosa*, Swz. 4. W. Indies.—*J. ? eustachiana*, Jacq.; B. M. 46, t. 2078. 5 St. Eustace.—*J. ? carnea*, Lindl.; B. Reg. 17, t. 1397. 5 Rio Janeiro.

f. Diclipterea, Nees.

(In Wall. *pl. as. rar.* 3, p. 96.)

RUNGIA, Nees. (*o. c. p.* 109.)

1. *parviflora*, Nees. (*o. c. p.* 110.—*Justicia parviflora*, Retz.—*J. pectinata*, Roxb. *Corom.* 2, t. 153; *fl. ind.* 1, p. 133; *ed. Carey*, 1, p. 134; —*J. Grah. Cat. B. pl. p.* 165.—*Dicliptera coerulea*, Bl.) 4. Both Peninsulas of India. Bengal, (Serampore.) Monghir. Khasiya Mountains. Nepal. Fl. $1\frac{1}{2}$ lines, white and blue; fr. C. S.

2. *repens*, Nees. (*l. c.*—*Wight. icon.* 2, *t.* 465.—*Justicia repens*, *L.*;—*Roxb. Corom.* 2, *t.* 152; *fl. ind.* 1, *p.* 132; *ed. Carey*, 1, *p.* 133;—*J. Grah. Cat. B. pl. p.* 165.—*Dicliptera retusa*, *Juss.*—*D. repens*, *Röm. and Sch.*—*R. Br. pr.*—*Burm. zeyl. t.* 3, *f.* 2.) 4 Ceylon. Peninsula of India. Rajmahl. Monghir, &c. Fl. small, pale rose-coloured, R. and C. S.; fr. C. S.
- DICLIPTERA, *Juss.* (*Nees. o. c. p.* 111.)

1. *bupleuroides*, Nees. (*l. c.*—*Justicia chinensis*, *a. Roxb. fl. ind.* 1, *p.* 124; *ed. Carey*, 1, *p.* 125, excl. syn. *L. Vahl.* and *Burm.*) 4. Coromandel. Silhet. Assam. Nepal. Fl. small, pale rose-coloured, R. and C. S.; fr. C. S.
2. *Roxburghiana*, Nees. (*l. c.*—*Justicia chinensis*, *Roxb. l. c.*) 4. China, Fl. 6 lines, pale rose-coloured, stained with red, R. and C. S.; fr. C. S.
- PERISTROPHE, Nees. (*o. c. p.* 112.)

1. *tinctoria*, Nees. (*o. c. p.* 113.—*Justicia tinctoria*, *Roxb. fl. ind.* 1, *p.* 123; *ed. Carey*, 1, *p.* 124;—*J. Roxburghiana*, *Röm. and Sch.*—*J. baphica*, *Spreng.*;—*Rumph. 6, t.* 22, *f.* 1.) বেত রঙ্গ *Bet-rung*. 5 Bengal, (Calcutta, Serampore.) Taong-Dong. Fl. 16 lines, deep rose-coloured, with a white tube, and a purple throat, R. and C. S.; fr. C. S.
2. *speciosa*, Nees. (*l. c.*—*Justicia speciosa*, *Roxb. fl. ind.* 1, *p.* 122; *ed. Carey*, 1, *p.* 123;—*B. M.* 54, *t.* 2722.) 5 Interior of Bengal. Nepal. Fl. 15 lines, crimson, with the upper lip at the base dark purple-spotted, the end of C. S.; fr. O.
3. *bicalyculata*, Nees. (*l. c.*—*Justicia bicalyculata*, *Vahl.*;—*Roxb. fl. ind.* 1, *p.* 126; *ed. Carey*, 1, *p.* 127;—*J. Grah. Cat. B. pl. p.* 164;—*Blum.*—*J. ligulata*, *Lam. ill. t.* 12, *f.* 2;—*Cavan. ic.* 1, *p.* 52, *t.* 71.—*J. malabarica*, *Ait.*—*Dianthera bicalyculata*, *Retz.*) বাসা ভাগা *Nasa-bhaga*. 6 Java. Both Peninsulas of India. Bengal, (Serampore.) Hindoosthan. Fl. 6 lines, pale rose-coloured and white, C. S.; fr. C. S. and Feb. and March. The plants growing about Serampore have their leaves strigulose, and not glabrous as those described by Nees.
- β. albiflora*. Fl. white.

4. *lanceolaria*, Nees. (*o. c. p.* 114.—*Justicia lanceolaria*, *Roxb. fl. ind.* 1, *p.* 121; *ed. Carey*, 1, *p.* 122.) 5 Khassya Mountains. Fl. 2 inches, rose-coloured, with the upper lip towards the base cream-coloured and dark purple dotted, Dec. and Jan.
5. *pulchella*, (*Justicia pulchella*, *Carey MSS.*) 5 Native place uncertain. The plant was introduced into the garden here by Mrs. Middleton, in 1819. Fl. 8 lines, without pale rose-coloured, within pale purple, the base whitish and dark purple-dotted, Dec. Jan. and Feb.; fr. Feb. and March.

HYPOESTES, *R. Br.* (*Nees. o. c. p.* 114.)

1. *purpurea*, *R. Br.* (*Nees. l. c.*—*Justicia purpurea*, *Vahl.* not *L.*) 5 China. Fl. 11 lines, purple, with a white tube, C. S.; fr. Feb.



RHAPHIDOSPORA, Nees. (o. c. p. 115.)

1. *glabra*, Nees. (l. c.) 5 Coromandel. Fl. 4 lines, white, tinged with greenish-yellow and rose, and fr. C. S.

a. *Königiana*, (*Justicia glabra*, Kön.;—*Roxb. fl. ind.* 1, p. 130; *ed. Carey*, 1, p. 132.) Panicles somewhat glabrous.

β. *Careyana*. (*Justicia Careyana*, *Roxb. H. B.* p. 4.) Panicles more rigid, thickly covered with glands.

- * *Blechnum luzonium*, Nees. 2 Luçon.—*B. Brownei*, Juss. 2, W. Indies, —*B. laxiflorum*, Juss. 2, Jamaica.—*B. angustifolium*, R. Br. 2, Jamaica.—*Dicliptera cuneata*, Nees, 5 Travancore. Courtallum.—*D. Burmanni*, Nees.; *Burm. ind. t.* 4, f. 1. 5 Peninsulas of India.—*Peristrophe montana*, Nees. 5 Courtallum.—*P. fragilis*, Nees. Tavoy.—*P. acuminata*, Nees. Tavoy. Khassya Mountains.—*P. pubigera*, Nees. 3 Bhudrinath, Kamroop.—*Hypoestes Wallichii*, Nees. Nepal.—*H. floribunda*, R. Br. 2, Tropical New Holland.—*H. verticillaris*, R. Br. 5 C. G. H. g. *Andrographis*, Nees.

(*In Wall. pl. as. rar.* 3, p. 77.)

ANDROGRAPHIS, Wall. (Nees. o. c. p. 116.)

1. *paniculata*, Wall. (Nees. o. c.—*Justicia paniculata*, *Burm.*;—*Roxb. fl. ind.* 1, p. 117; *ed. Carey*, 1, p. 119;—*J. Grah. Cat. B. pl.* p. 164;—*Rheed.* 9, t. 56.) কাল মেঘ *Kalo-megh*. মহা তিতা *Maha-tita*. ☉ Java. Peninsula of India. Ceylon. Bengal, (Serampore,) &c. Fl. 6 lines, white, upper lip with each of the two side lobes marked with a dark purple streak and a couple of dark purple dots; its middle lobe at base having a large purple spot on the inside, R. and C. S.; fr. C. S. and Feb. Plant very bitter, and in the Peninsula of India much used in medicine. It forms the basis of the French *drogue amère*.

2. *echioides*, Nees. (o. c. p. 117;—*Wight. icon.* 2, t. 467.) ☉ Ceylon. Both Peninsulas of India. Himalayas.

a. *Lamarckiana*, (*Justicia ciliaris*, *Lam.* excl. syn. L.) Racemes nearly simple.

β. *Linnaëana*, (*Justicia echioides*, *L. fl. zeyl.* p. 21;—*Roxb. fl. ind.* 1, p. 118; *ed. Carey*, 1, p. 119;—*J. Grah. Cat. B. pl.* p. 164;—*Vahl.*;—*Lam.*;—*Röm. and Sch.*;—*Spreng.*;—*Rheed.* 9, t. 46.) Fl. lines, white, with the upper lip, especially its middle lobe, dark purple-dotted, and fr. nearly throughout the year.

- * *Erianthera serpyllifolia*, Nees. 5 Mysore.—*E. lobelioides*, Nees. 5 Neelgherries.—*Haplanthus tener*, Nees, 2, Tavoy. Taong-Dong.

? STAUROGYNE, Wall. (*pl. as. rar.* 2, t. 186.)

1. *argentea*, Wall. (l. c.) 2, Silhet. Fl. 1 inch, purple, with the tube yellowish pale violet, and the two lower lobes of the limb marked with a whitish disk. Has been introduced into H. C. G. Fl. ?



ORDER CCV.—PINGUICULACEÆ, (LENTIBULACEÆ,) Lindl. Nat. Syst. p. 286.

Watery or marshy herbs, referred to two genera. Of these, Spreng. syst. enumerates 24 for N. Holland, 15 for S. America, Mexico, and the W. Indies; 15 for N. America; 11 for Europe; and 2 for Egypt. In S. Africa have been found 6 species; (*Harvey*.) and in the E. Indies, according to Spreng. syst. and Wall. Cat., 22 of *Utricularia*. A few species of these have been discovered in Nepal; all the rest are tropical. Properties of no importance.

UTRICULARIA, L. (*Spreng. syst.* 1, p. 26. No. 86;—*R. Br. pr.* p. 430.)

1. *reticulata*, Sm. (*Spreng. syst.* 1, p. 49.—*U. coerulea*, *Hb. Madr.* not L.)

नील खोजि *Neel-jhanjee*. ☉ ☾ Peninsula of India. Bengal, (Serampore.) Fl. small, pale blue, and fr. R. S.

2. *nivea*, Vahl. (*Spreng. syst.* 1, p. 49;—*Roxb. fl. ind. ed. Carey*, 1, p. 144.) सदा खोजि *Sada-jhanjee*. ☉ ☾ Bengal, (Serampore.) Ceylon, &c. Fl. very small, white, with a yellowish palate, and fr. R. and C. S.

β. *coerulea*. Fl. pale blue. (Serampore.)

3. *stellaris*, L. (*Spreng. syst.* 1, p. 52;—*Roxb. Corom.* 2, t. 180; *fl. ind.* 1, p. 143; *ed. Carey*, 1, p. 143;—*J. Grah. Cat. B. pl.* p. 185.) बुड़ खोजि *Buro-jhanjee*. ☉ Lower Egypt. Coromandel. Bombay. Bengal, (Serampore.) Fl. smallish, yellow, and fr. R. S.

4. *fasciculata*, *Roxb. fl. ind.* 1, p. 143; *ed. Carey*, 1, p. 143;—*Spreng. syst.* 1, p. 52.) ☉ Coromandel. Tavoy. Bengal, (Serampore.) Silhet. Kemaon. Fl. smallish, yellow, C. S.; fr. March.

5. *diantha*, Schult. (*U. Roxburghii*, *Spreng. syst.* 1, p. 52.—*U. biflora*, *Roxb. fl. ind.* 1, p. 143; *ed. Carey*, 1, p. 144.) ছোট খোজি *Chota-jhanjee*. ☉ Bengal, (Serampore.) Silhet. Nepal. Fl. small, yellow, with an orange-streaked scale, and fr. R. S.

ORDER CCVI.—GESNERACEÆ, Lindl. Nat. Syst. p. 286.

Herbs or undershrubs, by Lindl., (excluding *Sinningia* and *Picria*.) referred to 19 genera. They are all natives of the tropical parts of S. America and the W. Indies.

“Generally beautiful herbaceous plants, bearing flowers, the prevailing colour of which is bright red, and having tuberous roots. The succulent fruits are mucilaginous, sweetish and eatable. A dye is obtained from the calyxes and fruit of some of them for staining cotton, straw work, and domestic utensils.” (*Lindl.*)



1. *verticillata*, Hook. 2. (B. M. 54, t. 2776.) Brazil. H. S. 1840.

TREVIRANIA.

1. *coccinea*, Willd. (Cyrilla pulchella, L'Her. B. M. 11, t. 374.) Jamaica. C. S. 1840.

GLOXINIA, L'Herit. (G. Don's Mill. dict. 4, p. 648.)

1. *caulescens*, Lindl. (B. Reg. 14, t. 1127;—G. Don. o. c. p. 649.) 2. Pernambuco. Fl. large, dark bluish, R. S.; fr. 0.

2. *speciosa*, Ker. (B. Reg. 3, t. 213;—G. Don. l. c.;—B. M. 44, t. 1937;—B. Cab. 1, t. 28;—J. Grah. Cat. B. pl. p. 146.) 2. Brazil. Fl. 2 inches, pale blue-indigo-coloured with a white purple-dotted throat, May; fr. 0.

* *Gesnera Douglassii*, Lindl.; B. Reg. 13, t. 1110;—B. M. 54, t. 2776, and 64, t. 3612. 2. Woods near Rio Janeiro.—*G. aggregata*, Ker.; B. M. 4, t. 329;—B. M. 54, t. 2725. 2. Woods near Rio Janeiro.—*G. Deppeana*, Cham. and Schlecht. 2. Woods of Jalapa. Mexico.—*G. macrostachya*, Lindl.; B. Reg. 14, t. 1202. 2. Rio Janeiro.—*G. tubiflora*, Cav. 2. Panama.—*G. Suttonii*, Booth.; B. Reg. t. 1637. 2. Rio Janeiro.—*G. Sceptum*, Mart.; B. M. 64, t. 3576. 2. Brazil.—*G. Lindleyi*, Hook.; B. M. 64, t. 3602. 2. Brazil.—*G. fascialis*, Lindl.; B. Reg. 21, t. 1785. 2. Brazil.—*G. tuberosa*, Mart.; B. M. 65, t. 3664.—*G. elongata*, Humb.; B. M. 66, t. 3725. 2. Tropical America.—*Gloxinia macrophylla*, Nees. 2. Brazil.—*G. hirsuta*, Lindl.;—B. R. 12, t. 1004. 2. Brazil.—*G. maculata*, L'Herit.;—B. M. 29, t. 1191. 2. Carthagenæ.—*G. Schottii*, Mikan. (Sinningia Helleri, Nees.; B. Reg. 12, t. 997.) 2. Rio Janeiro.—*G. guttata*, Mart. (Sinningia guttata, Lindl.; B. Reg. 13, t. 1112.) 2. Rio Janeiro.—*G. velutina*, Mart. 2. Brazil.—*G. villosa*, Mart. (Sinningia villosa, Lindl.; B. Reg. 14, t. 1134.) 2. Brazil.—*Rytidophyllum tomentosum*, Mart. (Gesnera tomentosa, L.; B. M. 26, t. 1023.) 5 Banks of rivers in Tropical America.—*R. auriculatum*, Hook.; B. M. 64, t. 3562. 5 W. Indies.—*Conradia humilis*, Mart. 5 W. Indies.—*Besleria umbrosa*, Mart. 5 Humid places in Brazil.—*B. lutea*, L. 5 Humid places in Jamaica.—*B. luteo-virens*, Nees. 5 Humid woods in Brazil.—*Hypocyrta aggregata*, Mart. 5 Woods of Brazil, along rivers.—*Columnnea scandens*, L.—B. Reg. 10, t. 805. 5 Humid places of Guiana and W. Indies.—*Klugia azurea*, Schlecht. 2. Mexico.—*Tapina barbata*, Mart. 2. Marshy places, Brazil.—*Nemonanthus Chloronema*, Mart. 5 Rio Janeiro.—*N. Jonema*, Schrad. 5 Brazil.—*Alloplectus cristatus*, Mart. 5 Humid woods of Guiana and Martinique.—*A. coccineus*, Mart. 5 Guiana.—*Episcia decumbens*, Mart. 2. Marshy places of Brazil.—*E. melittifolia*, Mart. 2. Guiana.



ORDER CCVII.—OROBANCHACEÆ, Lindl. Nat. Syst. p. 287.

Leafless, parasitical herbs, by Lindl. referred to 9 genera, of these, Spreng. syst. enumerates 23 species from Europe; 5 from N. America; 3 from N. Africa; 3 from Caucasus; 2 from the Levant; 1 from Siberia, and 1 from Arabia. In S. Africa has been found 1 species, (*Harvey*.) To the E. Indies are assigned 3 species of *Orobanche*; (Punjee, Oude, Nepal, China?): 1 of *Phelipæa*? (Herb. Madras.): 3 of *Aginetia*; (Himalayas, Bengal, Courtallum): and 1 of *Lathræa*, (Himalayas.) Properties unimportant.

OROBANCHE, Tournef. (*G. Don's Mill. dict.* 4, p. 628.)

1. *indica*, Buch. (*Roxb. Corom.* 3, t. 292; *fl. ind.* 3, p. 27.—*Philipæa indica*, *G. Don. o. c.* p. 632;—*J. Grah. Cat. B. pl.* p. 146.) ☉ Coromandel. Deccan. Guzerat. Bengal, (Serampore.) Hindoosthan. Oude. Nepal. A parasite growing on Tobacco plants. Fl. middle-sized, blue, Jan.; fr. March.
2. *acaulis*, Roxb. (*fl. ind.* 3, p. 28;—*G. Don. o. c.* p. 630.) ☉, Parasite, found growing on the roots of the China Sugar-cane in H. C. G. Fl. large, lively purple, Sept.; fr. C. S. (*Roxb.*)

ÆGINETIA, Roxb. (*G. Don's Mill. dict.* 4, p. 635.)

1. *indica*, Roxb. (*fl. ind.* 3, p. 30; *Corom.* 3, t. 92;—*J. Grah. Cat. B. pl.* p. 146;—*G. Don. l. c.*—*Orobanche Æginetia*, *L.*;—*Rheed.* 11, t. 47.) ☉ Circars. Kandalla. The Concans. Salsette. Silhet. Deyradhoon. Tavoy. Taong-Dong. Fl. large, purple. Has been introduced into H. C. G.?
2. *pedunculata*, Wall. (*pl. as. rar.* 3, t. 219.—*Orobanche pedunculata*, *Roxb. fl. ind.* 3, p. 29;—*G. Don. o. c.* p. 631.) ☉. Parasite, growing upon the roots of the Kuskus grass. (*Andropogon muricatus*, Retz.) Fl. large, deep purple, with the tube brownish and inside yellow, R. S.; fr. Oct. Bengal, (Serampore.)

ORDER CCVIII.—SCROPHULARIACEÆ, Lindl. Nat. Syst. p. 288.

THE FIGWORT TRIBE.

Herbs, undershrubs, or sometimes shrubs, by Bentham referred to 133 genera. Of these, Spreng. syst. enumerates about 250 for Europe; 230 for S. America, Mexico, and the W. Indies; 75 for N. America; 52 for Siberia; 46 for New Holland and the South Sea Islands; 32 for N. Africa; 30 for the Levant; 30 for Caucasus, Tauria, Dahuria, and Iberia; 7 for Madeira, and the Canaries; 5 for the Mascarenhas Islands; 4 for China; 2 for Japan; 2 for Persia; 1 for Arabia; 1 for Madagascar; 1 for Guinea; and 1 for Melville Island. *Harvey* assigns to S. Africa 250 species.—Ben-



Tham's E. Indian Scrophulariæ comprehend 166 species; viz. 1 of *Verbascum*; 1 of *Celsia*; 8 of *Scrophularia*; 2 of *Linaria*; 1 of *Antirrhinum*; 5 of *Pterostigma*; 5 of *Lindenbergia*; 12 of *Stemodia*; 7 of *Limnophila*; 8 of *Mazus*; 3 of *Mimulus*; 5 of *Herpestis*; 3 of *Dopatrium*; 2 of *Peplidium*; 13 of *Bonnaya*; 19 of *Vandellia*; 6 of *Torenia*; 2 of *Artanema*; 8 of *Striga*; 3 of *Buchnera*; 1 of *Sutera*; 7 of *Buddleia*; 1 of *Hemiphragma*; 1 of *Ourisia*; 1 of *Scoparia*; 1 of *Picrorrhiza*; 12 of *Veronica*; 1 of *Calorrhados*; 1 of *Wulfenia*; 2 of *Gymnandra*; 4 of *Gerardia*; 1 of *Glossostylis*; 4 of *Centranthera*; 1 of *Euphrasia*; 1 of *Siphonostegia*; and 18 of *Pedicularis*. "They are common in the plains, and occur in considerable numbers in the mountains. But the tribes which prevail in the latter are those of which the genera are chiefly found in temperate countries; though of these a few species occur also in the plains, but it is only during the cold weather; while the tropical genera which occur in the mountains spring up entirely in the rainy season." (Royle)—"Scrophulariaceæ are generally acrid, bitterish, and suspected plants." (Lindl.) *Digitalis purpurea*, L. (*Foxglove*) is now almost the only plant of the order, which is usefully employed in medicine. Its use requires, however, great caution.

A. VERBASCEÆ, Bartl.

VERBASCUM, Tournef. (*G. Don's Mill. dict.* 4, p. 488.) *Mullein*.

1. *Thapsus*, L. (*G. Don. l. c.*;—*E. B.* 8, t. 549;—*Roxb. H. B.* p. 16.) ♂ Europe. Tauria. Siberia. Caucasus. Gossain Than. Fl. largish, deep yellow, C. S.; fr. H. S.
2. *indicum*, Wall. (*Roxb. fl. ind.*; ed. Carey, 2, p. 236;—*G. Don. o. c.* p. 489.—*V. Thapsus*, *Roxb. fl. ind.* 1, p. 560; not L.) ♂ Gossainthan. Fl. like those of No. 1, C. S.
3. *macranthum*, Hoffm. and Lk. (*G. Don. o. c.* p. 490.) ♂ Spain. Fl. large, yellow, C. S.
4. *australe*, Schrad. (*G. Don. l. c.*) ♂ S. Europe. Fl. largish, yellow, sweet-scented, C. S.
5. *pulverulentum*, Vill. (*G. Don. o. c.* p. 493.) ♂ Dauphiny. Fl. middle-sized, yellow, sweet-scented, C. S.

CELSIA, L. (*G. Don's Mill. dict.* 4, p. 498.)

1. *coromandeliana*, Vahl. (*G. Don. o. c.* p. 499;—*Roxb. fl. ind.* 3, p. 100.—*C. viscosa*, Roth.) ককসিম Koksīm. ☉ Fl. 4½ lines, bright sulphur-coloured, C. S.; fr. H. S.
2. *cretica*, L. (*G. Don. l. c.*;—*B. M.* 24, t. 964;—*Roxb. H. B.* p. 45.) ☉ ♂ Candia. N. Africa. Fl. largish, deep yellow, Feb. and March.

CALCEOLARIA, L. (*G. Don's Mill. dict.* 4, p. 602.)

1. *pinnata*, L. (*G. Don. l. c.*;—*Vahl. enum. excl. syn.*;—*B. M.* 2, t. 41;—*Roxb. H. B.* p. 4.) ☉ Humid places of Peru. Fl. smallish, pale yellowish, Feb. and March.

* *Verbascum crassifolium*, Hoffm. and Lk. ♂ Portugal.—*V. cuspidatum*, Schrad. ♂ Vienna.—*V. rotundifolium*, Ten. ♂ Sicily.—*V. Blattaria*,



SCROPHULARIACEÆ.

CSL

L. ; E. B. 6, t. 393. ♂ S. Europe.—*Celsia Areturus*, L. ; B. M. 45, t. 1962. ♂ Candia.—*C. betonicaefolia*, Desf. ♂ N. Africa.—*Isanthera permollis*, Nees. Peninsula of India?—*Calceolaria ovata*, Sm. ⊙ Peru.—*Scrophularia vernalis*, L. ; E. B. 8, t. 567. ⊙ Europe.

B. HEMIMERIDÆ.

Hemimeridæ, Benth.

- * *Angelonia salicariæfolia*, Humb. ; B. M. 51, t. 2478. ⊙ S. America.—*A. Gardneri*, Hook. ; B. M. 66, t. 3754. ♂ Pernambuco.—*Ehlyacantha campestris*, Mart. ♀ Fields of Brazil.—*Nemesia bicornis*, Pers. ⊙ C. G. H.

C. ANTIRRHINEÆ, Chav.

(G. Don's Mill. dict. 4, p. 514.)

LINARIA, Tournef. (G. Don. o. c. p. 517.) *Toadflax*.

1. *ramosissima*, Wall. (*pl. as. rar.* 2, t. 153 ;—G. Don. o. c. p. 521.—L. Roylei, Chav.) ♂ Burma. Patna Delhi. Fl. 4 lines, pale sulphur, R. S. ; fr. C. S.
2. *triphylla*, Mill. (G. Don. o. c. p. 522.—L. glabrata, H. B. and Kth.—L. neglecta, Clarke and Guss.—L. tricolor, Hortul.—*Antirrhinum triphyllum*, L. ;—Gärtner. fr. 1, p. 249, t. 53, f. 7, H. ;—B. M. 9, t. 324 ;—Roxb. H. B. p. 45.) ⊙ S. Europe. Fl. large, yellow, purple, and white, Feb. and March ; fr. April.
3. *vulgaris*, Mill. (G. Don. o. c. p. 524.—L. Gebleri, Besser.—L. ciliata, Lang.—*Antirrhinum commune*, Lam.—A. Linaria, L. ;—Gärtner. fr. 1, p. 248, t. 53, f. 7 ;—E. B. 10, t. 658 ;—Roxb. H. B. p. 45.) ♀ Europe. Siberia. Fl. largish, white sulphur orange-coloured, Feb. and March ; fr. 0.
4. *spartea*, Hoffm. and Lk. (G. Don. o. c. p. 526.—L. juncea, Desf. ; not Ait.—L. præcox, Hoffm. and Lk. excl. syn. L.—*Antirrhinum junceum*, Lam. ; not L.—A. sparteum, L. ; B. M. 6, t. 200.) ⊙ Spain. Portugal. S. France. Canaries. Morocco. Fl. large, deep yellow orange-coloured, Feb. and March ; fr. April.
5. *juncea*, Ait. (G. Don. l. c. ; not Desf. ; nor Reichb.—L. meonantha, Hoffm. and Lk.—*Antirrhinum virgulatum*, Brot.—A. junceum, L. ; not Lam. ;—Roxb. H. B. p. 45.) ⊙ Spain. Portugal. Fl. much smaller than those of No. 4, yellow, with the palate orange, Feb. and March ; fr. April.
6. *bipartita*, Willd. (G. Don. o. c. ;—Sw. fl. gard. t. 30.—L. speciosa, Jacq. fil. ecl. 1, t. 95 ; not Tenore.—L. coerulea, Hortul.—*Antirrhinum speciosum*, Donn. hort. cant. ;—Roxb. H. B. p. 45.—A. orchidiflorum, Hortul.—A. bipartitum, Vent. hort. cels. t. 82.) ⊙ Morocco. Tangier. Fl. small, blue, Feb. and March ; fr. April.
7. *purpurea*, Mill. (G. Don. o. c. p. 527.—L. purpurascens, Bernh.—*Antirrhinum purpureum*, L. ;—Gärtner. fr. 1, p. 249, t. 53, fig. 7, K. ;—B. M. 3, t. 99 ;—Roxb. H. B. p. 45 ;—Sibth. and Sm. fl. gr. t. 589.) ♂



4. S. Europe. Fl. largish, purple, with a dark purple palate, Feb. and March; fr. 0.

ANTIRRHINUM, Tournef. (*G. Don's Mill. dict.* 4, p. 514.) *Snagdragon*.

1. *sempervirens*, Lapeyr. (*G. Don. o. c. p.* 515.—*A. molle*, *St. Am.*; not L.) 5 France. Portugal. Fl. largish, white, having the upper lip and tube marked with purple, and the palate yellowish, Feb.; fr. 0.

2. *majus*, L. (*sp. pl.* 859. β .—*Gärtn. fr.* 1, p. 249, t. 53, fig. 7, G.;—*E. B.* 2, t. 129;—*G. Don. l. c.*—*A. grandiflorum*, *Stok.*—*A. murale*, *Bauh.*—*Oreontium majus*, *Pers.*) 4. South and Middle Europe. Barbary. Persia. Fl. 1-2 inches, purple, red, scarlet, white, or variegated with these colours, April; fr. 0.

3. *siculum*, Ueria. (*G. Don. o. c. p.* 516.—*A. angustifolium*, *Poir.*) 4. Sicily. Calabria. Fl. scarcely an inch, white or yellowish, rarely purple, March; fr. 0.

4. *Oreontium*, L. (*G. Don. l. c.*;—*Gärtn. fr.* 1, p. 249, t. 53, f. 7;—*Lam. ill.* t. 531, f. 2;—*E. B.* 17, t. 1155;—*Roxb. H. B.* p. 45;—*A. humile*, *Salisb.*—*Oreontium arvense*, *Pers.*) 5 Europe. Barbary. Madeira. Scio. Fl. small, rose-coloured or white, striped with purple, and fr. April.

β . *indicum*, Chav. (*Antirrhinum indicum*, *Royle.*—*A. gibbosum*, *Wall.*) 5 Hindoosthan. Fl. smaller, yellowish, the tube purple, dotted.

γ . *grandiflorum*, Chav. (*Antirrhinum calycinum*, *Lam.*—*A. Oreontium*. β . *album*, *Roth.*—*A. jamaicense*, *Fisch. and Hortul.*—*A. elegans*, *Ten.*) 5 Portugal. Fl. 8 lines, whitish, streaked with purple.

MAUBANDYA, Ort. (*G. Don's Mill. dict.* 4, p. 532.)

1. *Barclayana*, Lindl. (*B. Reg.* 13, t. 1108;—*G. Don. l. c.*;—*Chav. antirrh.* p. 77.) 5 Mexico. Fl. 3 inches, dark purple, with a greenish tube, C. S.; fr. H. S.

2. *semperflorens*, Ort. (*G. Don. o. c. p.* 533;—*Jacq. hort. schönbr.* 3, t. 288;—*B. M.* 13, t. 460;—*J. Grah. Cat. B. pl.* p. 142.—*M. scandens*, *Pers.*—*Usteria scandens*, *Cav.*;—*B. Repos.* 1, t. 63.) 5 Mexico. Fl. 1½ inch, rose-coloured, with the tube and throat white, tinged with rose, and fr. nearly throughout the year.

3. *antirrhiniflora*, Willd. (*G. Don. l. c.*;—*B. M.* 40, t. 1643;—*J. Grah. Cat. B. pl.* p. 142.—*M. personata*, *Sessé*—*Usteria antirrhiniflora*, *Poir.*) 5 Mexico. Fl. 9-10 lines, lilac-violet, with the throat minutely violet-dotted, and marked with four cream sulphur-coloured convexities, and fr. C. and H. S.

LOPHOSPERMUM, D. Don. (*G. Don's Mill. dict.* 4, p. 533.)

1. *erubescens*, D. Don. (*G. Don. l. c.*;—*Swt. flower. gard. n. s. t.* 68.—*L. scandens*, *Hook.*;—*B. M.* 57, t. 3037, 38;—*B. Reg.* 16, t. 1381; not D. Don.) 5 Mexico. Fl. 3 inches, rose-coloured, the lower lobe of the limb marked with a yellow hairy crest, C. S.

* *Linaria tenella*, DC. 5 Spain—*L. villosa*, DC. 4. Spain.—*L. origanifolia*, DC. 4. S. France.—*L. minor*, Desf. (*Antirrhinum minus*, L.;

E. B. 28, t. 2014.) ☉ Europe.—*L. Cymbalaria*, Mill. (*Antirrhinum Cymbalaria*, L.; E. B. 7, t. 502.) ♀ Europe.—*L. spuria*, Mill. (*Antirrhinum spurium*, L.; E. B. 10, t. 691.) ☉ Europe.—*L. Elatine*, Mill. (*Antirrhinum Elatine*, L.; E. B. 10, t. 692.) ☉ Europe. N. Africa.—*L. cirrhosa*, Willd. ☉ S. France.—*L. incana*, Wall. ♀ Nepal.—*L. triornithophora*, Willd. (*Antirrhinum triornithophorum*, L.; B. M. 15, t. 525.) ♀ Portugal.—*L. pedunculata*, Spreng. ☉ Spain.—*L. flava*, Desf. ☉ Barbary.—*L. lusitanica*, Hoffm. and Lk. not Mill. ♀ Portugal.—*L. versicolor*, Mönch. ☉ S. France.—*L. Pelisseriana*, DC. ☉ S. Europe.—*L. tristis*, Mill. (*Antirrhinum triste*, L.; B. M. 3, t. 74.) ♀ Near Gibraltar.—*L. amethystea*, Hoffm. and Lk. ☉ Portugal. Spain.—*Anarrhinum bellidifolium*, Desf. ♂ France. Portugal. Germany, &c.—*A. duriminium*, Brot. ♂ N. Portugal.—*Lophospermum scandens*, D. Don. B. M. 65, t. 3650, not Hook and Lindl. ♂ Mexico.—*L. atrosanguineum*, Zucc. (*Rhodochiton volubilis*, Zucc.; B. Reg. 21, t. 1755.) ♂ Mexico.—? *Gastromeria physalodes*, G. Don. ♂ Mexico.

D. SALPIGLOSSÆ.

(*Salpiglossideæ*, Benth.)

SCHIZANTHUS, Ruiz. and Pav. (*G. Don's Mill. dict.* 4, p. 469.)

1. *pinnatus*, Ruiz. and Pav. (*G. Don. l. c.*;—*Hook. exot. fl.* t. 73;—*B. Reg.* 9, t. 725;—*B. M.* 50, t. 2404.) ☉ Chili. Fl. middle-sized, upper lip rosy-lilac, with the uppermost lobe orange-dotted, lower lip violet, Feb. and March; fr. April.

BROWALLIA, L. (*G. Don's Mill. dict.* 4, p. 477.)

1. *demissa*, L. (*G. Don. o. c. p.* 478;—*B. M.* 28, t. 1136.) ☉ Panama. Fl. middle-sized, indigo-coloured, and fr. C. S. Perhaps not different from No. 2.
2. *elata*, L. (*G. Don. l. c.*;—*B. M.* 1, t. 34.—*Roxb. H. B.* p. 45.) ☉ Peru. Fl. middle-sized,—the tube greenish-white, tinged with dark purple, the limb externally violet, internally beautifully blue, with the upper lip on the inside sulphur-coloured downwards, and fr. C. S.
- β. *albiflora*. Tube of corol greenish-white; limb pure white, with the veins beneath greenish.

FRANCISCEA, Pohl. (*G. Don's Mill. dict.* 4, p. 476.)

1. *uniflora*, Pohl. (*G. Don. o. c. p.* 477.—*F. Hopeana*, *Hook.*;—*B. M.* 55, t. 2829.—*B. Cab. t.* 1822.) ♂ Rio Janeiro. Fl. middle-sized, fragrant, indigo-coloured, with a pale tube, and its mouth on the lower margin yellow, Feb.; fr. 0.

BRUNFELSIA, Plum. (*G. Don's Mill. dict.* 4, p. 476.)

1. *undulata*, Swz. (*G. Don. l. c.*;—*B. Repos. t.* 167;—*B. Reg.* 3, t. 228;—*Roxb. H. B.* p. 45.) 5 Jamaica. Fl. 2½ inches, whitish cream-coloured, sweet-scented, and fr. nearly throughout the year.
2. *americana*, L. (*G. Don. l. c.*;—*B. M.* 11, t. 293.) ♂ W. Indies. Fl. very large, whitish-greenish with a tinge of sulphur. Introduced in 1841.



Schizanthus porrigens, Grah. B. M. 51, t. 2521. ☉ Chili.—*S. retusus*, Hook; B. M. 58, t. 3045. ☉ Chili.—*S. Hookeri*, Gillies; B. M. 58, t. 3070. ☉ Chili.—*S. Grahami*, Hook; B. M. 58, t. 3044. ☉ Chili.—*Salpiglossis sinuata*, Ruiz. and Pav. (*S. atropurpurea*, Grah.; B. M. 55, t. 2811.) ♂ Chili.—*Browallia viscosa*, H. B. and Kth. ☉ New Granada.—*B. grandiflora*, Grah.; B. M. 58, t. 3069. ☉ Peru.—*B. cordata*, G. Don. (*B. grandiflora*, Lindl.; B. Reg. 16, t. 1364, not Grah.) ☉ Peru.—*Franciscea latifolia*, Pohl. ☿ Rio Janeiro.—*F. acuminata*, Pohl. ☿ Rio Janeiro.—*F. ramosissima*, Pohl. ☿ Rio Janeiro.—*Duboisia myoporoides*, R. Br. ☿ Port Jackson, N. Holland.

E. DIGITALEÆ, Benth.

(*Cheloneæ*, D. Don.)

PENTSTEMON, Michx. (*G. Don's Mill. dict.* 4, p. 635.)

1. *campanulatus*, Willd. (*G. Don. o. c. p.* 639;—*B. M.* 44, t. 1878.—*Chelone campanulata*, Cav. *ic.* 1, t. 29.—*C. campanuloides*, Andr.; *B. Repos.* 1, t. 40.) ♀. Mexico. Fl. 1 inch, externally purple, internally below the limb whitish, and streaked with purple on the lower-side, H. S.

2. *roseus*, G. Don. (*l. c.*—*P. angustifolius*, Lindl. *B. Reg.* 13, t. 1122;—not Kth.) ♀. Mexico. Has been introduced into H. C. G.

RUSSELLIA, Jacq. (*G. Don's Mill. dict.* 4, p. 513.)

1. *floribunda*, H. B. and Kth. (*G. Don. o. c. p.* 514.) ☿ Mexico. Fl. middle-sized, scarlet, C. S.
2. *juncea*, Zucc. (*B. Reg.* 21, t. 1773.) ☿ Mexico. Fl. 9 lines, scarlet, R. S.; fr. 0. Seems very nearly allied to *R. equisetiformis*, Cham. and Schlecht.

* *Pentstemon pubescens*, Ait. ♀ Carolina. Georgia.—*P. pulchellus*, Lindl.; B. Reg. 14, t. 1138. ♀. Mexico.—*P. atropurpureus*, G. Don. (*Chelone atropurpurea*, Swt. fl. gard. t. 235.) ♀. Mexico.—*P. gentianoides*, G. Don. (*Chelone gentianoides*, H. B. and Kth.) ♀. Mexico.—*P. Humboldtii*, G. Don. ♀. Mexico.—*P. barbatus*, Nutt. (*Chelone barbata*, Cav.;—*B. Reg.* 2, t. 116.) ♀. Mexico.—*Chelone obliqua*, L.; B. Reg. 2, t. 175. ♀. Southern States of N. America.—*C. latifolia*, Mühl. ♀. Carolina.

F. GRATIOLEÆ, Benth.

LINDENBERGIA, Lk. and Otto. (*Benth. scroph. ind. p.* 21;—*G. Don's Mill. dict.* 4, p. 539.)

1. *ruderalis*, (*L. urticifolia*, Lehm.;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 143.—*Stemodia ruderalis*, Vahl.;—*Roxb. fl. ind.* 3, p. 94.—*Brachycoris parviflora*, Schrad.) इकदी बजसु *Huldee-busunto*. ☉ All over India. Fl. small, bright yellow, and fr. throughout the year.

STEMODIA, L. (*Benth. scroph. ind. p.* 23;—*G. Don's Mill. dict.* 4, p. 539.)

1. *viscosa*, Roxb. (*fl. ind.* 3, p. 94; *Corom.* 2, t. 163;—*G. Don. o. c.*



- p. 540;—*J. Grah. Cat. B. pl. p. 143.*) © Coromandel, Bombay. Fl. small, violet. In H. C. G. fl. and fr. C. S. (*Roxb.*) The plant has a pleasant, aromatic smell. (*Roxb.*)
- LIMNOPHILA, R. Br. (*pr. p. 442*;—*Benth. scroph. ind. p. 25*;—*G. Don's Mill. dict. 4, p. 542.*)
1. *heterophylla*, Benth. (*l. c.*;—*G. Don. o. c. p. 543.*—*Columnnea heterophylla, Roxb. fl. ind. 3, p. 97?*) © Bengal, (Serampore.) Hindoosthan, Nepal. Fl. Feb. and March; fr. H. S. (*Roxb.*)
 2. *gratioloides*, R. Br. (*l. c.*;—*G. Don. l. c.*—*J. Grah. Cat. B. pl. p. 143.*—*Gratiola trifida, Willd.*—*Hottonia indica, L.*—*Hydropityon pedunculatum, Ser.*;—*DC. pr. 1, p. 422.*—*Columnnea balsamica, Roxb. fl. ind. 3, p. 97*;—*Rheed. 9, t. 85.*—*Burm. zeyl. t. 55, f. 1.*) कर्पूर Kurpoor. © Ceylon, Coromandel, Bombay, Bengal, (Serampore,) &c. Tropical N. Holland. Fl. 5 lines, greenish-white, streaked with purple, R. and C. S.; fr. C. S. The plant has a grateful, somewhat terebinthaceous smell, and a warm aromatic taste. (*Roxb.*)
β. myriophylloides, Benth. (*Limnophila myriophylloides, Roth.*—*Rheed. 12, t. 36.*) © Serampore.
 3. *Roxburghii*, G. Don. (*l. c.*;—*J. Grah. Cat. B. pl. p. 143, excl. syn. Rheed.*—*Capraria gratissima, Roxb. fl. ind. 3, p. 92.*) কাল কৰ্পূর Kalo-Kurpoor. © Peninsula of India, Bengal, (Serampore.) Fl. small, purple, R. and C. S.; fr. C. S. The whole plant is delightfully aromatic, and has a sweet pleasant taste. (*Roxb.*)
 4. *racemosa*, Benth. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p. 144.*—*L. hyssopifolia, Roth.*—*Cyrilla aquatica, Roxb. fl. ind. 3, p. 115*;—*Corom. 2, t. 189.*) © Coromandel. The Concans, Belgaum, Bengal, (Serampore.) Fl. smallish, beautifully bluish, R. and C. S.; fr. C. S. The whole plant fragrant.
 5. *albiflora*. © Bengal, (Serampore.) Very nearly allied to No. 3. Fl. white, small, racemose, Sept. and Oct.; fr. C. S. The whole plant delightfully aromatic.
- HERPESTIS, Gärtn. (*Benth. scroph. ind. p. 29*;—*G. Don's Mill. dict. 4, p. 544.*)
1. *Monniera*, H. B. and Kth. (*G. Don. o. c. p. 545*;—*J. Grah. Cat. B. pl. p. 144.*—*H. Brownei, Nutt.*; *Lk. excl. syn.*—*H. procumbens, Spreng.*—*H. cuneifolia, Pursh.*—*Bramia indica, Lam.*—*Calytriplex obovata, Ruiz. and Pav.*—*Monniera cuneifolia, Michx.*—*M. Brownei, Pers.*—*Gratiola portulacacea, Weinm.*—*B. M. 52, t. 2554.*—*G. Monniera, L.*;—*Roxb. fl. ind. 1, p. 141*; *ed. Carey, 1, p. 141*; *Corom. 2, t. 178*;—*Rheed. 10, t. 14.*) आदा बर्नि Ada-burni. १. Fl. smallish, blue, R. and C. S.; fr. C. S. The natives employ the expressed juice, mixed with Petroleum, to rub on parts affected with rheumatic pains. (*Roxb.*)
 2. *sessiliflora*. © Serampore. Fl. small, purplish, R. S.



CURANGA, Juss. (in *Vahl's enum.* 1, p. 100.—*Juss. Ann. Mus.* 9, p. 319.—*Herpestis amara*, Benth.—*Serratula*, Rumph. 5, t. 170, f. 11.)

1. *amara*, Vahl. ☉ Moluccas. Fl. white, small, or purple dotted. In H. C. G. fl. C. S. Leaves exceedingly bitter. (Roxb.)

DOPATRIUM, Buch. (*G. Don's Mill. dict.* 4, p. 536;—*Benth. scroph. ind.* p. 31.)

1. *nudicaule*, Benth. (*G. Don. l. c.*—*Gratiola nudicaulis*, Willd.—*G. aphylla*, Roth.—*G. cuneifolia*, Roxb. *fl. ind.* 1, p. 142; *ed. Carey.* 1, p. 142.) ☉ Coromandel. Bengal, (Serampore.) Fl. very small, blue. R. S.; fr. C. S.

2. *junceum*, Buch. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 142.—*Gratiola juncea*, Roxb. *Corom.* 2, t. 129; *fl. ind.* 1, p. 142; *ed. Carey.* 1, p. 142.) ☉ Coromandel. Fl. small, rose-coloured. In H. C. G. fl. R. S.; fr. C. S. (Roxb.)

PEPLIDIUM, Delile. (*G. Don's Mill. dict.* 4, p. 536.)

1. *diandrum*, (P. capense, Spreng.—*Microcarpæa spathulata*, Hook. *Bot. Misc. suppl.* 1, t. 4;—*J. Grah. Cat. B. pl.* p. 142.—*Limosella diandra*, L.; Roxb. *fl. ind.* 3, p. 91.) 4. Plains of India as far as Seharanpore. Fl. small, R. S.; fr. C. S.

BONNAYA, Lk. (*Benth. scroph. ind.* p. 32;—*G. Don's Mill. dict.* 4, p. 537.)

1. *serrata*, (B. brachiata, Lk. and Otto.;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 143.—*Gratiola serrata*, Roxb. *H. B. p.* 4; *fl. ind.* 1, p. 139; *ed. Carey.* 1, p. 140;—*Rheed.* 9, t. 59?) दूगि निग *Bhoomi-nim.* ☉ Peninsula of India. Bengal, (Serampore.) Fl. smallish, pink-coloured, R. S.; fr. C. S.

2. *reptans*, Spreng. (*Benth. scroph. ind.* p. 32;—*G. Don. l. c.*—*B. ruellioides*, Spreng.—*B. ciliata*, Spreng.—*Gratiola reptans*, Roxb. *fl. ind.* 1, p. 140; *ed. Carey.* 1, p. 140.—*G. ruellioides*, Kön.—*G. ciliata*, Colsm.) ☉ Moluccas. Khassya Mountains. Nepal. Fl. smallish, bluish-pink. R. S.; fr. C. S.

3. *veronicaefolia*, Spreng. (*Benth. o. c. p.* 33;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 143.—*B. rigida*, Benth. in *Wall. Cat.*—*B. procumbens*, Benth. *ibid.*—*B. marginata*, Spreng. ?—*B. Rothii*, Lk.—*Gratiola veronicifolia*, Retz. ?—*Roxb. Corom.* 2, t. 154; *fl. ind.* 1, p. 138; *ed. Carey.* 1, p. 139.—*G. marginata*, Colsm. ?—*G. grandiflora*, Retz.; not Roxb.—*G. racemosa*, Roth.; not Roxb.—*Rumph.* 5, t. 170, f. 2.) ☉ Moluccas. Coromandel. Mahableshwur. Bengal, (Serampore.) Burma. Silhet. Nepal. China. Fl. small, violet, R. S.; fr. C. S.

4. *verbenæfolia*, Spreng. (*Benth. o. c. p.* 33;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 143.—*B. Roxburghiana*, Lk.—*Gratiola verbenæfolia*, Colsm.—*G. ciliata*, Commers.—*G. racemosa*, Roxb. *fl. ind.* 1, p. 138; *ed. Carey.* 1, p. 139; not Roth.—*G. Roxburghiana*, Röm. and Sch.—*Tittmannia Colsmanni*, Benth. in *Wall. Cat.*—*Torenia gracilis*, Benth. *ibid.*) ☉ Peninsula of India. Bengal, (Serampore.) Burma. Silhet. Hindoosthan. China. Fl. small, blue, R. S.; fr. C. S.

5. *grandiflora*, Spreng. (*Benth. o. c. p.* 33;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 143;—*B. Wightii. Benth. in Wall. Cat.*—*Gratiola grandiflora, Roxb. Corom. 2, t. 179; fl. ind. 1, p. 136; ed. Carey, 1, p. 137;—Retz.?*—*Henckelia grandiflora, Lk.*) ⊙ Coromandel. Bombay. Bengal, (Serampore.) Fl. middle-sized, light blue, R. S.; fr. C. S.
 6. *oppositifolia*, Spreng. (*Benth. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 143.—*Gratiola oppositifolia, Roxb. Corom. 2, t. 155; fl. ind. 1, p. 139; ed. Carey, 1, p. 139;—Retz.?*—*Henckelia oppositifolia, Lk.*) ⊙ Coromandel. Bombay. Bengal, (Serampore.) Fl. small, blue, R. S.; fr. C. S.
 7. *tenuifolia*, Spreng. (*G. Don. o. c.* 538.—*Gratiola tenuifolia, Colson.*) ⊙ China. Tavoy. Coromandel. Bengal, (Serampore.) Fl. small, blue, R. S.; fr. C. S.
 8. *hyssopioides*, Benth. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 143.—*Gratiola hyssopioides, Roxb. Corom. 2, t. 128; fl. ind. 1, p. 141; ed. Carey, 1, p. 142.*) ⊙ Coromandel. Bombay. Bengal, (Serampore.) Silhet. Hindoosthan. China. Fl. small, blue, R. S.; fr. C. S.
 9. *parviflora*, Benth. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 143.—*Gratiola parviflora, Roxb. Corom. 3, t. 203; fl. ind. 1, p. 140; ed. Carey, 1, p. 141.*) ⊙ Coromandel. Bombay. Burma. Silhet. Hindoosthan. Fl. small, blue or white. In H. C. G. fl. R. S.; fr. C. S. (*Roxb.*)
 10. *rotundifolia*, Benth. (*o. c. p.* 34;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p.* 143, excl. syn. Rheed.—*Gratiola rotundifolia, L.; Roxb. Corom. 3, t. 204; fl. ind. 1, p. 137; ed. Carey, 1, p. 138.*—*G. debilis, Heyne, in Wall. Cat.*) ⊙ Coromandel. Bombay. Ceylon. Bengal, (Serampore.) Fl. small, white, R. S.; fr. C. S.
 11. *integrifolia*, (*Gratiola integrifolia, Roxb. fl. ind. 1, p. 137; ed. Carey, 1, p. 138;—Rheed. 9, t. 57.*) ⊙ Coromandel. Bengal, (Serampore.) Fl. smallish, blue, R. S.; fr. C. S.
- VANDELLIA, L. (*Benth. scroph. ind. p.* 35;—*G. Don's Mill. dict. 4, p.* 547.)
1. *crustacea*, Benth. (*l. c.*;—*G. Don. o. c. p.* 548;—*J. Grah. Cat. B. pl. p.* 144; excl. syn. Rheed.—*Capraria crustacea, L.*—*Torenia crustacea, Cham. and Schlecht.*—*T. lucida, Buch. in Wall. Cat.*—*Morgania lucida, Spreng.*—*Hornemannia ovata, Lk. and Otto.*—*Tittmannia ovata, Reichb.*—*Gratiola aspera, Roth.*—*G. lucida, Roxb. Corom. 3, t. 202; fl. ind. 1, p. 138; ed. Carey, 1, p. 138;—Rumph. 5, t. 170, f. 3.*) ⊙ Moluccas. Coromandel. Bombay. Bengal, (Serampore.) Fl. small, indigo-coloured, R. S.; fr. C. S.
 2. *Roxburghii*, *G. Don. (o. c. p.* 549;—*J. Grah. Cat. B. pl. p.* 144.—*Vandellia diffusa, Willd.; not L.*—*Torenia diffusa, Roxb. fl. ind. 3, p. 95.*) ⊙ Coromandel. Bombay. Bengal, (Serampore.) Fl. small, blue, R. S.; fr. C. S.



3. *varians*, G. Don. (*l. c.*—*Torenia varians*, Roxb. *fl. ind.* 3, p. 96.)
○ Coromandel. Bengal, (Serampore.) Fl. small, bluish, R. S.; fr. C. S.
4. *multiflora*, G. Don. (*l. c.*—*Torenia multiflora*, Roxb. *fl. ind.* 3, p. 96.)
○ Bengal, (Serampore.) Fl. small, bluish-white, R. S.; fr. C. S.
- TORENIA**, L. (*Benth. scroph. ind.* p. 38;—*G. Don's Mill. dict.* 4, p. 550.)
1. *asiatica*, L. (*Benth. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 144, excl. syn. Rheed.—*Lam. ill. t.* 523, f. 1.—*T. cordifolia*, *Benth. in Wall. Cat.*; not Roxb.—*T. peduncularis*, *Benth. l. c.*—*T. diffusa*, *Don. and Benth. l. c.*; not Roxb.—*T. alba*, *Buch.*—*T. hians* and *vagans*, *Roxb. fl. ind.* 3, p. 96.—*T. hirsuta*, *Willd.*—*Gratiola alata*, *Roxb. fl. ind.* 1, p. 137; *ed. Carey*, 1, p. 137?—*Bonnaya alata*, *Spreng.*?—*Henckelia alata*, *Lk.*?) ○ Coromandel. South Concan. Amboyna. Chittagong. Bengal, (Serampore,) &c. Fl. largish, generally blue, R. S.; fr. C. S.
2. *cordifolia*, Roxb. (*Corom.* 2, t. 161; *fl. ind.* 3, p. 95;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 144;—*B. M.* 66, t. 3715;—*Rheed.* 9, t. 68.)
○ Circars. South Concan. Bengal, (Serampore.) Mussooree. Fl. largish, bluish-purple, R. S.; fr. C. S.

* *Gratiola officinalis*, L. Fl. dan. t. 363. 4. Denmark. France, &c.—*G. linifolia*, Vahl. 4. Portugal.—*G. aurea*, Pursh.; B. Cab. t. 1399. 4. Carolina.—*G. tetragona*, Ell. 4. S. Carolina.—*Beyrichia acinoides*, Cham. and Schlecht. 4. Rio Janeiro.—*Achetaria Sprengelii*, Cham. and Schlecht. 4. Tropical Brazil.—*Peplidium humifusum*, Delile. 4. Bombay. N. Africa.—*Stemodia maritima*, L. 4. Jamaica.—*Mazus surculosus*, D. Don. 4. Mussooree.—*M. rugosus*, Lour. 4. Silhet. Scharunpore, &c.—*Mimulus strictus*, Benth. 4. Rajmahl.—*M. parviflorus*, Lindl.; B. Reg. 11, t. 874. ○ Chili.—*M. floribundus* Dougl.; B. Reg. 14, t. 1125. ○ California.—*M. nepalensis*, Benth. Nepal.—*Uvedalia linearis*, R. Br. Tropical N. Holland.—? *Collinsia bicolor*, Benth. ○ California.—*C. parviflora*, Lindl.; B. Reg. 13, t. 1082. ○ N. America.—*Teedia lucida*, Rudolf; B. Reg. 3, t. 209. ♂ C. G. H.—*T. pubescens*, Burch.; B. Reg. 3, t. 214. ♂ C. G. H.

G. BÜCHNERÆ, Benth.

- (*In Hook. comp. Bot. Mag.* 1, p. 356;—*G. Don's Mill. dict.* 4, p. 582.)
- STRIGA**, Lour. (*fl. cochinch.* p. 22;—*Benth. o. c. p.* 361;—*G. Don. l. c.*)
1. *densiflora*, Benth. (*o. c. p.* 363;—*G. Don. l. c.*—*Büchnera asiatica*, Vahl. ?—*L.* partly.—*B. densiflora*, *Benth. scroph. ind.* p. 41.) 4 Peninsula of India, and the plains of India as far as Saharunpore. Fl. small, C. S.
2. *lutea*, Lour. (*fl. cochinch.* p. 22?—*Benth. l. c.*;—*G. Don. o. c. p.* 583.—*Büchnera hirsuta*, *Wall.*;—*Benth. scrophul. ind.* p. 41.—*B. asiatica*, *L.* partly.) 4. Peninsula of India, Bengal. Saharunpore. Macao. Canton. Fl. yellow, C. S.

Euphrasioides, Benth. (*l. c.*;—*G. Don. l. c.*—*Büchnera euphrasioides*, Vahl.—*B. angustifolia*, *D. Don. prod. fl. nep. p. 91.*—*B. asiatica*, L. partly.) 4. Java. Peninsula. Bengal, &c. to the Mountains of N. India.

H. BUDDLEÆ, Benth.

(*G. Don's Mill. dict. 4, p. 596.*)

BUDDLEA, Houtt. (*G. Don. l. c.*)

1. *diversifolia*, Vahl. (*G. Don. o. c. p. 597*;—*Benth. scroph. ind. p. 43*;—*B. indica*, Lam.) 5 Java. In H. C. G.
2. *paniculata*, Wall. (*Roxb. fl. ind.; ed. Carey, 1, p. 412*;—*G. Don. l. c. p. 599.*) 5 Deyra-Dhoon. Fl. $6\frac{1}{2}$ lines, reddish-white, fragrant, Feb. March and April.
3. *Neemda*, Buch. (*Roxb. fl. ind. 1, p. 396*; *ed. Carey, 1, p. 411*;—*G. Don. o. c. p. 600.*—*B. serrulata*, Roth.—*B. subserrata*, *D. Don. prodr. fl. nep. p. 92.*) 5 Peninsula of India. Penang. Chittagong. Saharunpore. Oude. Deyra-Dhoon. Fl. 2 lines, white, almost inodorous, March, April and May; fr. R. S.
4. *madagascariensis*, Vahl. (*G. Don. o. c. p. 601*;—*B. M. 55, t. 2824*;—*B. Reg. 15, t. 1259.*) L. 5 Madagascar. Fl. $4\frac{1}{2}$ lines, bright orange, March, April and May.

* *Buddlea brasiliensis*, Jacq. fil.; B. M. 54, t. 2713. 5 Tropical Brazil.—*B. globosa*, Lam.; B. M. 5, t. 174. 5 Chili.—*B. heterophylla*, Lindl.; B. Reg. 15, t. 1259. 5 S. America.—*B. thyrsoides*, Lam. 5 Brazil.—*B. macrostachya*, Benth. 5 Silhet.—*B. discolor*, Roth. 5 Nepal. Oude. Rungpore.—*B. crispa*, Benth. 5 Oude. Silhet.

I. VERONICEÆ, Benth.

(*Scroph. ind. p. 43.*)

VERONICA, Tournef. (*Benth. scroph. ind. p. 44*;—*G. Don's Mill. dict. 4, p. 563.*) *Speedwell.*

1. *foliosa*, Wall. and Kit. (*Hung. 2, p. 106, t. 102*;—*G. Don. l. c.*) 4. Hungary. Humid meadows about Halle, in Saxony. Fl. small, blue, C. S.
2. *maritima*, L. (*G. Don. l. c.*;—*fl. dan. t. 374.*) 4. N. Europe. A very variable plant. Fl. small, purple, C. S.
3. *spuria*, L. (*G. Don. l. c.*—*V. amethystina*, Willd.—*V. rubella*, Pall.) 4. S. Europe. Fl. small, blue, C. S.
4. *elatior*, Ehrh. (*G. Don. l. c.*—*V. maritima*, Bieb. excl. syn.) 4. S. Europe. Fl. small, blue, C. S.
5. *hybrida*, L. (*G. Don. o. c. p. 366*;—*E. B. 10, t. 673.*—*V. spicata*, DC. *fl. fr.*; not L.) 4. Europe. Fl. small, light blue, C. S.
6. *longifolia*, L. (*G. Don. o. c. p. 365.*—*V. maritima*, Hoffm. excl. syn.—*V. ciliaris*, Hoffm.—*V. spuria* Schkuhr, not L.—*V. acuta*, Mart.—*V. urticæfolia*, Amm.) 4. Humid meadows of Europe. Fl. small, blue, C. S.



1. *Anggallis*, L. (*G. Don. o. c.* p. 577;—*E. B.* 11, t. 781;—*fl. dan.* t. 903.—*V. undulata*, *Wall. Roxb. fl. ind.*; *ed. Carey*, 1, p. 147.) ☉ Europe. Siberia. Levant. Virginia, &c. Silhet. Hindoosthan. Nepal. Kanowur. Fl. small, pale blue, or whitelined with blue, or entirely white, Feb. and March; fr. April.

β. *glanduloso-pubescens*. ☉ Banks of the Hooghly, about Serampore. Fl. $\frac{1}{2}$ line, pure white, Feb. and March; fr. April. Stem, branches, peduncles, pedicels, bractes, calyxes, and ovaries covered with a gland-tipped pubescence,

8. *agrestis*, L. (*G. Don. l. c.*;—*E. B.* 11, t. 783.) ☉ Europe, Saharunpore. Fl. very small, pale blue, Feb. and March; fr. April.

SCOPARIA, L. (*G. Don's Mill. dict.* 4, p. 642;—*R. Br. prodr.* p. 443.)

1. *dulcis*, L. (*G. Don. l. c.*;—*R. Br. pr. l. c.*) ☉ Native of every part of the world within the Tropics, common particularly near the sea. Fl. $1\frac{1}{2}$ line, white, about Serampore; and fr. nearly throughout the year. An infusion of the plant is used by the Indians of S. America to cure agues. (*Humb.*)

* *Veronica media*, Schrad. 2. Hungary.—*V. australis*, Schrad. 2. S. Europe.—*V. Crista galli*, Stev. ☉ Cuba.—*V. virginica*, L. 2. Virginia.—*Calorrhados Brunonianus*, Benth. 2. Nepal.—*Scoparia flava*, Cham. and Schlecht. 2. Brazil.—*S. multifida*, Cham. and Schlecht. 3. Brazil.—*Aragoa cupressina*, H. B. and Kth. 5. St. Fé de Bogota.—*A. abietina*, H. B. and Kth. 5. St. Fé de Bogota.—*Hemiphragma heterophyllum*, Wall. tent. fl. nep. t. 8. 2. Nepal.—*Sibthorpia europea*, L.;—*E. B.* 10, t. 649. 2. England. S. Europe.—*Disandra africana*, L. 2. N. Africa.

K. GERARDIÆ, Benth.

GERARDIA, L. (*Benth. scroph. ind.* p. 49;—*G. Don's Mill. dict.* 4, p. 556.)

1. *delphinifolia*, L. (*Benth. l. c.*;—*Hook. comp.* 1, p. 211, t. 11;—*Roxb. Corom.* 1, t. 90; *fl. ind.* 3, p. 98.—*Sopubia delphinifolia*, *G. Don's Mill. dict.* 4, p. 560;—*J. Grah. Cat. B. pl.* p. 145.) ☉ Coromandel. The Concan. The Ghauts at Kandalla. Lohargan. (*Royle.*) Fl. largish, pale rose-coloured, R. and C. S.; fr. C. S.

GLOSSOSTYLIS, Cham. and Schlecht. (*Benth. in Hook. comp. Bot. Mag.* 1, p. 211;—*G. Don's Mill. dict.* 4, p. 561.)

1. *avensis*, Benth. (*L. c.*;—*G. Don. l. c.*—*Hymenospermum dentatum*, *Benth. in Wall. Cat.*) ☉ Taong-Dong. Has been introduced into H. C. G.?

CENTRANTHERA, R. Br. (*Prodr.* p. 438;—*Benth. scroph. ind.* p. 50;—*G. Don's Mill. dict.* 4, p. 562.)

1. *hispida*, R. Br. (*L. c.*;—*Benth. l. c.*;—*G. Don. l. c.*;—*Wall. pl. as. rar.* 1, t. 45;—*J. Grah. Cat. B. pl.* p. 145.—*C. nepalensis*, *D. Don.*—*Digitalis stricta*, *Roxb. fl. ind.* 3, p. 99;—*Rheed.* 9, t. 78?) ☉ Tropi-



cal N. Holland. Ram Ghaut. Coromandel. Prome. Bengal. (Serampore.) Hindoosthan. Nepal. Kemaon. Fl. middle-sized, deep purplish red, R. and C. ; fr. C. S.

2. *humifusa*, Wall. (*Benth. scroph. ind. p. 50*;—*G. Don. o. c. p. 563*.—*Razumovia tranquebarica, Spreng.*) © Peninsula of India. Bengal, (Serampore.) Fl. smaller, but of the same colour with No. 1, R. and C. S. ; fr. C. S.

- * *Gerardia grandiflora*, Benth, 2. Mexico.—*G. densiflora*, Benth. 2. Mexico.—*G. fasciculata*, Ell. 2. S. Carolina.—*G. longifolia*, Nutt. © N. America.—*Esterhazia splendida*, Mikan. 5 Tropical Brazil.—*Centranthera grandiflora*, Benth. © Khassya Mountains.—*C. Brunoniana*, Wall. Moulmein.

L. RHINANTHÆÆ, Benth.

- * *Rhinanthus Crista galli*, L. ; E. B. 10, t. 657. © Europe. America.—*R. orientalis*, L. © Levant.—*Pedicularis Chamissonis*, Stev. © Siberia.—*P. palustris*, L. ; E. B. 6, t. 399. © Europe.—*P. sylvatica*, L. ; E. B. 6, t. 400. © Europe. Siberia.—*Melampyrum cristatum*, L. ; E. B. 1, t. 41. © North and Middle Europe.—*M. arvense*, L. ; E. B. 1, t. 53. © England. S. Europe.—*M. pratense*, L. ; E. B. 2, t. 113. © N. Europe.—*M. sylvaticum*, L. ; E. B. 12, t. 804.—*Triphysaria versicolor*, Fisch. and Mey. © California.—*Euphrasia officinalis*, L. ; E. B. 20, t. 1416. © Europe. Siberia. Himálaya. Cashmere.—*E. tricuspidata*, L. © Italy.—*E. aspera*, Brot. © Portugal.—*Odontites rubra*, Pers. (*Euphrasia Odontites*, L. ; E. B. 20, t. 1415.) © Meadows of Europe and Siberia.—*Bartsia purpurea*, Duby. © S. France.—*B. viscosa*, L. (*Rhinanthus viscosus*, Sm. ; E. B. 15, t. 1045.) © England. France. Italy.—*B. versicolor*, Pers. © Italy. N. Africa.—*B. maxima*, Pers. © Candia.

ORDER CCIX.—SOLANACEÆ, Lindl. Nat. Syst. p. 293.

THE NIGHTSHADE TRIBE.

Herbs or shrubs, by Lindl. (excluding *Brugmansia*.) referred to 42 genera. Of these, Spreng. syst. enumerates about 280 for S. America, Mexico and the W. Indies ; 25 for New Holland and Van Diemen's Land ; 15 for North America ; 15 for Europe ; 10 for N. Africa ; 4 for the Mascarenhas Islands ; 4 for China ; 4 for Madeira and the Canaries ; 4 for Guinea ; 3 for Madagascar ; 2 for Arabia ; 2 for Japan ; 2 for Siberia ; 1 for Caucasus, and 1 for Persia. Several of the European species are also natives of Tauria, Caucasus, the Orient and N. Africa. In S. Africa Harvey enumerates 50 species. According to Nees Von Esenbeck's synopsis of Indian Solanaceæ, and



Royle's ill. 44 species have been discovered in the E. Indies; viz. 31 of *Solanum*; 4 of *Physalis*; 1 of *Anisodus*; 4-5 of *Datura*; 1 of *Hyoscyamus*; 1 of *Atropa*; and 1 of *Lycium*. Of these, *Lycium europæum*, *Atropa acuminata*, *Hyoscyamus niger*, *Solanum laxum*, *lysimachioides*, *crassipetalum*, *rubrum*, *Physalis angulata*, *Datura ferox*, and *Anisodus luridus* are from the Himalayas; the rest are all tropical.

"At first sight this family would seem to offer a strong exception to the general uniformity of structure and property, containing as it does the Deadly Nightshade and Henbane, and the wholesome Potato and Tomato; but a little inquiry will explain this apparent anomaly. The tubers of the Potato are well known to be perfectly wholesome when cooked, any narcotic property which they possess being wholly dissipated by heat. This is the case with other succulent underground stems in equally dangerous families, as the Cassava among Euphorbiaceæ; besides which, as DeCandolle justly observes,—'Il ne faut pas perdre de vue que tous nos alimens renferment une petite dose d'un principe excitant, qui, s'il y était en plus grande quantité, pourrait être nuisible, mais qui y est nécessaire pour leur servir de condiment naturel.' The leaves of all are narcotic and exciting, but in different degrees, from the *Atropa Belladonna*, which causes vertigo, convulsions, and vomiting, the well known Tobacco, which will frequently produce the first and last of these symptoms, the Henbane and Stramonium, down to some of the *Solanum* tribe, the leaves of which are used as kitchen herbs. It is in the fruit that the greatest diversity of character exists: *Atropa Belladonna*, *Solanum nigrum*, and others, are highly dangerous poisons; *Stramonium*, *Henbane*, and *Physalis* are narcotic; the fruit of *Physalis Alkekengi* is diuretic; that of *Capsicum* is pungent and even acrid; some species of *Physalis* are subacid, and so wholesome as to be eaten with impunity, (f. ex. the well known *Tepariya*;) and finally, the Egg plant, (*Solanum Melongena*, *Brijal*;) and all the Tomato tribe of *Solanum*, yield fruits which are common articles of cookery. It is stated that the poisonous species derive their properties from the presence of a pulpy matter which surrounds the seeds; and that the wholesome kinds are destitute of this pulp, the pulp consisting only of what botanists call the sarcocarp, that is to say, the centre of the rind, in a more or less succulent state. It must also be remembered, that if the fruit of the Egg-plant is eatable, it only becomes so after undergoing a peculiar process, by which all its bitter acrid matter is removed, and that the Tomato is always exposed to heat before it is eaten." (Lindl.)

LYCIUM, L. (*G. Don's Mill. dict.* 4, p. 457.)

1. *afrum*, L. (*G. Don. o. c. p.* 459;—*B. Reg.* 5, t. 354;—*Lam. ill.* t. 112, f. 1;—*J. Grah. Cat. B. pl.* p. 140?) ♂ N. Africa. Spain. Fl. violet, rich purple above. Has been introduced into H. C. G. Fl.?
2. *barbarum*, L. (*G. Don. o. c. p.* 458, excl. Shaw and syn. *Lam.*:—*L. halimifolium*, *Mill. dict.*) ♂ N. Asia. Africa. S. Europe. Fl. purple, with a yellow base. Has been introduced into H. C. G. Fl.?



CAPSICUM, Tournef. (*G. Don's Mill. dict.* 4, p. 444.)

1. *grossum*, Willd. (*G. Don. o. c.* p. 445;—*Röm. and Sch.*;—*Roxb. fl. ind.* 1, p. 574; *ed. Carey*, 2, p. 260;—*Nees. v. Esenb.*) ककड़ि मरिच *Kaphuri-murich*. १ Nepal? Cultivated all over India. Fl. smallish, white, and fr. the whole year.
2. *annuum*, L. (*G. Don. o. c.* p. 444; excl. syn. *Rheed.*—*Roxb. fl. ind.* 1, p. 573; *ed. Carey*, 2, p. 260.) १ S. America. Fl. smallish, white, and fr. the whole year.
3. *frutescens*, L. (*Hort. Cliff.*; not L. sp.—*G. Don. o. c.* p. 446;—*Willd.*;—*Röm. and Sch.*;—*Lour.*;—*Roxb. fl. ind.* 1, p. 574; *ed. Carey*, 2, p. 261;—*J. Grah. Cat. B. pl.* p. 139, excl. syn. *Don.*—*Rheed.* 9, t. 35. and B. M.—*Rheed.* 2, t. 56.—*Rumph.* 5, t. 88, f. 1 and 3.) बोन बङ्का मरिच *Lal-lungka-murich*. १ Fl. small, white, and fr. the whole year. Fruit red.
β. *flavum*; हवदी बङ्का मरिच *Huldee-lungka-murich*. Fruit yellow.
4. *fastigiatum*, Bl. (*G. Don. l. c.*—*C. frutescens*, L. sp.; not L. *Hort. Cliff.*;—*Burm. ind.*—*Nees.*;—*C. minimum*, *Roxb. fl. ind.* 1, p. 574; *ed. Carey*, 2, p. 261; not *Mill.*) धान बङ्का मरिच *Dhan-lungka-murich*. *Cayenne-pepper capsicum*. १ S. America? Fl. smallish, white, and fr. the whole year.
5. *Chamaecerasus*, *Nees.* (*G. Don. l. c.*—*C. cerasiforme*, *Poir.*; not *Willd.*—*C. purpureum*, *Roxb. fl. ind.* 1, p. 573; *ed. Carey*, 2, p. 259.) १ Moluccas? Fl. smallish, purple, and fr. the whole year.
6. *baccatum*, L. (*G. Don. o. c.* p. 447; *Willd.*;—*H. B. and Kth.*;—*Roxb. H. B.* p. 17.—*C. frutescens*, β. L. sp.—*Rumph.* 5, t. 88, f. 2.) १ Tropical America. Cultivated in Guinea and India. Fl. smallish, whitish, and fr. the whole year.

SOLANUM, L. (*G. Don's Mill. dict.* 4, p. 400.) *Nightshade*.

1. *tuberosum*, L. (*G. Don. l. c.*;—*Roxb. fl. ind.*; *ed. Carey*, 2, p. 216, annot;—*H. B.* p. 16;—*J. Grah. Cat. B. pl.* p. 137.—*Solanum tuberosum* esculentum, *Bauh.*—*Lycopersicum tuberosum*, *Mill.*—*Papas americana*, *Bauh.*—*P. Pernanorum*, *Besl.*—*Batata peruviana*, *Park.*) बिजाति आलू *Bilati-aloo*. *Potatoe*. १ West Coast of S. America. Cultivated all over the world. Fl. middle-sized, white or blue, and fr. C. S.
2. *macrocarpon*, L. (*G. Don. o. c.* p. 410;—*Willd. sp.* excl. syn. *Feuill.* and *Plum.*;—*Dun.*;—*Roxb. H. B.* p. 16.) १ Peru. Fl. large, blue, and fr. the whole year.
3. *æthiopicum*, L. (*G. Don. l. c.*;—*Jacq. vind. t.* 12;—*Roxb. fl. ind.* 1, p. 568; *ed. Carey*, 2, p. 250.—*Lycopersicum æthiopicum*, *Mill.*) ० *Æthiopia*. China. Japan. Mauritius? Fl. white, or violet, and fr. the whole year.
4. *Pseudocapsicum*, L. (*G. Don. o. c.* p. 411;—*Roxb. H. B.* p. 16;—*J. Grah. Cat. B. pl.* p. 137.) १ Madeira. Fl. small, white, and fr. the whole year.
5. *nodiflorum*, *Jacq.* (*Icon. rar.* 2, t. 326;—*G. Don. l. c.*—*Roxb. H. B.*



- 16.) $\S$ Guiana. Brazil. Mauritius. Fl. white, with a yellow base and fr. the whole year.
6. *nigrum*, L. (*G. Don. o. c. p.* 412;—*E. B. 8, t.* 566.) $\odot$ Europe. Fl. smallish, white, and fr. C. S.
7. *incertum*, Dun. (*Solan. p.* 155;—*Nees.*;—*G. Don. o. c. p.* 412;—*J. Grah. Cat. B. pl. p.* 137, excl. syn. L. Mill. Roxb. E. B. and Rumph.—*S. nigrum, Forsk.*—*S. miniatum, Bernh.*;—*Rheed. 10, t.* 73.) $\odot$ Bengal. Silhet. Fl. small, white, and fr. C. S.
8. *rubrum*, Mill. (*Nees.*;—*G. Don. l. c.*)
- α . *erythropyrenum*, (*Solanum rubrum, Mill.*;—*Roxb. fl. ind. 1, p.* 565; *ed. Carey, 2, p.* 246; excl. syn. *Rheed.*;—*Röm. and Sch.*;—*Dun.*—*Wight. icon. 2, t.* 344.—*S. nigrum, γ . rubrum, Willd.*—*S. Rumphii, Dun.*;—*Röm. and Sch.*—*S. asperum, Hornem.*—*Rumph. 6, t.* 26, *f.* 2.) গোর্কহী Gorkhee. Fl. small, white, and fr. whole year. Berries red.
- β . *melanopyrenum*, (*Solanum oleraceum, Rich. herb.*;—*Dun.*—*Röm. and Sch.*—*S. nigrum, Bl.*; not L.) $\odot$ All over India. Java. Ambonia. California. Fl. like those of α . Berries black.
9. *verbascifolium*, L. (*G. Don. o. c. p.* 415;—*Nees.*;—*R. Br. pr. p.* 444;—*Lour.*;—*Dun.*;—*Jacq.*—*Röm. and Sch.*;—*J. Grah. Cat. B. pl. p.* 138.—*S. pubescens, Roxb. fl. ind. 1, p.* 564; *ed. Carey, 2, p.* 244; not Willd.) অরুস Urus. $\S$ All over India. N. Holland. America. Fl. 5 lines, white, green-veined, and fr. the whole year.
10. *auriculatum*, Ait. (*G. Don. l. c.*;—*Nees.*;—*Dun.*;—*Röm. and Sch.*;—*Roxb. fl. ind. 1, p.* 564; *ed. Carey, 2, p.* 245;—*S. mauritanium, Scop.*) $\S$ Madagascar. Bourbon. Mauritius. Fl. small, lively blue-purple, R. and C. S.; fr. Dec. to May.
11. *byrsinum*, (*S. coriaceum, Hook.*;—*B. M. 54, t.* 2708;—*G. Don. o. c. p.* 418. not Dun.—*G. Don. o. c. p.* 428.) $\S$ Mexico. Fl. largish, pale blue. Introduced in 1841.
12. *spirale*, Roxb. (*fl. ind. 1, p.* 566; *ed. Carey, 2, p.* 247;—*Nees.*;—*G. Don. o. c. p.* 419.) $\S$ Silhet. Assam. Fl. white, smallish, and fr. several times a year.
13. *decemdentatum*, Roxb. (*fl. ind. 1, p.* 565; *ed. Carey, 2, p.* 247;—*G. Don. o. c. p.* 421.—*S. decemfidum, Wall. Cat.*;—*Nees.*) $\odot$ China. Singapore. Fl. smallish, white, and fr. the whole year.
14. *torvum*, Swz. (*G. Don. o. c. p.* 430;—*Willd.*;—*Dun.*;—*Röm. and Sch.*;—*Nees.*;—*Wight. icon. 2, t.* 345.—*S. stramonifolium, Lam.*;—*Poir.*;—*Roxb. fl. ind. ed. Carey, 2, p.* 256;—*H. B. p.* 17; not *Jacq.*—*S. ferrugineum, Jacq.*;—*Willd.*;—*Dun.*;—*Röm. and Sch.*—*S. fici-folium, Ort.*;—*Cavan.*—*S. scabrum, Ruiz. and Pav.*;—*Poir.*—*S. saponaceum, Dun.*;—*Poir.*;—*Röm. and Sch.*;—not *Hook. B. M.*—*S. pseudosaponaceum, Bl.*) গোট বেগুন Goto-begoon. L. $\S$ Bengal, (Serampore.) &c. Jamaica. Hispaniola. Bermuda Islands. Fl. 8-9 lines, white, and fr. nearly the whole year.

15. *Melongena*, L. (*G. Don. o. c. p.* 432;—*Nees.*)

a. Fertile peduncle solitary, often with a small raceme of sterile flowers.

aa. Stem, leaves, and calyxes, unarmed, or nearly so. (*Solanum ovigerum*, *Dun.*—*Röm. and Sch.*;—*Bl.*—*S. Melongena*, L.—*Willd. Roxb. fl. ind.* 1, p. 566; *ed. Carey*, 2, p. 248;—*Lour.*;—*J. Grah. Cat. B. pl.* p. 138, partly.—*S. pseudo-undatum*, *Bl.*;—*Rumph.* 5, t. 85.) বেগুন Begoon. Brinjal. Egg-plant. ২. All over India. Fl. largish, violet, C. S.; fr. H. S.

ββ. Stem, leaves, and calyxes more or less aculeate. (*Solanum esculentum*, *Dun.*;—*Röm. and Sch.*—*S. Melongena*, L. *suppl.*;—*Roxb. l. c.* partly;—*Lour.* partly.—*S. insanum*, L.; *Willd.*; not *Roxb.*—*S. longum*, *Roxb. fl. ind.* 1, p. 567; *ed. Carey*, 2, p. 248;—*Rheed.* 10, t. 74.) কুলি বেগুন Kooli-begoon. Long Brinjal. ২. Like aa. cultivated all over India. Fl. largish, bright bluish-purple, C. S.; fr. H. S.

The fruit of each of these varieties is either ovate-oblong or oblong, violet or white;—or globular (larger and smaller), violet; or more and less globular, white, or white striped on a violet ground.

β. Fertile, peduncle racemose-corymbose, 3-4 flowered; stem, leaves, and calyxes aculeate; fruit smaller, ovate, or somewhat globular, in some enclosed within the calyx. (*Solanum Melongena spontaneum*;—*S. insanum*, *Roxb. fl. ind.* 1, p. 568;—*ed. Carey*, 2, p. 249; *excl. syn.* *Rumph.* not L.—*S. undatum*, *Lam.*;—*Bl.*—*S. incanum*, L.;—*Dun.*;—*Röm. and Sch.*—*S. Zeylanicum*, *Scop.* ২. *Moluccas.* In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)

16. *sodomeum*, L. (*G. Don. o. c. p.* 433;—*Lam. ill. No.* 2358, t. 115, f. 1;—*R. Br. prodr.* p. 446;—*Roxb. H. B. p.* 17;—*Sibth. and Sm. fl. gr. t.* 235.) ১ S. Europe, N. Africa, N. Holland, C. G. H. Brazil. Fl. purple. Introduced into H. C. G. in 1798, but had not fl. up to 1814.

17. *marginatum*, L. (*G. Don. o. c. p.* 434;—*Jacq. icon. rar.* 1, t. 45;—*Dun. solan. p.* 215, t. 3;—*B. M.* 44, t. 1928.) ১ Palestine. Fl. large, white, with a central purple star. Introduced into H. C. G. before 1814, but had not flowered then.

18. *campechiense*, L. (*G. Don. l. c.*;—*Willd. sp.*; *excl. syn.* L. *Mant.*—*S. acanthifolium*, *Mill.*) ☉ Campeche Bay. Fl. pale, violet. Introduced in 1841.

19. *indicum*, L. (*G. Don. o. c. p.* 433;—*Nees.*;—*Roxb. fl. ind.* 1, p. 570; *ed. Carey*, 2, p. 252;—*Wight. icon.* 2, t. 346;—*J. Grah. Cat. B. pl.* p. 138; *excl. syn.* *Rumph.*;—*Burm. zeyl. t.* 102;—*Lour.*;—*S. violaceum*, *Jacq.*;—*Röm. and Sch.*;—*Dun.*;—*G. Don. o. c. p.* 437.—*S. canescens*, *Bl.*;—*Rheed.* 2, t. 36.) ১ Byakoor. L. ১ All over India. Fl. middle-sized, blue, and fr. the whole year.

20. *ferox*, L. (*G. Don. o. c. p.* 435;—*Willd.*;—*Röm. and Sch.*;—*Dun.*; *Nees.*;—*J. Grah. Cat. B. pl.* p. 139.—*S. involucreatum*, *Bl.*—*S.*



lasiocarpum, Dun.;—Röm. and Sch.—Blume;—Wall.—*S. hirsutum*, Roxb. *fl. ind.* 1, p. 571; ed. Carey, 2, p. 253.—*S. mammosum*, Lour.—Rheed. 2, t. 35.) **রাম বেগুন** *Ram-begoon*. 4. Cochin-China. Penang. Singapore. Coromandel. S. Concan. Bengal, (Serampore.) Fl. largish, white, R. S.; fr. C. S.

21. *trilobatum*, L. (*G. Don. o. c. p.* 437;—Nees.;—Dun.;—Röm. and Sch.;—*Burm. ind.* t. 22, f. 2;—Roxb. *fl. ind.* 1, p. 574; ed. Carey, 2, p. 253;—*J. Grah. Cat. B. pl.* p. 138.—*S. acetosifolium*; Lam.;—Poir.;—Dun.;—Röm. and Sch.—Spreng.) 5. Coromandel. Guzerat. Deccan. Soonderbuns. Jamaica. Fl. largish, bluish-purple, and fr. nearly the whole year.

22. *Jacquinii*, Willd. (*G. Don. o. c. p.* 437;—Nees.;—*J. Grah. Cat. B. pl.* p. 139, excl. syn. *S. chinense*, Dun.)

α. *Fruit larger, plant less armed.* (*Solanum diffusum*, Roxb. *fl. ind.* 1, p. 568; ed. Carey, 2, p. 250.—*S. xanthocarpum*, Schrad. and Wendl.; *sert. Lannov.* 1, t. 2;—Willd.;—Dun.;—Röm. and Sch.; *G. Don. o. c. p.* 438.) 4. Coromandel. Elephanta. Bombay. Deccan, &c. Fl. largish, bluish-purple, R. and C. S.; fr. C. S.

β. *Fruit smaller, plant strongly armed.* (*Solanum Jacquinii*, Willd.;—Dun.;—Röm. and Sch.;—Roxb. *fl. ind.* 1, p. 569; ed. Carey, 2, p. 251.—*S. virginianum*, Jacq.; not L.) **কণ্টকারী** *Kanta-karee*. 4. Bengal, (Serampore,) &c. Fl. largish, bright-blue, and fr. whole year.

23. *pentapetaloides*, Roxb. (*H. B. p.* 17.) 4. Brazil. In H. C. G. fl. and fr. the whole year.

LYCOPERSICUM, Tournef. (*G. Don's Mill. dict.* 4, p. 443.)

1. *esculentum*, Mill. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 139;—Dun.;—Röm. and Sch.;—Nees.—*L. Pomum amoris*, Mörch.—*L. Galei*, Tournef.—*Solanum Lycopersicum*, L.; *Lam. ill.* t. 115, f. 2;—Lour.;—Roxb. *fl. ind.* 1, p. 565; ed. Carey, 2, p. 245.—*Pomum amoris*, Blackw. t. 133;—Rumph. 5, t. 154, f. 1.) **গোখি বেগুন** *Godh-begoon*. *Love-apple*. *Tomato*. 3. S. America. Domesticated in India. Fl. small, cream-coloured, C. S.; fr. H. S.

2. *cerasiforme*, Dun. (*G. Don. l. c.*—*L. Galei*, Mill. not Tournef. *Solanum Lycopersicum*, L. β;—*S. Pseudo-lycopersicum*, Murr.;—Jacq. *vind.* 1, t. 11;—Ruiz, and Pav.—*S. spurium*, Gmel.—*Pomum amoris*, Rumph. 5, p. 416, "Altera species," &c.) 3. Peru. Scarcely distinct from No. 1. Domesticated in India.

3. *Humboldtii*, Dun. (*G. Don. l. c.*;—Nees.;—Röm. and Sch.—*Solanum Humboldtii*, Willd.—*S. Lycopersicum*, Roxb. *fl. ind.* 1, p. 565; ed. Carey, 2, p. 245, partly.) 3. S. America. Domesticated in India. Fl. and fr. as in No. 1.

PHYSALIS, L. (*G. Don's Mill. dict.* 4, p. 447.) *Winter Cherry*.

1. *somnifera*, Nees. (*Lk.*;—*G. Don. o. c. p.* 448;—*J. Grah. Cat. B. pl.* p. 139.)



- a. flexuosa*. (*Physalis flexuosa*, L.—Willd.;—Röm. and Sch.;—Roxb. *fl. ind.* 1, p. 561; *ed. Carey*, 2, p. 240;—*Rheed.* 4, t. 55.) অশ্ব গন্ধা *Ushwa-gunda*. १ Coromandel. Both the Concans, Guzerat, Bengal, (Serampore.) Fl. $3\frac{1}{2}$ lines, pale greenish, R. and C. S.; fr. H. S. *Rheed.* l. c. says that this plant is a middle-sized tree. (*Arbor justæ magnitudinis*.) In all other respects it answers to the common *Physalis flexuosa* of L. and Roxb.
2. *peruviana*, L. (*Willd. sp.*;—Lk.;—Röm. and Sch.;—G. Don. *o. c.* p. 449.—Roxb. *fl. ind.* 1, p. 562; *ed. Carey*, 2, p. 241, partly;—J. Grah. *Cat. B. pl.* p. 140.—P. *pubescens*, L. *herb.* not Hort. cliff.;—Ruiz. and Pav.—R. Br. *pr.* p. 447;—Röm. and Sch.;—Spreng.—P. *esculenta*, Willd.;—Röm. and Sch.—P. *tomentosa*, Medic.—P. *tuberosa*, Zucc.—P. *latifolia*, Lam.;—Röm. and Sch.—P. *barbadensis*, Lam.; not Jacq.—P. *edulis*, Sims.;—B. M. 27, t. 1068.) তেপুরিয়া *Tepuriya*. ২ Peru. Antilles. Much cultivated in India. N. Holland, &c., on account of its largish, yellowish, palatable berries, here generally called *Gooseberries*. Fl. small, yellowish, C. S.; fr. H. S.
3. *pubescens*, L. (*Hort. cliff.*;—Lam.; Pursh.;—G. Don. l. c.—P. *pruinosa*, L.; Willd.—P. *barbadensis*, Jacq.;—Willd.;—Röm. and Sch.;—Hornem.; not Lam.) ৩ America. India, where it is perhaps only cultivated. Fl. and fr. as in No. 2.
4. *Alkekengi*, L. (G. Don. *o. c.* p. 448;—Sibth. and Sm. *fl. gr.* t. 234;—Roxb. *fl. ind.* 1, p. 562; *ed. Carey*, 2, p. 241.—P. *Halicacabum*, Scop.—*Alkekengi officinarum*, Tourn.) ৪ S. Europe. Persia. Fl. small, dirty white. Does not thrive in Bengal.
5. *minima*, L. (*Hort. cliff.*;—G. Don. *o. c.* p. 450;—Roxb. *fl. ind.* 1, p. 563; *ed. Carey*, 2, p. 242;—J. Grah. *Cat. B. pl.* p. 140.—P. *villosa*, Roth.—P. *Rothiana*, Röm. and Sch.—P. *parviflora*, Lag.;—Willd.;—R. Br.—Röm. and Sch.—P. *Lagascæ*, Röm. and Sch.—P. *indica*, Lam.—P. *pseudo-angulata*, Bl.—P. *Alkekengi*, Lour.; not L.—*Nicandra indica*, Röm. and Sch.;—*Rheed.* 10, t. 70;—*Rumph.* 6, t. 26, f. 1.) বন তেপুরিয়া *Bun-tepuriya*. ৫ Tropical N. Holland. Moluccas. Cochin-China. Java. Ceylon. Peninsula of India. Bengal, (Serampore.) Hindoosthan. Nepal. Fl. small, uniformly pale yellow, R. and C. S.; fr. C. S.
6. *angulata*, L. (G. Don. *o. c.* p. 450;—Nees;—Willd.;—Röm. and Sch. excl. β .—Roxb. *H. B. p.* 16.—P. *obscura*, Pursh. a.) ৬ E. and W. Indies. Introduced from Malacca into H. C. G., fl. R. and C. S.; fr. C. S.
- NICANDRA, Adans. (*G. Don's Mill. dict.* 4, p. 457.)
1. *physaloides*, Gärtn. (*fr.* 2, p. 237, t. 131, f. 2;—G. Don. l. c.;—J. Grah. *Cat. B. pl.* p. 140.—B. M. 51, t. 2458;—Pers.;—Pursh.;—Nutt.;—Willd.;—Röm. and Sch.—*Atropa physaloides*, L.;—Jacq. *obs.* 4, t. 98;—Roxb. *H. B. p.* 16.—*Physalis daturifolia*, Lam.—



Calydermos erosus, *Ruis. and Pav.*) © Peru. Chili. N. America. Fl. large, pale blue, rayed, with a whitish bottom, which is marked with five dark blue spots, Feb. and March; fr. H. S.

SOLANDRA, Swz. (*G. Don's Mill. dict.* 4, p. 475.)

1. *grandiflora*, Swz. (*G. Don. l. c.*;—*B. M.* 44, t. 1874;—*Roxb. H. B.* p. 16.—*S. scandens*, *Willd.*—*Swarzia grandiflora*, *Gmel.*—*Datura sarmentosa*, *Lam.*) ५ Jamaica. Fl. 7 inches, outside greenish-yellowish, inside yellowish and streaked with dark purple, sweet scented, Dec. and Jan.; fr. April and May.

2. *viridiflora*, Sims. (*B. M.* 45, t. 1948;—*G. Don. l. c.*) ५ Rio Janeiro. Fl. very large, pale green. Introduced in 1841.

DATURA, L. (*G. Don's Mill. dict.* 4, p. 427.) *Thorn-apple*.

1. *alba*, Rumph. (*Nees.*;—*G. Don. o. c. p.* 474;—*J. Grah. Cat. B. pl.* p. 141, excl. Rumph. 5, t. 87, f. 2. syn. L. and B. M.—*D. Metel, Roxb. fl. ind.* 1, p. 561; *ed. Carey*, 2, p. 238; not L.—*Rheed.* 2, t. 28.—*Rumph.* 5, t. 87, f. 1.) धूतूरा *Dhootooro*. © All over India. Fl. very large, white, and fr. the whole year. A strong narcotic, in India frequently and sometimes fatally employed by thieves and other rogues, to deprive their victims of the power of resistance.

2. *Metel*, L. (not *Roxb.*—*G. Don. l. c.*;—*Nees.*;—*B. M.* 35, t. 1440.) © N. Africa. Canaries. Fl. like those of No. 1, Feb. and March; fr. H. S. Poisonous like No. 1.

3. *fastuosa*, Mill. (*G. Don. l. c.*;—*Willd.*;—*Röm. and Sch.*;—*Nees.*;—*Roxb. fl. ind.* 1, p. 561; *ed. Carey*, 2, p. 238;—*J. Grah. Cat. B. pl.* p. 141, excl. *D. dubia*, Pers.) काल धूतूरा *Kala-dhootooro*. © All over India. Fl. very large, outside dark purple, inside whitish, and fr. whole year. More virulently poisonous than No. 1.

a. *simplex*, (*Rheed.* 2, t. 29.) Fl. single.

β. *plena*, (*Rheed.* 2, t. 30;—*Rumph.* 5, t. 87, f. 2.)

4. *ferox*, L. (*Amoen. acad.*;—*G. Don. l. c.*;—*Nees.*;—*Willd.*;—*Mill.*—*D. Stramonium*, β. *canescens*, *Wall.*;—*Roxb. fl. ind.*; *ed. Carey*, 2, p. 239.—*Stramonium ferox*, *Zan.*) © China. Cochin-China. Mountains of N. India. Nepal.—Fl. very large, white, and fr. whole year. Used by the Chinese for the same purposes as No. 1 by the Hindoos.

5. *Stramonium*, L. (*G. Don. l. c.*;—*Nees.*;—*Ruiz. and Pav.*;—*Pursh.*;—*E. B.* 18, t. 1288;—*Roxb. H. B.* p. 16.—*D. loricata*, *Sieb.*—*D. Pseudostramonium*, *Sieb.*—*D. capensis*, *Hortul.*—*Stramonium vulgare*, *Mönch.*—*S. foetidum*, *Scop.*—*S. vulgatum*, *Gärtn. fr.* 2, p. 243, t. 132, f. 4.—*S. spinosum*, *Lam.*) *Common Thorn-apple*. © America. Naturalized in Europe, N. Asia, and N. Africa. Fl. and fr. like No. 4, of which it is, perhaps, only a variety.

6. *Tatula*, L. (*G. Don. l. c.*;—*Swt. fl. gard.* t. 83;—*Nees.*;—*Mill.*;—*Willd.*;—*Röm. and Sch.*;—*Spreng.*;—*Pursh.*;—*Roxb. H. B.* p. 16.) © America; naturalized in the same places with the preceding species. Fl. large, white, Feb. and March; fr. H. S.

7. *inermis*, Jacq. (*Hort. vind.* (1770-76,) 3, t. 82;—*G. Don. o. c. p.* 473. —*D. laevis*, *L. fil. suppl.* (1781);—*Willd.*;—*Spreng.*—*Stramonium læve*, *Mönch.*) © Abyssinia. Fl. large, white, Feb. and March; fr. H. S.
8. *suaveolens*, Willd. (*D. arborea*, *Mill. dict. excl. syn. and descript.*—*Stramonium arboreum*, *Mönch.*—*Brugmansia* (Pers. not Bl.) *suaveolens*, *G. Don's Mill. dict.* 4, p. 475.) L. 5 Peru. Chili. Mexico. Fl. 10½ inches, white cream-coloured, in the evening fragrant, C. and H. S.; fr. O.

NICOTIANA, TOURN. (*G. Don's Mill. dict.* 4, p. 462.) Tobacco.

1. *Tabacum*, L. (*G. Don. l. c.*;—*Roxb. H. B. p.* 16.—*J. Grah. Cat. B. pl.* p. 140;—*Desf.*;—*Pursh*;—*Ruiz. and Pav.*;—*Lam. ill. t.* 113;—*Gärtn. fr.* 1, p. 264, t. 55, f. 11.—*N. havanensis*, *Lag.*;—*Roxb. H. B. p.* 16.) *Common Tobacco*, तम्बाकू *Tumak*. © America. Cultivated all over the world. Fl. large, rose-coloured, C. S.; fr. H. S.
2. *paniculata*, L. (*G. Don. o. c. p.* 464;—*Ruiz. and Pav.*;—*Lehm. nicot.*;—*Roxb. H. B. p.* 16.—*N. viridiflora*, *Cav. Feuill. per. t.* 10.) © Peru, near Patabilca, on the sea-shore. Fl. largish, greenish, C. S.; fr. H. S.
3. *fruticosa*, L. (*G. Don. l. c.*;—*Lehm. nicot.*;—*Roxb. H. B. p.* 16.—*N. frutescens*, *Cav.*) 5 C. G. H. Fl. large, rose-coloured, C. S.; fr. H. S.
4. *rustica*, L. (*G. Don. o. c. p.* 465;—*Roxb. H. B. p.* 16.) © Europe. Asia. Africa. America. © Fl. largish, greenish-yellow, C. S.; fr. H. S. This is commonly called *English Tobacco*, from having been the first introduced there. (*Mill. dict.*)
5. *plumbaginifolia*, Viv. (*G. Don. o. c. p.* 466;—*Lehm. nicot.*—*N. crispa*, *Jacq. fragm. t.* 84;—*Desf.*—*N. cerinthoides*, *Vittm.*; not Hornem.) © Rio Grande. Fl. middle-sized, white, below fuscous, and fr. nearly the whole year. Domesticated about Serampore.
6. *bonariensis*, Lehm. (*Nicot.*;—*G. Don. l. c.*) © Buenos Ayres. Fl. middle-sized, white, Feb. and March; fr. H. S.
7. *quadrivalvis*, Pursh. (*G. Don. l. c.*;—*B. M.* 43, t. 1778;—*Roxb. H. B. p.* 16.) © N. America, at the Missouri-river. Fl. largish, bluish-white, C. S.; fr. H. S.
8. *glutinosa*, L. (*Spec.*—*B. Repos. t.* 484;—*Ruiz. and Pav.*;—*Lehm. nicot.*;—*Roxb. H. B. p.* 16.—*N. militaris*, *L. act. holm.* (1753,) 15, p. 44, t. 2.—*Tabacus viridis*, *Mönch.*—*Sairanthus glutinosus*, *G. Don. o. c. p.* 467.) © Peru, in temperate places near Guancabamba, and elsewhere in S. America. Fl. rose-coloured. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)

PETUNIA, JUSS. (*G. Don's Mill. dict.* 4, p. 467.)

1. *nyctaginiflora*, Juss. (*G. Don. o. c. p.* 468;—*B. M.* 52, t. 2552.—*Nicotiana axillaris*, *Lam.*—*N. nyctaginiflora*, *Lehm.*) 4. S. America, at the mouth of the river Plata. Fl. large, greenish-white, Feb. and March; fr. H. S.



Hyoscyamus, Tourn. (*G. Don's Mill. dict.* 4, p. 471.) *Henbane*.

1. *niger*, L. (*G. Don. l. c.*—*E. B.* 9, t. 891.—*H. flavus*, *Fuchs.*) *Common Henbane*. ♂ Europe. Caucasus. N. India. Fl. largish, straw-coloured, reticulated with dark purple veins. C. S.; fr. H. S.

β. *agrestis*, Nees. (*H. agrestis*, *Kit.—Schult.*;—*Röm and Sch.*;—*Swet. fl. gard.* 1, t. 27;—*Mart. and Koch.*;—*G. Don. l. c.*—*H. niger*, *Wall. —Roxb. fl. ind.*; ed. *Carey*, 2, p. 237.—*H. niger*, β. *annuus*, *Sims.*; *B. M.* 50, t. 2394.) ⊙ Futtighur. Delhi. Sasseram. Fl. largish, minutely reticulated with purple veins on a pale rose-coloured and yellowish ground, marked with a dark purple throat, Feb. and March; fr. H. S.

2. *albus*, L. (*G. Don. l. c.*;—*Gärtn. fr.* 1, p. 369, t. 75, f. 8;—*Lam. ill.* t. 117, f. 2;—*Sibth. and Sm. fl. gr.* t. 230.) ⊙ S. Europe. Tauria. Fl. largish, greenish yellow, with a white or greenish throat, Feb. and March; fr. H. S.

3. *canariensis*, Ker. (*B. Reg.* 3, t. 130;—*G. Don. o. c. p.* 472.) 5 Canaries. Fl. largish, pale yellowish, with a dark purple throat, March and April; fr. May.

* *Lycium chinense*, Mill. 5 Canton. Cochin China.—*Ancistus arborescens*, Schlecht. 5 Martinique. Jamaica. Brazil.—*Grabowskia boerhaaviaefolia*, Schlecht; *B. Reg.* 23, t. 1985. 5 Brazil.—*G. duplicata*, Arn. *B. M.* 67, t. 3841. 5 Brazil.—*Capsicum havanense*, H. B. and Kth. 5 Cuba.—*C. bicolor*, Jacq.; *B. M.* 43, t. 1835. 5 W. Indies.—*C. sineuse*, Jacq. hort. vind. 3, t. 67. 5 China.—*Solanum Seaforthianum*, Andr.; *B. Reg.* 12, t. 969. 5 Barbadoes.—*S. muricatum*, Ait. 5 Peru. Mexico.—*S. Tweedianum*, Hook.; *B. M.* 62, t. 3385. 4. Buenos Ayres.—*S. Radula*, Vahl. 5 Cayenne.—*S. Swartzianum*, Röm. and Sch. 5 Brazil.—*S. argenteum*, Dun. 5 Rio Janeiro.—*S. havanense*, Jacq. 5 Martinique. Jamaica.—*S. nudum*, Dun. 5 Mexico.—*S. racemosum*, Jacq. 5 Martinique.—*S. igneum*, L. 5 W. Indies. Guiana.—*S. tetrandrum*, R. Br. 4. Tropical N. Holland.—*S. uniflorum*, Dun. 5 St. Domingo.—*S. macrodon*, Wall. 5 Khassya Mountains.—*S. crassipetalum*, Wall. 5 Nepal.—*S. denticulatum*, Bl. 5 Silhet.—*S. obtusifolium*, Dun. 5 Mexico.—*S. bahamense*, L. 5 Bahama Islands.—*S. molle*, Dun. 5 Caraccas.—*S. polyacanthum*, Lam. 5 Island of Dominica.—*S. microphyllum*, Dun. 5 W. Indies.—*S. crotoneoides*, Lam. 5 W. Indies.—*S. cordifolium*, Dun. 5 Rio Janeiro.—*S. jamaicense*, Swz. 5 Jamaica.—*S. giganteum*, Jacq. *B. M.* 44, t. 1921. 5 C. G. H. Neelgheries.—*S. platanifolium*, Sims.; *B. M.* 53, t. 2618. 5 S. America.—*S. mammosum*, L. ⊙ Virginia. Guiana. W. Indies.—*S. amazonium*, Ker.; *B. Reg.* 1, t. 71. 5 Mexico.—*Physalis viscosa*, L. 4. Brazil.—*P. Walteri*, Nutt. 4. S. Carolina.—*P. curassavica*, L. 4. Curaçao.—*Witheringia stramonifolia*, H. B. and Kth. 5 Mexico.—*Saracha procumbens*, Ruiz. and Pav. ⊙ Peru.—



S. umbellata, DC.; Swt. fl. gard. t. 85. ☉ Peru.—*S. viscosa*, Schrad.; Swt. fl. gard. n. s. t. 323. ☿ Mexico.—*Anisodus stramonifolius*, (A. luridus, Lk. *Physalis stramonifolia*, Wall.) Gossain Than.—*Netouzia formosa*, H. B. and Kth. ☿ Mexico.—*Jaborosa integrifolia*, Lam.; B. M. 63, t. 3489. ☿ Buenos Ayres.—*Solandra guttata*, D. Don.; B. Reg. 18, t. 1551. ☿ Mexico.—*Datura discolor*, Bernh. ☉ W. Indies.—*D. ceratocaula*, Ort.; B. Reg. 12, t. 1031. ☉ Cuba. Mexico.—*D. candida*, (Brugmansia candida, Pers. *Datura arborea*, L. not Mill.) ☿ N. Granada. Peru. Chili. Has already been introduced at Bombay.—*Nierembergia calycina*, Hook.; B. M. 62, t. 3371. ☿ Buenos Ayres.—*N. gracilis*, Hook.; B. M. 58, t. 3108. ☿ Buenos Ayres.—*N. filicaulis*, Lindl.; B. Reg. 19, t. 1649. ☿ Buenos Ayres.—*Nicotiana cerinthoides*, Hornem. ☉ Country unknown.—*N. Langsdorffii*, Weinm.; B. M. 48, t. 2221, and 52, t. 2555. ☉ Brazil.—*N. humilis*, Lk., not Ehret. ☉ Country unknown.—*N. vinæflora*, Lag. ☿ S. America.—*N. persica*, Lindl., B. Reg. 19, t. 1592. ☉ Persia. Has been introduced at Bombay.—*N. angustifolia*, Ruiz. and Pav. ☉ Chili.—*N. rotundifolia*, Lindl. ☉ Swan-river.—*Petunia parviflora*, Juss. ☿ Mouth of the Plata-river.—*P. violacea*, Lindl.; B. Reg. 19, t. 1626. ☿ Buenos Ayres.—*P. intermedia*, Lindl.; B. Reg. 23, t. 1931. ☿ Buenos Ayres.—*Scopolia carniolica*, Jacq.; B. M. 28, t. 1126. ☿ Bavaria. Austria. Hungary.—*Hyoscyamus pallidus*, Wald. and Kit. ☉ Hungary.—*H. muticus*, L. ♂ Arabia. Egypt.—*H. pusillus*, L. ☉ Egypt.—*H. auriculatus*, Ten. ☉ Naples.—*Triguera ambrosiaca*, Cav. ☉ Spain.—*T. inodora*, Cav. ☉ Spain.—*Lamarckia* (not Mönch.) *coccinea*, Rich. ☿ Cayenne.—? *Meyenia* (not Nees.) *fasciculata*, Schlecht. ☿ Mexico.—? *M. corymbosa*, Schlecht. ☿ Mexico.

ORDER CCX.—CESTRACEÆ, Lindl. Nat. Syst. p. 296.

Shrubs, by Lindl. referred to 4 genera. Of these, Spreng syst. enumerates 36 species for S. America, Mexico, and the W. Indies; 5 of uncertain origin; and 1 (*Cestrum venenatum*, Thunb.) for S. America. *Cestrum oppositifolium*, Lam. is put down as a native of "Africa."

CESTRUM, L. (*G. Don's Mill. dict.* 4, p. 480.)

1. *foetidissimum*, Jacq. (*Schönb.* 3, t. 329;—*G. Don. o. c. p.* 482.) ☿ W. Indies. Fl. $10\frac{1}{2}$ lines, pale greenish-yellowish, nearly the whole year. fr. 0.
2. *laurifolium*, L'Herit. ☿ S. America, Jan. 1840.

* *Cestrum pendulinum*, Jacq. ☿ Caraccas.—*C. vespertinum*, L. ☿ W. Indies.—*C. diurnum*, L. ☿ Havannah.—*C. fastigiatum*, Jacq.; B. M.



42, t. 1729. ♂ W. Indies?—*C. tinctorium*, Jacq. ♂ Caracens.—*C. latifolium*, Lam. ♂ Trinidad.—*C. bracteatum*, Lk. and Otto.; B. M. 57, t. 2974. ♂ Rio Janeiro.—*C. pallidum*, Lam. ♂ Jamaica.—*C. Parqui*, L'Herit; B. M. 42, t. 1770. ♂ Brazil.—*C. alaternoides*, Hort. Paris; B. M. 56, t. 2929. ♂ Trinidad.—*C. hirtum*, Swz. ♂ Jamaica.—*C. macrophyllum*, Vent. ♂ W. Indies.—*Vestia lycioides*, Willd. ♂ Chili.

ORDER CCXI.—GENTIANACEÆ, Lindl. Nat. Syst. p. 296.

THE GENTIAN TRIBE.

Herbs, seldom shrubs, by Lindl. referred to 41, or perhaps, only to 37 genera, "extending over almost all parts of the world, from the regions of perpetual snow upon the summits of the mountains of Europe, to the hottest sands of S. America, and India. They however, do not appear in the Flora of Melville Island, but they form part of that of the Straits of Magellan." (Lindl.) Spreng. syst. enumerates about 100 species for S. America and Mexico; 50 for Europe; 40 for N. America; 26 for New Holland and Van Diemen's Land; 20 for Siberia; 10 for Tauria, Caucasus, and Altai; 2 for Madagascar; 2 for Japan; 1 for Arabia; and 1 for the Azores. In S. Africa have been found 30 species; and in the E. Indies, according to D. Don. and Wall. Cat., about 68, viz. 10 of *Gentiana*; 2 of *Pneumonanthe*; 5 of *Ericala*; 3 of *Eurythalia*; 2 of *Crawfordia*; 9 of *Swertia*; 3 of *Agathotes*; 6 of *Ophelia*; 1 of *Halenia*; 1 of *Erythraea*; 8 of *Canscora*; 9 of *Exacum*; 1 of *Slevogtia*; 2 of *Mitrolea*; 1 of *Mitrasacme*; and 4-5 of *Villarsia*. Of these by far the greater part inhabit the Himalayas, Khassya Mountains, Neelgheries, and other Mountains of both Peninsulas of India and Ceylon. But few are found in the plains, such as *Erythraea centaureioides*; *Canscora diffusa*, *decussata*, *pusilla*, *sessiliflora*; *Exacum tetragonum*, *pedunculatum*; *Slevogtia verticillata*; *Villarsia indica*, *cris-tata*, &c.

"The intense bitterness of the Gentian is a characteristic of the whole order. It resides both in the stems and roots, and renders them tonic, stomachic, and febrifugal; and it is very remarkable that there are no exceptions to these properties in the whole order, as it is now limited." (Lindl.)

AGATHOTES, D. Don. (*G. Don's Mill. dict.* 4, p. 177.)

1. *Cherayta*, D. Don. (*G. Don. l. c.*—*Swertia* Cheyrata, Buch. MSS.—*S. racemosa*, Wall. Cat.—*Gentiana* Cheyrata, Roxb. fl. ind. 2, p. 71; —Wall. pl. as. rar. 3, t. 252;—Röm. and Sch.) चिरता *Chirata*. © Mussooree. Nepal. Kemaon. Fl. smallish, bright yellow. Has been

introduced into H. C. G. Fl. ? In the garden here it has never succeeded.

ERYTHRÆA, Rich. (*G. Don's Mill. dict.* 4, p. 203.)

1. *centaurioides*, (E. Roxburghii, *G. Don. o. c.* p. 206.—*Chironia centaurioides*, *Roxb. fl. ind.* 1, p. 584; *ed. Carey*, 2, p. 283.—*C. carinata*, *Hb. Banks.*) গিমা *Gima*. © Bengal, (Serampore. Monghir,) Himalayas. Fl. small, Jan. and Feb.; fr. March. The fresh, but especially the dried plant, is considerably bitter. (*Roxb.*)

CANSCORA, Lam. (*G. Don's Mill. dict.* 4, p. 198.)

1. *diffusa*, R. Br. (*Prodr.* p. 451, annot.—*G. Don. o. c.* p. 199;—*J. Grah. Cat. B. pl.* p. 123;—*Wall. Cat.*—*C. tenella*, *Wall. Cat.*—*C. foliosa*, *D. Don. in G. Don. l. c.*—*Pladera virgata*, *Roxb. fl. ind.* 1, p. 401; *ed. Carey*, 1, p. 417;—*Cham. and Schlecht. in Linnaea* 1, p. 198;—*Hook. Bot. misc.* 3, p. 89, t. 25.—*P. muralis*, *Herb. Buch.*—*Gentiana diffusa*, *Vahl.*—*Exacum diffusum*, *Willd.*—*E. tenellum*, *Hb. Madras.*—*Flemingia virgata*, *Roxb. Herb.*) © Both Peninsulas of India. Bengal, (Serampore.) Himalyas. Fl. small, rose-coloured, R. and C. S.; fr. C. S.
2. *decussata*, Schult. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 123.—*Pladera decussata*, *Roxb. fl. ind.* 1, p. 402; *ed. Carey*, 1, p. 418;—*B. M.* 58, t. 3066.—*Exacum alatum*, *Roth.*; not *Herb. Heyne.*—*Flemingia decussata*, *Roxb. Herb.*) ডুঙ্কাণি *Dunkuni*. © Both Peninsulas of India. Bengal, (Serampore.) Silhet. Khassya Mountains. Himalayas. Fl. middle-sized, white, R. and C. S.; fr. C. S.
3. *justicioides*, Griff. (MSS. 1836.) © Khassya Mountains. Fl. small, pale rose-coloured or white, C. S.; fr. March.
4. *pusilla*, Schultes; (*G. Don. l. c.*—*Pladera pusilla*, *Roxb. fl. ind.* 1, p. 403; *ed. Carey*, 1, p. 419.—*Hopea dichotoma*, *Vahl.*—*Exacum sessile*, *Willd.*) © Ceylon. Coromandel. Bengal, (Serampore). Delhi. Fl. small, yellow, R. S.; fr. C. S.

SLEVOGTIA, Reichb.

1. *verticillata*, D. Don. (*Adenema hyssopifolium*, *G. Don's Mill. dict.* 4, p. 201.—*Exacum hyssopifolium*, *Willd.*—*Spreng.*—*Gentiana verticillata*, *L. fil.*; *Roxb. fl. ind.* 2, p. 71.—*Hippion hyssopifolium*, *Spreng.*) ছোট কিরাতা *Chhoto-Kirata*. ৭. Coromandel. Bengal, (Serampore). Banks of the Jumna. Fl. small, white, R. S.; fr. C. S.

EXACUM, L. (*G. Don's Mill. dict.* 4, p. 212.)

1. *tetragonum*, *Roxb. (fl. ind.* 1, p. 398; *ed. Carey*, 1, p. 413;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 123;—*Wall. pl. as. rar.* 3, t. 276; not *D. Don.*) কুচুড়ি *Koochuri*. © Bombay. Salsette. Kandalla. Wurgaum. Bengal, (Serampore). Rajmahl. Silhet. Morung. Himalayas. Fl. large, beautifully blue, with gold-coloured anthers, R. and C. S.; fr. C. S.
2. *pedunculatum*, L. (*G. Don. l. c.* excl. syn. *Roxb.* and *Spreng.*—*Wight*,



- icon.* 2, t. 386.—*E. sulcatum*, Roxb. *fl. ind.* 1, p. 400; *ed. Carey*, 1, p. 415;—*G. Don. o. c.* p. 213.—*Sebæa sulcata*, Spreng.) © Bengal, (Serampore.) &c. Fl. bright-blue, C. S.; fr. March.
3. *carinatum*, Roxb. (*fl. ind.* 1, p. 399; *ed. Carey*, 1, p. 415.) © Ceylon. Fl. largish, yellow, C. S.; fr. March.
4. *teres*, Wall. (*Roxb. fl. ind.*; *ed. Carey*, 1, p. 414;—*G. Don. o. c.* p. 212.) © Khassya Mountains. Fl. like those of No. 1, Feb. and March; fr. March.

VILLARSIA, Vent. (*G. Don's Mill. dict.* 4, p. 168.)

1. *indica*, Vent. (*G. Don. l. c.*;—*Hook. bot. misc.* 3, p. 97, t. 30.—*Menyanthes indica*, L.;—*Roxb. fl. ind.* 1, p. 460; *ed. Carey*, 2, p. 31;—*J. Grah. Cat. B. pl.* p. 123, excl. syn. B. M.—*Rheed.* 11, t. 28;—*Rumph.* 6, t. 72, f. 3.) বড় পাণ ফুলী *Buro-pan-choolee*. Indian Buck bean. © Peninsula of India. Moluccas, Bengal, (Serampore,) &c. Fl. middle-sized, with a yellow tube, and a white-bearded limb, R. and C. S.; fr. C. S.
2. *cristata*, Spreng. (*syst.* 1, p. 582;—*J. Grah. Cat. B. pl.* p. 123.—*Menyanthes cristata*, Roxb. *Corom.* 2, t. 105; *fl. ind.* 1, p. 459; *ed. Carey*, 2, p. 29;—*G. Don's Mill. dict.* 4, p. 168;—*Rheed.* 11, t. 29.) ছোট পাণ ফুলী *Chhoto-pan-choolee*. © Peninsula of India, Bengal, (Serampore,) &c. Fl. smallish, white, R. and C. S.; fr. C. S.

* *Eurythalia Amarella*, Borkh. (*Gentiana Amarella*, L.; E. B. 4, t. 236.) © N. Europe.—*E. campestris*, Borkh. (*Gentiana campestris*, L.; E. B. 4, t. 237.) © N. Europe.—*Agathotes alata*, D. Don. © Nepal.—*Ophelia angustifolia*, D. Don. © Nepal.—*Gentiana umbellata*, Bieb. © Caucasus.—*Centaurella astivalis*, Pursh. © Carolina.—*Ericata capitata*, D. Don. © Nepal.—*Schultesia Aubletii*, G. Don. © Guiana. Trinidad, &c.—*Orthostemon erectus*, R. Br. © Tropical N. Holland.—*Chlora perfoliata*, L.; E. B. 1, t. 60. © Europe.—*C. im-perfoliata*, L. © Italy.—*Canscora sessiliflora*, Schult. © Coromandel.—*C. Schultesii*, Wall. © Prome.—*C. perfoliata*, Lam. © Salsette, &c.—*Voyria rosea*, Aubl. 2. Guiana.—*V. cerulea*, Aubl. 2. Guiana.—*Coutoubea spicata*, Aubl. © Guiana.—*Schubleria stricta*, Mart. © Humid places, Brazil.—*Erythræa Centaurium*, Pers. (*Chironia Centaurium*, With.; E. B. 6, t. 417.) © Europe.—*E. maritima*, Pers. © S. Europe, by the sea-side.—*Lisianthus grandiflorus*, Aubl. © Guiana.—*Eustoma exaltatum*, Salisb. © St. Domingo.—*Sebæa cordata*, R. Br. © C. G. H.—*Exacum bicolor*, Roxb. © Salsette. Kandalla. Cuttack.—*E. zeylanicum*, Roxb. © Ceylon. Neelgherries.—*E. grandiflorum*, Wall. © Courtallum.—*E. pleranthum*, Wall. © Tavoy.—*E. Hamiltonii*, G. Don. (*E. tetragonum*, D. Don.; not L.) © Nepal.—*Microcale filiforme*, Lk. (*Exacum filiforme*, Sm.; E. B. 4, t. 235.) © Europe.



ORDER CCXII.—SPIGELIACEÆ, Mart.—Lindl. Nat. Syst. p. 298.

THE WORMSEED TRIBE.

Herbs or undershrubs, by Lindl. referred to 2 genera. Of these Spreng. syst. enumerates 11 species, all natives of S. America, Mexico, and the southern part of N. America. "The root of *Spigelia marilandica* is used in N. America as a vermifuge." (Lindl.)

* *Spigelia fruticulosa*, Lam. 5 Cayenne.—*S. marilandica*, L.; B. M. 3, t. 80. 4. Carolina. Georgia. Maryland.

ORDER CCXIII.—APOCYNACEÆ, Lindl. Nat. Syst. p. 299.

Trees or shrubs, seldom herbs, by Lindl. (excluding *Cryptolepis*, and adding *Epichysianthus*, *Pentalinon*, *Echaltium*, *Calpicarpum*, and *Tanghinia*) referred to 73 genera. Of these, Spreng. syst. enumerates for S. America, Mexico, and the W. Indies, about 126 species; for New Holland and the South Sea Islands 24; for N. America 8; for Madagascar 6; for the Mascarenhas Islands 6; for Europe 5; for Mozambique 4; for Guinea 3; for Arabia 3; for China 2; for Owaree 1; and for the Canaries 1. In S. Africa have been discovered 12 species; (Harvey) and in the E. Indies about 153, viz. 23 of *Echites*; 5 of *Epichysianthus*; 4 of *Ichnocarpus*; 1 of *Beaumontia*; 2 of *Holarrhena*; 3 of *Vallaris*; 7 of *Parsonsia*; 5 of *Apocynum*?; 1 of *Nerium*; 1 of *Echaltium*; 4 of *Strophanthus*; 8 of *Wrightia*; 11 of *Alstonia*; 2 of *Vinca*; 14 of *Tabernaemontana*; 1 of *Plumiera*; 1 of *Urceola*; 1 of *Rejona*; 8 of *Carissa*; 2 of *Melodinus*; 10 of *Strychnos*; 3 of *Cerbera*; 1 of *Calpicarpum*; 1 of *Rauwolfia*; 7 of *Huatera*; 4 of *Alyxia*; 1 of *Ophioxylon*; 5 of *Willughbeia*; 1 of *Leuconotis*; 1 of *Cercocoma*; 1 of *Orchipeda*; 1 of *Copsia*; 1 of *Heylygia*; 2 of *Chilocarpus*; and 1 of *Kitabalia*. The greater part of these prevail in Java, Ceylon, both Peninsulas of India, Bengal, and the Khassya Mountains, whence they extend to the forests bounding Nepal. The order abounds in a milky juice, distinguished, like that of *Asclepiadaceæ*, by its acrid, purgative, febrifugal, and perhaps, more suspicious properties. (Lindl.)

A. ECHITEÆ, Bartl.

ECHITES, L. (*R. Br. in. Wern. soc. 1, p. 59*;—*G. Don's Mill. dict. 4, p. 72.*)

1. *apozys*, (E. *acuminata*, Roxb. *fl. ind. 2, p. 15*, not Ruiz. and Pav. —*Aganosma acuminata*, *G. Don. o. c. p. 77*;—*Wight. icon. 2, t. 424.*)
L. 5 — Silhet. Fl. 10 lines, pale greenish white, fragrant, April and May; fr. Jan. and Feb.



2. *cymosa*, Roxb. (*fl. ind.* 2, p. 16;—*Wight. icon.* 2, t. 395.—*Aganosma cymosa*, *G. Don. l. c.*) 5 Khassya Mountains. Fl. small, dull white, fragrant. In H. C. G.

3. *lisianthiflora*, Bojer. (*Hort. Maurit.* p. 211.) 5 Madagascar.

4. *caryophyllata*, Roxb. (*H. B.* [1814.] p. 20; *fl. ind.* 2, p. 11;—*B. M.* 44, t. 1919, not Bl.—*Aganosma Roxburghii*, *G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 113, excl. Rheed. 7, t. 55;—*Wight. icon.* 2, t. 440;—*Rheed.* 9, t. 14.) L. 5 ∪ Mountains of the Peninsula of India. Bengal. Monghir. গন্ধ মাঝী *Gundho-maltee*. Fl. 15 lines, pure-white, delightfully fragrant, R. S.; fr. 0.

5. *paniculata*, Roxb. (*fl. ind.* 2, p. 17;—*G. Don. o. c. p.* 75;—*Wight. icon.* 2, t. 396; not Poir, which, according to *G. Don. o. c. p.* 74, is perhaps no *Echites* at all.—*E. manubriata*, *Wall. Cat.*) L. 5 ∪ Silhet. Fl. small, cream-coloured, fragrant, March and April; fr. Feb. and March.

EPICHYSIANTHUS, (*Chonemorpha*, *G. Don's Mill. dict.* 4, p. 76, not *Conomorpha*, Alph. DC., the pronunciation of which two words can scarcely be distinguished.)

1. *macrophyllus*, (*Chonemorpha macrophylla*, *G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 113;—*Wight. icon.* 2, t. 432.—*Echites macrophylla*, *Roxb. fl. ind.* 2, p. 13; not H. B. and Kth.) L. 5 ∪ Silhet. Fl. very large, white, May and June; fr. March and April.

PENTALINON, (*Corolla infundibuliformis*; tubo basin versus constrictio; laciniis profundis, inæquilateris. Antheræ medio stigmatis coherentes; lobis postice epolliniferis; connectivo in processum loriformem, e basi angustissima subdilatatum longe producto. Glandulæ hypogynæ 5. Stylus unicus, clavatus, in annulum infra stigma dilatatus, apice bi-apiculatus. Ovaria 2. Folliculi—Genus *Epichysiantho* propinquum, processibus autem connectivi discrepans.

1. *suberectum*, (*Echites suberecta*, *Jacq. amer.* 32, t. 26;—*B. M.* 27, t. 1064.—*Hæmadictyon suberectum*, *G. Don's Mill. dict.* 4, p. 83.—*Nerium sarmentosum*, &c. *Browne jam.* 180.—*Apocynum erectum*, fruticosum, &c. *Sloane jam.* 89, *hist.* 1, p. 206, t. 130, f. 2.) 5 ∪ Savannas of Jamaica and St. Domingo. Fl. 2½ inches, bright yellow, inodorous, R. and C. S. especially; fr. 0.

ICHNOCARPUS, R. Br. (*Mem. Wern. soc.* 1, p. 62;—*G. Don's Mill. dict.* 4, p. 78.)

1. *frutescens*, R. Br. (*Hort. Kew. ed.* 2, vol. 2, p. 69;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 113;—*Wight. icon.* 2, t. 430.—*Echites frutescens*, *Roxb. fl. ind.* 2, p. 12;—*Burm. zeyl.* t. 12, f. 1.—*Apocynum frutescens*, L.) श्यामा लता *Shyama-luta*. 5 ∪ Both Peninsulas of India. Bengal, (Scrapore.) Silhet. Sirmore. Kemaon. Fl. 5 lines, greenish-white, sweet-scented, R. S.; fr. C. S.

2. *fragrans*, Wall. (*Cat.*;—*G. Don. l. c.*) 5 ∪ Nepal. Kemaon. In H. C. G. Fl. ?

BRAUMONTIA, Wall. (*G. Don's Mill. dict.* 4, p. 77.)

1. *grandiflora*, Wall. (*Tent. fl. nep.* p. 14, t. 7;—*B. Reg.* 11, t. 911;—*G. Don. l. c.*;—*B. M.* 60, t. 3213;—*J. Grah. Cat. B. pl.* p. 113.—*Echites grandiflora*, *Roxb. fl. ind.* 2, p. 14, not Meyer, nor Roth.) L. 5 ½ Chittagong. Khassya Mountains. Nepal. Fl. 4-5 inches, white, with the tube and lower part of the faux greenish-yellowish, sweet-scented, Feb. and March; fr. C. S.

HOLARRHENA, R. Br. (*Mem. Wern. soc.* 1, p. 62;—*G. Don's Mill. dict.* 4, p. 78.)

1. *antidysenterica*, Wall. (*Cat.*—*Echites antidysenterica*, *Roxb. H. B.* p. 20.—*Chonemorphia antidysenterica*, *G. Don. o. c.* p. 76;—*Wight icon.* 2, t. 439.) 5 Chittagong. Silhet. Nepal. In H. C. G. fl. Feb. to May; fr. Oct. and Nov. (*Roxb.*) Has been cultivated in the garden here for five years, without fl.

2. *pubescens*, Wall. 5 Burma. 1827.

VALLARIS, Burm. (*R. Br. Mem. Wern. soc.* 1, p. 63;—*G. Don's Mill. dict.* 4, p. 78.)

1. *pergularius*, Burm. (*ind.* p. 51;—*G. Don. o. c.* p. 79;—*Wight icon.* 2, t. 429.—*Pergularia glabra*, L.;—*Willd.*—*Houtt. Linn. pl. syst.* 3, p. 335, t. 20, f. 1.—*Echites hircosa*, *Roxb. fl. ind.* 2, p. 18.—*Flos pergularius*, *Rumph.* 5, t. 21, f. 2.—*Emericia Pergularia*, *Röm. and Sch. syst.* 4, p. 40.) 5 ½ Moluccas. Java. Bengal. Fl. middle-sized, of a goatish smell, May and June; fr. O.

2. *dichotomus*, Wall. (*Cat.*;—*G. Don. l. c.*;—*Wight icon.* 2, t. 438.—*Echites dichotoma*, *Roxb. fl. ind.* 2, p. 19;—*J. Grah. Cat. B. pl.* p. 113, No. 857, excl. syn. Don;—not H. B. and Kth. nor Roth.) হাপুরমালী *Hapurmalee*. L. 5 ½ Taong-Dong. Banks of the Irawaddi. Bengal, (Serampore.) Silhet. Hindoosthan. Nepal. Fl. middle-sized, white, pleasantly fragrant, C. and H. S.; fr. C. S.

PARSONSIA, R. Br. (*Mem. Wern. soc.* 1, p. 64; *pr.* p. 465;—*G. Don's Mill. dict.* 4, p. 79.)

1. *spiralis*, Wall. (*Cat.*;—*G. Don. o. c.* p. 80.) 5 ½ Khassya Mountains. Fl. middle-sized, green, inodorous, R. S.; fr. O.

NERIUM, L. (*R. Br. Mem. Wern. soc.* 1, p. 71;—*G. Don's Mill. dict.* 4, p. 84.)

1. *odorum*, Ait. (*Roxb. fl. ind.* 2, p. 2;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 114.—*N. odoratum*, *Lam.*—*N. indicum*, *Mill. dict.* No. 2.—*N. Oleander*, *Lour.*; not L.) *Sweet-scented Oleander*, L. 5 China. Cochin-China. Common in gardens. Fl. 1½-2 inches, sweet-scented, nearly throughout the year; fr. O.

α. *rubro-simplex*. রক্ত করুবী *Rukto-Kurubee*. Fl. single, deep-red.

β. *albo-simplex*. (Rheed. 9, t. 2.) শ্বেত করুবী *Shwet-Kurubee*. Fl. single, white.

γ. *roseolo-simplex*. (*B. M.* 46, t. 2032.) Fl. single, white, tinged with rose.



৪. *roseo-plenum*. (Rheed. 9, t. 1;—B. M. 43, t. 1799;—B. Reg. 1, t. 74.) লাল পাছ করবী *Lal-pudmo-Kurubee*. Fl. double, beautiful rose-coloured.

৫. *albo-plenum*. স্বেত পাছ করবী *Shwet-pudmo-Kurubee*. Fl. double, white, with a yellow throat.

ECHALTIUM, Wight. (*icon*. 2, t. 472.) Khassya name: *Echalut*.

1. *piscidium*, Wight. (*icon*. l. c.—*Nerium piscidium*, Roxb. *fl. ind.* 2, p. 7.—*Wrightia? piscidia*, G. Don's *Mill. dict.* 4, p. 86.) L. ১৮ Khassya Mountains. Fl. large, pale yellow, May and June; fr. Jan. and Feb. The bark contains a great deal of fibrous matter, used by the natives as a substitute for hemp. In steeping some of the young shoots in a fish-pond, in order to hasten the removal of the bark, and cleaning the fibres, many, if not all, the fishes were killed. Hence the specific name. (Roxb.)

STROPHANTHUS, DC. (*R. Br. Mem. Wern. soc.* 1, p. 72;—G. Don's *Mill. dict.* 4, p. 84.)

1. *dichotomus*, DC. (*B. Reg.* 6, t. 469;—G. Don. *o. c.* p. 85, excl. syn. *Echites dichotoma*, Roxb. *H. B.* p. 20, which is *Vallisneria dichotoma*, Wall.;—*J. Grah. Cat. B. pl.* p. 114.—*S. terminalis*, Bl.—*Nerium caudatum*, Roxb. *fl. ind.* 2, p. 9.—*Echites caudata*, L.;—*Burm. ind.* t. 26.—*Nerium scandens*, Lour.) ১৮ Coromandel, Khassya Mountains, &c. Fl. above 2 inches, greenish-white, the throat crimsoned with streaks and dots, H. S.; fr. 0.

WRIGHTIA, R. Br. (*Mem. Wern. soc.* 1, p. 73;—G. Don's *Mill. dict.* 4, p. 85.)

1. *antidysenterica*, R. Br. (*o. c.* p. 74;—G. Don. *l. c.*; excl. syn. *Burm. zeyl.* t. 77;—*J. Grah. Cat. B. pl.* p. 114.—*Nerium antidysentericum*, L.;—Roxb. *H. B.* p. 19; excl. annot. 28, which is *Holarrhena antidysenterica*, Wall.—Lour.;—Rheed. 1, t. 47.) 5 The Ghauts and hilly parts of the Concan. Fl. 2 inches, pure white, sweet-scented, March and April; fr. Jan. and Feb. The bark of this tree is called *Cortex Conessi*, s. *profluvii*, s. *Codaga-pala*, and is by the natives considered a specific in dysenteries and bowel complaints.

2. *tinctoria*, B. Br. (*l. c.*;—G. Don. *o. c.* p. 86;—*J. Grah. Cat. B. pl.* p. 114;—Wight *icon*. 2, t. 444.—*Nerium tinctorium*, Roxb. *fl. ind.* 2, p. 4.—*Burm. zeyl.* t. 77.) 5 Ceylon, Coromandel, &c. Fl. above 2 inches, pure white, fragrant, March, April and May; fr. Jan. and Feb. Wood remarkably white, close-grained, very beautiful in appearance, coming near ivory, used for planking, in much repute among turners and escritoire makers. A kind of Indigo exudes from the bruised leaves. (Lour. Roxb.)

3. *tomentosa*, Röm. and Sch. (G. Don. *l. c.*;—*J. Grah. Cat. B. pl.* p. 114;—Wight *icon*. 2, t. 443.—*Nerium tomentosum*, Roxb. *fl. ind.* 2, p. 6;—Rheed. 9, t. 3, 4.) 5 Circars, Concan, Segaeen, Martaban, Tavoy. Fl. largish, yellowish-white, with an orange-coloured throat,

faintly smelling of rhubarb, April, May and June; fr. 0. "With the yellow juice, flowing from the wounded plant, diluted with water, bits of cotton cloth were dyed a pretty good yellow, which still continues bright as at first, now two years." (*Roxb.*)

4. *mollissima*, Wall. (*pl. as. rar.* 2, t. 146;—*G. Don. l. c.*) 5 Deyra-Dhoon, Kemaon. Fl. largish, yellowish, tinged with reddish, April and May; fr. 0.

5. *coccinea*, Sims. (*B. M.* 53, t. 2696;—*B. Cab. t.* 894;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 114;—*Wight. icon.* 2, t. 442.—*Nerium coccineum*, *Roxb. fl. ind.* 2, p. 2.) L. 5 Khassya Mountains. Fl. 17 lines long, expanded $2\frac{1}{4}$ inch in diameter, internally deep orange-red, externally green, richly pine-apple-scented, the faux crimson, April; fr. 0. Wood white, remarkably light but firm, and much used by turners to make palkees, &c. (*Roxb.*)

ALSTONIA, R. Br. (*Mem. Wern. soc.* 1, p. 75;—*G. Don's Mill. dict.* 4, p. 86.)

1. *scholaris*, R. Br. (*o. c. p.* 76;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 115, excl. syn. Labill;—*Wight. icon.* 2, t. 422.—*Echites scholaris*, L.;—*Roxb. H. B.* p. 20;—*Rheed.* 1, p. 81, t. 45;—*Rumph.* 2, t. 82.)

ছাতিন *Chhatin*. L. 5 Moluccas. Coromandel. Hilly parts of the Concan. Vale of Sawetree, between Poladpore and the Ghauts. Bengal, (Serampore,) &c. northwards as far as Mirzapore. Fl. small, greenish-white, Feb.; fr. C. S. Bark powerfully tonic, a rustic medicine in bowel complaints. (*Nimmo.*)

2. *macrophylla*, Wall. (*Cat.*;—*G. Don. o. c. p.* 87.) 5 Penang. Fl. large, white, H. S.; fr. C. S.

3. *neriifolia*, D. Don. (*pr. fl. nep.* p. 131;—*G. Don. l. c.*) 5 Nepal. Fl. large, pure white, with a pale greenish throat, and fr. nearly throughout the year.

4. *venenata*, R. Br. (*o. c. p.* 77;—*G. Don. l. c.*;—*Wight icon.* 2, t. 436.—*Echites venenata*, *Roxb. H. B.* p. 20.) 5 Peninsula of India. Fl. large, pure white, and fr. nearly throughout the year.

5. *spectabilis*, R. Br. (*o. c. p.* 76.—*Bl. bijdr.* p. 1038.) 5 Penang. Rumph's fig. under *A. scholaris* belongs rather to this.

VINCA, L. (*G. Don's Mill. dict.* 4, p. 95.)

1. *major*, L. (*G. Don. o. c.*;—*E. B.* 8, t. 514.—*V. media*, *Delile.*—*Pervinca major*, *Scop.*) Great Periwinkle. 2, England. S. Europe, &c. Fl. large, of a fine purplish blue colour, C. S.; fr. 0.

2. *herbacea*, Waldst. and Kit. (*G. Don. l. c.*;—*B. M.* 45, t. 2002.) 2, Hungary. Fl. large, purplish-blue. Lately introduced.

3. *rosea*, L. (*Gärtn. fr.* 2, p. 172, t. 117, f. 5;—*B. M.* 7, t. 248;—*Lour.*;—*Roxb. fl. ind.* 2, p. 1.—*Catharanthus roseus*, *G. Don's Mill. dict.* 4, p. 95;—*J. Grah. Cat. B. pl.* p. 115.) गजकिंकिरी *Gulphiringee*. 5 China. Cochin China. Common in gardens. Fl. largish, rose-coloured, and fr. nearly throughout the year.

β. *albiflora*. Fl. white.



TABERNÆMONTANA, Plum. (*G. Don's Mill. dict.* 4, p. 87;—*R. Br. pr.* p. 467.)

1. *coronaria*, R. Br. (*Ait. Hort. Kew. ed.* 2, vol. 2, p. 72;—*G. Don. o. c.* p. 90;—*Roxb. H. B.* p. 20; *fl. ind.* 2, p. 23;—*B. Reg.* 13, t. 1064;—*B. Cab. t.* 406;—*J. Grah. Cat. B. pl.* p. 115;—*Wight. icon.* 2, t. 477.—*T. divaricata*, R. Br.;—*Röm. and Sch.*—*Nerium coronarium*, *Ait.*;—*Jacq. icon. rar.* 1, t. 52;—*Roxb. H. B.* p. 19.—*N. divaricatum*, L.; *fl. zeyl.*;—*Rheed.* 2, t. 55.) ফিরকি টেগুর *Phirki-tugur*. 5 Moluccas. Manilla. Ceylon. Both Peninsulas of India. Bengal, (Serampore.) Silhet. Nepal. Fl. 2 inches, pure white, fragrant, the tube bright yellow within, H. and R. S.; fr. C. S.
- β. *plena*, Roxb. (*Nerium coronarium*, *B. M.* 44, t. 1865.—*Rheed.* 2, t. 54;—*Rumph.* 4, t. 39.) বড় টেগুর *Bura-tugur*. Fl. double, very fragrant during the night. More common in gardens than α.
2. *recurva*, Roxb. (*fl. ind.* 2, p. 26;—*G. Don. o. c.* p. 91;—*Wight. icon.* 2, t. 476.—*T. gratissima*, *Lindl.*; *B. Reg.* 13, t. 1084.) 5 Chittagong. Fl. large, yellowish-white, March and April; fr. O.
3. *crispa*, Roxb. (*fl. ind.* 2, p. 24;—*G. Don. l. c.*;—*Wight. icon.* 2, t. 470.—*T. alternifolia*, L. which by a misprint, is put down in Roxb. l. c. as a species instead of a syn.;—*J. Grah. Cat. B. p. pl.* p. 115, excl. syn. R. Br.—*Rheed.* 1, p. 83, t. 46. (bad.) 5 Coromandel. Fl. 15 lines, pure white, with a greenish tube, fragrant, April, May and June; fr. O.
4. *dichotoma*, Roxb. (*fl. ind.* 2, p. 21;—*G. Don. l. c.*;—*Wight. icon.* 2, t. 433;—*J. Grah. Cat. B. pl.* p. 115?) 5 Ceylon. Malabar. Fl. nearly 2 inches, yellowish-white, slightly fragrant, nearly throughout the year; fr. C. S.; but seldom. Very much like *T. laurifolia*, L.; *B. Reg.* 9, t. 716.
5. *micrantha*, (*T. parviflora*, *Roxb. fl. ind.* 2, p. 25; not Poir; nor *Nouv. ann. mus.* 3, p. 379.) 5 Sumatra. Fl. small, white, R. S.; fr. O. (*Roxb.*)
6. *rugosa*, Wall. 5 Ava.

UROBOLA, Roxb. (*Asiat. res.* 5, p. 169, not Vandelli.)

1. *elastica*, Roxb. (o. c. with a plate at p. 167;—*Wight. icon.* 2, t. 473;—*G. Don's Mill. dict.* 4, p. 92, where it is strangely enough placed as a syn. of *Vahea gummifera*, Poir.—*Tabernæmontana elastica*, *Spreng. syst.* 1, p. 639.) 5 Sumatra. Penang. Fl. minute, dull greenish. Has been introduced into H. C. G. Fl. ? The juice issuing from this shrub is one of those which constitutes *Caoutchouc*.

PLUMIERA, Tournef. (*G. Don's Mill. dict.* 4, p. 93)

1. *rubra*, Jacq. (*Amer. p.* 35. *pict. p.* 23;—*L. hort. cliff.* p. 76; *spec.* 306;—*G. Don. l. c.*;—*B. M.* 8, t. 279.) 5 Jamaica. Surinam. S. America. Fl. large, red, very sweet-scented, so much so, that the women of S. America put them among linen to scent it, as we do lavender. Introduced in 1841.

2. *alba*, Jacq. (*Amer.* 36, t. 174, f. 12; *ed. pict.* t. 38;—*L. sp.*;—*G. Don. l. c.*;—*Roxb. H. B.* p. 20.) 5 West Indies, S. America. Fl. large, white, with a yellowish tube and throat, very fragrant, or, as *L.* says, "ambrosiaca, exciting cephalalgia," May, June and July; fr. O.
3. *acuminata*, Ait. (*G. Don. o. c.* p. 94; *B. Reg.* 2, t. 114;—*Roxb. fl. ind.* 2, p. 20;—*J. Grah. Cat. B. pl.* p. 115;—*Wight. icon.* 2, t. 471. —*P. acutifolia*, *Poir.*—*P. obtusa*, *Lour.*, not *L.*—*Rumph.* 4, t. 38.) गुला चीन *Goola-cheen.* (Hind.) গোবুরিয়া চাঁপা *Goburiya-champa.* 5 Cultivated in China, Cochin-China, India, the Moluccas, &c. where it is thoroughly domesticated. It is, however, no doubt, with the other *Plumieras* a native of S. America or the W. Indies. Fl. large, reddish-yellowish-white, fragrant, especially during the night. H. and R. S.; fr. O, or very rare.

ALLAMANDA, *L. (Mill. det. ed. G. Don. 4, p. 102.)*

1. *cathartica*, *L. (Mant.* 214;—*Gärtn. fr.* 1, p. 293, t. 61, f. 4;—*B. M.* 10, t. 338;—*Roxb. H. B.* p. 19.—*A. oenotheræfolia*, *Pohl.*;—*G. Don. o. c.* p. 103.—*A. Schottii*, *Pohl.*;—*G. Don. l. c.*—*A. angustifolia*, *Pohl.*;—*G. Don. l. c.*—*A. Linnæi*, *Pohl.*;—*G. Don. l. c.*—*A. Aubletii*, *Pohl.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 116.—*A. verticillata*, *Desf.*;—*Pohl.*;—*G. Don. l. c.*) 5 Guiana. Brazil. Surinam. W. Indies. Fl. very large, bright yellow, fragrant, and fr. throughout the year.

This shrub was introduced from Guiana into India in 1803, and is now very common in gardens. Stems erect, larger branches hollow in the middle; smaller ones and young shoots filled with thick viscid milk, glabrous, in a dried state fistulous. Leaves mostly 4, sometimes 6, 5 or 3 in a whorl, or only 2, opposite, sub-opposite or alternate; they are oblong, 2.4-5 inches long, $\frac{1}{2}$ -1.2 wide across the middle, acuminate, acute, towards base cuneately attenuated, now and then oblong-obovate, acutish, at margins revolutely undulated, above dark green and glabrous, underneath pale green and when badly dried brown-spotted, roughish hairy along the midrib and primary veins, or only very little so along the first, or over the whole surface. Of this characteristic there is more than enough to form six such species as *Pohl's*, which being made exclusively from unimportant leaf-discrepancies, are good for nought. His one climbing species has not been discovered here, but were a specimen of *Allamanda* placed close to a tree, it might, perhaps, like a *Clerodendron phlomoides* in our garden, take a fancy to ascend a pretty large *Coccoloba uvifera*.

- * *Echites umbellata*, Jacq. (Jamaica.—*E. biflora*, Jacq. (W. Indies.—*E. domingensis*, Swz. 5 (St. Domingo. Jamaica.—*E. trifida*, Jacq. 5 (Cumana.—*E. rhynchosperma*, Wall. pl. as rar. 1, t. 49. 5 (Martaban.—*E. Blumii*, (*E. earyophyllata*, Bl. not *Roxb.*—*Rheed.* 7, t. 55.) 5 (Java.—*E. marginata*, *Roxb.* (*Aganosma marginata*, *G. Don.*;—*Wight. icon.* 2, t. 425.) 5 (Silhet.—*E. parviflora*,



Roxb.; Wight, icon. 2, t. 423. 5 N. Circars.—*Hæmadictyon venosum*, Lindl. (Echites nutans, B. M. 51, t. 2473.) 5 St. Vincent.—*Isonema Smeathmanni*, R. Br. 5 Tropical Africa, on the W. Coast.—*Parsonsia corymbosa*, R. Br. 5 St. Domingo, in woods.—*P. floribunda*, R. Br. 5 Jamaica.—*P. spicata*, R. Br. 5 Carthage.—*P. velutina*, R. Br. 5 Tropical N. Holland.—*P. mollis*, R. Br. 5 Tropical N. Holland.—*P. lanceolata*, R. Br. 5 Tropical N. Holland.—*Apocynum androsæmifolium*, L.;—B. M. 8, t. 280. 4 Carolina.—*Thenardia floribunda*, H. B. and Kth. 5 City of Mexico.—*Prestonia tomentosa*, R. Br. 5 Rio Janeiro.—*Balfouria satigna*, R. Br. 5 Tropical N. Holland.—*Nerium Oleander*, L. 5 S. Europe.—*Wrightia zeylanica*, R. Br. Burm. zeyl. t. 12, f. 2. 5 Ceylon.—*Alstonia spectabilis*, R. Br. 5 Java.—*A. spathulata*, Bl. 5 Java.—*A. costata*, R. Br. 5 Penang.—*Vinca minor*, L.;—E. B. 13, t. 1917. 4 England. S. Europe.—*Tabernaemontana orientalis*, R. Br. 5 Tropical N. Holland.—*T. pubescens*, R. Br. 5 Tropical N. Holland.—*T. ebracteata*, R. Br. 5 Tropical N. Holland.—*T. citrifolia*, L. 5 W. Indies.—*T. odorata*, Vahl. 5 Guiana.—*T. grandiflora*, Jacq. 5 Carthage.—*T. amygdalifolia*, Jacq.; B. Reg. 4, t. 338. 5 Carthage.—*T. persicariæfolia*, Jacq. 5 Mauritius.—*T. mauritiana*, Poir. 5 Mauritius.—*T. corymbosa*, Roxb. 5 Penang.—*T. laurifolia*, L.; B. Reg. 9, t. 716.—*T. densiflora*, Wall.; B. Reg. 15, t. 1259. 5—*Vahea gunnifera*, Poir. 5 Madagascar.—*Cameraria latifolia*, Jacq. 5 Jamaica.—*Plumiera Kerii*, G. Don. (P. tricolor, Ker.; B. Reg. 6, t. 510. not Ruiz. and Pav.) 5 Mexico.—*P. pudica*, Jacq. 5 Curaçao.—*P. Lambertiana*, Lindl.; B. Reg. 16, t. 1378. 5 Mexico.—*P. tuberculata*, Lodd. B. Cab. t. 681. 5 St. Domingo.—*Aspidosperma bicolor*, Mart. 5 Brazil.

B. CARISSEÆ, Bartl.

CARISSA, L. (R. Br. pr. p. 468;—G. Don's Mill. dict. 4, p. 104.)

1. *Carandas*, L. (Mant. p. 52;—G. Don. l. c.;—Lam. ill. t. 118, f. 1.—Ann. mus. 8, t. 32, f. 2.—Roxb. Corom. 1, t. 77; fl. ind. 1, p. 687; ed. Carey, 2, p. 523;—J. Grah. Cat. B. pl. p. 116;—Wight, icon. 2, t. 426.—Capparis Carandas, Gmel.—Echites spinosa, Burm. ind. p. 69.—Carandas, Rumph. auct. t. 25.) কুম্ভী Kurumcha. L. 5 Moluccas. Both Peninsulas of India, Bengal, (Serampore.) Hindoosthan. Lower Kemaon. Fl. middle-sized, pure-white, inodorous, Feb. March and April; fr. July and August. Makes, on account of its strong sharp thorns, exceedingly strong fences. Fruit employed to make tarts, and preserves of various kinds, also pickles, and by most people reckoned superior for these uses, to every other fruit in the country, not even the mango excepted. (Roxb.)
2. *diffusa*, Roxb. (fl. ind. 1, p. 689; ed. Carey, 2, p. 524;—G. Don. l. c.;—Wight, icon. 2, t. 427.) 5 Ganjam district. Soonderbuns. Fl. 9 lines, pure white, inodorous. H. and R. S.; fr. 0.

3. *villosa*, Roxb. (*H. B.* [1814,] p. 19; *fl. ind.* 1, p. 690; *ed. Carey*, 2, p. 525;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 116;—*Wight. icon.* 2, t. 437.—*C. hirsuta*, Heyne; *Roth. nov. sp.* p. 128.) 5 Hills eastward of Belgaum. Kyouk Talong, Irawaddi. Fl. small, white, March, April and May; fr. R. S.

4. *ovata*, R. Br. 5 Tropical N. Holland.

ARDUINA, L.

1. *bispinosa*, L. (*Mant.*—*B. Cab.* 4, t. 387.) S. Africa.

MELODINUS, Forst. (*G. Don's Mill. dict.* 4, p. 101.)

1. *monogynus*, Roxb. (*fl. ind.* 2, p. 56;—*G. Don. l. c.*;—*B. Reg.* 10, t. 834;—*B. M.* 52, t. 2527;—*Wight. icon.* 2, t. 394.) L. 5 ˘ Silhet. Fl. largish, white, fragrant, March, and April; fr. Oct. and Nov. Pulp of the berries sweetly agreeable, eaten by the natives. (*Roxb.*)

STRYCHNOS, L. (*R. Br. pr.* p. 469;—*G. Don's Mill. dict.* 4, p. 64.)

1. *Nux vomica*, L. (*Gärtn. fr.* 2, p. 476, t. 179, f. 7;—*G. Don. o. c.* p. 65;—*Roxb. Corom.* 1, t. 4; *fl. ind.* 1, p. 575; *ed. Carey*, 2, p. 261;—*J. Grah. Cat. B. pl.* p. 112;—*Rheed.* 1, p. 37.) कूचिला *Koochila*. 5 Martaban, Coromandel. Hilly parts of the Concan. Fl. small, greenish-white, Feb.; fr. O. Wood hard, durable, used for many purposes by the natives. It is exceedingly bitter, particularly that of the root, which is used to cure intermitting fevers, and the bites of venomous snakes. Seeds employed in the distillation of country spirits to render them more intoxicating. The pulp of the fruit seems perfectly innocent, as it is greedily eaten by many sorts of birds. (*Roxb.*) *Strychnine*, an alcoholic extract of the seeds, has been found a powerful remedy in palsies.

2. *potatorum*, L. (*G. Don. l. c.*;—*Roxb. Corom.* 1, t. 5; *fl. ind.* 1, p. 576; *ed. Carey*, 2, p. 263;—*J. Grah. Cat. B. pl.* p. 112.) निर्मूली *Nirmulee*.—*Clearing Nut*. 5 Coromandel. Hilly parts of the Concans. Adjunta Jungles. Banks of the Kalinadi River, South Mahratta Country. Hills about Parr. The Ghauts generally. Prome. Fl. small, greenish-yellow, fragrant, April; fr. O. (*Roxb.*) In the garden here it has been more than twelve years without fl. The ripe seeds are dried and sold in every bazar to clear muddy water. One of the seeds is well rubbed for a minute or two round the inside of the vessel containing the water, generally an unglazed earthen one. In a very short time the impurities fall to the bottom, leaving the water clear, and perfectly wholesome. (*Roxb.*)

3. *spinosa*, Lam. (*Ill. No.* 2449;—*Poir. dict.* 8, p. 697;—*G. Don. l. c.*) 5 Madagascar. Fl. small, greenish-whitish, H. S.; fr. O.

4. *colubrina*, L. (*G. Don. l. c.*;—*Roxb. fl. ind.* 1, p. 577; *ed. Carey*, 2, p. 264;—*Wight. icon.* 2, t. 434.—*J. Grah. Cat. B. pl.* p. 112. excl. *Rheed.* 7, t. 5. and *Rumph.* 2, t. 38.—*Rheed.* 8, t. 24.) कूचिला लता *Koochila-luta*. L. 5 ˘ S. Concan. Coromandel. Khassya Mountains.



Fl. small, greenish-yellow. In H. C. G. fl. April; fr. Sept. Oct. and Nov. (*Roxb.*)

5. *axillaris*, Colebr. 5 ∪ Khassya Hills.

* *Carissa ovata*, R. Br. 5 Tropical N. Holland.—*C. lanceolata*, R. Br. 5 Tropical N. Holland.—*Ambellania acida*, Aubl. 5 Guiana.—*Hancornia speciosa*, Gomez. 5 Brazil.—*Landolphia ovariensis*, Beauv. 5 Guinea.—*Rouhamon guianensis*, Aubl. 5 ∪ Guiana.—*Strychnos St. Ignatii*, Berg. 5 ∪ Cochin China, Philippine Islands.—*S. lucida*, R. Br. 5 Tropical N. Holland.—*S. madagascariensis*, Pet. Th. 5 Madagascar.—*S. tjeate*, Leschen. 5 ∪—*S. bicirrhus*, Leschen. 5 ∪ Tanjore. Ravines at Kandalla. Purr Ghaut.

C. RAUWOLFIIÆ, Bartl.

CERBERA, L. (*G. Don's Mill. dict.* 4, p. 97; excl. *Thevetia*, Juss. ann. mus.)

1. *Odallam*, Gärtn. (*fr.* 2, p. 193, t. 124, f. 1; by a mistake spelled *Odollam*.—*Roxb. fl. ind.* 1, p. 692; *ed. Carey*, 2, p. 526;—*J. Grah. Cat. B. pl.* p. 116;—*Wight. icon.* 2, t. 441.—*C. Manghas*, Sims.; *B. M.* 43, t. 1845; not L.—*Tanghinia Odollam*, *G. Don's Mill. dict.* 4, p. 98.—*Odallam*, *Rheed.* 1, t. 39.) L. 5 Salt swamps on the coast of Malabar and the S. Concan. Common on the Maldive and Laccadive Isles. Fl. 1½ inch, white, fragrant, and fr. nearly throughout the year. Wood remarkably soft, spongy, and white.

2. *Manghas*, L. (*fl. zeyl.* p. 106;—*Gärtn. fr.* 2, p. 192, t. 123 and 124;—*Roxb. fl. ind.*; *ed. Carey*, 2, p. 529.—*C. quaternifolia*, *Roxb. H. B.* p. 19.—*C. Lactaria*, *Buch.*—*Manghas lactescens*, *Burm. zeyl.* t. 70, f. 1.—*Tanghinia Manghas*, *G. Don's Mill. dict.* 4, p. 98.—*Arbor Lactaria*, *Rumph.* 2, t. 81.) L. 5 Moluccas, Singapore. Penang. Tenasserim. Martaban. Pegu. Fl. largish, white, inodorous. (*Rumph.*) In H. C. G. Fl.?

3. *parviflora*, Forst. (*pr. No.* 121;—*Hook. and Arn. in Beech. voy pt. bot.* p. 90;—*Wall. Cat.*—*Ochrosia parviflora*, *G. Don's Mill. dict.* 4, p. 99.) 5 Sandwich Islands, Singapore. In H. C. G. Fl.?

THEVETIA, Juss. (*Ann. Mus.* 15, p. 346.)

1. *nereifolia*, Juss. (*Cerbera Thevetia*, L.;—*Jacq. amer.* 48, t. 34;—*B. M.* 49, t. 2309;—*G. Don. o. c.* p. 97;—*J. Grah. Cat. B. pl.* p. 116.—*Ahouai nerii folio, flore luteo*, *Plum. Cat. pl. amer.* p. 20, t. 18.) 5 New Granada. Mexico. Cuba. Martinique, &c. Domesticated about Serampore. Fl. 2½ inches, bright yellow, sweet-scented, and fr. throughout the year.

CALPICARPUM, G. Don. (*Mill. dict.* 4, p. 100.)

1. *Roxburghii*, G. Don. (*l. c.*—*Wight icon.* 2, t. 431.—*Cerbera fruticosa*, *Roxb. fl. ind.* 1, p. 691; *ed. Carey*, 2, p. 526;—*B. Reg.* 5, t. 391.) 5 Pegu. Fl. 2½ inches, pale rose, at the base and throat bright red, nearly throughout the year; fr. rare.



TANGHINIA, Pet. Th. (*Bojer. in Hook. bot. misc.* 3, p. 290, t. 110.—*G. Don's Mill. dict.* 4, p. 97.)

1. *venenifera*, Poir. (*Bojer. l. c.*;—*G. Don. o. c.* p. 98, under *Tanghinia veneniflora*.—*Cerbera Tanghin. Poir*;—*B. M.* 57, t. 2968.) 5 Madagascar, of which it is the famous ordeal tree. In *H. C. G. Fl.* 1½ inches, pale rose-coloured, with a deep scarlet throat and a pale green tube; *H. S.* ? fr. 0.

HUNTERIA, Roxb. (*G. Don's Mill. dict.* 4, p. 105.)

1. *corymbosa*, Roxb. (*fl. ind.* 1, p. 695; *ed. Carey*, 2, p. 531;—*G. Don. l. c.*;—*Wight. icon.* 2, t. 428.) 5 Penang. *Fl.* small, white, May; fr. 0.

RAUWOLFIA, Plum.

1. *canescens*, L. 5 Jamaica.

ALYXIA, Banks. (*Herb. from R. Br. pr.* p. 469;—*G. Don's Mill. dict.* 4, p. 96.)

1. *stellata*, Röm. and Sch. (*syst.* 4, p. 439;—*G. Don. l. c.*—*Gynopogon stellatum, Forst. pr. No.* 117; *ch. gen.* p. 36, t. 18;—*Labill. sert. cal.* p. 30, t. 34.—*A. aromatica, Reinw.*—*A. Reinwardtii, Bl. cat. hort. buitens.* p. 43;—*Rumph.* 5, t. 20.) L. 5 Society and Friendly Islands. Amboyna. *Fl.* small, pure white, Oct.; fr. C. S.
2. *Gynopogon*, Röm. and Sch. (*syst.* 4, p. 440;—*G. Don. l. c.*;—*Wall. Endl. pr. fl. norf.* p. 58;—*Bauer. ill. pl. norf.* t. 119.—*A. Forsteri, Cunningh. MSS.* 1830.—*Gynopogon Alyxia, Forst. pr. No.* 118—*G. Hunterii, Roxb. H. B. p.* 19 ?) 5 Norfolk Island, in shady, humid parts of woods. Penang. In *H. C. G. Fl.* ?
- 3 ? *Moonii*, Wall. (*Cameraria oppositifolia, Moon.*) 5 Ceylon.

OCHROSIA, Juss.

1. *barbonica*, Juss. 5 Bourbon.

OPHIOXYLON, L. (*G. Don's Mill. dict.* 4, p. 99.)

1. *serpentinum*, L. (*fl. zeyl.* p. 398;—*G. Don. o. c.* p. 100;—*Jacq. hort. schönbr.* 3, t. 389;—*B. M.* 20, t. 784;—*Roxb. fl. ind.* 1, p. 694; *ed. Carey*, 2, p. 530;—*J. Grah. Cat. B. pl.* p. 116;—*Rheed.* 6, t. 47;—*Rumph. auct.* t. 16.) চুন্দ্রা *Chundru.* ছোট্ট চাঁদ *Chhoto-chand.* L. 5 in a rich soil ∪ or ∩, in a poor soil small and erect. Moluccas. Java. Cochin China. Ceylon. Both Peninsulas of India. Bengal, (Serampore.) Hindoosthan, &c. *Fl.* 8 lines, white, with the tube pale rose-lilac, the calyx red, and the fruit shining black, throughout the year. *Root* used by the natives as a febrifuge, an alexipharmic, and to promote delivery in tedious cases. (*Roxb.*)

2. *najus*, Wall. 5 Burma. Differs in stature and greatness of parts from *No.* 1.

WILLUGHBBIA, Scop. (*G. Don's Mill. dict.* 4, p. 101.)

1. *edulis*, Roxb. (*fl. ind.* 2, p. 57;—*Bl. bijdr.* p. 1024;—*G. Don. l. c.*) L. 5 ∪ Mauritius. Chittagong. Silhet. Java. *Fl.* middle-sized, pale rose-coloured, *H. S.*; fr. 0. Wounded, it produces an indifferent sort



of *Caout chouc*. Fruit eaten by the natives where it grows, and by them reckoned good. (*Rezb.*)

- * *Thevetia Ahouai*, Juss. (*Cerbera Ahouai*, L.; B. M. 19, t. 737.) 5 Brazil.—*T. peruviana*, Juss. 5 Peru.—*T. Humboldtii*, (*Cerbera Thevetioides*, H. B. and Kth.) 5 New Spain.—*Dicaryum subdentatum*, Willd. 5 S. America.—*Vallesia chiococcoïdes*, H. B. and Kth. 5 Banks of the Amazon.—*Voacanga Thouarsii*, Röm. and Sch. 5 Madagascar.—*Rauwolfia nitida*, Jacq.; Lodd. B. Cab. t. 339. 5 St. Domingo.—*R. sumatrana*, Jack. 5 Bencoolen.—*Ochrosia maculata*, Jacq. ic. rar. 2, t. 321. 5 Bourbon.—*Willughbeia martabanica*, Wall. pl. as. rar. 3, t. 272. 5 Martaban.—*Anabata odorata*, Willd. 5 Banks of the Orinocco, near Esmeralda.—*Pacouria guianensis*, Aubl. 5 Guiana.—*Couma guianensis*, Aubl. 5 Guiana.—*Dissolena verticillata*, Lour. 5 Canton.—*Leuconotis anceps*, Jack. L. 5 Sumatra.—*Cyrtophyllum peregrinum*, Reinw. 5 China.—*Cercocoma singaporeana*, Wall. Cat. 5 Singapore.—*Orchipeda fetida*, Bl. 5 Java.—*Kopsia arborea*, Bl. 5 Java.—*Heylygia javanica*, Bl. 5 Java.—*Kitabalia arborea*, G. Don. (*Hasseltia*, (not H. B. and Kth.) *arborea*, Bl.) 5 Java, a very beautiful tree.—*Picrophleus javanensis*, Bl. 5 Java.—*Chilocarpus suaveolens*, Bl. 5 Java.

Apocynaceæ dubiæ.

ALAFIA, Thouars.

1. *Thouarsii*, Röm. and Sch. (*Syst.* 4, p. 436.) 5 Madagascar.

ORDER CCXIV.—RETZIACEÆ, Bartl.—Lindl. Nat. Syst. p. 302.

Consists of herbaceous or undershrubby species; 2-3 of *Retzia*, and 2 of *Lonchostoma*; all natives of the C. G. H., except the following.

RETZIA, Thunb. (*G. Don's Mill. dict.* 4, p. 306.)

1. *pilosa*, Rottl. (*Wall. Cat.*) 4. Madura. In H. C. G. Fl?

ORDER CCXV.—ASCLEPIACEÆ, (ASCLEPIADACEÆ, Lindl. Nat. Syst. p. 302.)

Shrubs or occasionally herbs, generally milky, and often twining; by Lindl. (including *Cryptolepis* and *Vicarya*) referred to 85 genera, of these Spreng. syst. enumerates for S. America, Mexico, and the W. Indies about 82 species; 33 for N. America; for N. Holland and Van Diemen's Land 22; for Europe 7; for N. Africa 6; for Arabia 6; for Siberia 3; for China



3, for Asia Minor 2; for the Canaries 2; for Madagascar 1; for the Mascarenhas Islands 1; for Senegal 1; and for Japan 1. In S. Africa have been discovered 240 species; (*Harvey*)—and in the E. Indies, chiefly according to *Wight* 221, viz. 22 of *Ceropegia*; 2 of *Caralluma*; 2 of *Boucerosia*; 1 of *Hitchenia*; 3 of *Eriopetalum*; 30 of *Hoya*; 1 of *Pterostelma*; 1 of *Physostelma*; 8 of *Marsdenia*; 1 of *Cosmostigma*; 3 of *Heterostemma*; 5 of *Pergularia*; 11 of *Dischidia*; 14 of *Gymnema*; 4 of *Sarcocobus*; 4 of *Leptadenia*; 1 of *Orthanthera*; 19 of *Tylophora*; 1 of *Belostemma*; 2 of *Iphisia*; 6 of *Calotropis*; 5 of *Oxystelma*; 1 of *Rhaphistemma*; 6 of *Holostemma*; 18 of *Cynanchum*; 1 of *Damia*; 3 of *Sarcostemma*; 2 of *Pentasacme*; 8 of *Secamone*; 4 of *Toxicarpus*; 1 of *Goniostemma*; 3 of *Hemidesmus*; 1 of *Brachylepis*; 1 of *Decalepis*; 9 of *Streptocaulon*; 1 of *Gurua* (*Finlaysonia*, Wall.); 1 of *Cryptostegia*; 2 of *Cryptolepis*; 1 of *Vicarya*; 7 of *Leptostemma*; 1 of *Triplospermum*; 1 of *Conchophyllum*; 1 of *Phyleanthera*; 1 of *Leposma*; and 1 of *Pentatropis*.—About 50 of these belong to the Himalayas, the Khasiya Mountains, the Mountains of Assam, &c.; the rest are natives of the two Peninsulas of India, Ceylon, the Sunda Islands, the Moluccas, Bengal and the North-Western Provinces.

The roots of Asclepiadaceæ are generally acrid and stimulating, whence some of them act as emetics; others as diaphoretic. Their milk is usually acrid and bitter, and is always to be suspected, although it probably participates in a slight degree only, in the poisonous qualities of that of Apocynaceæ, if we can judge from the use of some species of food. But very little is known about the real qualities of such plants. (*Lindl.*)

A. GENUINÆ, Bartl.

CEROPEGIA, L. (*R. Br. in mem. Wern. soc. 1, p. 21*;—*W. and A. contrib. to ind. bot. p. 29*;—*G. Don's Mill. dict. 4, p. 109.*)

1. *lucida*, Wall. (*pl. as. rar. 2, t. 139*;—*W. and A. l. c.*;—*G. Don. o. c. p. 110.*) 5 $\curvearrowright$ Prome, Khasiya Mountains. Fl. 2 inches, green, purple-dotted, C. S.; fr. 0.
2. *juncea*, Roxb. (*Corom. 1, t. 10*;—*H. B. p. 21*;—*W. and A. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p. 117.*) 4 $\curvearrowright$ Circars, Hedges near Samulcottah, Negapatam, Columala, Tanjore, Kaseraya Jungle. Fl. large, greenish-yellow, and elegantly variegated with purple, C. S.; fr. 0.
3. *Lushii*, Grah. (*B. M. 61, t. 3300*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p. 117.*) 4 $\curvearrowright$ Kaseraya Jungle. Fl. middle-sized, yellowish-green, tinged with purple, C. S.; fr. 0.
4. *elegans*, Wall. (*B. M. 57, t. 3015*;—*B. Reg. 20, t. 1706*;—*W. and A. l. c.*;—*G. Don. l. c.*) 5 $\curvearrowright$ Dindygul, Neelgherries. Fl. 1½ inch, purple, dotted with greenish, inodorous, C. S.; fr. 0.
5. *sphenantha*, W. and A. (*Contrib. ind. bot. p. 31*;—*G. Don. o. c. p. 111.*) 4 $\curvearrowright$ Neelgherries. In H. C. G. Fl. ?
6. *bulbosa*, Roxb. (*Corom. 1, t. 7*; *fl. ind. 2, p. 27*;—*Wight. in*



Hook. bot. misc. 2, p. 99, *suppl. t.* 2;—*J. Grah. Cat. B. pl.* p. 117;—*G. Don. l. c.*) ♀. ◡ Samulcottah. Negapatam. Malabar Hill. Bombay. Throughout the Concans. Allahabad. Fl. large, erect, with a greenish tube and a purple limb, H. S.; fr. O. Every part of this plant is eaten by the natives, either raw, or stewed in their curries. The fresh roots, which are as large as a small apple, taste like a raw turnip. (*Roxb.*)

7. *Stephanotis*, Röm. and Sch. (*Syst.* 6, p. 4;—*G. Don. l. c.*—*Stephanotis*, *Pet. Th.*—*Isaura alliacea*, *Commers. in Poir. encycl.* 3, p. 185.) ♂ ◡ Madagascar. Has been but two years in the garden here, and not fl.

8. *tuberosa*, *Roxb.* (*Corom.* 1, t. 6;—*Wight. icon.* 2, t. 353;—*Roxb. H. B.* 21;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 117.—*C. Candellabrum*, *Roxb. fl. ind.* 2, p. 27, and *J. Grah. l. c.*; not L. and excl. all syn.) ♀. ◡ Coromandel. Negapatam. Has been introduced in H. C. G. In *Roxb.*'s time it did not fl. there.

9. *stapeliiformis*, *Haw.* (*G. Don. o. c. p.* 112;—*B. M.* 64, t. 3567.) ♂ C. G. H. Introduced in 1840.

10. *Vicaryi*, *Wall.* *Hazarebaugh. R. S.* 1841.

STAPELIA, L. (*R. Br. in mem. Wern. soc.* 1, p. 23;—*G. Don's Mill. dict.* 4, p. 114.)

1. *Asterias*, *Mass.* (*Stap.* 14, t. 14;—*B. M.* 15, t. 536;—*G. Don. o. c. p.* 115;—*Jacq. stap.* t. 58.) ♂ C. G. H. Fl. very large, dark-violet. The segments variegated with transverse yellowish stripes, the bottom dark-purple, H. S.; but rarely.

2. *revoluta*, *Mass.* (*Stap.* p. 12, t. 10;—*B. M.* 19, t. 724.—*Tromotriche revoluta*, *Haw.*;—*G. Don. o. c. p.* 119.) ♂ C. G. H. Has not fl. here.

3. *variegata*, *Thunb.* (*Jacq. stap.* t. 24; *misc.* 1, t. 4;—*DC. pl. gr. t.* 149.—*Orbea variegata*, *Haw.*;—*G. Don. o. c. p.* 120.) ♂ C. G. H. Has not fl. here.

The same has been the case with more than 60 species of *Stapelia* introduced into the garden from C. G. H. by the late Dr. Carey. Indeed most of them perished during the R. S. succeeding their arrival.

BRACHYSTELMA, *R. Br.* (*G. Don's Mill. dict.* 4, p. 124.)

1. *tuberosum*, *R. Br.* (*G. Don. o. c. p.* 125;—*B. Reg.* 9, t. 722;—*B. M.* 49, t. 2343.—*Stapelia tuberosa*, *Meerb. t.* 54, f. 1.) ♀. C. G. H. Has not fl. here.

CARALUMA, *R. Br.* (*Mem. Wern. soc.* 1, p. 25;—*G. Don's Mill. dict.* 4, p. 122.)

1. *adscendens*, *R. Br.* (*l. c.*;—*G. Don. o. c. p.* 123;—*J. Grah. Cat. B. pl.* p. 118.—*Stapelia adscendens*, *Roxb. Corom.* 1, t. 30.) ♂ Peninsula of India. Has been introduced into H. C. G. Fl. ?

2. *fimbriata*, *Wall.* (*pl. as. rar.* 1, t. 8;—*G. Don. l. c.*) ♂ Yenangheun, on the banks of the Irawaddi, &c. Fl. 1 inch, above yellowish, trans-

versely purple-streaked, underneath yellow;—upper part purple,—uppermost margin fringed behind with hairs, R. S.; fr. 0.

BOUCEROSIA, W. and A. (*Contrib. ind. bot. p. 34*;—*G. Don's Mill. dict. p. 123*.)

1. *umbellata*, W. and A. (*l. c.*;—*G. Don. l. c.*;—*Wight icon. 2, t. 495*.—*Caralluma umbellata, Haw.*—*Stapelia umbellata, Roxb. Corom. 3, t. 241*;—*H. B. p. 21*.) 5 Southern parts of the Peninsula of India. Fl. 9 lines, foetid, externally whitish, with dark-purple confluent spots, internally yellowish, with dark-purple circles, May; fr. 0.

2. *crenulata*, W. and A. (*l. c.*;—*G. Don. l. c.*—*Caralluma crenulata, Wall. pl. as. rar. 1, p. 7*.) 5 Banks of the Irawaddi, opposite Ava. Fl. largish, pale greenish-white below, yellow above, and ornamented with broadish transverse stripes. R. S.; fr. 0.

HOYA, R. Br. (*Mem. Wern. soc. 1, p. 26*;—*G. Don's Mill. dict. 4, p. 125*.)

1. *pendula*, W. and A. (*Contrib. ind. bot. p. 36*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p. 119*.—*Wight icon. 2, t. 474*.)

a. *Rheedii*, W. and A. (*Asclepias pendula, Roxb. fl. ind. 2, p. 36*.—*Rheed. 9, t. 13*.) L. 5 ∪ Circars. Fl. middle-sized, white, fragrant. Has been introduced into H. C. G. Fl. ?

2. *linearis*, Wall. (*W. and A. l. c.*;—*G. Don. l. c.*) 5 ∪ Nepal. Has been introduced into H. C. G. Fl. ?

3. *fusca*, Wall. (*pl. as. rar. 1, t. 75*;—*W. and A. o. c. p. 37*;—*G. Don. o. c. p. 126*.) 5 ∪ Khassya Mountains. Nepal. Fl. smallish, brownish. Has not fl. here.

4. *pallida*, Lindl. (*B. Reg. 11, t. 951*.—*H. acuta, Haw. rev. p. 4*.—*H. lanceolata, Lindl. in Donn. hort. Cantab. ed. 11, p. 92*, not Wall.—*H. albens, Mill. brist. cat. 1826*;—*H. parasitica, Wall. Cat.*;—*W. and A. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p. 119*.—*Asclepias parasitica, Roxb. fl. ind. 2, p. 42*.) 4. Paras. ∪ Mahableschwur. Lanowlee, near Kandalla. Nagotna Jungles. Soonderbuns. Fl. 6 lines in diameter, white, fragrant, with the crown paler than the rest of the flower, purple in the centre, June; fr. 0.

5. *carnosa*, R. Br. (*Mem. Wern. soc. 1, p. 27*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl. p. 118*;—*W. and A. o. c. p. 38*.—*Asclepias carnosa, L. fil. suppl. 1, p. 170*;—*B. M. 21, t. 788*;—*Sm. exot. bot. 2, t. 70*.—*Stapelia chinensis, Lour.*—*Schollia crassifolia, Jacq. ecl. No. 2*.—*Schollia carnosa, Schrank.*) 5 ∪ China, about Canton, as well as various parts of Tropical Asia. Fl. middle-sized, wax-like, whitish, with a crimson dark-purple centre, R. and C. S.; fr. 0.

6. *lanceolata*, Wall. (*W. and A. l. c.*; *G. Don. l. c.*) 5 ∪ Nepal. Khassya Mountains. Has been introduced into H. C. G. Fl. ?

7. *Pottsii*, Traill? (*Hort. trans. 7, p. 25*?—*Lodd. B. Cab. t. 1609*;—*B. M. 62, t. 3425*;—*G. Don. l. c.*) 5 ∪ Macao. Fl. middle-sized, pale yellow, with a white orange centred crown, smelling strongly of bad honey. In H. C. G. Fl. ?



3. *viridiflora*, R. Br. (*Mem. Wern. soc.* p. 26;—*Wight. in Hook. bot. misc.* 2, p. 98, suppl. t. 1;—*G. Don. o. c.* p. 127;—*J. Grah. Cat. B. pl.* p. 119, excl. syn. Rumph.—*Asclepias volubilis*, L.; *Roxb. fl. ind.* 2, p. 36.—*A. viridiflora*, *Roxb. herb.*—*Apocynum tiliaefolium*, Lam.—*Rheed.* 9, t. 15.) ॐ ॐ ॐ *Tit-Kunga*. L. ॐ ॐ Coromandel. Bombay, Elephanta. The Ghauts, Mahabeshwur, Bengal, (Serampore.) Silhet. Morung, Assam. Fl. smallish, green, inodorous, March, April, and May; fr. R. S.
- MARSDENIA, R. Br. (*Mem. Wern. soc.* 1, p. 28;—*pr.* p. 460;—*G. Don's Mill. dict.* p. 130.)
1. *tinctoria*, R. Br. (*o. c.* p. 29;—*G. Don. o. c.* p. 131;—*Pergularia tinctoria*, *Spreng.*—*Asclepias tinctoria*, *Roxb. fl. ind.* 2, p. 43.) ॐ ॐ Sumatra, Coromandel. Pegu, Silhet, Assam. Fl. small, yellow, H. and R. S.; fr. O. The leaves yield *Indigo*, and the plant was therefore re-commended by Roxb. for extensive cultivation.
2. *tenacissima*, W. and A. (*Contrib. ind. bot.* p. 41;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 119?—*Gymnema tenacissimum*, *Spreng.*—*Asclepias tenacissima*, *Roxb. Corom.* 3, t. 240; *fl. ind.* 2, p. 51.) L. ॐ ॐ Rajemahl, Chittagong. Fl. small, greenish-yellow, April; fr. Feb. The milk exuding from wounds in this shrub, thickens into an elastic substance, acting like *Caoutchouc* on black-lead marks. The bark of the young luxuriant shoots yields a large portion of beautiful, fine silky fibres, with which the mountaineers of Rajemahl make their bow-strings, on account of their great strength and durability. *Roxb.*
3. *Genevii*, Wall. ॐ ॐ Mauritius. Introduced in 1840.
- COSMOSTIGMA, Wight. (*Contrib. ind. bot.* p. 41;—*G. Don's Mill. dict.* 4, p. 132.)
1. *racemosum*, Wight. (*o. c.* p. 42;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 119?—*Asclepias racemosa*, *Roxb. fl. ind.* 2, p. 32.) L. ॐ ॐ Chittagong, Silhet. Fl. small, yellow, ferruginously speckled. In H. C. G. fl. May and June; fr. August to Oct. (*Roxb.*)
- PERGULARIA, L. (*R. Br. in Mem. Wern. soc.* 1, p. 31;—*G. Don's Mill. dict.* 4, p. 132.)
1. *odoratissima*, Sm. (*Icon. pict.* p. 16;—*B. Reg.* 5, t. 412;—*B. Repos.* t. 185;—*Roxb. H. B.* p. 20;—*G. Don. l. c.* excl. syn. Sims.;—*J. Grah. Cat. B. pl.* p. 120, excl. syn. Sims.;—*W. and A. contrib. ind. bot.* p. 43;—*Wight. icon.* 2, t. 414.—*P. tomentosa*, L. *Mant.*?—*Cynanchum odoratissimum*, Lour.—*Asclepias odoratissima*, *Roxb. H. B.* p. 20; *fl. ind.* 2, p. 46, excl. syn. Sims.—*Rumph. auct. t.* 26, f. 1.) ॐ ॐ ॐ *Kunja-luta*. West-coast creeper. L. ॐ ॐ Prome, Pagamew, Moluccas, Cochin-China, Bengal, (Serampore.) Patna, &c. Fl. 8 lines, outside whitish, inside greenish, yellow-orange, delightfully fragrant. R. and C. S.; fr. C. S.
2. *minor*, Andr. (*B. Repos.* t. 184;—*B. M.* 20, t. 755;—*G. Don. o. c.* p. 133.—*Pergularia odoratissima* var. *Sm. icon. pict. fasc.* 3,

p. 16.) ५ ∪ Moluccas? Fl. like those of No. 1, and exquisitely fragrant.

3. *pallida*, W. and A. (*l. c.*—*Asclepias pallida*, *Roxb. fl. ind.* 2, p. 48.) ५ ∪ Burma. Penang. Bengal, (Serampore.) Gungachura. Monghir. Himalayas. Fl. smallish, pale yellow, inodorous, or slightly scented. R. S.; fr. C. S.

DISCHIDIA, R. Br. (*Mem. Wern. soc.* 1, p. 32; *pr. p.* 461.—*G. Don's Mill. dict.* 4, p. 133.)

1. *bengalensis*, Colebr. (*Linn. trans.* 12, p. 357, t. 15;—*B. M.* 56, t. 2916;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 120.—*D. lanceolata*, *Wall. Cat.*) ♀. Paras. ∪ Khassya Mountains. South Concan. Fl. small, greenish-yellowish-white. In H. C. G. Fl.

GYMNEA, R. Br. (*Mem. Wern. soc.* 1, p. 33; *pr. p.* 461;—*G. Don's Mill. dict.* 4, p. 135.)

1. *sylvestre*, R. Br. (*pr. l. c.*;—*G. Don. l. c.*;—*Wight. contrib. ind. bot.* p. 44;—*J. Grah. Cat. B. pl.* p. 120;—*Wight. icon.* 2, t. 349.—*G. parviflorum*, *Wall. tent. fl. nep.* p. 50.—*Periploca sylvestris*, *Willd. sp.* 1, p. 1252;—*Phyt.* 1, p. 7, t. 5, f. 3.—*Asclepias geminata*, *Roxb. fl. ind.* 2, p. 45.) ছোট দুই ভাগ *Chhoto-doodhee-luta*. ५ ∪ Canton. Coromandel. Hills near Bagulcota and Badamee. South Mahratta Country. Bengal. (Serampore.) Silhet. Assam. Nepal. Fl. 2 lines, outside green, inside greenish-yellowish, with a white centre, R. and C. S.; fr. 0.

2. *acuminatum*, Wall. (*tent. fl. nep.* p. 50;—*G. Don. l. c.*—*Asclepias geminata*, *Roxb. fl. ind.* 2, p. 55.) L. ५ ∪ Tavoy. Moulmein. Chittagong. Silhet. Fl. small, white, May, June and July; fr.

3. *tingens*, Spreng. (*syst.* 1, p. 844;—*G. Don. o. c.* p. 136;—*W. and A. o. c.* p. 45.—*Asclepias tingens*, *Buch*;—*Roxb. fl. ind.* 2, p. 53; *Corom.* 3, t. 239.—*A. montana*, *Roxb. fl. ind.* 2, p. 45;—*Rumph.* 5, t. 40, f. 2?) L. ५ ∪ Pegu. Sukanaghur. Kamroop. Fl. middle-sized, cream-coloured, afterwards yellow, R. S.; fr. May. The leaves are said to yield a sort of Indigo.

4. *nepalense*, Wall. (*tent. fl. nep.* p. 50, t. 38;—*G. Don. l. c.*) ५ ∪ Nepal. In H. C. G. Fl?

SARCOLOBUS, R. Br. (*Mem. Wern. soc.* 1, p. 34;—*G. Don's Mill. dict.* 4, p. 136.)

1. *globosus*, Wall. (*Asiat. res.* 12, p. 577, t. 4;—*G. Don. l. c.*) ५ ∪ Banks of the Saluen. Rangoon. Soonderbuns. Has not fl. here, though cultivated for several years.

2. *carinatus*, Wall. (*o. c.* p. 578, t. 5;—*G. Don. l. c.*) ५ ∪ Grows in the same places with the former species. Introduced in 1841.

LEPTADENIA, R. Br. (*Mem. Wern. soc.* 1, p. 34;—*G. Don's Mill. dict.* 4, p. 124.)

1. *spartea*, Wight. (*Contrib. ind. bot.* p. 48;—*G. Don. l. c.*) ५ ∪ Banks of the Jumna. Simla. Himalaya. In H. C. G. Fl. ?



PHLOPHORA, R. Br. (*Mem. Wern. soc.* 1, p. 28; *pr.* p. 460;—*G. Don's Mill. dict.* 4, p. 128.)

1. *tenuissima*, W. and A. (*Contrib. ind. bot.* p. 49;—*G. Don. o. c.* p. 129.—*Asclepias tenuissima*, *Roxb. fl. ind.* 2, p. 41.) 5 ∪ Peninsula of India. Bengal. Fl. small, dull purple. In H. C. G. fl. R. S.; fr. C. S. (*Roxb.*)

2. *vomitaria*, (*T. asthmatica*, W. and A. *contrib. ind. bot.* p. 51.—*Cynanchum vomitorium*, *Lam.*—*C. viridiflorum*, *Sims.*; *B. M.* 44, t. 1929;—*Spreng. syst.* 1, p. 852.—*Asclepias vomitoria*, *Kön. in Hb. Banks*; *Roxb. mus. ind. or. t.* 608.—*A. asthmatica*, *Roxb. fl. ind.* 2, p. 33;—*Willd.*;—*Röm. and. Sch.*;—*Spreng.*—*Cynanchum Ipecacuanha*, *Willd.*) अञ्जु मूल *Unto-mool.* 5 ∪ Peninsula of India. Bengal, (Serampore.) Seguen, &c. Fl. 5½ lines in diameter, externally pale greenish with a faint tinge of purple, internally light-purple, May and June; fr. Aug. Sept. and Oct. The roots are used on the Coast of Coromandel, as a substitute for ipecacuanha. *Roxb.* often prescribed this remedy himself, and found it answer as well as the latter. Given in a pretty large dose, it answers as an emetic, in smaller, often repeated doses as a cathartic, and in both ways effectually; the natives also employ it as an emetic, by rubbing upon a stone 3-4 inches of the fresh root, and mixing it with a little water for a dose. It generally purges at the same time. Dr. P. Russel was informed by Dr. J. Anderson, the Physician General at Madras, that he had many years before known it used both by the European and Native troops, with great success in the dysentery which happened at that time to be epidemic in the camp. (*Roxb.*)

ASCLEPIAS, L. (*R. Br. in Mem. Wern. soc.* p. 36;—*G. Don's Mill. dict.* 4, p. 139.)

1. *curassavica*, L. (*G. Don. l. c.*;—*B. Cab. t.* 349;—*B. Reg.* 1, t. 81;—*Roxb. H. B.* p. 20;—*J. Grah. Cat. B. pl.* p. 120, not Lour.—*A. bicolor*, *Mönch.*) 5 Curaçao. Essequibo. Cumana. Trinidad; now found in most parts of Tropical America and India. Fl. nearly 6 lines, saffron coloured with a light orange-coloured crown, and fr. nearly throughout the year. The juice of this plant, made into a syrup, is said to be a powerful anthelmintic, and is given as such, in the West Indies, to children in doses from a tea to table-spoonful. The juice and pounded plant is said to be an excellent styptic. The root, dried and reduced to a powder, is frequently used by the Negroes as an emetic, and hence its name of *Wild, or Bastard Ipecacuanha*. (*Mill. dict.*)

GOMPHOCARPUS, R. Br. (*Mem. Wern. soc.* 1, p. 37;—*G. Don's Mill. dict.* 4, p. 143.)

1. *fruticosus*, R. Br. (*l. c.*;—*G. Don. l. c.*;—*B. M.* 39, t. 1628.—*Asclepias fruticosa*, L.;—*Roxb. H. B.* p. 20.—*A. glabra*, *Mill. dict.*—*Apoecynum salicifolium*, *Medic.*) 5 C. G. H., beyond the first range of

mountains. Fl. middle-sized, white, with a pale greenish crown, tinged with purplish, R. S.; fr. R. and C. S., but rarely.

? *PENTATROPIS*, R. Br. (in *Salt. trav. app. from W. and A. contrib. ind. bot.* p. 52;—*G. Don's Mill. dict.* 4, p. 145.)

1. *microphylla*, W. and A. (*l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 120.—*Wight. icon.* 2, t. 352.—*A. microphylla*, *Roxb. fl. ind.* 2, p. 35;—*Schultes. syst.* 6, p. 85;—*Rheed.* 9, t. 17.) ♂ (Coromandel. Bengal, (Serampore.) Banks of the Jumna. Fl. small, greenish-red. R. S.; fr. C. S.)

CALOTROPIS, R. Br. (*Mem. Wern. soc.* 1, p. 39;—*W. and A. o. c.* p. 53;—*G. Don's Mill. dict.* 4, p. 146.)

1. *gigantea*, R. Br. (*l. c.*;—*W. and A. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 120;—*B. Reg.* 4, t. 58.—*Asclepias gigantea*, *Willd.*;—*L. ?*—*Ait.*;—*Jacq. obs.* 3, p. 17, t. 69;—*Roxb. fl. ind.* 2, p. 30;—*Rheed.* 2, t. 31;—*Rumph. auct. t.* 14, f. 1.) ♂ Moluccas, Sunda Islands, Ceylon. Both Peninsulas of India, Bengal, (Serampore.) Hindoosthan, Assam, &c. Fl. 10-12 lines long, and fr. throughout the year. A large quantity of an acrid, milky juice flows from this plant when wounded. The natives apply it to various medicinal purposes, while they employ the plant itself and its preparations to cure all sorts of nervous disorders. In 1811, it was subjected to a regular set of medical experiments by Dr. G. Playfair, who, with many of his brethren, bears ample testimony of its efficacy in leprosy, lues, tenia, herpes, dropsy, rheumatism, hectic and intermittent fever. The powdered bark is given in doses of 5-6 grains twice a day. It will now and then occasion nausea and vomiting, but such symptoms are easily removed by a dose of castor oil. (*On the Madar, and its medical uses, Phys. and med. trans. Calc.* 1, p. 77-102.—*Account of the use of Akund or Mudar in the leprosy, Phys. and med. trans. Calc.* 2, 409-410.)

a. *lilacina*, (अकिन्द *Akundo*.) Fl. beneath whitish with a tinge of lilac, above whitish light purple, with the crown purplish lilac, inodorous, or nearly so.

β. *alba*, (श्वेत अकिन्द *Shwet-Akundo*.) Fl. white, cream-coloured, inodorous, or nearly so.

2. *procera*, R. Br. (in *Hort. Kew. ed.* 2, vol. 2, p. 78;—*G. Don. l. c.*;—*B. Reg.* 21, t. 1792.—*Asclepias procera*, *Ait. Hort. Kew. ed.* 1, vol. 1, p. 305;—*Willd.*—*A. gigantea*, *Andr. B. Repos. t.* 271, not *Willd.*; *Lam.*—*Beidelsar, Prosp. Alp. ægypt. cap.* 25, c. W.) ♂ N. Africa. Persia. Fl. 10-12 lines, inodorous, externally pale silverish, internally intensely purple-red, towards the top paler, towards the centre spotted, March and April; fr. 0.

This plant is by some esteemed more efficacious in the cure of leprosy than the preceding species.

3. *herbacea*, Carey, MSS. (*Wight. contrib. ind. bot.* p. 54;—*G. Don. o. c.* p. 147;—*Wight. icon.* 2, t. 492.—*Asclepias herbacea*, *Roxb. fl. ind.* 2,



p. 50.) ছোট অাকন্দ *Chhoto-akundo*. 5 Interior of Bengal. Fl. largish, like those of *Calotropis gigantea*, a. Fl. C. S.; fr. 0.

RHAPHISTEMMA, Wall. (*W. and A. contrib. ind. bot.* p. 54;—*G. Don's Mill. dict.* 4, p. 145.)

1. *pulchellum*, Wall. (*pl. as. rar.* 2, t. 163;—*W. and A. l. c.*;—*G. Don. l. c.*—*Asclepias pulchella*, *Roxb. fl. ind.* 2, p. 54.) 5 7 1 Tavoy. Pegu. Khassya Mountains. Assam. Fl. 1 inch, pure white, inodorous, R. S.; fr. 0.

OXYSTELMA, R. Br. (*Mem. Wern. soc.* 1, p. 40; pr. p. 462;—*G. Don's Mill. dict.* 4, p. 144;—*Wight. contrib. ind. bot.* p. 54.)

1. *esculentum*, R. Br. (*l. c.*;—*G. Don. l. c.*;—*Wight. l. c.*;—*J. Grah. Cat. B. pl.*—*Periploca esculenta*, *Kün.*;—*L. fil. suppl.* 168;—*Roxb. Corom.* 1, t. 11.—*Asclepias rosca*, *Roxb. fl. ind.* 2, p. 40.) 5 7 1 Doodh-luta. 5 7 1 Coromandel. Bombay. Bengal, (Serampore.) Assam, &c. Fl. 7½ lines, externally white, internally rose-coloured and purple-veined, with a green tube, inodorous, R. S.; fr. C. S. Cattle eat it, but not the natives. (*Roxb.*)

HOLOSTEMMA, R. Br. (*Mem. Wern. soc.* 1, p. 42;—*Wight. contrib. ind. bot.* p. 55;—*G. Don's Mill. dict.* 4, p. 149.)

1. *Rheedianum*, Spreng. (*syst.* 1, p. 851.—*H. Rheedii*, *G. Don. l. c.*;—*Wight. l. c.*;—*J. Grah. Cat. B. pl.* p. 121.—*H. Ada-Kodien*, *Röm. and Sch.*—*Sarcostemma annulare*, *Roth.*;—*Röm. and Sch.*—*Asclepias annularia*, *Roxb. fl. ind.* 2, p. 37;—*Rheed.* 9, t. 7.) 5 7 1 Mysore. Samulcottah. Bombay; Malabar Hill, Salsette. Assam. Kanour. Fl. large, the colour a beautiful mixture of red, green and white, 'inodorous,' (*Rheed.*) 'agreeably fragrant, edible and sweet.' (*Nimmo.*) In H. C. G. fl. R. S.; fr. 0. (*Roxb.*)

CYNANCHUM, L. (*R. Br. in Mem. Wern. soc.* 1, p. 43;—*W. and A. contrib. ind. bot.* p. 55;—*G. Don's Mill. dict.* 4, p. 150.)

1. *pauciflorum*, R. Br. (*o. c. p.* 45;—*W. and A. l. c.*;—*G. Don. o. c. p.* 151;—*J. Grah. Cat. B. pl.* p. 121;—*Wight. icon.* 2, t. 354.—*Periploca tunicata*, *Retz.*;—*Willd. phyt.* 1, p. 7, No. 23, t. 5, f. 3.—*Asclepias tunicata*, *Roxb. fl. ind.* 2, p. 35.) 5 7 1 ছাগল পাটী *Chhagul-patee*. L. 5 7 1 Peninsula of India. Bengal, (Serampore). Fl. small, rust-coloured. R. S.; fr. C. S.

DÆMIA, R. Br. (*Wern. soc. Mem.* 1, p. 50;—*Wight. contrib. ind. bot.* p. 59;—*G. Don's Mill. dict.* 4, p. 156.)

1. *extensa*, R. Br. (*l. c.*;—*Wight. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 122.—*Cynanchum extensum*, *Jacq. icon. rar.* 1, t. 54;—*Ait. hort. Kew. vol.* 1, p. 303.—*C. cordifolium*, *Retz.*—*C. bicolor*, *Andr. B. Repos.* t. 562.—*Asclepias echinata*, *Roxb. fl. ind.* 2, p. 44.) 5 7 1 ছাগল বাঁটী *Chhagul-bantee*. 5 7 1 Peninsula of India. Bengal, (Serampore). Himalayas. Fl. 6 lines, pale green, internally tinged with purple, not unpleasantly smelling, (very fetid, *Roxb.*) R. and C. S.; fr. C. and H. S.

SARCOSTEMMA, R. Br. (*Mem. Wern. soc.* 1, p. 50;—*W. and A. contrib. ind. bot.* p. 59;—*G. Don's Mill. dict.* 4, p. 156.)

1. *acidum*, (S. *brevistigma*, *W. and A. l. c.*;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 122, No. 259, excl. syn. R. Br.—*Asclepias acida*, *Roxb. H. B. p.* 20; *fl. ind.* 2, p. 31; excl. syn.) শোম জটা *Shom-luta*. ५ ∪ Coromandel. Bombay Presidency. Rocky Hills about Loonee. The barren parts of the plain between Dowlatabad and the Godavery. The Kamatkee and Katruj Ghauts; throughout the Deccan. Isle of Perim. Bengal, (Serampore, but very rarely. The late Dr. Carey had only seen it once here.) Fl. small, white, R. S.; fr. 0. Dr. Gibson mentions, that it is often brought from a distance by farmers, to extirpate *white ants* from their Sugar-cane fields. A bundle of the twigs is put in the trough of the well from which the field is watered, along with a bag of common salt hard packed, so that it may dissolve gradually. The water so impregnated, destroys the ants without injuring the crop. (*J. Grah.*) "This plant yields a larger portion of very pure milky juice than any other I know, and what is rare, it is of a mild nature, and acid taste. The native travellers often suck the tender shoots to allay their thirst." (*Roxb.*)

PENTASACME, Wall. (*W. and A. contrib. ind. bot.* p. 60;—*G. Don's Mill. dict.* 4, p. 159.)

1. *caudata*, Wall. (*W. and A. l. c.*;—*G. Don. l. c.*) २. Khassya Mountains. Lahore. Fl. small, white, C. S.; fr. 0.

PHYSIANTHUS, Mart. (*Nov. gen. and sp.* 1, p. 53.)

1. *albens*, Mart. (*o. c. t.* 32;—*Spreng. c. p.* p. 112;—*B. M.* 59, t. 3201;—*B. Reg.* 21, t. 1759.—*Araujia albens*, *G. Don's Mill. dict.* 4, p. 149.) ५ ∪ Buenos Ayres. Mexico. Has been introduced into the garden here twice, but both times died during the R. S., though sheltered.

SECANONE, R. Br. (*Mem. Wern. soc.* 1, p. 53;—*G. Don's Mill. dict.* 4, p. 159;—*W. and A. contrib. ind. bot.* p. 60.)

1. *emetica*, R. Br. (*l. c.*;—*Schult. syst.* 6, p. 124;—*G. Don. l. c.*;—*W. and A. l. c.*;—*Periploca emetica*, *Retz.*;—*Willd. phyt.* 1, p. 6, t. 5, f. 2.—*Asclepias Pseudasarsa*, β . *angustifolia*, *Roxb. fl. ind.* 2, p. 39.) শাদা বুড়ি *Shada-boori*. ५ ∪ Peninsula of India. Bengal. Fl. 0; fr. 0.

TOXOCARPUS, W. and A. (*Contrib. ind. bot.* p. 61;—*G. Don's Mill. dict.* 4, p. 160.)

1. *laurifolius*, Wight. (*Contrib. l. c.*;—*G. Don. l. c.*—*Asclepias laurifolia*, *Roxb. fl. ind.* 2, p. 49.—*A. micrantha*, *Roxb. o. c. p.* 50.) L. ५ ∪ Chittagong. Tippera. Cawnpore. Fl. very small, yellow R. S.; fr. 0.

- * *Ceropegia acuminata*, *Roxb. Corom.* 1, t. 8. २. ∪ Samulecottah. Dharwar.—*C. Arnottiana*, Wight. २. ∪ Hills about Prome.—*Hitchenia indica*, W. and A.; Wight. icon. 2, t. 355. ५ Peninsula of India.—*Leptadenia reticulata*, W. and A.; Wight. icon. 2, t. 350. ५ ∪ Both

Peninsulas of India.—*L. imberbis*, Wight. 5 (Meerut.—*Orphanthera viminea*, Wight; Royle ill. t. 66, f. 1. 5 Doab.—*Hoya orbiculata*, Wall. 5 (Promé.—*H. longifolia*, Wall. 5 (Singapore. Mussooree.—*H. parviflora*, Wight. 5 (Moulmein.—*H. Hookeriana*, Wight. 5 (Chittagong. Silhet.—*H. trinervis*, Trail. 5 (China.—*H. australis*, R. Br. 5 (Tropical N. Holland.—*H. latifolia*, G. Don. (*H. macrophylla*, Wight, not Bl.) 5 (Penang.—*H. Lacuna*, Buch. 5 (Sagaen.—*Pterostelma acuminatum*, Wight. 5 (Silhet.—*Physostelma Wallichii*, Wight. 5 (Singapore.—*Tylophora flexuosa*, R. Br. 5 (Tropical N. Holland.—*T. mollissima*, Wall. 5 (Neelgherries.—*T. exilis*, Colebr. 5 (Khassya Mountains.—*Marsdenia velutina*, R. Br. 5 (Tropical N. Holland.—*M. viridiflora*, R. Br. 5 (Tropical N. Holland.—*M. clausa*, R. Br. 5 (Jamaica.—*M. Roylei*, W. and A. 5 (Simla.—*Heterostemma alatum*, Wight. 5 Mussooree.—*Pergularia sanguinolenta*, Lindl.; B. M. 52, t. 2532. 5 (Sierra Leona.—*Dischidia cuneifolia*, Wall. 5 Banks of the Attran.—*Baxtera loniceroides*, Lindl. (*Harrisonia loniceroides*, Hook.; B. M. 53, t. 2699.) 5 Brazil.—*Gymnema geminatum*, R. Br. 5 (Tropical N. Holland.—*G. molle*, Wall. 5 (Irawaddi.—*G. latifolium*, Wall. 5 (Tavoy. Silhet.—*G. elegans*, W. and A. 5 (Dindygul.—*G. sagittatum*, Wall. 5 (Khassya Mountains.—*G. Wallichii*, Wight. 5 (Singapore.—*G. trinerve*, R. Br. 5 (Tropical N. Holland.—*Gonolobus crispiflorus*, R. Br. 5 (Jamaica.—*G. viridiflorus*, Röm. and Sch.; B. Reg. 14, t. 1126. 5 (Essequibo.—*G. rostratus*, R. Br. 5 (Trinidad.—*G. niger*, R. Br. B. M. 55, t. 2799. 5 (Mexico.—*G. prostratus*, R. Br. 4 (Mexico.—*G. diadematus*, Ker.; B. Reg. 3, t. 252. 5 (Mexico.—*Asclepias pulchella*, H. B. and Kth. 4 Mexico.—*A. linifolia*, Hort. Madrit. (*A. salicifolia*, B. Cab. t. 272.) 4 Mexico.—*A. linaria*, Cav. 5 Mexico.—*A. auriculata*, H. B. and Kth. 4 Mexico.—*Oxystelma Wallichii*, Wight. 5 (Banks of the Ganges and Irawaddi.—*O. carnosum*, R. Br. 5 (Tropical N. Holland.—*Iphisia multiflora*, W. and A. 5 (Neelgherries.—*Urostelma chinense*, Bunge. 5 (China.—*Calotropis Hamiltonii*, Wight. 5 B. Repos. t. 271. Deccan.—*C. Wallichii*, Wight. 5 Melloon.—*C. heterophylla*, Wall. 5 Irawaddi.—*Oxypetalum Banksii*, Schult. 5 (Rio Janeiro.—*O. riparium*, Mart. 5 (Mexico.—*Macroscepis obovata*, H. B. and Kth. 5 (Campeche.—*Holostemma fragrans*, Wall. 5 (Irawaddi.—*H. scandens*, Lindl. 5 S. America?—*Cynanchum pedunculatum*, R. Br. 5 (Tropical N. Holland.—*C. erubescens*, R. Br. 5 (Tropical N. Holland.—*C. Wallichii*, Wight. 5 (Khassya Mountains.—*C. callialatum*, Buch. 5 (Banks of the Ganges.—*C. foetidum*, H. B. and Kth. 5 (Mexico.—*Ditassa Banksii*, Röm. and Sch. 5 (Rio Janeiro.—*Sarcostemma viminalis*, R. Br. 5 (India.—*S. australe*, R. Br. 5 (Tropical N. Holland.—*S. Brownii*, Meyer. 4 (Carthagena.—*Philibertia solanoides*, H. B. and Kth. 5 (Banks of the Amazon.—



P. grandiflora, Hook. : B. M. 64, t. 3618. 5 (Buenos Ayres.—*Tweedia versicolor*, Hook. ; B. M. 65, t. 3630. 5 (Tucuman ?—*Toxocarpus Roxburghii*, W. and A. Wight. icon. 2, t. 475. 5 (Circars.—*T. Kleinii*, W. and A. 5 (Negapatam. Salsette.—*T. crassifolius*, Wight 5 (Silhet.—*Goniostemma acuminatum*, Wight. 5 (Silhet.

B. PERIPLOCEÆ, Bartl.

HEMIDESMUS, R. Br. (*Mem. Wern. soc.* 1, p. 56 ;—*W. and A. contrib. ind. bot.* p. 62 ;—*G. Don's Mill. dict.* 4, p. 161.)

1. *indicus*, R. Br. (*Hort. Kew. ed.* 2, vol. 2, p. 75 ;—*W. and A. o. c.* p. 63 ;—*G. Don. l. c.* ;—*J. Grah. Cat. B. pl.* p. 122.—*Periploca indica*, Willd.—*Asclepias Pseudasarsa*, *α. latifolia*, *Roxb. fl. ind.* 2, p. 39, excl. syn. L. and Retz.—*Rheed.* 10, t. 34.) अनन्त मूल *Unanto-mool*. 5 (Ceylon. Coromandel. Malabar Hill. Bombay. Mazagaum. Abundant on the Hills at Wurgaum. Bengal, (Serampore) &c. Fl. 2½ line, on the outside pale green, on the inside, dark blood-coloured, R. S. ; fr. rare. The roots are used as an excellent substitute for Sarsaparilla. The natives employ them particularly for the thrush in children, giving about a dram every morning and evening of the powder fried in butter. (*Roxb.*)

GURUA, Buch. (*Finlaysonia*, Wall. ;—*Wight's contrib. ind. bot.* p. 65 ;—*G. Don's Mill. dict.* 4, p. 162.)

1. *obovata*, Buch. (*Wall. pl. as. rar.* 2, t. 162.—*Wight. l. c.* ;—*G. Don. o. c.* p. 163.) L. 5 (Soonderbuns. *Æstuaries* of the Irawaddi, &c. Fl. small, yellowish-brownish, smelling like those of *Stapelizæ*. Has not fl. here. Introduced in 1838.

PERIPLOCA, L. (*R. Br. in Mem. Wern. soc.* 1, p. 57 ;—*G. Don's Mill. dict.* 4, p. 163.)

1. *græca*, L. (*Spec. p.* 309 ;—*G. Don. l. c.* ;—*Jacq. misc.* 1, p. 11, t. 1, f. 2 ;—*Sibth. and Sm. fl. gr.* t. 249 ;—*B. M.* 49, t. 2289 ;—*B. Reg.* 10, t. 803.—*P. maculata*, *Mönch.*) 5 (S. France. Hedges about Bursa. Bithynia. Mount Athos. Has been introduced into H. C. G. Fl. ?

CRYPTOSTEGIA, R. Br. (*B. Reg.* 5, t. 435 ;—*W. and A. contrib. ind. bot.* p. 66 ;—*G. Don's Mill. dict.* 4, p. 164.)

1. *grandiflora*, R. Br. (*B. Reg. l. c.* ;—*W. and A. l. c.* ;—*G. Don. l. c.* ;—*J. Grah. Cat. B. pl.* p. 122.—*Nerium grandiflorum*, *Roxb. fl. ind.* 2, p. 10.) L. 5 (Peninsula of India. Fl. 2 inches, internally white, externally pale rose white lilac, throughout the year ; fr. seldom.

VICARYA, Wall. (*MSS.* 1841.—*Jenkinsia*, Wall. *MSS.* 1840.)

1. *cristata*, Wall. (*MSS.* 1841.—*Jenkinsia cristata*, Wall. *MSS.* 1840, not Griffith.*) 5 (Assam. Introduced in 1840.

CRYPTOLEPIS, R. Br. (*Mem. Wern. soc.* 1, p. 69 ;—*G. Don's Mill. dict.* 4, p. 82.)

1. *reticulata*, Wall. (*Cat.*—C. Buchanani, *G. Don. l. c.* ;—*J. Grah. Cat.*



- B. pl.* p. 113;—*Wight. icon.* 2, t. 494; scarcely R. Br. Spreng. syst. 1, p. 636.—*Nerium reticulatum*, *Roxb. fl. ind.* 2, p. 8;—*Rheed.* 9, t. 11.) L. 5 ∩ Coromandel. Worlee and Malabar Hills. Elephanta. Bengal, (Serampore.) Nepal. Kemaon, Nahn. Fl. small, yellow, inodorous, R. S.; fr. 0.
2. *elegans*, Wall. (*Cat.*—*G. Don. l. c.*) L. 5 Silhet. Assam. Fl. 1½ inch, pure white, delightfully fragrant, Feb. and March; fr. 0.
- * *Brachylepis nervosa*, W. and A. 5 ∩ Neelgherries.—*Decalepis Hamiltonii*, W. and A. 5 ∩ ? Locality in India unknown.—*Streptocaulon tomentosum*, Wight. 4, ∩ Taong-Dong.—*S. Wallichii*, Wight. 4, ∩ Penang. Singapore.—*S. extensum*, Wight. 4, ∩ Tavoy. Rangoon.—*S. calophyllum*, Wight. 4, ∩ Nepal.—*Hemidesmus pubescens*, W. and A. 5 ∩ Vendalore.—*H. Wallichii*, Wight. 5 ∩ Prome.—*Gymnanthera nitida*, R. Br. 5 ∩ Tropical N. Holland.

ORDER CCXVI.—LOGANIACEÆ, Lindl. Nat. Syst. p. 306.

Herbs, shrubs, or trees, by Lindl. referred to 7 genera. Of these, Spreng. syst. assigns 12 species to New Holland and the South Sea Islands; 4 to Brazil and Guiana; 1 to Guinea; and 2 to the Mascarenhas Islands.—In the E. Indies have been discovered 1 species of *Geniostoma*, (Spreng. c. p. p. 59.—Straits of Malacca); 4 of *Gardnera*, (Himalayas. Khassya Mountains); and 15 of *Fagraea*, (1 from the Khassya Mountains; the rest from the Peninsula of Malacca, the Sunda Islands, and Ceylon, 1 is from China, but cultivated at Penang.) “Properties unknown.” (Lindl.)

? *GARDNERA*, Wall. (*Roxb. fl. ind.*; ed. Carey, 1, p. 400; *ibid.* 2, p. 318;—*D. Don. pr. fl. nep.* p. 132;—*G. Don's Mill. dict.* 4, p. 66.)

1. *ovata*, Wall. (*l. c.*;—*pl. as. rar.* 3, t. 231;—*G. Don. o. c. p.* 67.) L. 5 ∩ Khassya Mountains. Nepal. Fl. smallish, yellow, April; fr. 0.
- FAGRÆA*, Thunb. (*G. Don's Mill. dict.* 4, p. 68.)

1. *obovata*, Wall. (*Roxb. fl. ind.*; ed. Carey, 2, p. 33;—*G. Don. l. c.*) 5 Khassya Mountains. Singapore. Fl. white, fragrant, large. Has been cultivated in the garden here for many years, without flowering.

- * *Geniostoma febrifugum*, Spreng. 5 Brazil.—*G. acuminatum*, Wall. (Spreng.) 5 ∩ Malacca.—*Gardnera angustifolia*, Wall. 5 ∩ Nepal.—*G. glabra*, Wall. 5 ∩ Silhet.—*Usteria guineensis*, Willd. 5 Guinea.—*Fagraea zeylanica*, L. 5 Ceylon.—*F. fragrans*, Roxb. 5 China. Cultivated at Penang.—*F. malayana*, Mart. 5 Penang.—*F. lanceolata*, Bl. 5 Java. Penang.—*F. racemosa*, Jack. 5 Penang.—*F. volubilis*, Wall. 5 ∩ Bencoolen.—*F. auriculata*, Jack. Wall. *pl. as. rar.* 3, t. 222. 5 Paras. Java. Singapore.—*Gürtnera vaginata*, Lam. 5 Mascarenhas Islands.—*Pagamea guianensis*, Aubl. 5 Guiana. N. Brazil.

ORDER CCXVII.—POTALIACEÆ, R. Br. Lindl. Nat. Syst.
p. 306.

Trees or shrubs, natives of Tropical Africa and S. America, amounting only to 4 species.

- * *Potalia amara*, Aubl. 5 Guiana.—*P. resinifera*, Mart. 5 Brazil.—*Anthocleista nobilis*, G. Don. 5 Sierra Leona.—*A. macrophylla*, G. Don. 5 Sierra Leona.

ORDER CCXVIII.—OLEACEÆ, Lindl. Nat. Syst. p. 307.

THE OLIVE TRIBE.

Trees or shrubs, by Lindl. referred to 14 genera. Of these, Spreng. syst. assigns 28 species to N. America; 13 to Europe; 7 to New Holland and Van Diemen's Land; 7 to China and Japan; 4 to S. America, and the W. Indies; 3 to Syria, and Asia Minor; 3 to S. Africa; 3 to the Mascarenhas Islands; 1 to the Canaries; 1 to Tauria; and 1 to Persia. In the E. Indies have been discovered 42 species, viz. 20 of *Olea*; 10 of *Linnociera*; 3 of *Ligustrum*; 1 of *Syringa*; 1 of *Pachyderma*; 1 of *Myxopyrum*; 1-2 of *Chondrospermum*; and 4 of *Ornus*. About 18 of these have been discovered in Nepal, the Himalayas and the Khassya Mountains; the rest are natives of the two Peninsulas of India, Ceylon, Java, and the Moluccas.

"This order (and Aurantiaceæ) offer one of the few instances of oil being contained in the pericarp, from which olive oil is entirely expressed. In most other plants oil is yielded by the seed." (Lindl.)

OLÆA, Tournef. (*G. Don's Mill. dict.* 4, p. 46.) Olive.

1. *sativa*, Hoffmansegg. (*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 109.—*Olea europæa*; *L. β. sp.* 1, p. 11;—*Vahl. enum.* 1, p. 39;—*Brot. fl. lusit.* 1, p. 10;—*All. pedem.* 1, p. 121, No. 449;—*Wood. med. bot.* p. 369, t. 136;—*Plenck. icon.* t. 11;—*Roxb. H. B.* p. 3.—*O. europæa, longifolia*,—*Lodd. B. Cab. t.* 456.—*O. longifolia, Moench*.—*O. polymorpha, Risso*.) *Cultivated Olive*. 5 Aleppo. Lebanon. Was introduced into H. C. G. in 1800, but had not fl. up to 1814.—*J. Grah. l. c.* says: "The climate of India seems to suit it, and it may possibly hereafter become of some importance."
2. *lancea*, Lam. (*Ill.* 1, p. 29, n. 78. *Ejusd. Cyclopædia.* p. 4, 544.) 5 Mauritius. Bourbon.
3. *capensis*, L. (*G. Don. o. c.* p. 48;—*B. Reg.* 8, t. 613.—*O. buxifolia, Mill. dict.*) 5 Has not fl. here, though cultivated for several years.



7. *undulata*, Ait. (*O. undulata*, Jacq. hort. schönbr. 1, t. 2;—Lodd. B. Cab. t. 379;—B. M. 58, t. 309.—*O. laurifolia*, Lam.) 5 C. G. H. Introduced in 1841.
4. *fragrans*, Thunb. (*fl. jap. p.* 18, t. 2;—*G. Don. l. c.*;—*B. M.* 38, t. 1552;—*Roxb. H. B. p.* 3;—*J. Grah. Cat. B. pl. p.* 109.—*Osmanthus fragrans*, Lour.) 5 Japan. China. Cochin China. Fl. small, white, delightfully fragrant, C. S.; fr. O.
- β. *rubra*; Fl. red.
- Much cultivated in its native country for the sake of its flowers, which are said to be put into teas to give them flavour.
5. *chrysophylla*, Lam. (*Ill. p.* 29, n. 77. *Ejusd. cyclop.* 4, 544.) 5 Bourbon.
6. *grandiflora*, Wall. (*Cat.*;—*G. Don. l. c.*) 5 Nepal. Has not flowered in the garden, though cultivated for many years.
7. *attenuata*, Wall. (*Cat.*;—*G. Don. l. c.*) 5 Bank of the Martaban. Introduced in 1840.
8. *clavata*, G. Don. (*l. c.*—*O. Roxburghii*, Spreng; not *O. Roxburghiana*. Röm. and Sch.—*Phillyræa paniculata*, Roxb. *fl. ind.* 1, p. 100; *ed. Carey*, 1, p. 100;—*J. Grah. Cat. B. pl. p.* 108.—not *Olea paniculata*, Roxb. nor R. Br.) 5 China. Fl. small, pure white, somewhat fragrant, H. S.; fr. O.
9. *robusta*, Wall. (*Cat.*—*G. Don. o. c. p.* 49.—*Phillyræa robusta*, Roxb. *fl. ind.* 1, p. 101; *ed. Carey*, 1, p. 101.) L. 5 Silhet. Fl. small, white, June and July; fr. Jan. and Feb. Furnishes the natives of Silhet with very hard, durable wood. (*Roxb.*)
10. *glandulifera*, Wall. (*Cat.*;—*G. Don. l. c.*) 5 Mountains near Deyradhoon. Kemaon. Has been cultivated for many years in the garden here, without flowering.
11. *Roxburghiana*, Röm. and Sch. (*syst.* 1, p. 77;—*G. Don. l. c.*—*O. paniculata*, Roxb. *fl. ind.* 1, p. 105; *ed. Carey*, 1, p. 104; not R. Br.) 5 Circular Mountains. Fl. small, white. Has been introduced into H. C. G.?
12. *dioica*, Roxb. (*fl. ind.* 1, p. 106; *ed. Carey*, 1, p. 105;—*J. Grah. Cat. B. pl. p.* 109;—*G. Don. l. c.*) L. 5 Chittagong. Silhet. Fl. small, white, March; fr. June, but rarely. Timber considered excellent, and put to many uses by the natives. (*Roxb.*)
13. *acuminata*, Wall. 5 Nepal.
14. *verrucosa*, Lk. (*Enum.* 1, p. 33;—*G. Don. l. c.*—*O. europæa*, Thunb. not L.—*O. sativa*, var. *verrucosa*, Röm. and Sch.—*O. africana*, Mill. dict.—*Burm. afr. p.* 237, t. 83, f. 21.) 5 C. G. H. Has been cultivated in the garden here for many years, without flowering.
15. *grata*, Wall. MSS. 5 Native place? Introduced in 1840.
16. *myrtifolia*, Wall. MSS. 5 North-east of Bengal. Fl. small, white, C. and H. S.; fr. O.

LINOCIERA, SWZ. (*G. Don's Mill. dict.* 4, p. 52.)

1. *dichotoma*, Wall. (*Cat.*;—*G. Don. l. c.*—*Chionanthus dichotomus*,

- Roxb. fl. ind.* 1, p. 108; *ed. Carey*, 1, p. 107.) 5 Coromandel. Fl. small, white. In H. C. G. fl. H. S.; fr. Aug. (*Roxb.*)
2. *ramiflora*, Wall. (*Cat.*;—*G. Don. l. c.*—*Chionanthus ramiflorus*, *Roxb. fl. ind.* 1, p. 107; *ed. Carey*, 1, p. 106.) 5 Moluccas. Fl. small, yellow. In H. C. G. fl. March and April; fr. Sept. (*Roxb.*)
3. *macrophylla*, Wall. (*Cat.*;—*G. Don. o. c. p.* 53.) 5 Silhet. Fl. small, white, inodorous, C. S.; fr. H. S.
4. *purpurea*, Vahl. (*Enum.* 1, p. 47;—*G. Don. l. c.*;—*Chionanthus purpureus*, *Lam.*—*C. zeylanicus*, *L. fl. zeyl. No.* 14, *sp.* 11; excl. syn.;—*Roxb. fl. ind.* 1, p. 107; *ed. Carey*, 1, p. 107.—*Thouinia nutans*, *L. fil. suppl.* p. 89;—*Burm. zeyl.* 31.) 5 Ceylon. Fl. 3 lines, yellowish-whitish, inodorous, March and April; fr. 0.
- LIGUSTRUM, Tournef. (*G. Don's Mill. dict.* 4, p. 44.) *Privet*.
1. *japonicum*, Th. Lab. (*Buch. MSS.*—*L. spicatum*, *D. Don. fl. nep. prodr.* p. 107;—*G. Don. o. c. p.* 45.—*L. nepalense*, *Wall.*—*Roxb. fl. ind.*; *ed. Carey*, 1, p. 151; *pl. as. rar.* 3, t. 270;—*B. M.* 56, t. 2921.—*L. lanceolatum*, *Hb. Lamb.*) L. 5 Japan. Mountains of Nepal. Fl. small, white, sweet-scented, C. S.; fr. 0.
- NORONBIA, Pet. Th. (*G. Don's Mill. dict.* 4, p. 49.)
1. *emarginata*, Poir. (*Hook. bot. misc.* 2, p. 167, t. 88;—*G. Don. l. c.*—*N. chartacea*, *Stadm. MSS.*—*N. Binia*, *Pet. Th.*—*Olea emarginata*, *Vahl. enum.* 1, p. 42;—*Lam. dict.* 4, p. 545; *ill. t. 8, f. 2.*) 5 Madagascar. Grown in the gardens at Mauritius, under the name of *Ponai des Indes*.—Fruit the size of a walnut, edible. Lately introduced.
- CHONDROSPERMUM, Wall. (*Cat.*—*G. Don's Mill. dict.* 4, p. 50.)
1. *laurifolium*, (*C. smilacifolium*, *Wall. Cat.*;—*G. Don. l. c.*—*Ligustrum laurifolium*, *Roxb. H. B.* p. 3; according to *G. Don. l. c.*—*Chionanthus*? *smilacifolius*, *Wall.*—*Roxb. fl. ind.*; *ed. Carey*, 1, p. 108.) 5 Chittagong. Fl. small, pale green, scentless, April and May; fr. C. S.
2. *dentatum*, Wall. Burma.
- FRAXINUS, Tournef. (*G. Don's Mill. dict.* 4, p. 53.) *Ash*.
1. *excelsior*, L. (*G. Don. l. c.*;—*E. B.* 24, t. 1692.—*F. apetal*, *Lam. fl. fr.*; *ill. t.* 858, *f.* 1.—*F. rostrata*, *Guss. pl. rar.* p. 374.—*F. Ornus*, *Scop.*; not L.—*F. erosa*, *Pers.*—*F. crispa*, *Bosc.*) Common Ash. 5 Europe. Has been introduced into H. C. G. Fl.?
2. *chinensis*, *Roxb. (fl. ind.* 1, p. 148; *ed. Carey*, 1, p. 150;—*G. Don. o. c. p.* 55.) 5 China. Flowers small, green, H. S.; but rarely.
- ORNUS, Pers. (*G. Don's Mill. dict.* 4, p. 56.) *Manna Ash*.
1. *europæa*, Pers. (*G. Don. l. c.*—*Fraxinus Ornus*, L.;—*Sibth. and Sm. fl. gr.* 1, t. 4;—*Mill. fig. t.* 1;—*Lam. ill.* 9, t. 858, *f.* 1.—*F. florifera*, *Scop.*—*F. botryoides*, *Mor.*—*F. vulgator*, *Segn.*—*F. Ornus* and *paniculata*, *Mill. dict. No.* 3, 4.) 5 S. Europe. Has been introduced into H. C. G. Fl.?
2. *floribunda*, *G. Don. (Lond. hort. brit.* p. 12;—*Mill. dict. o. c. p.* 57.—*Fraxinus floribunda*, *Wall.*;—*Roxb. fl. ind.*; *ed. Carey*, 1, p. 150;—*D.*



Don. prodr. fl. nep. p. 106;—Wall. pl. as. rar. 3, t. 277.) L. 5 Nepal. Has been cultivated in the garden here for many years, without flowering.

- * *Olea Oleaster*, Hoffmannsegg, 5 Portugal.—*O. lancea*, Vahl. 5 Mauritius.—*O. paniculata*, R. Br. 5 Tropical N. Holland.—*Notelaea punctata*, R. Br. 5 Tropical N. Holland.—*N. microcarpa*, R. Br. 5 Tropical N. Holland.—*Linociera ligustrina*, Swz. 5 Jamaica.—*L. latifolia*, Vahl. 5 W. Indies.—*L. compacta*, R. Br. 5 W. Indies.—*Chionanthus axillaris*, R. Br. 5 Tropical N. Holland.—*Ligustrum bracteolatum*, D. Don. 5 Nepal.—*L. lucidum*, Ait.; B. M. 52, t. 2565. 5 China.—*Syringa chinensis*, Willd. 5 China.—*S. persica*, L.; B. M. 14, t. 486. 5 Persia.—*Noronia cernua*, G. Don. 5 Mauritius.—*Pachyderma javanicum*, Bl. 5 Java.—*Myzopyrum nervosum*, Bl. 5 Java.—*Fraxinus Schiediana*, Schlecht. 5 Mexico.—*F. juglandifolia*, Lam. 5 Carolina.—*Ornus urophylla*, G. Don. 5 Khasya Mountains.

ORDER CCXIX.—JASMINACEÆ, Lindl. Nat. Syst. p. 308.

THE JASMINE TRIBE.

Shrubs, usually twining, and 1 tree, by Lindl. referred to 3 genera. Of these, Spreng. syst. assigns 8 to New Holland and the South Sea Islands; 3 to S. Africa; 3 to Brazil and Peru; 2 to Guinea; 2 to China; 1 to Cochin China; 1 to the Azores; 1 to S. Europe; and 2 to Madeira. Wall. Cat. adds 1 *Jasminum* for Mauritius, and Lindl. 1 *Bolivaria* for Mexico. In the E. Indies have been discovered 66 species of *Jasminum*, and 1 of *Nyctanthes*. Of these about 20 have been found in the Himalayas, the Khasya Mountains, and Assam; the rest are natives of Bengal, both Peninsulas of India, Ceylon, Sunda Islands, and the Moluccas.

"Properties not very different from those of Oleaceæ, except that their oil is deliciously fragrant, and produced by the flowers, and not by the pericarp. The genuine essential oil of the shops is produced by the *Jasminum officinale* and *grandiflorum*; but a similar perfume is also procured from *Jasminum Sambac*." (Lindl.)

JASMINUM, Forsk. (*G. Don's Mill. dict. 4, p. 59.*)

1. *Sambac*, Ait. (*G. Don. o. c.;—Roxb. fl. ind. 1, p. 88; ed. Carey, 1, p. 87;—B. Reg. 1, t. 1.—J. Grah. Cat. B. pl. p. 110.—I. undulatum, Willd.—Mogorium Sambac, Lam.—Nyctanthes Sambac, L.*) 5 All over India. Fl. 14 lines long, white, delightfully fragrant. H. S.; fr. R. S. a. *simplex*. (*B. Reg. 1, t. 1;—Rheed. 6, t. 55.*) बन मञ्जिका *Bun-Mulika*. Single flowered Arabian Jasmine. (

- β. duplex*, (Rheed. 6, t. 50;—Rumph. 5, t. 30;—Burm. zeyl. t. 58, f. 2;—B. Repos. t. 497.) বেলা *Bela*. Double-flowered Arabian Jasmine. (—)
- γ. plenum*, (*trifoliatum*;—Rheed. 6, t. 51;—B. M. 43, t. 1785;—Rumph. 5, t. 30. a.) বড় বেলা *Buro-Bel*. Great double Arabian or Tuscan Jasmine.—not. (—)
2. *scandens*, Vahl. (*G. Don. l. c.*;—Roxb. *fl. ind.* 1, p. 89; ed. Carey, 1, p. 88.—*Nyctanthes scandens*, Retz.—*Mogorium scandens*, Lam.) L. 5 (—) Chittagong. Gungachara. Fl. 8 lines, white, fragrant, Jan. Feb. and March; fr. R. S. but rare.
 3. *elongatum*, Vahl. (*Willd.*;—*G. Don. l. c.*;—Roxb. *fl. ind.* 1, p. 90; ed. Carey, 1, p. 89;—*J. Grah. Cat. B. pl.* p. 111.—*Nyctanthes elongata*, L.;—Berg. *act. angl.* 1772, p. 290, t. 11.) L. 5 (—) Java. Soonderbuns. Fl. largish, pure white, fragrant, March and April; fr. R. S.
 4. *hirsutum*, L. (*Syst. p.* 56;—*Sm. exot. bot.* 2, p. 117, t. 118;—*B. Reg.* 1, t. 15;—*B. M.* 45, t. 1991;—*Vahl.*;—*Willd.* excl. syn. Rheed.—*J. pubescens*, *Willd.*;—*Vahl.*;—*G. Don. l. c.*;—Roxb. *fl. ind.* 1, p. 91; ed. Carey, 1, p. 90;—*J. Grah. Cat. B. pl.* p. 110.—*J. multiflorum*, *Andr. B. Repos.* 8, t. 496.—*Nyctanthes hirsuta*, L. *sp.* 1, p. 8, excl. syn.—*N. pubescens*, Retz.—*N. multiflora*, *Burm. ind.* 5, t. 2, f. 1. excl. syn.—Rheed. 6, t. 54.) কুন্দ *Koondo*. 5 Coromandel. S. Concan. Bengal, (Serampore.) Monghir. Khassya Mountains. Assam. Deyra-Dhoon. Fl. 18 lines, pure white, fragrant, R. and C. S.; fr. O.
 5. *laurifolium*, Roxb. (*fl. ind.* 1, p. 92; ed. Carey, 1, p. 91;—*G. Don. o. c. p.* 60.—*J. angustifolium*, *β. laurifolium*, *B. Reg.* 7, t. 521.) 5 (—) Khassya Mountains. Fl. 16 lines long, white, fragrant, with a pale greenish tube, Nov. and Dec.; fr. O.
 6. *glandulosum*, Wall. (*Cat.*;—*G. Don. o. c. p.* 61.) 5 (—) Nepal. Has been introduced into. H. C. G. Fl.?
 7. *coarctatum*, Roxb. (*fl. ind.* 1, p. 92; ed. Carey, 1, p. 91;—*G. Don. l. c.*) L. 5 Chittagong. In H. C. G. fl. H. S. (Roxb.)
 8. *trinerve*, Vahl. (*Symb.* 3, p. 2;—*G. Don. l. c.*;—*B. Reg.* 11, t. 918;—*J. Grah. Cat. B. pl.* p. 110;—not Roxb.—*J. acuminatum*, Pers.—*Mogorium acuminatum*, Lam.) 5 (—) Java. Fl. large, white, fragrant, H. S.; fr. O.
 9. *stenopetalum*, Lindl. (*Spreng. syst. c. p.* p. 11;—*B. Reg. vol.* 9, app.—*J. trinerve*, *Roxb. fl. ind.* 1, p. 93; ed. Carey, 1, p. 91;—not Vahl.) 5 (—) Forests of Silhet. Fl. large, white, fragrant, H. S.; fr. R. S.
 10. *aristatum*, Wall. (*Cat.*) 5 (—) Khassya Mountains. In H. C. G.
 11. *bracteatum*, Roxb. (*fl. ind.* 1, p. 94; ed. Carey, 1, p. 92;—*G. Don. o. c. p.* 60.) 5 (—) Sumatra. Fl. 1 inch, white, fragrant, C. S.; fr. April.
 12. *bifarium*, Wall. (*Cat.*—*G. Don. l. c.*) 5 (—) Penang. Fl. middle-sized, white, fragrant, March and April.
 13. *latifolium*, Roxb. (*fl. ind.* 1, p. 95; ed. Carey, 1, p. 93;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 110.) 5 (—) Circar Mountains. Elephanta.



- Kennery Jungles. The Ghauts. Mahableshwur, &c. Fl. largish, white, fragrant, March and April; fr. 0.
14. *arborescens*, Roxb. (*fl. ind.* 1, p. 95; *ed. Carey*, 1, p. 94;—*G. Don. l. c.*;—*J. Grah. Cat. B. pl.* p. 110.—*Nyctanthes grandiflora*, Lour.) बड़ कुन्ना Buro-Koondo. 𑂔 China. Cochin China. Courtallam. Monghir. Hurdwar. Fl. large, snow-white, very fragrant, March and April; fr. 0.
15. *angustifolium*, Vahl. (*Enum.* 1, p. 29;—*G. Don. l. c.*;—*Roxb. fl. ind.* 1, p. 96; *ed. Carey*, 1, p. 95;—*J. Grah. Cat. B. pl.* p. 110.—*J. vimineum* and *angustifolium*, Willd.—*J. triflorum*, Pers.—*Nyctanthes angustifolia*, L. *sp. pl. ed.* 2, p. 18.—*N. viminea*, Retz.—*N. triflora*, Burm. *ind. t.* 2.—*Mogorium triflorum*, Lam. *ill. t.* 6;—*Rheed.* 6, t. 53.) 𑂔 𑂔 Coromandel Forests. Fl. largish, white, with a faint tinge of red, pleasantly fragrant, March, April and May, sometimes also R. S.; fr. 0.
16. *simplicifolium*, Forst. (*Prodr.* 3, No. 7;—*G. Don. o. c. p.* 61;—*Roxb. fl. ind.* 1, p. 97; *ed. Carey*, 1, p. 96.—*B. M.* 25, t. 980.—*J. australe*, Pers.) 𑂔 Friendly Islands. Fl. middle-sized, white, fragrant, Feb. and March; fr. 0.
17. *gracile*, Andr. (*B. Repas. t.* 127;—*R. Br. pr.* p. 521;—*B. Reg.* 8, t. 606;—*G. Don. l. c.*) 𑂔 Tropical N. Holland. Has been introduced into H. C. G. Fl.?
18. *syringæfolium*, Wall. (*Cat.*—*G. Don. o. c. p.* 62.) 𑂔 𑂔 Amherst. Tavoy. Fl. middle-sized, pure white, fragrant, Feb. and March; fr. 0.
19. *ligustrifolium*, Wall. MSS. (*not Lam.*) 𑂔 𑂔 Khaassya Mountains. Fl. middle-sized, pure white, fragrant, Feb.; fr. 0.
20. *attenuatum*, Roxb. (*H. B. p.* 3;—*G. Don. l. c.*) 𑂔 𑂔 Silhet. Was introduced into H. C. G. in 1811, but had not fl. up to 1814.
21. *lanceæfolium*, (*J. lanceolatum*, Roxb. *H. B. p.* 3, *not Ruiz.* and Pav. *nor J. lanceolaria*, Roxb.) 𑂔 𑂔 Silhet. Was introduced into H. C. G. in 1810, but had not fl. up to 1814.
22. *auriculatum*, Vahl. (*Symb.* 3, p. 1;—*G. Don. l. c.*;—*Roxb. fl. ind.* 1, p. 98; *ed. Carey*, 1, p. 96;—*B. Reg.* 4, t. 264;—*J. Grah. Cat. B. pl.* p. 111.—*J. trifoliatum*, Pers.; *not Telfair.*—*Mogorium trifoliatum*, Lam.) 𑂔 𑂔 Jooia. 𑂔 𑂔 Mauritius. Peninsula of India. Bengal. Assam, &c. Fl. 1 inch, white, with a pale-greenish tube, very fragrant, H. and R. S.; fr. 0.
23. *azoricum*, Vahl. (*Enum.* 1, p. 31;—*G. Don. l. c.*;—*B. Reg.* 1, t. 89;—*B. M.* 44, t. 1889.—*J. trifoliatum*, Mönch.; *not Pers.*; *nor Telfair.*—*Nyctanthes azorica*, L. *sp.* 1, p. 9.) 𑂔 𑂔 Azores. Madeira. Fl. 1 inch, white, tinged on the outside with rose, fragrant, the tube pale yellowish. Lately introduced.
24. *lonchophyllum*, (*J. lanceolaria*, Roxb. *fl. ind.* 1, p. 98; *ed. Carey*, 1, p. 97;—*G. Don. o. c. p.* 63; *not J. lanceolatum*, Ruiz and Pav.; *nor Roxb.*) 𑂔 𑂔 Silhet. In H. C. G. fl. R. S. (*Roxb.*)
25. *paniculatum*, Roxb. (*fl. ind.* 1, p. 99; *ed. Carey*, 1, p. 97;—*G. Don.*



- l. c.*;—*B. Cab.* 5, *t.* 469;—*B. Reg.* 9, *t.* 690.) 5 China. Fl. 3 lines, white, becoming reddish yellow, as they go off. In H. C. G. fl. R. S. (*Roxb.*)
26. *dispermum*, Wall. (*Roxb. fl. ind.*; *ed. Carey*, 1, *p.* 99; *pl. as. rar.* 3, *t.* 274;—*G. Don. l. c.*) 5 Nepal. Sirmore. Kemaon. Fl. large, white, fragrant. Has been cultivated here for several years without flowering.
27. *fruticans*, L. (*Spec.* 1, *p.* 9;—*Vahl. enum.* 1, *p.* 33;—*G. Don. l. c.*;—*B. M.* 13, *t.* 461.—*J. heterophyllum*, *Mönch.*; not *Roxb.*) 5 S. France. Levant. Fl. 6 lines, yellow, inodorous, Feb. and March; fr. 0.
28. *odoratissimum*, L. (*Sp.* 1, *p.* 10;—*Vahl. enum.* 1, *p.* 33;—*G. Don. l. c.*;—*B. M.* 8, *t.* 285;—*J. Grah. Cat. B. pl.* *p.* 111.) 5 Madeira. Fl. about 1 inch, deep yellow, somewhat fragrant. Lately introduced.
29. *heterophyllum*, *Roxb.* (*fl. ind.* 1, *p.* 100; *ed. Carey*, 1, *p.* 99 and 164; *Wall. pl. as. rar.* 3, *t.* 275;—*G. Don. l. c.*; not *Mönch.*—*J. arboreum*, *Buch. MSS.*) 5 Nepal. Fl. about 6-8 lines, yellow, delightfully fragrant. Has been in the garden here more than 30 years, without flowering.
- β. macrophyllum*, Wall. Nepal. Perhaps a distinct genus.
30. *caudatum*, Wall. (*Cat.*) 5 Nepal. Khassya Mountains. Fl. largish, white, Feb. and March; fr. 0.
31. *grandiflorum*, L. (*Sp.* 1, *p.* 9;—*Vahl. enum.* 1, *p.* 34;—*G. Don. l. c.*;—*B. Reg.* 2, *p.* 91;—*Roxb. fl. ind.* 1, *p.* 100; *ed. Carey*, 1, *p.* 98;—*J. Grah. Cat. B. pl.* *p.* 111;—*Rheed.* 6, *t.* 52.) जाती *Jatee*, Catalonian or Spanish Jasmine. 5 Common in gardens all over India. Fl. $1\frac{1}{4}$ inch, white, externally suffused with purple, peculiarly fragrant, H. S.; fr. 0. The flowers are commonly used to make Durbar and Wedding garlands.
- β. plenum*. Fl. double.
32. *chrysanthemum*, *Roxb.* (*H. B.* (1814,) *p.* 3; *fl. ind.* 1, *p.* 99; *ed. Carey*, 1, *p.* 98.—*J. revolutum*, *Sims.*; *B. M.* (1815,) 42, *t.* 1731;—*B. Reg.* (1817,) 3, *t.* 178;—*G. Don. o. c.* *p.* 64;—*Lodd. B. Cab.* *t.* 966.) 5 Patna, Mountains near Deyra-Dhoon. Sirmore. Kemaon. Fl. 1 inch, bright yellow, delightfully fragrant, April and May; fr. 0.
33. *pubigerum*, D. Don. (*Prodr. fl. nep.* *p.* 106;—*G. Don. l. c.*—*J. Wallichianum*, *Lindl. B. Reg.* 17, *t.* 1409.) 5 Nepal. Fl. bright-yellow, smaller than those of the preceding species. Has not fl. here.
34. *approximatum*, Wall. Khassya Mountains.
35. *calycinum*, Wall. MSS. Khassya Mountains.
36. *molle*, Wall. Sirmore.
- NYCTANTHES, L. (*G. Don's Mill. dict.* 4, *p.* 64.)
1. *Arbor tristis*, L. (*Spec.* *p.* 8;—*G. Don. l. c.*;—*B. Reg.* 5, *t.* 399;—*Roxb. fl. ind.* 1, *p.* 86; *ed. Carey*, 1, *p.* 85;—*J. Grah. Cat. B. pl.* *p.* 111.—*Scabrita scabra*, *Vahl. symb.* 2, *p.* 28.—*S. triflora*, L. *Mant.* 1,



p. 37.—*Parilium Arbor tristis*, Gärtn. fr. 1, p. 234, t. 51, f. 1.—*Rheed.* 1, t. 21.) शिबिहर Singahar. 5 Very common about the houses of the natives, all over India. Fl. 9-10 lines white, with the tube orange, exquisitely fragrant, opening at sunset, and falling off at sunrise, R. S.; fr. C. S. "The orange tubes of the flowers dye a most beautiful buff or orange colour, with the various shades between them, according to the preparation and mode of conducting the operation, but, unfortunately, no way has yet been discovered of rendering this elegant colour durable." (*Roxb.*)

- * *Jasminum quinqueflorum*, Buch. 5 ∪ Gungachara. Patna.—*J. glabrum*, Horsf. 5 ∪ Batavia.—*J. punctatum*, Buch. 5 ∪ Patna.—*J. amplexicaule*, Buch. 5 ∪ Goalpara.—*J. cuspidatum*, Willd. 5 ∪ Neelgherries.—*J. undulatum*, Vahl; B. Reg. 6, t. 436. 5 ∪ China.—*J. acuminatum*, R. Br. B. Reg. 15, t. 1296. 5 ∪ Tropical N. Holland.—*J. trifoliatum*, Telfair, Mauritius.—*J. divaricatum*, R. Br. 5 ∪ Tropical N. Holland.—*J. humile*, L.; B. Reg. 5, t. 350. 5 Madeira.—*J. glaucum*, Ait. 5 ∪ C. G. H. Has been introduced at Bombay.—*J. officinale*, L.; B. M. 1, t. 31. 5 ∪ S. Europe. Cultivated at Bombay.—*Bolivaria integrifolia*, Cham. and Schlecht. 5 Brazil.—*B. trifida*, Cham. and Schlecht. 5 Brazil.—*B. helianthemoides*, Lindl. 5 Mexico.

CLASS 2D.

GYMNOSPERMÆ.

Lindl. Nat. Syst. p. 310.

ORDER CCXX.—GNETACEÆ, Lindl. Nat. Syst. p. 311.

Small trees or shrubs, natives of the temperate parts of Europe, Asia, and S. America, and, in the case of *Gnetum*, of the hottest parts of India and Guiana. (*Lindl.*) The former constitute the genus *Ephedra*, containing 6 species, one of which inhabits the Himalayas; the latter has but 3 species, two Indian, and one from Guiana.

GNETUM, L. (*Spreng. syst.* 3, p. 758, No. 3071;—*Endl. gen. pl.* 1, p. 263. —*Gnemon*, *Rumph.*—*Thoa*, *Aubl.*—*Abutua*, *Lour.*)

1. *Gnemon*, L. (*Spreng. syst.* 3, p. 777;—*Roxb. fl. ind.* 3, p. 518.—*Gnemon domestica*, *Rumph.* 1, t. 71.) 5 Moluccas. Sumatra. Fl. small, greenish. Was introduced into H. C. G. in 1810, but has not fl. up to 1814. Strong ropes are made of the fibres of its bark at Sumatra, and its leaves are used as spinage. (*Roxb.*) The seeds are eaten roasted, boiled, or fried. (*Rumph.*)



2. *scandens*, Roxb. (*fl. ind.* 3, p. 518;—*J. Grah. Cat. B. pl.* p. 188.—*Gnemon funicularis*, *Rumph.* 5, t. 7, 8.—*Thoa edulis*, *Willd. sp.* 4, p. 477;—*Rheed.* 7, t. 22.) L. 5 $\cup$ Moluccas. Malabar. Lanowlee grove, near Kandalla. Ravines at Parr. Both Conceans. Chittagong. Khassya Mountains. Assam. Fl. small, greenish. In H. C. G. fl. March and April; fr. Sept. and Oct. (*Roxb.*)

* *Gnetum urens*. 5 Guiana.

ORDER CCXXI.—CYCADACEÆ, Lindl. Nat. Syst. p. 313.

"Trees, with a simple cylindrical trunk, increasing by the development of a single terminal bud, and covered by the scaly bases of the leaves," (*Lindl.*) referred by the latter to 4 genera. Of these, *Spreng.* syst. enumerates 9 for S. America and the W. Indies; 1 for Florida, also found in the W. Indies; 1 for China and Japan; and 3 for New Holland.—In S. Africa have been discovered 12 species, (*Harvey*); and in the E. Indies 2 forms of *Cycas*.—*Lindl.* adds, that, according to R. Brown, species have also been found in Madagascar.

The only remarkable quality in the order is the production of a kind of Sago, by the soft centre of *Cycas circinalis*. They all abound in a mucilaginous nauseous juice. (*Lindl.*)

ZAMIA, L. (*Spreng. syst.* 3, p. 895, No. 3199;—*Endl. gen. pl.* 1, p. 71.)

1. *longifolia*, Jacq. (*Fragm.* 1, p. 28, t. 29;—*Spreng. syst.* 3, p. 908.)

5 C. G. H. Has been cultivated in the garden here for many years, without flowering.

2. *horrida*, Jacq. (*Fragm.* 1, p. 27, t. 27, 28;—*Spreng. l. c.*;—*J. Grah. Cat. B. pl.* p. 198.) 5 C. G. H. Like the preceding species, it has not fl. here.

CYCAS, L. (*Spreng. syst.* 3, p. 895, No. 3198;—*Endl. gen. pl.* 1, p. 71.)

1. *circinalis*, L. (*Spreng. syst.* 3, p. 907;—*Roxb. fl. ind.* 3, p. 744;—*B. M.* 55, t. 2826-7;—*J. Grah. Cat. p.* 198.—*C. inermis*, *Lour.*; *Spreng. l. c.*;—*Rheed.* 3, t. 13, 21;—*Rumph.* 1, t. 22 and 23.) 5 Moluccas. China. Cochin-China. Fl. May; fr. Dec. and January. In gardens and plantations towards the sea-coast of the Southern provinces of Malabar, this plant is very common; it grows spontaneously from the nuts that accidentally fall. The nuts are collected, and having been dried for a month in the sun, are beaten in a mortar, and the kernels formed into a flour. This is reckoned superior to the flour obtained from the stem of the *Caryota urens*, L.; but is only used by the poor, who between the 14th of July and 13th of Sept. are in danger of perishing. It is prepared during the former month, and cannot be preserved longer than the end of the latter.



The Sago of the shops, formerly believed to come from the trunk of *Cycas circinalis*, is chiefly the product of *Sagus farinifera*. Gärtn. (Buch.)

2. *revoluta*, Thunb. (Spreng. syst. 3, p. 907;—Sm. in Linn. Soc. trans. 6, t. 29, 30;—Roxb. fl. ind. 3, p. 746;—B. M. 57, t. 2963-4;—Rumph. 1, t. 24.) 5 Japan. China. ♀ Common in gardens about Calcutta. Fl. H. S.; fr. C. S. "The taste of the fruit is mealy, dry and sweetish, but insipid. It is the general opinion here, that this is the Sago Palm, or the plant that produces Sago. The Japanese eat the fruits, and from the trunk extract a kind of Sago, which is highly esteemed, especially by the people of rank. On this account, the plant is much cultivated about their houses, and is forbidden to be exported. A very small quantity of the medulla or pith suffices to satisfy the hunger of a soldier in the time of war." (B. M. 1. c.) Roxb., however, says, that he has no reason to think, that the plant, which was introduced into H. C. G. in 1794, can ever be made a useful article of diet.
3. *sphærica*, Roxb. (fl. ind. 3, p. 747.) 5 Moluccas. Fl. R. S.; fr. C. S.

* *Zamia furfuracea*, Ait.; B. M. 45, t. 1969. 5 W. Indies.—*Z. muricata*, Humb. 5 New Granada.—*Z. integrifolia*, Ait.; B. M. 43, t. 1851. 5 W. Indies.—*Z. debilis*, Ait.; B. Cab. t. 155. 5 W. Indies.—*Z. media*, Jacq.; B. M. 43, t. 1838. 5 W. Indies.—*Z. pygmaea*, Sims.; B. M. 42, t. 1741. 5 W. Indies.—*Z. pumila*, L.; B. M. 45, t. 2006. 5 Bahama Islands.—*Cycas media*, R. Br. 5 Tropical N. Holland.—*C. angulata*, R. Br. 5 Tropical N. Holland.

ORDER CCXXII.—PINACEÆ, Lindl. Nat. Syst. p. 313.

(Coniferae, Juss.)

THE FIR TRIBE.

Trees or shrubs, by Lindl. referred to 11 genera. Of these, Spreng. syst. and Roxb. fl. ind. enumerate 20 species for Europe; 20 for N. America; 8 for Mexico, and the W. Indies; 5 for the Orient; 4 for Japan; 8 for China; 2 for the South Sea Islands; 2 for Siberia; 3 for Caucasus; 3 for S. Africa; 1 for N. Africa; 1 for the Canaries; 1 for Madagascar; and 1 for Arabia. In the E. Indies have been discovered about 19-20 species, viz. 7 of *Pinus*, Himalayas, (1 from Cochin-China); 1 of *Abies*; (Himalayas); 1 of *Dammara*, (Amboyna); 1 of *Thuja*, (Himalayas?); 2-3 of *Cupressus*, (Himalayas); 1 of *Taxodium*, (Himalayas); and 5 of *Juniperus*, (Himalayas.)

"No order can be named of more universal importance to mankind than this, whether we view it with reference to its timber or its secretions.



Gigantic in size, rapid in growth, noble in aspect, robust in constitution, these trees form a considerable proportion of every wood or plantation in cultivated countries, and of every forest where nature remains in savage state. Their timber, in commerce, is known under the names of Deal, Fir, Pine, and Cedar, and is principally the wood of the Spruce, the Larch, the Scotch Fir, the Weymouth Pine, and the Virginian Cedar; but others are of at least equal, if not greater value: the Norfolk Island Pine is an immense tree, known to botanists as *Arancaria excelsa*; the Kawrie tree of New Zealand, or *Dammara australis*, attains the height of 200 feet, and yields a light compact wood, free from knots. (*Ed. Ph. Journ.* 13. 378.) But they are both surpassed by the stupendous Pines of N. W. America, one of which, *P. Lambertiana*, is reported to attain the height of 230 feet, and the other, *Abies Douglassii*, to equal, or even to exceed it. The latter is probably the most valuable of the whole for its timber." (*Lindl.*) "The terebinthinate secretion, for which the order is chiefly noted, abounds in the bark, but is also found in the wood and in the cones. *Turpentine*, containing a resina and an essential oil, is known under different names, such as Common, Venice, Strasburg, American, &c., but might also be had in any quantity from the Himalayan Pine forests. *Pitch* and *tar* have both been made from Himalayan pines, but remain still unnoticed by the commercial world. As the *seeds* of several exotic pines are eaten in the countries where they are indigenous, so, in the Himalayas, the seed of one species, *Pinus Gerardiana*, forms one of the principal articles of subsistence in Kunawur, as well as of considerable trade from the hills to the plains." (*Royle. ill. p.* 351-53.)

A. PINÆ, (Abietinæ, Rich.)

PINUS, L. (*Spreng. syst.* 3, p. 763, No. 3143;—*Endl. gen. pl.* 1. p. 260.)
Pine.

1. *longifolia*, Lamb. (*Pin. t.* 21. 8vo. ;—*Spreng. syst.* 3, p. 887;—*Roxb. fl. ind.* 3, p. 651;—*Royle ill. t.* 85, f. 1.) L. 5 Entrance to Nepal, in the Kheree Pass, along the Tonse and Jumna Rivers, and at elevations of 5-6000 feet within the Himalayas. FL. C. S. In the Upper Provinces, called *Cheer* or *Surul*. Being found at the lowest elevations, and therefore most accessible from the plains, it is often employed as a substitute for English deal. The *wood* is light, and being full of resinous matter, like that of the Deodar, both are frequently employed in the hills for making torches, as pieces of other species often are in other parts of the world. The *Cheer* exudes, or yields to incisions, a very fine *turpentine*. This is chiefly valued by the natives for its resin, and as the latter is only obtained by exposing the turpentine to heat, the oil, the more valuable product, is dissipated to procure the resin; but by adopting a very simple still, the resin was obtained as good as ever for the purposes of the natives, while the oil of turpentine, which distilled over, was pronounced, on being sent to the General Hospital of Calcutta, "to be of very superior quality." (*Royle.*)



2. *Deodara*, Roxb. (*H. B.* p. 69; *fl. ind.* 3, p. 651;—*Lamb. Pin.* 8vo. t. 52.) देवदारु *Debdaroo*. L. 5 Narainhetty, in Nepal, and at Simla, Bhotea pergunnahs of Kemaon. Fl. Aug. to Oct. Sometimes thirty feet in circumference. The wood is particularly valued for its durability, and is therefore much used in the construction of Himalayan houses, as are also the planks of *Abies Pindrow*. Deodar yields a somewhat coarse, very fluid kind of *turpentine*, which is much valued in Upper India as a stimulating application to foul and indolent ulcers. The leaves and small twigs of the Deodar are likewise brought down to the plains, being much used in native medicine. (*Royle*.)

3. *sinensis*, Lamb. (*Loud. Hort. Brit.* p. 387, No. 23,602.—*P. chinensis*, *Roxb. H. B.* p. 69.) 5 China. Introduced into H. C. G. in 1811, Fl. ?

The *Pinus sylvestris*, L.; E. B. 35, t. 2460. Europe. N. Asia;—*P. Pamitis*, Hünke.; (*P. Mughus*, Scop.) Austria. Hungary;—*P. Pinaster*, Ait; France, Italy; and *P. Pinea*, L.; S. Europe, have been introduced into H. C. G. but not succeeded.

CUNNINGHAMIA, R. Br. (*MSS.*;—*Endl. gen. pl.* 1, p. 260; not Schreb.)

1. *sinensis*, Rich. (*Conif.* p. 80;—*B. M.* 54, t. 2743;—*Belis jaculifolia*, *Salisb.*;—*Spreng. syst.* 3, p. 888.—*Pinus lanceolata*, *Lamb. pin. p.* 52, t. 34.—*P. Abies*, *Lour.* not L. and excl. most syn.) L. 5 China. Introduced into H. C. G. Fl. ?

DAMMARA, Rumph. (*Mirb.*;—*Endl. gen. pl.* 1, p. 261.)

1. *orientalis*, Lamb. (*D. alba*, *Rumph.* 2, t. 57.—*Pinus Dammara*, *Lamb.*;—*Roxb. H. B.* p. 69.—*Agathis loranthifolia*, *Salisb.*) 5 Amboyna. Introduced into H. C. G. in 1798, but had not fl. up to 1814.

ARAUCARIA, Juss. (*Endl. gen. pl.* 1, p. 261.)

1. *excelsa*, R. Br. (*in Hort. Kew.*—*Dombeya excelsa*, *Lamb. pin. t.* 39, 40.—*Colymbea excelsa*, *Spreng. c. p.* 315.) L. 5 Tropical N. Holland. N. Caledonia. Introduced in 1840.

2. *Cunninghami*, 5 N. Holland.

B. CUPRESSÆ, (*Cupressina*, *Rich.*)

THUJA, Tournef. (*Spreng. syst.* 3, p. 763, No. 3148;—*Endl. gen. pl.* 1, p. 258.) *Arbor Vitæ*.

1. *occidentalis*, L. (*Spreng. syst.* 3, p. 888;—*Roxb. H. B.* p. 69.) *American Arbor Vitæ*. 5 N. America. Siberia. Introduced into H. C. G. in 1809, but had not fl. up to 1814.

2. *orientalis*, L. (*Spreng. l. c.*;—*Roxb. fl. ind.* 3, p. 653;—*J. Grah. Cat. B. pl.* p. 198;—*Lam. ill. t.* 787, f. 2;—*Gärtn. fr.* 2, p. 61, t. 91, f. 2;—*Lour.*) *Chinese Arbor Vitæ*. 5 China. Japan. Nepal? Fl. H. S.; fr. R. S.

3. *sphæroidea*, Rich. (*Spreng. syst.* 3, p. 889;—*Cupressus thyoides*, L.) 5 N. America. Has not flowered here, though cultivated for many years.

CUPRESSUS, Tournef. (*Spreng. syst.* 3, p. 763, No. 3149;—*Endl. gen. pl.* 1, p. 259.) *Cypress*.

1. *sempervirens*, L. (*Spreng. syst.* 3, p. 889;—*Gärtn. fr.* 2, p. 64, t. 91, f. 5;—*Roxb. fl. ind.* 3, p. 653.) *सुरस* *Suras*, 5 3. Europe. Himalayas. Fl. H. S.; fr. R. S. Leaves and berries thought by the natives to be a cure for every disease.

2. *torulosa*, Lamb. (*Spreng. syst.* 3, p. 889.) 5 Bootan. Neetee. In H. C. G. ?

3. *australis*, Pers. (*Syn.* 2, p. 580;—*Spreng. l. c.*) 5 N. Holland. Has been introduced into H. C. G. Fl. ?

4. *fastigiata*, Wall. MSS. 5 Native place? Introduced in 1838. Has not fl.

PACHYLEPIS, Brongn. (*Endl. gen. pl.* 1, p. 259; not Less.)

1. *cupressoides*, Brongn. (*Thuja cupressoides* L.;—*Spreng. syst.* 3, p. 889.) 5 C. G. H. Has not fl. here.

2. *juniperoides*, Brongn. (*Cupressus juniperoides*, L.;—*Schubertia capensis*, *Spreng. syst.* 3, p. 890.) 5 C. G. H. Has been cultivated here for more than twelve years, without flowering.

JUNIPERUS, L. (*Spreng. syst.* 3, p. 895, No. 3200;—*Endl. gen. pl.* 1, p. 258.)

1. *communis*, L. (*Spreng. syst.* 3, p. 908;—*Gärtn. fr.* 2, p. 62, t. 91, f. 3;—*Blackw. t.* 187;—*Plenck. t.* 719;—*Roxb. fl. ind.* 3, p. 839.) *Common Juniper*. 5 Europe. Middle Asia. Neetee Pass. Kunawar. China. Fl. C. S. *Juniper berries*, known to secrete sugar, as well as an essential oil, have long been noted for their diuretic properties, but are as famous for their employment in the manufacture of gin. They were formerly much employed in Europe, and at the present day may be bought in Indian bazars under the names of *ubhul* and *hoober*, being considered diuretic and emenagogue. They are now brought from the Himalayas, but were formerly from Kabul. (*Royle*.)

2. *chinensis*, L. (*Spreng. syst.* 3, p. 909;—*Roxb. fl. ind.* 3, p. 838.) 5 China. Fl. C. S.

3. *aquatica*, Roxb. (*l. c.*) 5 Rice lands near Canton, in China. Was introduced into H. C. G. in 1812. Fl. ?

4. *cernua*, Roxb. (*fl. ind.* 3, p. 839.) 5 China. Has not fl. here.

5. *dimorpha*, Roxb. (*l. c.*) 5 China. Fl. C. S.

6. *casia*, Roxb. (*H. B. p.* 73.) China. Introduced into H. C. G. in 1812. Fl. ?

7. *patens*, Roxb. (*H. B. p.* 73.) China. Introduced into H. C. G. in 1812. Fl. ?

8. *bermudiana*, L. (*Spreng. syst.* 3, p. 909.) *Bermudas Cedar*. 5 Bermudas Islands. Cultivated here for many years, without flowering.

9. *barbadensis*, L. (*Spreng. l. c.*) *Barbadoes Cedar*. 5 Barbadoes. Cultivated here for many years, without flowering.



10. *Sabina*, L. (*Spreng. syst.* 3, p. 910.) *Common Savin*. 5 S. Europe. Siberia. Has been introduced into H. C. G. Fl. ?

* *Pinus Massoniana*, Lamb. 5 China.—*P. occidentalis*, Swz. L. 5 W. Indies.—*Callitris cupressiformis*, Vent. 5 N. Holland.—*Taxodium nuciferum*, Brongn.—(*Taxus nucifera*, Kämpf.: Wall. tent. fl. nep. t. 44.) 5 Japan. Nepal.—*Cupressus glauca*, Lam. 5 Goa Cedar. Gardens in Bombay, and the Deccan.—*Thuja articulata*, Vahl. 5 Barbary.

ORDER CCXXIII.—TAXACEÆ, Lindl. Nat. Syst. p. 316.

THE YEW TRIBE.

Trees or shrubs, by Lindl. referred to 5 genera. Of these, *Spreng. syst.* assigns 4 to New Holland, and the South Sea Islands; 3 to China and Japan; 4 to S. Africa; 3 to Peru; 1 to N. America, and 1 to Europe. In the East Indies have been found 7-8 species, viz. 2-3 of *Taxus*, (Himalayas); 6 of *Podocarpus*, (Nepal, Khassya Mountains, Penang, Amboyna); and 1 of *Dacrydium*, (Penang.) The seeds of *Salisburia adiantifolia*, Sm. and *Podocarpus neriifolius*, Lamb. are eatable.

TAXUS, Tournef. (*Spreng. syst.* 3, p. 13, No. 2475;—*Endl. gen. pl.* 1, p. 261.) *Yew tree*.

1. *baccata*, L. (*Spreng. syst.* 3, p. 148;—*E. B.* 11, t. 746.) *Common Yew tree*. 5 Europe. North and Middle Asia. Nepal. Kemaon. Introduced into H. C. G. ?
2. *latifolia*, Thunb. (*Spreng. l. c.*) 5 C. G. H. Introduced into H. C. G. Fl. ?

PODOCARPUS, L'Herit. (*Spreng. syst.* 3, p. 763, No. 3150;—*Endl. gen. pl.* 1, p. 262.)

1. *polystachys*, R. Br. (*Horsf. pl. jav. rar.* 1, p. 40.—*P. macrophylla*, Wall. Cat. 6052. A; not Lamb.) 5 Japan. China. Nepal. Khassya Mountains. Singapore. Malacca. Fl. C. S.
2. *elongatus*, L'Herit. (*Spreng. l. c.*)—*Taxus elongata*, Thunb.;—*Roxb. H. B.* p. 73.) 5 C. G. H. Has been cultivated here for many years. Fl. ?
3. *chinensis*, Swt. (*Loud. Hort. Brit.* p. 388, No. 23648.—*Taxus chinensis*, Roxb. *H. B.* p. 73.) 5 China. Fl. C. S.
4. *cupressinus*, R. Br. (*Horsf. pl. as. rar.* 1, t. 10. *P. Horsfieldii*, Wall.) 5 Penang. Java.

DACRYDIUM, Soland. (*Endl. gen. pl.* 1, p. 262.)

1. *elatum*, Wall. (*Cat.*—*Juniperus elata*, Roxb. fl. ind. 3, p. 838.) L. 5 Penang. A tree of very slow growth, cultivated in the garden here for many years, without flowering.



SALISBURIA, Sm. (*Spreng. syst.* 3, p. 763, No. 3128;—*Endl. gen. pl.* 1, p. 262.)

1. *adiantifolia*, Sm. (*Spreng. syst.* 3, p. 865;—*Roxb. H. B.* p. 68.—*Ginkgo biloba*, L.) 5 Japan. Was introduced into H. C. G. in 1806-7, but had not fl. up to 1814. *Seeds* large and eatable.

* *Podocarpus neriifolius*, Lamb. (*Lignum Emanum*, Rumph. 3, t. 26.) 5 Amboyna.—*P. latifolius*, Wall.; pl. as. rar. 1, t. 26. 5 Khassya Mountains.—*P. taxifolius*, Kth. 5 N. Granada, Peru.—*P. verticillatus*, Hortul. 5 Japan.

ORDER CCXXIV.—EQUISETACEÆ, DC.—*Lindl. Nat. Syst.* p. 317.

THE HORSE-TAIL TRIBE.

Leafless, branched herbs, found in ditches and rivers, comprehended under one genus. Of these, *Spreng. syst.* assigns 13 species to Europe, nearly all of which are likewise common to other parts of the world; 3 to S. America and the W. Indies, and 1 to N. America. His species require, however, to be thoroughly re-examined. In the E. Indies, according to Royle, have been found 3 species, natives of Nepal, Kunawur, and Silhet. One of these is also common in Bengal, Dindygul, and Burma.

"In economical purposes the *Equisetum* are found highly useful, for polishing furniture and household utensils; a property which is due to the presence of a great quantity of silic in the cuticle. According to the observations of John of Berlin, they contain full 13 per cent. of siliceous earth. (*Ed. P. J.* 2. 394.) The quantity of silic contained in the cuticle of *Equisetum hyemale*, L. (*E. B.* 13, t. 915,) is so great, that Sivright succeeded in removing the vegetable matter and retaining the form. (*Grev. fl. edin.* 214.) Brewster observed these siliceous particles beautifully arranged in two lines parallel to the axes of the stem. From these observations, it has been concluded, that the crystalline portions of silic and other earths found in vegetable tissues, are integral parts of the plants themselves." (*Lindl.*)

EQUISETUM, L. (*Spreng. syst.* 4, p. 4, No. 3215;—*Endl. gen. pl.* 1, p. 58.) *Horse-tail*.

1. *debile*, Roxb. (*H. B.* p. 75;—*Wall. Cat.*—*E. pallens*, *Wall. Cat.*) 4. Dindygul. Burma. Bengal, (Serampore.) Silhet. Northern Doab. Deyra-Dhoon. Fl. R. S.

* *Equisetum diffusum*, D. Don. (*E. scoparium*, *Wall. Cat.*) Nepal.—*E. Inglisii*, Royle. Kunawar.—*E. bogotense*, Kth. New Granada.—*E. giganteum*, *Spreng.* W. Indies.



CLASS 3D.

ENDOGENÆ, DC.

Lindl. Nat. Syst. p. 319.

ORDER CCXXV.—ZINGIBERACEÆ, Rich.—Lindl. Nat. Syst. p. 322.

(Scitamineæ, R. Br.)

THE GINGER TRIBE.

Aromatic herbaceous plants by Lindl. referred to 25 genera. Of these, Spreng. syst. and Loud. Hort. Brit. (new edit.) enumerate 21 species for S. America and the W. Indies; 7 for Guinea; 5 for China; 2 for Japan; 1 for Madagascar, 1 for Mauritius; and 1 for New Holland. In the E. Indies, excluding Java, which our materials do not touch, have been discovered about 156 species, viz. 14 of *Zingiber*, (4 from the Himalayas and Khas-sya Mountains); 32 of *Curcuma*, (1 from the Khas-sya Mountains); 1 of *Dischema*; 9 of *Kämpferia*; 14 of *Amomum*, (4 from the Khas-sya and Morung Mountains); 4 of *Elettaria*, (1 from the Khas-sya Mountains); 28 of *Hedychium*, (about 22 from the Himalayas and Khas-sya Mountains); 17 of *Alpinia*, (3 extending to the Khas-sya Mountains); 2 of *Hellenia*, (according to Spreng.); 5 of *Gastrochilus*, (2-3 from Assam); 3 of *Monolophus*, (2 from the Khas-sya Mountains); 1 of *Galanga*; 3 of *Costus*, (1 from the Himalayas); 14 of *Globba*, (4 from the Himalayas) and Khas-sya Mountains); 2 of *Hornstedtia*, (Retz.); and 7 of *Roscoeia*, (all from the Himalayas.) The rest of the Indian species, whose native places are not mentioned, belong to Bengal, the two Peninsulas of India, Ceylon, the Sunda and Molucca Islands. Properties under the species.

A. ZINGIBERÆÆ.

(Zingibera, Bl.; Endl. gen. pl. 1, p. 222.)

ZINGIBER, Gärtn. (Spreng. syst. 1, p. 4, No. 12;—Endl. gen. pl. 1, p. 222.) *Ginger*.

1. *officinale*, Roscoe. (Scit.;—Spreng. o. c. p. 12;—Roxb. fl. ind. 1, p. 47; ed. Carey, 1, p. 46;—J. Grak. Cat. B. pl. p. 207.—*Amomum Zingiber*, L.;—Jacq. hort. vind. 1, t. 75;—Lour.;—Rheed. 11, t. 12;—Rumph. 5, t. 66, f. 1.) অদ্রক *Audruk*. आद्री *Ada*, *Commom Ginger*. २. Universally cultivated over all the warmer parts of Asia, but where indigenous, is not known. Fl. small, whitish-purple, R. S. but very rare. Seeds seldom perfected on account of the great increase of the roots. (Roxb. Sm.) Extensively cultivated in the Himalyas, at the elevations even of 4-5000 feet in moist situations; in Bengal, the Bombay Presidency, &c. The root is dug up in Oct.

and Nov. in other situations in Feb. and March; the outer rind being rubbed off by various processes, the root is dried in the sun, and then called  *Soontho*.

2. *Zerumbet*, Roscoe. (*Scit.*;—*Sm. exot. bot.* 2, t. 112;—*Spreng. syst.* 1, p. 12;—*Roxb. fl. ind.* 1, p. 48; *ed. Carey*, 1, p. 47;—*J. Græh. Cat. B. pl.* p. 207.—*Zingiber spurium*, Kön. in *Retz. obs.* 3, p. 60.—*Amomum Zerumbet*, Willd.;—*Jacq. hort. vind.* 3, t. 54.—*A. sylvestre*, Lam.—*A. spurium*, Gmel.—*Rheed.* 11, t. 13;—*Rumph.* 5, t. 64, f. 1.) बच *Buch*. महबूरी बच *Muhubburee-buch*. ५. Moluccas. Cochin China. Both Peninsulas of India. Bengal, (Calcutta, Serampore.) Fl. middle-sized, pale sulphur-coloured, R. S.; fr. Dec. and Nov. In the Moluccas the young leaves and shoots are used as greens. (*Rumph.*) Root employed by the natives as a stimulant stomachic. (*Royle*.)
3. *Cassumunar*, Roxb. (*fl. ind.* 1, p. 49; *ed. Carey*, 1, p. 48;—*Roscoe Scit.*;—*Spreng. l. c.*;—*B. M.* 35, t. 1426;—*J. Græh. Cat. B. pl.* p. 207.—*Zingiber purpureum*, *Roscoe in Trans. Linn. Soc.* 8, p. 348.—*Z. Cliffordii*, *Andr. B. Repos.* t. 558.—*Cassumunar*, *Colla*.) बन आनी *Bun-ada*. ५. Coromandel. The Concans. Behar. Bengal, (Serampore.) Silhet. Fl. large, uniformly pale sulphur-coloured, July and Aug.; fr. Nov. and Dec. Has a strong camphoraceous smell, and yields the true *Cassumunar* of the shops, which is employed as a stimulant stomachic. (*Roxb.*)
4. *ligulatum*, Roxb. (*fl. ind.* 1, p. 51; *ed. Carey*, 1, p. 50; *Corom.* 3, t. 250;—*Spreng. syst.* 1, p. 12.) ५. Nathpur. Nepal. Fl. reddish, pale yellow, R. S.; fr. Nov. and Dec.
5. *roseum*, Roscoe. (*Trans. Linn. Soc.* 8, p. 348;—*Roxb. fl. ind.* 1, p. 50; *ed. Carey*, 1, p. 49;—*Spreng. l. c.*—*Amomum roseum*, *Roxb. Corom. pl.* 2, t. 12.) ५. Circars. Fl. red and yellow, R. S.; fr. O.
6. *pardocheilum*, Wall. Burma.
7. *rubens*, Roxb. (*fl. ind.* 1, p. 53; *ed. Carey*, 1, p. 51;—*Roscoe Scit.*;—*Spreng. l. c.*) ५. Rungpore District. Fl. red and yellow, R. S.; fr. O.
8. *squarrosus*, Roxb. (*fl. ind.* 1, p. 54; *ed. Carey*, 1, p. 52;—*Spreng. l. c.*) ५. Rangoon. Prome. Fl. largish, pink-coloured, with the inner lip of the corol speckled with purple-red and yellow, R. S.; fr. O.
9. *panduratum*, Roxb. (*fl. ind.* 1, p. 55; *ed. Carey*, 1, p. 53;—*Spreng. l. c.*) ५. Rangoon. Tavoy. Fl. smallish, red, pale-yellow, July; fr. Nov. and Dec.
10. *chrysanthum*, Roscoe. (*Scit.*—*Spreng. syst. c. p.* p. 7.) ५. Nepal. Fl. gold-coloured, R. S.; fr. O.
11. *barbatum*, Wall. (*pl. as rar.* 1, t. 55.) ५. Mountains round Prome. Fl. largish, pale rose-coloured, Aug. and Sept.; fr. O.
12. *capitatum*, Roxb. (*fl. ind.* 1, p. 55; *ed. Carey*, 1, p. 54;—*Roscoe Scit.*—*Spreng. syst.* 1, p. 13.) जङ्गली आद्रक *Junglee-adruk*. ५. Raj-



mal. Khassya Mountains. Fl. large, pure-yellow, R. S.; fr. Sept. and Oct. Bullocks sent into the jungles to graze in the rainy season in Northern India, have a portion of the roots of this plant given to them. (Royle.)

13. *elatum*, Roxb. (*fl. ind.* 1, p. 57; *ed. Carey*, 1, p. 56;—*Roscoe Scit.*;—*Spreng. l. c.*) ♀. Interior of Bengal. Fl. bright-yellow, July and Aug.; fr. Sept. and Oct.

CURCUMA, L. (*Spreng. syst.* 1, p. 4, No. 10;—*Endl. gen. pl.* 1, p. 223.)
Turmeric.

1. *æruginosa*, Roxb. (*fl. ind.* 1, p. 27; *ed. Carey*, 1, p. 27;—*Roscoe Scit.*;—*Spreng. l. c.*) ♀. Burma. Fl. crimson, tinged with yellow, the tuft bright rose-coloured, May; fr. O.
2. *angustifolia*, Roxb. (*fl. ind.* 1, p. 31; *ed. Carey*, 1, p. 31;—*Spreng. l. c.*) *Tikur* of the Hindoos. ♀. Banks of the Sona, at Nagpore. Fl. large, bright-yellow, with a purple tuft, expanding at sunrise, and decaying at sunset of the same day, July; fr. Aug. and Sept. (See under No. 8.)
3. *aromatica*, Salisb. (*Parad. lond.* 2, part 1, f. 96;—*Roscoe Scit.*;—*Spreng. l. c.*—*Curcuma Zedoaria*, Roxb. *fl. ind.* 1, p. 23; *ed. Carey*, 1, p. 23;—*J. Grah. Cat. B. pl.* p. 209.) *खड़की हवदी* *Jungle-huldee.* *वन हवदी* *Bun-huldee.* *Wild Turmeric.* ♀. Presidency of Bombay. Throughout the Concan. Kennery forests. Parell Hill, &c. Bengal, (Calcutta, Serampore.) China, and various other parts of Asia, and the Asiatic Islands. Fl. largish, aromatic, pale rose-coloured, with a yellow tinge along the middle of the lip, and the tuft large and rosy, H. S.; fr. June. The roots (*round Zedoary* of the shops) are, fresh as well as dry, of a pale-yellow colour, and possess at all times an agreeable fragrant smell, and a warm, bitterish, aromatic taste. The natives use them as a perfume, and also medicinally. (Roxb.)
4. *attenuata*, Wall. (*Cat.*—*J. Grah. Cat. B. pl.* p. 210.) ♀. Banks of the Irawaddi. This species, nearly allied to *C. angustifolia*, introduced here in 1827, (*Carey*), we have not seen.
5. *cæsia*, Roxb. (*fl. ind.* 1, p. 26; *ed. Carey*, 1, p. 26;—*Spreng. l. c.*—*Tommon-itam*, *Rumph.* 5, p. 169.) *काव हवदी* *Kalo-huldee.* ♀. Moluccas. Bengal, (Serampore.) Fl. largish, red-yellow, with a crimsonish tuft, May; fr. O.
6. *comosa*, Roxb. (*fl. ind.* 1, p. 29; *ed. Carey*, 1, p. 29;—*Roscoe Scit.*;—*Spreng. l. c.*—*C. latifolia*, *Roscoe Scit.*?) ♀. Burma. Fl. yellow-rose-coloured, with a bright rosy red tuft, May; fr. O.
7. *elata*, Roxb. (*fl. ind.* 1, p. 25; *ed. Carey*, 1, p. 25;—*Roscoe Scit.*;—*Spreng. l. c.*;—*J. Grah. Cat. B. pl.* p. 209.) ♀. Burma. Fl. large, white, tinged with rose and yellow, the tuft white at base, purple above, March and April; fr. O.
8. *ferruginea*, Roxb. (*fl. ind.* 1, p. 27; *ed. Carey*, 1, p. 27;—*Roscoe Scit.*;—*Spreng. l. c.*—*C. amarissima*, *Roscoe Scit.*) Bengal. Fl.

large, red deep-yellow, with the tuft bright crimson, April and May; fr. 0.

9. *latifolia*, Roscoe. (*Scit.*;—*Spreng. syst. c. p. p. 7.*) 2. Native place in India unknown. Fl. greenish-yellow, with a crimson tuft, R. S.; fr. 0. Near *C. zanthorhiza*.
10. *leucorrhiza*, Roxb. (*fl. ind. 1, p. 30*; *ed. Carey, 1, p. 30*;—*Roscoe Scit.*;—*Spreng. syst. 1, p. 10.*) 2. Forests of Behar. Fl. rosy-yellow, with a pale rosy tuft, R. S.; fr. 0. *Tikur*, mentioned under No. 8 is made of the roots of this plant, at Bhaugulpore, by rubbing them on a stone or beating them in a mortar; after which they are rubbed in water with the hand and strained through a cloth, the fecula having subsided, the water is poured off, and the *Tikur* dried for use. (*Roxb.*)
11. *ornata*, Wall. Pegu. Habit of *C. comosa* and equally beautiful. In H. C. G. Unknown to us.
12. *rubescens*, Roxb. (*fl. ind. 1, p. 28*; *ed. Carey, 1, p. 28*;—*Roscoe Scit.*;—*Spreng. l. c.*) 2. Bengal. Fl. small, bright-yellow-purple, fragrant, with pale-rose-coloured tuft, April and May; fr. 0. The pendulous tubers of this species, as well as of *C. leucorrhiza*, *angustifolia* and others, yield an excellent fecula or starch, which forms a good substitute for the West Indian Arrowroot, a product of *Maranta arundinacea*, L. It is sold in the bazars of Benares, Chittagong, and Travancore, and is eaten by the natives. A very good kind, called *Tikur*, is also made at Patna and Bhaugulpore from the tubers of *Batatas edule*, Choisy. (*Roxb. Royle.*)
13. *xanthorrhiza*, Roxb. (*fl. ind. 1, p. 25*; *ed. Carey, 1, p. 25*;—*Spreng. l. c.*) 2. Amboyna. Fl. red, with the tuft large, purple or crimson, April and May; fr. 0.
14. *Zedoaria*, Roscoe. (*Scit.*;—*Spreng. o. c. p. 10*;—*B. M. 37, t. 1546*, excl. syn.—not Roxb.—*Curcuma Zerumbet*, *Roxb. fl. ind. 1, p. 20*; *ed. Carey, 1, p. 20*; *Corom. 3, t. 201*;—*J. Grah. Cat. B. pl. p. 209*, excl. syn. Willd. Pers. Lam. and Ainslie.—*Amomum Zerumbet*, *Kön.*;—*Retz. obs. 3, p. 55*; not Willd.—*Rheed. 11, t. 7*;—*Rumph. 5, t. 68.*) शूते *Shutee* কাছুরা *Kakhura*. 2. Chittagong. Fl. largish, deep-yellow, with a large white or pale straw-coloured, at the top bright crimson tuft, April; fr. 0. According to Banks, Roxburgh and Roscoe this plant yields the *Long Zedoary* of the shops. The dry root, powdered and mixed with the powdered wood of *Cæsalpinia Sappan*, L. (*Bukkum*) makes the red powder, called *Abeer* or *Shagoo*, which is copiously thrown about by the natives during the *Hooli*, or Hindoo holidays in the month of March. The root is also used medicinally amongst the natives. (*Roxb.*)
15. *Amada*, Roxb. (*fl. ind. 1, p. 33*; *ed. Carey, 1, p. 33*;—*Roscoe Scit.*;—*Spreng. l. c.*;—*J. Grah. Cat. B. pl. p. 209*.—Tommon munga, *Rumph. 5, p. 169.*) আমাদা *Amada*, 3. Mango-ginger. 2. Guzerat. The Concan.

- Bengal, (Serampore.) Fl. smallish, white or pale-yellow, with a deeper yellow line running down the middle of the lip. The tuft, pale purple or rose-coloured, latter part of R. S.; fr. 0. Root used medicinally by the Natives.
16. *cordata*, Wall. (*pl. as. rar.* 1, t. 10. not Roxb.) 4. Mountains near the Irawaddi. Fl. large, yellow, with violet tuft, July and Aug.; fr. 0. Allied to *C. viridiflora*.
17. *grandiflora*, Wall. 4. "Native place unknown. Like No. 15." (*Carey's MSS.*) This plant we have not seen.
18. *longa*, Roxb. (*fl. ind.* 1, p. 32; *ed. Carey*, 1, p. 32;—*Spreng. l. c.*;—*B. Reg.* 11, t. 886;—*J. Grah. Cat. B. pl.* p. 209.—*Amomum Curcuma*, *Gmel.*;—*Jacq. hort. vind.* 3, t. 4;—*Rheed.* 11, t. 11;—*Rumph.* 5, t. 67.) इन्दी *Huldee*. Long-rooted Turmeric. Common Turmeric. 4. Cultivated all over India, where it is much used for culinary purposes. The Javanese make an ointment with the pounded roots, and rub it all over their bodies, as a preservation against cutaneous diseases. (*Rumph.*) The Hindoos use it as a favorite application to recent wounds and bruises, leech-bites, &c. Fl. largish, whitish, with a faint tinge of yellowish, the tuft greenish-whitish, R. S.; fr. 0.
19. *montana*, Roxb. (*Corom.* 2, t. 151; *fl. ind.* 1, p. 35; *ed. Carey*, 1, p. 34.—*Spreng. l. c.*) 4. Circular Mountains. Fl. green, with a rose-coloured tuft; July and Aug.; fr. 0.
20. *parviflora*, Wall. (*pl. as. rar.* 1, t. 57;—*J. Grah. Cat. B. pl.* p. 210.) 4. Forests on the banks of the Irawaddi, near Prome. Fl. small, white, with a violet lip, and a small, white tuft, Feb.; fr. 0.
21. *petiolata*, Roxb. (*fl. ind.* 1, p. 37; *ed. Carey*, 1, p. 36;—*Roscoe Scit.*;—*Spreng. l. c.*;—*J. Grah. Cat. B. pl.* p. 210.—*C. cordifolia*, *Roxb. H. B.* p. 2; not *cordata*, Wall.) 4. Pegu. Fl. largish, deep-yellow, fragrant, with a deep purple or lilac-coloured tuft, August; fr. 0.
22. *plicata*, Wall. 4. Prome. Rangoon. Fl. largish, white, with a green tuft, R. S.; fr. 0. "Like *C. Amada*." (*Carey's MSS.*)
23. *reclinata*, Roxb. (*fl. ind.* 1, p. 36; *ed. Carey*, 1, p. 35;—*Spreng. l. c.*) आन्ध्र इन्दी *Ambo-huldee*. 4. Hindoosthan. Fl. small, dull dark-pink, the lower segment of the inner limb tinged with yellow, and the tuft deeply coloured, R. S.; fr. 0.
24. *strobilina*, Wall. (*Cat.*—*C. strobilina*, *Wall. MSS.* in 1826;—*J. Grah. Cat. B. pl.* p. 210.) 4. Burma. Fl. unknown to me.
25. *viridiflora*, Roxb. (*fl. ind.* 1, p. 34; *ed. Carey*, 1, p. 34;—*Spreng. syst.* 1, p. 11;—*J. Grah. Cat. B. pl.* p. 210.—*Tammon giring.* *Rumph.* 5, p. 169.) 4. Sumatra. Fl. small, very pale-yellow, with a green tuft, July and Aug.; fr. 0.
26. *Roscoeana*, Wall. (*pl. as. rar.* 1, t. 9.—*C. coccinea*, *Wall. MSS.* in 1826, according to *Carey's MSS.*) 4. Pegu. Tenasserim. Fl. largish, pale-yellow, with a large, bright scarlet tuft, R. S.; fr. 0.



DISCHEMA, (Hitchinia, Wall. in Trans. med. and phys. soc. Calcutta, vol. 7, part 2, 1835; not Hitchenia (misprinted Hutchinia,) Wight. and Arn. contrib. ind. bot. London, 1834.)

1. *glauca*, (Hitchenia *glauca*, Wall. o. c. p. 216.—*Curcuma glaucophylla*, Wall. Cat.;—*J. Grah. Cat. B. pl. p. 210.*) ♀. Hills on the banks of the Irawaddi, near Prome. Fl. large, white, and fr. from June to Sept.

KÄMPFERA, L. (*Spreng. syst. 1, p. 3, No. 9*;—*Endl. gen. pl. 1, p. 223.*)

1. *Galanga*, L. (*Spreng. o. c. p. 10*;—*Roscoe Scit.*;—*B. M. 22, t. 850*;—*Roxb. fl. ind. 1, p. 15*; *ed. Carey, 1, p. 14*;—*J. Grah. Cat. B. pl. p. 208.*—*Alpinia sessilis*, Kön.;—*Retz. obs. 3, p. 62.*—*Rheed. 11, t. 41*;—*Rumph. 5, t. 69, f. 2*) চন্দ্রমূল *Chundro-moola*. ♀. Moluccas. Cochin China. Both Peninsulas of India. Bengal. Much cultivated in gardens. Fl. large, white, the lip at base marked with two dark-purple spots separated by a broad sulphur-coloured line, R. S.; fr. O. S. Roots fragrant, of a somewhat warm, bitterish, aromatic taste. The natives use them both as a perfume, and medicinally. (*Roxb.*)
2. *rotunda*, L. (*Spreng. o. c. p. 9*.—*Roscoe Scit.*;—*B. M. 23, t. 920.*—*Roxb. fl. ind. 1, p. 16*; *ed. Carey, 1, p. 15*;—*J. Grah. Cat. B. pl. p. 208.*—*K. longa*, Redout. *pl. lil. t. 49*;—*Jacq. hort. schönbr. 3, t. 317*;—*Rheed. 11, t. 9.*) হুই চাম্পা *Bhooim-champa*. ♀. Native place uncertain. Commonly cultivated in gardens on account of the beauty and fragrance of its large purplish-white flowers, which appear in March and April; fr. O. Roots warmly aromatic.
3. *Roxburghiana*, Schult. (*suppl. mant. 1, p. 33.*)
4. *angustifolia*, Roxb. (*fl. ind. 1, p. 17*; *ed. Carey, 1, p. 16*;—*Roscoe Scit.*;—*Jacq.*—*Roxb.*—*Redout. lil. pl. 7, t. 389*;—*Spreng. syst. 1, p. 10.*) ♀. Bengal. মদন নিরবিশি *Mudun-nirbishī*. Hind. Kanjon-boora. Fl. large, white, faintly purple tinged towards the apex, with the lip lilac, and at the middle dark-purple, June and July; fr. O. Root used as a medicine for cattle by the Bengalees.
5. *pandurata*, Roxb. (*fl. ind. 1, p. 18*; *ed. Carey, 1, p. 17*;—*Spreng. l. c.*;—*Roscoe Scit.*;—*B. Reg. 2, t. 174*;—*B. Cab. t. 587*;—*J. Grah. Cat. B. pl. p. 208.*—*K. ovata*, *Roscoe in Linn. soc. trans. 8, p. 351, and 11, p. 274.*—*Curcuma rotunda*, L.—*Rheed. 11, t. 10.*—*Rumph. 5, t. 69, f. 1.*) ♀. Java, Sumatra. The Concans. Guzerat. Moluccas. Fl. large, whitish-pale rose-coloured, with the lip striated in the centre, and deep purple round the margin, August; fr. O.
6. *ovalifolia*, Roxb. (*fl. ind. 1, p. 19*; *ed. Carey, 1, p. 18*; *Corom. 3, t. 278*;—*Roscoe Scit.*;—*Spreng. l. c.*;—*J. Grah. Cat. B. pl. p. 208.*) ♀. Peninsula of Malacca. Fl. large, white, with the lip purple its claw purple streaked, on a yellow ground, July; fr. O.
7. *marginata*, Carey. (*Roscoe Scit.*;—*Spreng. syst. c. p. p. 7.*) ♀. Burma. Fl. large, white light-purplish, with the lip bright purple, and at the base darker shaded, June and July; fr. O.



8. *candida*, Wall. (*pl. as. rar.* 1, t. 56;—*J. Grah. Cat. B. pl.* p. 208.) 4. Martaban, near Amherst and Moulmein. Fl. large, fragrant, white, with the middle of the limb yellowish. Root not aromatic. Fl. the largest of the genus. (Wall.) Has been introduced into H. C. G.
9. *Roscoeana*, Wall. (*Cat.—B. Reg.* 14, t. 1212.) 4. Mountains near Ava. Fl. large, inodorous, white, towards the base yellowish, R. S.; fr. O.
10. *parviflora*, Wall. (*Cat.*) 4. Banks of the Attran River. Fl. small, purplish-white, R. S.; fr. O.

* *Zingiber Missionis*, Wall. 4. Travancore.—*Z. Mjoga*, Roscoe. 4. Japan.—*Z. dubium*, Afzel. 4. Sierra Leone.—*C. longifolia*, Roxb. 4. Hb. Heyne.—*C. caulina*, J. Grah. 4. Mahableshwur.—*C. Grahamiana*, (*C. pseudo-montana*, J. Grah.) 4. Salsette.

B. AMOMÆ.

(*Amoma*, Bl.;—*Endl. gen. pl.* 1, p. 223.)

AMOMUM, L. (*Spreng. syst.* 1, p. 4, No. 11;—*Endl. gen. pl.* 1, c.)

1. *Cardamomum*, L. (*Spreng. syst.* 1, p. 11;—*Roxb. fl. ind.* 1, p. 37; *ed. Carey*, 1, p. 37; *Corom.* 3, t. 227;—*Cardamomum minus*, *Rumph.* 5, t. 65, f. 1.) 4. Sumatra, Moluccas, Attran teak forests. Fl. middle-sized, pellucid, the middle lobe of the lip yellow, with two rosy lines leading up to it from the mouth of the tube. In H. C. G. fl. April. (*Roxb.*) Seeds agreeably aromatic, and by the Malays used for the true Malabar Cardamum. (*Roxb.*)
2. *angustifolium*, Sonner. (*It.* 2, t. 137;—*Lam. encycl.* 1, p. 132;—*Spreng. l. c.*;—*Roxb. fl. ind.* 1, p. 39; *ed. Carey*, 1, p. 38.) 4. Madagascar. Fl. pretty large, spicy fragrant, blood-red yellow. In H. C. G. fl. at various times of the year. Every part of the plant, when bruised or wounded, diffuses a strong, but pleasant aromatic smell. (*Roxb.*)
3. *aculeatum*, Roxb. (*fl. ind.* 1, p. 40; *ed. Carey*, 1, p. 39;—*Spreng. l. c.*;—*Roscoe Scit.*) 4. Malay Archipelago. Fl. deep orange, the lip marked with crimson spots down the middle on the inside, April and May; fr. Oct. and Nov.
4. *maximum*, Roxb. (*fl. ind.* 1, p. 41; *ed. Carey*, 1, p. 41;—*Spreng. l. c.*;—*B. Reg.* 11, t. 929.) 4. Malay Islands. In H. C. G. fl. H. S.; fr. R. S. Seeds of a warm, pungent, aromatic taste, not unlike that of Cardamums, but by no means so grateful. (*Roxb.*)
5. *dealbatum*, Roxb. (*fl. ind.* 1, p. 43; *ed. Carey*, 1, p. 42;—*Spreng. l. c.*) 4. Chittagong, Silhet. Fl. large, white, with the middle of the lip yellow, March and April; fr. Sept. and Oct. Seeds insipid. (*Roxb.*)
6. *subulatum*, Roxb. (*fl. ind.* 1, p. 44; *ed. Carey*, 1, p. 43;—*Corom.* 3, t. 277;—*Spreng. l. c.*) बङ्गाली एलाची *Bungali-elachee*. 4. Khassya Mountains. Fl. large, yellow, March and April; fr. R. S.



7. *aromaticum*, Roxb. (*fl. ind.* 1, p. 45; *ed. Carey*, 1, p. 44;—*Spreng. l. c.*)
মোরুং এলাচী *Morung-elachee*. Morung Mountains. Fl. middle-sized,
pale-yellow, the lip tinged with red down the middle, H. S.; fr. Sept.
Seeds spicy, by the natives used for medicinal, and other purposes.
(Roxb.)
8. *sericeum*, Roxb. (*fl. ind.* 1, p. 46; *ed. Carey*, 1, p. 45;—*Spreng. l. c.*)
২. Khassya Mountains. Fl. large, white, the centre of the lip variegated with pink veins on a yellow ground, R. S. (Roxb.)
9. *corynostachyum*, Wall. (*pl. as. rar.* 1, t. 58.) ২. Teak Forests along the rivers of Martaban. Fl. large, white, with the centre of the lip yellow, R. S. Introduced in the garden here in 1810. (*Carey*.)
- ELETTARIA, Rheed. (*Endl. gen. pl.* 1, p. 223.)
1. *Cardamomum*, White and Maton. (*Linn. soc. trans.* 10, p. 254.—*Alpinia Cardamomum*, Roxb. *fl. ind.* 1, p. 70; *ed. Carey*, 1, p. 68; *Corom. pl.* 3, t. 226;—*J. Grah. Cat. B. pl.* p. 206;—*Spreng. syst.* 1, p. 14.—*Amomum repens*, seu *Cardamomum*, Wood. 2, p. 365, t. 131.—*A. repens*, Roscoe;—*Willd.*;—*Sonner.*—*A. racemosum*, Lam.—*Cardamomum minus*, *Pharm. lond. and edin.*—*Cardamomum*, *Buch. journ. Mysore*, 2, p. 336, 510; 538, and 3, p. 225.—*Elettaria*, *Rheed.* 11, t. 4, 5.) এলাইচ *Elaich*. এলাচী *Elachee*. ২. Hilly parts of Malabar and Travancore. Introduced at Poway in Salsette. Cultivated about Soonda Soopa, south of Dharwar. Fl. large, pale greenish-white, with the lip marked chiefly in the centre with purple-violet stripes. Was introduced into H. C. G. in 1809, but had not fl. up to 1814. Produces the well-known *Cardamums*.
2. *punicea*, Schult. (*Mantissa*.—*Alpinia punicea*, Roxb. *fl. ind.* 1, p. 73; *ed. Carey*, 1, p. 71;—*Spreng. syst.* 1, p. 15.) ২. Sumatra. Fl. large, crimson, March and April; fr. 0.
3. *costata*, (E? *Cardamomum medium*, Schult. *Mant.*—*Alpinia costata*, Roxb. *Corom.* 3, t. 252.—*A. Cardamomum medium*, Roxb. *fl. ind.* 1, p. 74; *ed. Carey*, 1, p. 72.—*A. media*, *Spreng. syst.* 1, p. 14.) ২. Khassya Mountains. Fl. large, red, fragrant, June; fr. Sept.
4. *linguiformis*, Schult. (*Mant.*—*Alpinia linguiformis*, Roxb. *Corom.* 3, t. 2076; *fl. ind.* 1, p. 75; *ed. Carey*, 1, p. 73;—*Spreng. syst.* 1, p. 15.) ২. Interior of Bengal. Fl. red, with the lip yellow, and down the centre a little red, R. S.; fr. 0.
- HEDYCHUM, Kön. (*Spreng. syst.* 1, p. 3, No. 7;—*Endl. gen. pl.* 1, p. 224.)
1. *coronarium*, Kön. (*Spreng. syst.* 1, p. 9;—*Roscoe Scit.*;—*Bot. Cab.* 6, t. 507.—*Retz. obs.* 3, p. 78;—*Sm. exot. bot.* p. 96, t. 107.—*B. M.* 19, t. 708.—*B. Cab.* t. 51; *Lam. ill.* t. 1, f. 3;—*Roxb. fl. ind.* 1, p. 10; *ed. Carey*, 1, p. 9;—*J. Grah. Cat. B. pl.* p. 205;—*Rumph.* 5, t. 69, f. 3.) দুলাল চাঁপা *Doolal-champa*. ২. Moluccas. Coromandel. Penang. Tavoy. Bengal, (Serampore.) Khassya Mountains. Assam. Nepal. Fl. large, pure white, very fragrant, R. S.; fr. C. S.



- β. lutesceas*, Carey. (*Roxb. fl. ind.*; *ed. Carey*, 1, p. 10.)
2. *angustifolium*, Roxb. (*Spreng. l. c.*;—*Roxb. fl. ind.* 1, p. 13; *ed. Carey*, 1, p. 11;—*Roscoe Scit.*;—*J. Grah. Cat. B. pl.* 205.—*H. aurantiacum*, *Roscoe Scit.*;—*Roxb.* 2, 157;—*B. M.* 46, 2078.) Chittagong. Khassya Mountains. 2. Fl. smallish, deep orange-scarlet, May and June; fr. C. S.
 3. *elatum*, R. Br. (*B. Reg.* 7, t. 526;—*Spreng. syst.* 1, p. 9;—*B. C.* 9, 856;—*B. M.* 53, 3637;—*B. Cab.* 7, t. 693;—*Spreng. syst.* 1, c. p. p. 6, No. 19.—*H. stenopetalum*, *B. C.* 20, 1902?) 2. Nepal. Fl. largish, flesh-coloured, R. S.; fr. 0.
 4. *coccineum*, Buch. (*Sm. in Rees's cycl.*;—*Spreng. l. c.*;—*B. Reg.* 14, t. 1209;—*B. C.* 8, 705, except color of flower.—*H. angustifolium*, *Roxb. Corom.* 3, t. 252, as to the plate only, the description being that of No. 2.—*H. angustifolium*, *B. Reg.* 2, t. 157.—*H. longifolium*, *Roscoe*;—*Spreng. c. p.* 6, No. 20.) 2. Nepal. Fl. largish, uniformly scarlet, R. S.; fr. 0.
 5. *gracile*, Roxb. (*Corom.* 3, t. 250; *fl. ind.* 1, p. 14; *ed. Carey*, 1, p. 12;—*Spreng. l. c.*—*H. glaucum*, *Roscoe Scit.*;—*Spreng. syst. c. p.* 6, No. 15.—*H. glaucum*, *Roscoe Scit.*) 2. Khassya Mountains. Fl. largish, white, fragrant, R. S.; fr. 0.
 6. *flavum*, Roxb. (*fl. ind.* 1, p. 12; *ed. Carey*, 1, p. 81;—*Roscoe Scit.*;—*Spreng. l. c.*;—*B. Cab.* t. 604;—*B. M.* 58, t. 3039;—*J. Grah. Cat. B. pl.* p. 205.—*H. urophyllum*, *B. C.* 18, 1785.) 2. Khassya Mountains. Fl. very large, orange-coloured, highly fragrant, R. S.; fr. 0.
 7. *flavescens*, Carey. (*Roscoe Scit.*;—*B. Cab.* 8, t. 723;—*Spreng. syst. c. p.* p. 6, No. 12.—*H. flavum*, *B. M.* 50, t. 2378. not Roxb.) 2. Nepal. Fl. large, outer limb sulphur-coloured, inner limb yellowish, fragrant, R. S.; fr. 0.
 8. *speciosum*, Wall. (*Roxb. fl. ind.*; *ed. Carey*, 1, p. 13;—*pl. as. rar.* 3, t. 285;—*Roscoe Scit.*;—*Spreng. syst.* 1, p. 9.) 2. Khassya Mountains. Fl. large, pale sulphur-coloured, R. S.; fr. 0.
 9. *villosum*, Wall. (*Roxb. fl. ind.*; *ed. Carey*, 1, p. 12; not *Roscoe*;—*Spreng. l. c.*) 2. Khassya Mountains. Fl. large, pale-yellow, delightfully fragrant, R. S.; fr. 0.
 10. *ellipticum*, Buch. (*in Sm. Rees's cycl.*; not *Roscoe Scit.*;—*Spreng. l. c.*) 2. Nepal. Fl. large, white, R. S.; fr. 0.
 11. *spicatum*, Buch. (*in Rees's cycl.*;—*Roscoe Scit.*;—*Hook. exot. fl.* 1, t. 46;—*B. Cab.* 7, t. 653;—*B. M.* 49, t. 2300;—*Spreng. l. c.*) 2. Borders of fields among the hills of Upper Nepal. Fl. large, pale yellow, R. S.; fr. 0.
 12. *thyrsiforme*, Buch. (*in Rees's cycl.*;—*Roscoe l. c.*;—*Spreng. l. c.*—*H. heteromallum*, *B. Reg.* 9, t. 767;—*Spreng. syst. c. p.* p. 6, No. 17.) 2. Upper Nepal. Fl. largish, white, with lip yellow tinged at the base, R. S.; fr. 0.



13. *giganteum*, Wall. 2. Nepal. Allied to *H. spicatum*. Nearly allied to No. 12, but much larger. Introduced into the Garden here in 1821. Fl. ?
14. *acuminatum*, Roscoe. (*Scit.*;—*Spreng. syst. c. p. p.* 6, No. 16;—*B. M.* 57, t. 2969.) 2. Nepal. Nilgherry. Kemaon. Fl. large, pale yellow pure white, with the tube red, fragrant. Has been introduced into H. C. G. Fl. ?
15. *Gardnerianum*, Wall. (*Roscoe Scit.*;—*Spreng. l. c.* No. 18;—*B. Reg.* 9, t. 774.) 2. Nepal. Fl. large, reddish-yellowish-whitish, fragrant, R. S.; fr. O.
β. *latifolium*, Perhaps a distinct genus.
16. *gratum*, Wall. Khassya. * Very near *flavescens*, but smaller.
17. *trilobum*, Wall. (in *Roscoe Scit.*, under *H. spicatum*.) 2. Nepal. Introduced in 1819.
18. *tenuiflorum*, Wall. (in *Roscoe Scit.*, under *H. villosum*—*H. villosum*, *Roscoe*, not Wall.) 2. Nepal. Khassya Mountains. Introduced in 1821.
19. *Roscoe*i, Wall. 2. Nepal. Introduced in 1821.
20. *formosum*, Wall. (*H. coccineum*, Buch. l. c. ?) 2. Nepal. Introduced 1818.
21. *fastigiatum*, Wall. (*Cat.*—*H. ellipticum*, *Roscoe*, not Buch.—*B. C.* 19, 1881.) 2. Nepal. Introduced in 1818.
22. *densiflorum*, Wall. (*Cat.*) 2. Nepal. Introduced in 1821.
23. *barbatum*, Wall. (*Cat.*) 2. Taong-Dong. Introduced in 1827.
24. *candidum*, Wall. (*Carey's MSS.*) 2. Nepal. Introduced in 1821. The last 8 species are unknown to us.

* *Amomum Granum Paradisi*, L. Afzel. 2. Guinea.—*A. latifolium*, Afzel. 2. Sierra Leona.—*A. Afzelii*, Roscoe. 2. Sierra Leona.—*A. sylvestre*, Swz. 2. Jamaica.—*Hedychium squarrosus*, Herb. Buch. 2. Assam. Nepal. Kemaon.—*H. scaposum*, Nimmo. 2. S. Concan.

C. ALPINIÆ (Alpinia, Bl.—*Endl. gen. pl.* 1, p. 224.)

ALPINIA, L. (*Spreng. syst.* 1, p. 4, No. 15;—*Endl. gen. pl.* 1, p. 224.)

1. *Galanga*, Swz. (*Spreng. syst.* 1, p. 14;—*Roscoe in Trans. Linn. soc.* 8, p. 345;—*Roxb. fl. ind.* 1, p. 59; ed. *Carey*, 1, p. 58;—*J. Grah. Cat. B. pl.* p. 206.—*Maranta Galanga*, L.—*Amomum Galanga*, Lour.—*Galanga major*, *Rumph.* 5, t. 63.) কুলঞ্জ Koolunjun. 2. Sumatra. Moluccas. Cochin China. Singapore. Penang. Chittagong. S. Concan. Silhet. Fl. largish, pale-greenish, sometimes streaked with red, somewhat fragrant, April and May; fr. Nov. Yields the large *Galangal* root of the druggists. It has a faint aromatic smell, and strong pungent taste with some bitterness. (*Roxb.*) In Cochin China it is found cultivated as well as wild, and the fresh roots are used to season fish, and for other economical purposes. (*Lour.*)
2. *Allughas*, Roscoe. (*Linn. Trans. o. c. p.* 346;—*Roxb. fl. ind.* 1, p. 61; ed. *Carey*, 1, p. 60;—*J. Grah. Cat. B. pl.* p. 206;—*Spreng. l. c.*;—*Hellenia Allughas*, L.—*B. Repos.* 8, t. 501.—*Heretiera Allughas*,

- Kön.*;—*Rheed.* 11, t. 14.) *ভাঁড় Tara*. *ভাঁড় Taruko* ৴ Coromandel. S. Concan. Estuary of Irawaddi. Bengal. (Serampore.) Silhet. Assam. Fl. large, inodorous, beautifully rose-coloured, June and July; fr. Oct. and Nov.—*Root* considerably aromatic.
3. *bracteata*, Roxb. (*fl. ind.* 1, p. 63; *ed. Carey*, 1, p. 61;—*Spreng. l. c.*; not Roscoe.—A. Roxburghii: *Sweet. hort. brit.* 2, p. 390.) ৴ Chappedong, on the coast of Tenasserim. Fl. white, with a crimson yellow lip, March; fr. O.
4. *malaccensis*, Roscoe. (*Trans. Linn. soc.* 8, p. 345;—*Spreng. l. c.*;—*Roxb. fl. ind.* 1, p. 64; *ed. Carey*, 1, p. 62;—*B. Reg.* 4, t. 328.—A. petiolaris, *Soland.*—*Maranta malaccensis*, *Burm. ind.* p. 2.—*Willd.*—*Renealmia sumatrana*, *Donn. cant. ed.* 8, p. 2.—*Galanga malaccensis*, *Rumph.* 5, t. 71, f. 1.) ৴ Moluccas. Chittagong, &c. Fl. very large, pure white, with the lip orange-crimson, April and May; fr. Augt., Sept. and Oct.
5. *aurantiaca*, Wall. ৴ Singapore. Introduced in 1823.—Unknown to us.
6. *nutans*, Roscoe. (*Trans. Linn. soc.* 8, p. 346;—*Roxb. fl. ind.* 1, p. 65; *ed. Carey*, 1, p. 64;—*Sm. exot. bot.* t. 106;—*B. M.* 44, t. 1903;—*Spreng. l. c.*;—*J. Grah. Cat. B. pl.* p. 206.—A. auriculata, *Roscoe Scit.*—*Renealmia nutans*, *B. Repos.* 5, t. 360.—*Zerumbet speciosum*, *Jacq. fragm. t.* 68.—*Costus Zerumbet*, *Pers.*—*Catimbium*, *Juss.*—*Globba nutans*, *L.*—*G. sylvestris*, *Rumph.* 6, t. 62.) *পুনাগ চাঁপা Poon-nag-champa*.—৴ Banks of the Saluen. Silhet. Coromandel. Fl. large, more or less rose-coloured, with the lip orange yellow on a dark crimson ground, April and May; fr. Sept. and Oct.
7. *mutica*, Roxb. (*fl. ind.* 1, p. 67; *ed. Carey*, 1, p. 65;—*Roscoe Scit.*; *Spreng. l. c.*) ৴ Penang. Fl. large, white, with the lip crimson yellow, and orange edged, June and July; fr. Oct. to January.
8. *calcarata*, Roscoe. (*Trans. Linn. soc.* 8, p. 347;—*Roxb. fl. ind.* 1, p. 69; *ed. Carey*, 1 p. 67;—*Spreng. l. c.*;—*B. Reg.* 2, t. 141;—*J. Grah. Cat. B. pl.* p. 206, excl. syn. A. cernua, Sims.—*Renealmia erecta*, *Redoute pl. lil. t.* 174.—*Renealmia calcarata*, *Andr. B. Repos.* t. 421.) ৴ China. Fl. large, white, the lip coloured with dark purple veins on a yellow ground, March, April and May; fr. O.
9. *Roscoeana*, Röm. and Sch. (A. bracteata, *Roscoe*; not Roxb.) ৴ China. Introduced in 1820. Unknown to us.
10. *spicata*, Roxb. (*fl. ind.* 1, p. 70; *ed. Carey*, 1, p. 68.) ৴ Sumatra. In H. G. G. fl. about the close of R. S. (*Roxb.*)
11. *porrecta*, Wall. (*Cat.*) ৴ China. Has been in the garden here for about two years, but has not fl.
- GASTROCHILUS*, Wall. (*Endl. gen. pl.* 1, p. 224. not Don.; which is *Saccolabium*.)
1. *pulcherrimus*, Wall. (*pl. as. rar.* 1, t. 24.—*Paxt. Bot. Mag.* 7, No. 75.) ৴ Rangoon. Fl. largish, white, pale-yellow, with the exterior part of the lip rose-coloured, R. S.

2. *longiflorus*, Wall. (*pl. as. rar.* 1, t. 25.) 4. Rangoon. Fl. largish, pale-yellowish, with a rose-coloured lip.
3. *Jenkinsii*, Wall. 4. Assam. } Hills about Gowhatti. Flowered in July
4. *affinis*, Wall. MSS. 4. } 1838.

MONOLOPHUS, Wall. (*Cat.—Endl. gen. pl.* 1, p. 225.)

1. *secundus*, Wall. (*Kämpfera secunda*, Wall.;—*Roxb. fl. ind.*; ed. Carey, 1, p. 19.—*Costus secundus*, Spreng. *syst.* 1, p. 13.) 4. Khassya Mountains.
2. *linearis*, Wall. (*Kämpfera linearis*, Wall. *o. c.* p. 20.—*Costus linearis*, Spreng. *l. c.*) 4. Khassya Mountains. Both these species have been introduced repeatedly, but failed.
? 3. *elegans*, Wall. (*Cat.—Kämpfera elegans*, Wall. *pl. as. rar.* 1, t. 27. (1830.)—K. Crawfordii, Wall. MSS. (1827.)—K. Crawfordiana, Wall.; J. Grah. *Cat. B. pl.* p. 208.) 4. Pegu. Martaban. Fl. large, white-purplish, R. S.

PHAOMERIA, Lindl. (*Nat. Syst.* p. 446, No. 59.)

1. *magnifica*, Lindl. (*l. c.*—*Alpinia* ? *magnifica*, Bojer; B. M. 59, t. 3192;—*Roscoe Scit.*) 4. Mauritius. Fl. very large, deep rose-coloured. Has been introduced into H. C. G. Fl. ?

- * *Alpinia Nimmonii*, J. Grah. 4. Lanowlee Grove near Kandalla.—*A. Neesuma*, J. Grah. 4. Kandalla. Mahableshwur.—*A. cernua*, Sims.; B. M. 44, t. 1900. 4. China.—*A. comosa*, Jacq. 4. Caraccas.—*A. racemosa*, Roscoe. 4. W. Indies.—*A. occidentalis*, Swz. 4. Jamaica.—*A. exaltata*, Mey. 4. Surinam.—*A. Antillarum*, Röm. and Sch. 4. W. Indies.—*A. penicillata*, Roscoe. 4. China.—*Hellenia coerulea*, R. Br. 4. Tropical N. Holland.—*H. chinensis*, Willd. 4. China.—*Monocystis abnormis*, Lindl. 4. China.—*Peperidium tubulatum*, Lindl. (*Alpinia tubulata*, Ker.; B. Reg. 9, t. 777; B. M. 51, t. 2494.) 4. Demerara.

D. COSTÆ.

(Costi, Bl.—*Endl. gen. pl.* 1, p. 225.)

COSTUS, L. (*Spreng. syst.* 1, p. 4, No. 13;—*Endl. l. c.*)

1. *speciosus*, Sm. (*Spreng. syst.* 1, p. 13;—*Roxb. fl. ind.* 1, p. 59; ed. Carey, 1, p. 57.—J. Grah. *Cat. B. pl.* p. 208;—*Linu. Trans.* 1, p. 249.—C. *arabicus* L. ?—*Hellenia grandiflora*, Retz.—*Banksia speciosa*, Kön.—*Amomum hirsutum*, Lam. *ill.* 1, t. 3.—*Tsjana speciosa*, Gmel.—*Tjana-kua*, Rheed. 11, t. 8.—*Herba spiralis hirsuta*, Rumph. 6, t. 64, f. 1.) 4. Koost. 4. Keoo. 4. Moluccas. Sunda Islands. Cochinchina. Ava. Ceylon. Coromandel. Kennery Forests. Salsette. Throughout the hilly, wooded parts of the Concan. Bengal, (Serampore,) &c. Fl. large, white, inodorous, R. S.; fr. Sept. and Oct. The fresh roots are almost insipid. The natives make a preserve of them, which they deem wholesome and nutritious. The dry root does not at all resemble the *Costus arabicus* of the shops. (*Roxb.*)



2. *nepalensis*, Roscoe. (*Scit.*—*Spreng. syst. c. p. p.* 8.—*C. speciosus*, *β.* *angustifolius*, *R. Reg.* 8, t. 665.) 4. Nepal. Fl. large, white, rose-coloured, *R. S.*

3. *argyrophyllus*, Wall. (*Cat.*) 4. *Æstuary of the Irawaddi.* Fl. large, rosy-white, *R. S.* Comes very near to *C. nepalensis*.

* *Costus spicatus*, Swz. 4. *W. Indies.*—*C. niveus*, Meyer. *Essequibo.*—*C. comosus*, Roscoe, 4. *S. America.*—*C. spiralis*, Roscoe, 4. *Caracas.*—*C. afer*, Ker.; *B. Reg.* 8, t. 683. 4. *Sierra Leona.*—*C. Pisonis*, L.; *B. Reg.* 11, t. 899. 4. *Brazil.*—*C. pictus*, D. Don, 4. *Mexico.*

E. GLOBBÆ.

(*Globbæ, Bl.; Endl. gen. pl.* 1, p. 222.)

GLOBBA, L. (*Spreng. syst.* 1, p. 4, No. 16;—*Endl. l. c.*)

1. *marantina*, L. (*Spreng. syst.* 1, p. 15;—*Roscoe, in trans. Linn. soc.* 8, p. 356;—*Roxb. fl. ind.* 1, p. 77; *ed. Carey*, 1, p. 74;—*Sm. exot. bot.* 2, t. 103;—*J. Grah. Cat. B. pl.* p. 211.—*Colebrookia bulbifera*, *Roxb. in asiat. res.* 11, p. 356;—*Don. hort. cant.*—*B. C.* 1, t. 100.—*Ceratanthera amomoides*, *Horn.*;—*Rumph.* 5, t. 64, f. 2.) 4. *Moluccas. Rangoon, &c.* Fl. slender, bright yellow, fragrant, *R. S.*; fr. 0.

2. *oriensis*, *Roxb. (fl. ind.* 1, p. 78; *ed. Carey*, 1, p. 75; *Corom.* 3, t. 229;—*As. res.* 11, p. 358, t. 8;—*Spreng. l. c.*) 4. *Northern Circars. Travancore. Khassya Mountains. Assam. Nepal.* Fl. small, deep orange-yellow, *R. S.*; fr. 0.

3. *Careyana*, *Roxb. (fl. ind.* 1, p. 80; *ed. Carey*, 1, p. 77;—*Spreng. l. c.*;—*J. Grah. Cat. B. pl.* p. 211.—*G. sessiliflora*, *Sims.*; *B. M.* 35, t. 1428, excl. syn.) 4. *Rangoon.* Fl. small, deep orange, August; fr. 0.

4. *expansa*, Wall. (*Cat.*;—*J. Grah. Cat. B. pl.* p. 211.) 4. *Banks of the Irawaddi and Attran. Tavoy.* Fl. smallish, yellow, *R. S.*; fr. 0.

5. *bracteolata*, Wall. 4. *Pegu. Tenasserim.* Fl. smallish, yellow, *R. S.*; fr. 0.

6. *dubia*, Wall. 4. *Shivapore. Nepal.* Introduced in 1821. Unknown to us.

7. *saltatoria*, Roscoe. (*Scit.*—*G. radicalis*, *Roxb. Corom.* 3, t. 230.—*G. subulata*, *Roxb. fl. ind.* 1, p. 81; *ed. Carey*, 1, p. 78;—*Spreng. l. c.*—*G. purpurea*, *Andr. B. Repos.* 10, t. 615.—*Mantisia saltatoria*, *Sims.*; *B. M.* 32, t. 1320.) 4. *Chittagong.* Fl. smallish, beautifully purple, with the lip deep orange-yellow, April, May and June; fr. 0.

8. *spathulata*, *Roxb. (fl. ind.* 1, p. 83; *ed. Carey*, 1, p. 80;—*Spreng. l. c.*—*Mantisia spathulata*, *Wall. in Roxb. o. c. p.* 81.) 4. *Khassya Mountains.* Fl. smallish, azure, with the lip yellow, April; fr. 0.

9. *velutina*, Wall. *Silhet.*

* *Globba bulbifera*, *Roxb.* 4. *Northern Circars.*—*G. racemosa*, *Sm.* 4. *Nepal.*—*G. versicolor*, *Sm.* (*Exot. bot.* 2, t. 117, a. b. c.—*G. Hura*,

Roxb.) 2. Peninsula of Malacca.—*G. pendula*, Roxb. Corom. 3, t. 228. 2. Penang.

ROSCEA, Sm. (*Spreng. syst.* 1, p. 3, No. 8;—*Endl. gen. pl.* 1, p. 223; not Roxb.)

1. *purpurea*, Sm. (*Exot. bot.* 2, p. 97, t. 108;—*Hook. exot. fl.* 2, t. 144;—*Spreng. syst.* 1, p. 9;—*Royle. ill.* t. 89, f. 3.) 2. Mussooree, &c. in the Himalayas. Fl. largish, bluish-purple. Introduced in 1818, but we do not know whether it flowered.

* *Roscoe purpurea*, β , *procera*, Wall. pl. as. rar. 3, t. 242. 2. Shivapore Mountain.—*R. capitata*, Sm.; Wall. pl. as. rar. 3, t. 255. 2. Nepal.—*R. alpina*, Royle. ill. t. 89, f. 1. 2. Simla. Choor. Landour.—*R. lutea*, Royle. ill. t. 89, f. 2. 2. Mussooree.—*R. elatior*, Sm. 2. Nepal. Kemaon.—*R. exilis*, Sm. 2. Nepal.—*R. spicata*, Sm. 2. Nepal.—*Hornstedtia Scyphus*, Retz. 2. Peninsula of Malacca.—*H. Leonurus*, Retz. 2. Peninsula of Malacca.

ORDER CCXXVI.—MARANTACEÆ, Lindl. Nat. Syst. p. 324.

THE ARROW-ROOT TRIBE.

“While the Ginger-tribe is valued for its aromatic, heating principle, this tribe is esteemed on account of the fæcula, which abounds in the rhizoma and root of both tribes, being destitute of that principle. It is, therefore, collected as a delicate article of food, from *Maranta arundinacea*, L., *M. Alloya*, Jacq., &c. in the W. Indies, and from *M. ramosissima*, Wall., in the East.” (*Lindl.*)

PERYNIUM, Willd. (*Spreng. syst.* 1, p. 3, No. 5;—*Endl. gen. pl.* 1, p. 226.)

1. *spicatum*, Roxb. (*fl. ind.* 1, p. 5; ed. Carey, 1, p. 5;—*Roscoe Scit.*;—*Spreng. syst.* 1, p. 8.) 2. Pegu. Fl. small, whitish, April and May; fr. 0.
2. *imbricatum*, Roxb. (*fl. ind.* 1, p. 6; ed. Carey, 1, p. 6;—*Spreng. l. c.*) 2. Chittagong. Fl. small, pale rose-coloured, March and April; fr. August.
3. *parviflorum*, Roxb. (*fl. ind.* 1, p. 7; ed. Carey, 1, p. 7;—*Roscoe Scit.*;—*Spreng. l. c.*) 2. Khasiya Mountains, Assam. Fl. very small, yellow, R. S.; fr. C. S.
4. *capitatum*, Willd. (*Spreng. l. c.*;—*Roxb. fl. ind.* 1, p. 8; ed. Carey, 1, p. 7;—*J. Grah. Cat. B. pl.* p. 212.—*Phyllodes placentaria*, Lour.—*Rheed.* 11, t. 34.) 2. Cochin China. Chittagong. Silhet. Assam. Fl.



small, in the morning rose-coloured, becoming purple by the evening, R. S.; fr. C. S. In Cochin China eatables are rolled up in the leaves and so boiled, to give them colour, and a grateful flavour. (*Lour.*)

5. *macrostachyum*, Wall. (*Cat.*) 2. Rangoon. Tavoy. Introduced in 1827. Unknown to us.

6. *setosum*, Roscoe. (*Scit.*) Brazil.

7. *cylindricum*, Roscoe. (*Scit.*) Brazil.

MARANTA, L. (*Spreng. syst.* 1, p. 3, No. 3;—*Endl. gen. pl.* 1, p. 226.)
Arrow root.

1. *arundinacea*, L. (*Spreng. syst.* 1, p. 8;—*Roscoe Scit.*;—*Redouté Lil.* 57;—*B. M.* 49, t. 2307.—*M. arundinacea*, *Cannacori folio*, *Plum. gen.* 16.—*Mart. Cent.* 39, t. 39.—*Canna indica*, radice alba alexipharmaca, *Sloane, hist.* 1, p. 253, t. 149.) *Indian Arrow Root*. 2. Tropical S. America. Cultivated in the W. and E. Indies. Fl. middle-sized, pure white, R. S.; fr. 0. The common Arrow-root is prepared from the roots by maceration in water in the same manner as starch is made from wheat, potatoes, and other farinaceous substances. (*Sims.*)

2. *ramosissima*, Wall. (*pl. as. rar.* 3, t. 286;—*J. Grah. Cat. B. pl.* p. 212.) 2. Silhet. Fl. somewhat larger than No. 1, pure white, R. S. The tuberous roots yield an abundance of Arrow-root.

3. *dichotoma*, Wall. (*Cat.*—*Phrynium dichotomum*, *Roxb. fl. ind.* 1, p. 2; *ed. Carey*, 1, p. 2;—*J. Grah. Cat. B. pl.* p. 212;—*Spreng. syst.* 1, p. 8.—*Thalia canneformis*,—*Horst. pr. No.* 3.—*Donax Arundastrum*, *Lour.*;—*Rumph.* 4, t. 7.) झरु पाती *Mookto-patee*. पाती पाती *Patee-patee*. 2. Moluccas. Cochin China. Siam. New Hebrides. Coromandel. Bengal. Silhet. Assam. Fl. largish, pure white, H. S.; fr. July and August. सीतल पाती *Seetul-patee*, 3 : Mats made of the split stems of this plant, being smooth and particularly cool and refreshing, are well known every where in India.

4. *virgata*, Wall. (*Cat.*—*Phrynium virgatum*, *Roxb. fl. ind.* 1, p. 4; *ed. Carey*, 1, p. 4;—*Spreng. l. c.*) 2. Mountains between Travancore and Tinnevely. Courtallum. Fl. smallish, pure white, the two longest of the inner segments yellow-margined, R. S.; fr. C. S.

5. *bicolor*, Ker. (*B. Reg.* 10, t. 786;—*Spreng. syst. c. p.* p. 5.—*B. Cab.* 10. 921.) 2. Brazil. Has been cultivated in the garden here for many years, without flowering.

CALATHEA, G. F. W. Meyer. (*Spreng. syst.* 1, p. 3, No. 2;—*Endl. gen. pl.* 1, p. 227.)

1. *zebrina*, Lindl. (*Maranta Zebrina*, *Sims.*; *B. M.* 44, t. 1926;—*B. Reg.* 5, t. 385;—*J. Grah. Cat. B. pl.* p. 212.—*Phrynium zebrinum*, *Roscoe Scit.*) 2. Brazil. Fl. large, beautifully purple. Was introduced in 1824, but we do not know, whether it flowered. Has also been introduced into H. C. G. Fl. ?

2. *flavescens*, Lindl. (*B. Reg.* 11, t. 932;—*Spreng. syst. c. p.* p. 5.) 2. Rio Janeiro. Introduced in 1841.



CANNA, L. (*Spreng. syst.* 1, p. 3, No. 1;—*Endl. gen. pl.* 1, p. 227.) *Indian Shot.*

1. *Lamberti*, Lindl. (*B. Reg.* 6, t. 470;—*Spreng. syst.* 1, p. 7, and p. 9.—*C. indica*, Ruiz and Pav.; not L.) ¼. Peru. Introduced in 1841.
2. *patens*, Roscoe. (*Scit.*;—*Spreng. l. c.* and p. 9;—*B. Reg.* 7, t. 576.)—*C. indica* β. *patens*, Ait.—*C. indica*, Curt. *B. M.* 13, t. 454, not L. and excl. syn.) ¼. St. Helena? Fl. large, calyx pale-green; exterior limb of the corol in three yellow-greenish segments; upper lip of the interior limb deep red, lower lip yellow with red spots, R. S.
3. *coccinea*, Roscoe, (*Scit.*;—*Spreng. syst. l. c.*—*C. indica* γ. *coccinea*, Willd.—*C. rubra* (*indica* γ. *coccinea*.) Willd.—*C. speciosa*, major, *Hegetschweiler Com. bot.* t. 1, f. 7.) ¼. S. America. Fl. large; calyx pale-red; outer limb of the corol flesh-coloured; upper lip of the inner limb scarlet, lower lip yellow with scarlet spots. H. and R. S.; fr. C. S.
4. *lutea*, Roscoe. (*Spreng. l. c.* and p. 9;—*B. M.* 46, t. 2085;—*J. Grah. Cat. B. pl.* p. 211, excl. syn. *B. Reg.*—*C. indica*, β. *lutea*, Ait.) ¼. S. America? Fl. large, yellow, with large brownish-rush-coloured spots, R. S.
5. *gigantea*, Redouté. (*Lil.* 331;—*B. Reg.* 3, t. 206;—*B. M.* 49, t. 2316;—*Spreng. l. c.* under *C. patens*.—*C. latifolia*, Roscoe;—*Spreng. o. c.* p. 9;—*J. Grah. Cat. B. pl.* p. 211.) ¼. S. America. Fl. very large, scarlet, C. S.
6. *polymorpha*, Lodd. (*Bot. Cab.*) ¼. S. America. Has been introduced into the garden here. Not known to us.
7. *limbata*, Roscoe. (*Scit.*;—*B. Reg.* 10, t. 771;—*Spreng. syst.* 1, p. 9.—*C. auro-vittata*, Lodd. *B. Cab.*) ¼. Brazil. Fl. large; calyx pale-green; outer limb of corol pale-yellow; upper lip of the inner limb bright scarlet with orange margins; lower lip red-spotted, Feb. and March.
8. *speciosa*, Roscoe. (*B. M.* 49, t. 2317;—*B. Reg.* 15, t. 1276;—*J. Grah. Cat. B. pl.* p. 211;—*Spreng. syst.* 1, p. 9.—*C. nepalensis*, Wall. *Cat.*;—*J. Grah. o. c.* p. 212.) ¼. Nepal. Fl. large; calyx bright-red; outer limb of the corol deep-red; upper lip of the inner limb bright-red with yellow claws; lower lip yellow at base, red towards apex, nearly the whole year; fr. C. S.
9. *indica*, L. (*Roxb. fl. ind.* 1, p. 1; ed. Carey, 1, p. 1;—*J. Grah. Cat. B. pl.* p. 211; excl. syn. Ait., Roscoe, B. Cab., B. Reg., and B. M.—*C. orientalis*, Roscoe *Scit.*—*C. chinensis*, Willd.;—*Rheed.* 11, t. 43; *Rumph.* 5, t. 71, f. 2.) बाँझ मर्ब जया *Lal-surbo-jaya*. ¼. Common all over India. Fl. large, bright scarlet, and fr. nearly throughout the year.
β. *flava*, Roxb. (*l. c.*—*C. orientalis*, β. *flava*, Roscoe *Scit.*) শ্বেত মর্ব জয়া *Shwet-surbo-jaya*. Fl. pale-yellow. Equally common with α.



10. *denudata*, Roscoe. (*Scit.*;—*Spreng. syst. c. p. p.* 5.) ♀. Brazil. Introduced in 1821. Unknown to us.
11. *pallida*, Roscoe. (*Scit.*;—*Spreng. syst. c. p. p.* 5.) ♀. Barbadoes. Fl. large, pale-yellow, with orange spots, nearly throughout the year; fr. C. S.
12. *pedunculata*, Roscoe. (*Scit.*;—*Spreng. syst.* 1, p. 9, excl. syn. Willd. and *c. p. p.* 5;—*B. M.* 49, t. 2323.) ♀. Brazil? Fl. large, orange-coloured, C. S.
13. *flaccida*, Roscoe. (*Scit.*;—*Spreng. syst.* 1, p. 7, and p. 9;—*J. Grah. Cat. B. pl.* p. 211;—*C. Reevesii. Lindl. B. R.* 23, 2004;—*Satisb. icon.* t. 2.) ♀. S. Carolina. Georgia. Fl. large, pale-yellow, C. S.
14. *glauca*, L. (*Roscoe Scit.*;—*Sm. exot. bot.* 2, t. 102;—*Spreng. l. c.* and p. 9;—*Roxb. H. B. p.* 1;—*J. Grah. Cat. B. pl.* p. 211.) ♀. S. America. Africa? Fl. large, uniformly sulphur-coloured, nearly throughout the year; fr. C. S.
15. *iridiflora*, Ruiz. and Pav. (*Spreng. syst. l. c.* and p. 9;—*B. M.* 45, t. 1968;—*B. Reg.* 8, t. 609.) ♀. Peru. Fl. very large, crimson. Has been introduced into H. C. G. Fl.?
16. *discolor*, Lindl. (*B. Reg.* 15, t. 1231.) ♀. Trinidad. Fl. large; calyx rose-coloured; outer limb of the corol yellowish dull red; upper lip of the inner limb deep scarlet, inner limb pale yellowish-red. Introduced in 1841.

* *Myrosma cannaefolia*, L. fil. ♀. Surinam.—*M. comosa*, Spreng. ♀. Surinam.—*Phrynium grandiflorum*, Roscoe. ♀. Brazil.—*S. Parkeri*, Roscoe. ♀. Granada.—*P. Casupo*, Roscoe. ♀. S. America.—*S. ellipticum*, Roscoe. ♀. Guiana.—*S. setosum*, Roscoe. ♀. Rio Janeiro.—*Thalia dealbata*, Roscoe. ♀. B. M. 41, t. 1690, ♀. Carolina.—*T. geniculata*, Roscoe. ♀. W. Indies.—*Maranta indica*, Tuss. ♀. W. Indies.—*M. Tonchat*, Aubl. S. Guiana.—*M. lutea*, Jacq. ♀. Caraccas.—*M. Alloja*, Jacq. ♀. S. America.—*M. obliqua*, Rudg. ♀. Guiana.—*M. gracilis*, Rudg. ♀. Guiana.—*M. gibba*, Sm. ♀. Barbadoes.—*M. sylvatica*, Roscoe. ♀. Barbadoes.—*M. angustifolia*, Sims.; B. M. 50, t. 2398. ♀. Peru.—*M. furcata*, Mart. S. Brazil.—*M. cristata*, Mart. ♀. Brazil.—*M. spicata*, Aubl. S. Guiana. Brazil.—*Calathea violacea*, Lindl. B. Reg. 12, t. 961. ♀. Brazil.—*C. longibracteata*, Lindl.; B. Reg. 12, t. 1020. ♀. Brazil.—*C. grandifolia*, Lindl.; B. Reg. 14, t. 1210. ♀. Rio Janeiro.—*C. macilenta*, Lindl. ♀. Rio Janeiro.—*Canna edulis*, Ker. B. Reg. 9, t. 775. ♀. Peru.—*C. lagunensis*, Lindl.; B. Reg. 16, t. 1311. ♀. Mexico.—*C. Achiras*, Lindl.; B. Reg. 16, t. 1358. ♀. Mendoza.



ORDER CCXXVII.—MUSACEÆ, Agardh.—Lindl. Nat. Syst. p. 326.

THE BANANA TRIBE.

Stemless plants, or nearly so, by Lindl. referred to 4 genera. Of these, Spreng. syst. and Loud. Hort. Brit. new edit. enumerate 12 species for S. America, and the West Indies; 10 for S. Africa; 2 for China; 1 for Madagascar; and 1 for Mauritius.—In the E. Indies have been discovered 12 species of *Musa*; and 1 of *Heliconia*;—all except *Musa nepalensis*, natives of Tropical India.—*Plantains* are well known to every-body.

A. HELICONIÆ, A. Rich. (*Endl. gen. pl. p. 228.*)

HELICONIA, L. (*Spreng syst. 1, p. 524, No. 956;—Endl. gen. pl. p. 228.*)

1. *buccinata*, Roxb. (*fl. ind. 1, p. 670; ed. Carey, 2, p. 494;—Spreng. syst. c. p. p. 109;—J. Grah. Cat. B. pl. p. 213.*—*H. indica*, Lam.; partly.—*Folium buccinatum*, Rumph. 5, t. 62, f. 2.) 4. Moluccas. Fl. largish, pale-yellow, H. S. (Roxb.) In the garden here it has not fl. during the last 12 years.
2. *brasiliensis*, Hook. (*Exot. fl. t. 190;—Spreng. syst. c. p. p. 109.*) 4. Brazil. Introduced in 1841.
3. *bicolor*, Benth. 4. Brazil.

B. RAVENALÆÆ.

(*Uraniæ*, Rich.; *Endl. gen. pl. p. 228.*)

STRELITZIA, Banks. (*Spreng. syst. 1, p. 524, No. 955;—Endl. l. c.*)

1. *ovata*, Dryand. (*Spreng. syst. 1, p. 833.*—*B. Reginae*, Curt. B. M. 3, t. 119, 20, not Ait.) 4. C. G. H. Fl. very large, bright orange, with a beautifully azure nectary, C. S.; fr. 0.
2. *juncea*, Lk. (*S. parvifolia*, Dryand. 3. *juncea*, B. Reg. 6, t. 516.) 4. C. G. H. Fl. very large, orange-coloured, with the nectary bluish-purple, Oct.; fr. 0.

MUSA, Tournef. (*Spreng. syst. 1, p. 524, No. 954;—Endl. gen. pl. 1, p. 228.*) *Plantain Tree.*

1. *paradisiaca*, L. (*Spreng. syst. 1, p. 833.*—*M. paradisiaca*, 3. *sapientum*, Bertol.—*M. sapientum*, Roxb. *fl. ind. 1, p. 663; ed. Carey, 2, p. 484; Corom. 3, t. 275;—J. Grah. Cat. B. pl. p. 212.*—*Rheed. 1, t. 12, 13, 14;—Rumph. 1, t. 60.*) कला Kula. Cultivated Plantain. राम कला Ram-Kula. Wild Plantain. Fl. large, yellowish-whitish, and fr. throughout the year. A native of the E. Indies, cultivated every where within the Tropics. The numerous varieties we have in vain tried to put into some order. The attempt made for this purpose, in Schult. tom. 8, p. 1289-92, appears to us only to have increased the confusion.
2. *rosacea*, Jacq. (*Hort. Schönbr. 4, t. 445;—Spreng. l. c. and c. p. p. 109;—B. Cab. t. 615;—B. Reg. 9, t. 706, A. B.*—*M. ornata*, Roxb. *fl. ind. 1, p. 666; ed. Carey, 2, p. 488.*) 4. Chittagong, &c.



Cultivated at the Mauritius. Fl. large, purple yellow-white, and fr. nearly the whole year.

3. *superba*, Roxb. (*fl. ind.* 1, p. 667; *ed. Carey*, 2, p. 489; *Corom.* 3, t. 223;—*Spreng. o. c.* p. 833.) ♀. Dindygul. Fl. large, pale-coloured, R. S.; fr. C. S.
4. *nepalensis*, Wall. (*Roxb. fl. ind.*; *ed. Carey*, 2, p. 492;—*Spreng. syst. c. p. p.* 109, under *M. glauca*.—*Schult.* 8, p. 1295.) ♀. Smaller Mountains of Nepal, in dense shady forests. Fl. large, yellowish. Has been cultivated for years in the garden here, without flowering. The Nepalese eat the fruit, though it contains little else than hard seeds. (*Wall.*)
5. *glauca*, Roxb. (*fl. ind.* 1, p. 669; *ed. Carey*, 2, p. 490;—*Spreng. syst.* 1, p. 833.) ♀. Pegu. Fl. like those of No. 1, May; fr. Oct. and Nov.
6. *textilis*, Nees.—(*Schult.* 8, p. 1297;—*Roxb. H. B.* p. 19.—*Musa seminifera*, var. 1. *Lour.*) *Manilla Hemp*. ♀. Philippines. Has been cultivated for many years in the garden here, without flowering. The leaves yield a most valuable flax, from which some of the finest muslins are prepared.
7. *coccinea*, Andr. (*B. Repos.* 1, t. 47;—*B. M.* 38, t. 1559;—*Red. lil.* t. 307-8;—*Spreng. syst.* 1, p. 833;—*Roxb. fl. ind.* 1, p. 665; *ed. Carey*, 2, p. 487.) ♀. China. Fl. large, scarlet, yellow-tipped, and fr. nearly the whole year. (*Roxb.*)
8. *rubra*, Wall. (not Hortul.) ♀. In H. C. G.—Banks of the Irawaddi. ?
9. *chinensis*, Swt. (*M. Cavendishii*, *Pact. Bot. Mag.* 3, 51.) ♀. China. In H. C. G.

RAYENALA, Adans. (*Endl. Nov. gen.* 1, p. 228.) *Traveller's tree*.

1. *madagascariensis*, Sonner. (*voy.* 2, p. 223, t. 124-126;—*Poir. enc. meth.* 6, p. 80.—*Jacq. hort. schönbr.* 1, t. 93.—*Schult.* 8, p. 1299.—*Urania speciosa*, Willd.;—*Spreng. syst.* 2, p. 115;—*Roxb. fl. ind.* 2, p. 114.—*U. Madagascariensis*, *Raüschel.*) 5 Madagascariensis. Fl. large, white, inodorous, Sept. and Oct.; fr. May, June and July. While in blossom the spathes are all completely filled with clear gelatinous matter.

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- * *Heliconia Bihai*, Swz. ♀. W. Indies.—*H. caribea*, Lam. ♀. W. Indies.—*H. Ballia*, Rich. ♀. Maranhao.—*H. humilis*, Jacq. ♀. Caraccas.—*H. psittacorum*, Willd. ♀. W. Indies.—*H. Swartziana*, Röm. and Sch. (*H. psittacorum*, β . *B. M.* 14, t. 502.) ♀. Jamaica.—*H. hirsuta*, Röm. and Sch. ♀. S. America.—*H. pulverulenta*, Lindl.; *B. Reg.* 19, t. 1648. S. America.—*Strelitzia augusta*, Thunb. ♀. C. G. H.—*S. reginae*, Ait. ♀. C. G. H.—*S. humilis*, Lk. ♀. C. G. H.—*S. farinosa*, Ait. ♀. C. G. H.—*Musa maculata*, Jacq. ♀. Mauritius.—*M. Berteroniana*, Colla. ♀. Moluccas.—*M. Balbisiana*, Colla. ♀. Amboyna.—*M. acuminata*, Colla. ♀. Amboyna.

ORDER CCXXVIII.—AMARYLLACEÆ, (AMARYLLIDACEÆ, Lindl.
Nat. Syst. p. 328.)

THE NARCISSUS TRIBE.

Bulbous, sometimes fibrous-rooted herbs, occasionally with a tall, cylindrical woody stem, by Lindl. referred to 67 genera. A very few are found in N. Europe, or the same parallel. These are plants of the genera *Narcissus* and *Galanthus*. As we proceed south, they increase. *Pancratium* appears on the shores of the Mediterranean; *Crinum*, in the E. Indies; *Hymenocallis* in the W. Indies. *Hæmanthus* is found for the first time with some *Crinums* on the Gold Coast. *Hippeastras* show themselves in countless numbers in Brazil, and across the whole Continent of S. America; and finally, at the Cape of Good Hope the maximum of the order is beheld in all the beauty of *Hæmanthus*, *Crinum*, *Clivia*, *Cyrtanthus*, and *Brunswigia*. A few are found in New Holland, the most remarkable of which is *Doryanthes* (Lindl.) The E. Indian Amaryllaceæ amount, according to our materials to 25 species, viz. 8 of *Curculigo*; 1 of *Hypoxis*; 4 of *Pancratium*; 11 of *Crinum*; and 1 of *Eurycles*.

“One of the few monocotyledonous orders in which any poisonous properties are found. These are principally apparent in the viscid juice of the bulbs of *Hæmanthus toxicarius*, and some neighbouring species, in which the Hottentots are said to dip their arrow-heads. The bulbs of *Narcissus poeticus* have for ages been known as emetic; and it has recently been shewn that a similar power exists in *Narcissus tazetta*, *odoros*, and *Pseudonarcissus*, as well as in *Pancratium maritimum*. DC. considers the principle found in Amaryllidaceæ analogous to that of the Squill.” (Lindl.)

A. HYPOXIDÆÆ, R. Br.;—Endl. *gen. pl.* 1, p. 173.

CURCULIGO, Gärtn. (*Spreng. syst.* 2, p. 6, No. 1207;—*Herb. amaryll.* p. 83;—Endl. *gen. pl.* 1, p. 173.—Molineria, *Herb. o. c. p.* 84.)

1. *orchioides*, Gärtn. (*fr.* 1, p. 63, t. 16, f. 11;—*Roxb. Corom.* 1, t. 13; *fl. ind.* 2, p. 144;—*J. Grah. Cat. B. pl.* p. 215;—*Spreng. syst.* 2, p. 60;—*Herb. o. c. p.* 83;—*B. M.* 27, t. 1076;—*Rheed.* 12, t. 59;—*Rumph.* 6, t. 54, f. 1.) তাল্লোরা *Tal-loora*. 2. Moluccas. Coromandel. Concans. Bengal. (Serampore.) Silhet. Assam. Kemaon. Fl. smallish, yellow, more or less throughout the year.
2. *plicata*, Dryand. (*Spreng. l. c.*;—*Herb. l. c.*—*Hypoxis plicata*, Thunb.—*Gethyllis plicata*, Jacq. *hort. schönbr.* 1, t. 88.) 2. C. G. H.
β. *glabra* (*B. Reg.* 4, t. 345.—*Forbesia plicata*, Ecklon. *topogr.*) 2. C. G. H. Fl. smallish, yellow. Introduced in 1841.
3. *recurvata*, Dryand. (*Spreng. l. c.*;—*Roxb. fl. ind.* 2, p. 145;—*B. Reg.* 9, t. 770.—*Molineria recurvata*, *Herb. o. c. p.* 83.) 2. Coromandel. Silhet. Nepal. Fl. 9 lines in diameter, yellow, R. S.; fr. C. S.



4. *sumatrana*, Roxb. (*fl. ind.* 2, p. 146;—*B. Cab.* t. 443.—*Molineria sumatrana*, *Herb. l. c.*;—*Rumph.* 6, t. 53.) 4. Moluccas. Sumatra. Penang. Fl. like those of No. 3, March and April; fr. O.
- HYPOXIS*, L. (*Spreng. syst.* 2, p. 6, No. 1206;—*Herb. amaryll.* p. 84;—*Endl. gen. pl.* 1, p. 174.)
1. *ovata*, Thunb. (*Spreng. o. c. p.* 59;—*Herb. l. c.*;—*B. M.* 25, t. 1010.) 4. C. G. H. Fl. 9 lines in diameter, externally green, internally yellow, June; fr. O.
2. *stellata*, L. (*Spreng. l. c.*;—*Herb. l. c.*;—*B. M.* 18, t. 662;—*Jacq. ic. rar.* 2, t. 368;—*B. Repos.* t. 101.—*Fabricia stellata*, *Thunb.*—*Amaryllis capensis*, *L. sp. pl.* p. 420.) 4. C. G. H. Fl. very large, beautiful, scentless, yellow, with a dark-brown spot at the base of each petal, May and June; fr. O.
3. *linearis*, Andr. (*B. Rep.* t. 171;—*Spreng. l. c.*;—*Herb. l. c.*) 4. C. G. H. Introduced in 1841.
4. *obtusata*, Burch. (*Spreng. o. c. p.* 60;—*B. Reg.* 2, t. 159;—*Herb. l. c.*) 4. C. G. H. Fl. middle-sized, bright yellow, inodorous, May and June.
5. *aquatica*, L. (*Spreng. l. c.*;—*Herb. l. c.*) 4. C. G. H. Introduced in 1841.

* *Curculigo latifolia*, Dryand;—*B. M.* 46, t. 2034;—*B. Reg.* 9, t. 754, 4. Moluccas.—*C. graminifolia*, Nimmo. 4. Kandalla.—*C. ensifolia*, R. Br. 4. Tropical N. Holland.—*Hypoxis minor*, Don.; Royle, ill. t. 91, f. 3. (*H. curculigoides*, Wall. Cat.) 4. Himalayas.—*H. serrata*, L. B. M. 19, t. 709. 4. C. G. H.—*H. erecta*, L.; B. M. 19, t. 710. 4. C. G. H.—*H. elegans*, Andr. (*H. stellata*, β . B. M. 30, t. 1223) 4. C. G. H.—*H. stellipilis*, Ker.;—*B. Reg.* 8, t. 663;—*B. M.* 65, t. 3696. 4. C. G. H.—*H. marginata*, R. Br. 4. Tropical N. Holland.

B. AMARYLLÆÆ, *Endl. gen. pl.* 1, p. 174.

- LEUCOJUM*, L. (*Spreng. syst.* 2, p. 5, No. 1197;—*Endl. gen. pl.* 1, p. 175;—*Herb. amaryll.* p. 332.) *Snow-flake.*
1. *æstivum*, L. (*Spreng. o. c. p.* 49;—*Herb. l. c.*;—*E. B.* 9, t. 621;—*B. M.* 30, t. 1210;—*Roxb. H. B. p.* 23.) 4. England. S. Europe. Fl. middle-sized, white, with a green spot beneath the tip of each segment, slightly fragrant when smelled closely. H. S.; fr. O.
2. *vernum*, L. (*Spreng. l. c.*;—*Herb. l. c.*;—*B. M.* 2, t. 46.) 4. Germany. Italy. Introduced in 1819. Fl.?
3. *pulchellum*, Salisb. (*Parad. lond.* t. 21.) 4. Native Country? Introduced in 1811. Fl.?
4. *trichophyllum*, Brot. (*Spreng. l. c.*;—*B. Reg.* 7, t. 544.—*Acis trichophyllus*, Sweet.) 4. Portugal. Barbary. Introduced in 1819. Fl.?
5. *autumnale*, L. (*Spreng. syst. l. c.*;—*B. M.* 24, t. 960.—*Acis autumnalis*, Salisb.) 4. S. Europe. Introduced in 1811. Fl.?

IMBROBIA, Herb. (*Amaryll. p.* 290.)

1. *filifolia*, Herb. (*o. c. t.* 29, *f.* 8.—*Strumaria filifolia*, *Jacq. ic. rar.* 2, *t.* 14;—*Spreng. syst.* 2, *p.* 57;—*B. Reg.* 6, *t.* 440.—*Leucojum strumosum*, *Jacq. ic. rar.* *t.* 361; as to the plate, not the text.) 4. C. G. H. Fl. middle-sized, white, lined with red. Introduced in 1814.

STERNBERGIA, Waldst. and Kit. (*Spreng. syst.* 2, *p.* 6, *No.* 1202;—*Endl. gen. pl.* 1, *p.* 175.)

1. *lutea*, Ker. (*Spreng. o. c. p.* 57.—*Amaryllis lutea*, *L.*; *B. M.* 9, *t.* 290.) 4. Spain. Sicily. Greece. Fl. large, yellow. Introduced in 1808. Fl. ?

HAYLOCKIA, Herb. (*Endl. gen. pl.* 1, *p.* 175.)

1. *pusilla*, Herb. (*B. Reg.* 16, *t.* 1371.) 4. Buenos Ayres. Fl. largish, pale sulphur, externally purplish spotted, internally purple streaked. Introduced in 1841. Has not fl. yet.

COOPERIA, Herb. (*Amaryll. p.* 178;—*Endl. gen. pl.* 1, *p.* 176.)

1. *Drummondiana*, Herb. (*o. c. t.* 24, *f.* 2, 5-11, *t.* 41, *f.* 16.—*C. Drummondii*, *Herb.*;—*B. Reg.* 22, *t.* 1835.) 4. Texas. Fl. middle-sized, white, underneath red lined, with a 4½ inches long red, streaked tube. Introduced in 1841.

ZEPHYRANTHES, Herb. (*Amaryll. p.* 170;—*Endl. gen. pl.* 1, *p.* 176, under *Amaryllis*.)

1. *mesochloa*, Herb. (*l. c.*;—*B. Reg.* 16, *t.* 1361.) 4. Buenos Ayres. Fl. large, half green, above white, stained with red on the outside, inodorous, R. S.; fr. C. S.

2. *Atamasco*, Herb. (*o. c. p.* 171.—*Amaryllis Atamasco*, *L.*; *Spreng. syst.* 2, *p.* 49, excl. *c. p.* *p.* 132;—*Rorb. H. B. p.* 24;—*B. M.* 7, *t.* 239;—*B. Cab. t.* 1899;—*Catesb. car.* 3, *t.* 12.) 4. Carolina. Fl. large, white, in the bud outside bright red. Introduced into H. C. G. in 1798, but had not fl. up to 1814. In the garden here it has not fl.

3. *tubispatha*, Herb. (*l. c.*—*Amaryllis tubispatha*, *B. M.* 38, *t.* 1586, not *L'Herit.*) 4. Blue Mountains, Jamaica. Fl. large, white, green below, inodorous, and fr. R. S.

4. *carinata*, Herb. (*o. c. p.* 173;—*B. M.* 52, *t.* 2594.—*Z. grandiflora*, *B. Reg.* 11, *t.* 902, as to the flower, but not the leaves and seeds.) 4. Mexico. Fl. large, bright rose-coloured, inodorous, and fr. R. S.

5. *rosea*, Lindl. Herb. (*l. c.*;—*B. Reg.* 10, *t.* 821;—*B. M.* 52, *t.* 2537.) 4. Mountains of Cuba. Fl. much smaller than *No.* 4, deep rose-coloured, inodorous, and fr. R. S.

6. *sessilis*, Herb. (*o. c. p.* 175.)

- a. *verecunda*, Herb. (*l. c.*—*Z. verecunda*, *Herb.*—*B. M.* 52, *t.* 2583;—*J. Grah Cat. B. pl.* *p.* 215.) 4. Mexico. Fl. small white, tinged with bluish outside, inodorous, and fr. R. S.

- β. *striata*, Herb. (*l. c.*—*Z. striata*, *Herb.*;—*B. M.* *t.* 2593.) 4. Mexico. Fl. small, streaked with red outside, inodorous, and fr. R. S.



- candida*, Herb. (o. c. p. 176 ;—*B. M.* 53, t. 2607.—*Amaryllis candida*, Ker. ;—*B. Reg.* 9, t. 724 ;—*Spreng. syst.* 2, t. 49, not c. p.) 4. Peru. Buenos Ayres. Fl. largish, white, with a green tube, and a purplish spathe, inodorous, and fr. R. S.
- HABRANTHUS, Herb. (*Amaryll.* p. 156 ;—*Endl. gen. pl.* 1, p. 176, under *Amaryllis*.)
1. *spathaceus*, Herb. (o. c. p. 160.)
β. *angustus*, Herb. (l. c.—*H. angustus*, Herb.—*B. M.* 53, t. 2639.)
4. Buenos Ayres. Fl. large, deep rose-coloured, inodorous, R. S.
 2. *bifidus*, Herb. (o. c. p. 160 ;—*B. M.* 52, t. 2597.) 4. Buenos Ayres. Fl. 2 inches long, purplish red, darker and lined with green underneath, R. S.
 3. *hesperius*, Herb. (o. c. p. 161.)
a. *advena*, Herb. (l. c.—*Amaryllis advena*, Ker. ;—*Spreng. syst.* 2, p. 53 ; *B. M.* 28, t. 1125 ;—*B. Reg.* 10, t. 849.) 4. Chili. Fl. large, red upwards, yellowish green below, inodorous, March ; fr. 0.
 4. *gracilifolius*, Herb. (o. c. p. 165 ;—*B. M.* 51, t. 2464.) 4. Maldonado, S. America. Fl. largish, pale reddish-purple, with a green tube, inodorous, R. S. ; fr. 0.
 5. *versicolor*, Herb. (o. c. p. 166 ;—*B. M.* 51, t. 2485.) 4. Maldonado, S. America. Fl. 2 inches, at first rosy, afterwards white, tinged with rose, inodorous, R. S. ; fr. 0.
 6. *robustus*, Swt. (*Brit. fl. gard.* 2, t. 14 ;—*Herb. l. c.* ;—*B. Cab.* t. 1761.—*Amaryllis tubispatha*, L'Herit, *sert. angl.* 9, not *A. Berterii*, Spreng. *syst.* 2, p. 49.) 4. Buenos Ayres. Fl. 3½ inches, purplish pink, fading to white, inodorous, R. S. ; fr. 0.
 7. *Andersonianus*, Herb. (o. c. p. 167.—*H. Andersonii*, Herb. ;—*B. Reg.* 16, t. 1345 ;—*B. Cab.* t. 1677.) 4. Monte Video. Fl. largish, golden or copper coloured, with external brownish streaks, and a brownish-reddish bottom, R. S. ; fr. 0.
- SPREKELIA, Heist. (*Herb. amaryll.* p. 133 ;—*Endl. gen. pl.* 1, p. 176, under *Amaryllis*.)
1. *formosissima*, Herb. (l. c.—*Amaryllis formosissima*, L. ; *Spreng. syst.* 2, p. 50 ;—*B. M.* 2, t. 47 ;—*Roxb. H. B.* p. 24 ;—*J. Grah. Cat. B. pl.* p. 215.) *Jacobean Lily*. 4. S. America. Fl. very large, crimson, inodorous, H. and R. S. ; fr. 0.
 2. *Dalhousieæ*, Wall. 4. Perfectly white. Brazil.
- HIPPRASTRUM, Herb. (*Amaryll.* p. 135 ;—*Endl. gen. pl.* p. 176, under *Amaryllis*.)
1. *aulicum*, Herb. (l. c. ;—*B. M.* 61, t. 3311.—*Amaryllis aulica*, Ker. ; *B. Reg.* 6, t. 444 ;—*Spreng. syst.* 2, p. 50.) 4. Rio Janeiro. Fl. very large, crimson, with the mouth of the tube green, inodorous, H. S.
β. *platypetalum*. (*Amaryllis aulica*, var. *platypetala*, Lindl. ; *B. Reg.* 12, t. 1038.) 4. Rio Janeiro, more robust, with broader petals.



- γ. glaucophyllum*, (Amaryllis aulica, var. platypetala, glaucophylla, Hook. ;—*B. M.* 57, t. 2983.) 2. Rio Janeiro. Leaves glaucous.
2. *calyptratum*, Herb. (o. c. p. 136.—Amaryllis calyptrata, Ker. ;—*B. Reg.* 2, t. 164 ;—*Spreng. syst.* 2, p. 50.) 2. Brazil. Fl. large, green tinged with faint red. Has not fl. here within our experience.
3. *psittacinum*, Herb. (l. c. ;—*B. M.* 53, t. 3528.—Amaryllis psittacina, Ker. ;—*B. Reg.* 3, t. 199 ;—*Spreng. syst.* 2, p. 50 ;—*J. Grah. Cat. B. pl.* p. 215.) 2. Brazil. Fl. large, green, streaked and margined with bright red, R. S. ; fr. 0.
4. *solandraeflorum*, Herb. (l. c. ;—*B. M.* 66, t. 3771.—Amaryllis solandraeflora, Lindl. coll. t. 11 ;—*Spreng. syst.* 2, p. 51.) 2. Guiana. Fl. very large, green and yellowish-white, inodorous, H. and R. S.
β. striatum, Herb. (l. c. ;—*B. M.* 52, t. 2573.) 2. Brazil. Fl. faintly streaked externally with red.
- γ. conspicuum*, Herb. (l. c.—Amaryllis solandraeflora, *β. vittata*, *B. Reg.* 11, t. 876.) 2. Fl. 10½ inches long, on the outside faintly red, streaked, with the tube purple red, inodorous, and fr. R. S.
5. *ambiguum*, Herb. (l. c.)
a. longiflorum, Herb. (*B. M.* 64, t. 3542.) 2. Lima. Has been introduced into H. C. G. and, no doubt, flowered.
6. *vittatum*, Herb. (o. c. p. 137.—Amaryllis vittata, L'Herit ;—*B. M.* 4, t. 129 ;—*Spreng. syst.* 2, p. 51 ;—*Roxb. H. B. p.* 24.) 2. Lima. Fl. very large, doubly striped with dull red, March and April.
7. *reticulatum*, Herb. (l. c.—Amaryllis reticulata, L'Herit ;—*Spreng. syst.* 2, p. 53 ;—*B. M.* 18, t. 657.) 2. Brazil. Fl. very large, purplish red, reticulated with a deeper colour, star white, March.
β. striatifolium, Herb. (l. c.—Amaryllis reticulata, *β* ;—*B. Reg.* 5, t. 352.—*A. reticulata*, *β. striatifolia*, Sims. ; *B. M.* 47, t. 2113.) 2. Brazil. Fl. larger, paler.
8. *barbatum*, Herb. (o. c. p. 138, t. 21, f. 1.—*Crinum barbatum*, L. MSS.—Amaryllis dubia, L. amon. 8, 254, excl. syn.) 2. Surinam. Fl. large, tube green, limb with a green star. Fl. ?
9. *equestre*, Herb. (o. c. p. 138.—Amaryllis equestris, Jacq. ;—*Spreng. syst.* 2, p. 50, excl. syn ;—*Roxb. H. B. p.* 24.) Barbadoes Lily.
a. minus, Herb. (Amaryllis equestris, *B. M.* 9, t. 305 ;—*J. Grah. Cat. B. pl.* p. 215, excl. *A. dubia*, L.—*Belladonna*, Merian. surinam. t. 22.) 2. Surinam. Fl. large, bright scarlet, with a green star, H. and R. S. ; fr. R. S.
β. majus, Herb. (l. c.—Amaryllis equestris, *β. major*, *B. Reg.* 3, t. 234.) 2. Demerara. Fl. much larger, H. and R. S.
- γ. semiplenum*, Herb. (l. c.) 2. Havannah. Bahama. Fl. half-double, H. and R. S.
10. *stylosum*, Herb. (o. c. p. 139 ;—*B. M.* 49, t. 2278.—Amaryllis maranensis, Ker. ;—*Spreng. syst.* 2, p. 50 ;—*B. Reg.* 9, t. 719.) 2. Maran-



- ham. Fl. large, of a dull coppery flesh colour, with a greenish tube, H. and R. S.
11. *miniatum*, Herb. (o. c. p. 403, t. 47, f. 5.—*Amaryllis miniata*, Ruiz. and Pav.;—*Spreng. syst.* 2, 50, excl. c. p. p. 133.) ♀. Peru. Fl. large, miniated, the tube with six fimbriated white scales at the mouth. Introduced in 1819. Fl. ?
12. *Reginæ*, Herb. (B. M. 49, app.—*H. regium*, Herb. *amaryll.* p. 139.—*Amaryllis Reginæ*, L.; *Spreng. syst.* 2, p. 50, excl. c. p. p. 133;—*B. M.* 13, t. 453;—*Roab. H. B.* p. 24;—*J. Grah. Cat. B. pl.* p. 215.) ♀. Mexico. Fl. large, scarlet, with a green star, H. and R. S.
13. *bulbosum*, Herb. (*Amaryll.* p. 139.)
- a. *subbarbatum*, Herb. (l. c.—*H. subbarbatum*, Herb.—*B. M.* 51, t. 2475.) ♀. Rio Janeiro. Fl. large, bright scarlet, with a greenish sulphur-coloured star, H. and R. S.
- β. *rutilum*, Herb. (o. c. p. 140.—*Amaryllis rutila*, Ker.; *B. Reg.* 1, t. 23;—*Spreng. syst.* 2, p. 51.) ♀. Brazil. Fl. smaller, brilliant, tending to scarlet, H. and R. S.
- γ. *fulgidum*, Herb. (l. c.—*Amaryllis fulgida*, Ker.;—*B. Reg.* 3, t. 226;—*Spreng. syst.* 2, p. 51.) ♀. Brazil. Fl. larger, paler, R. S.
- δ. *pallidum*, Herb. (l. c.) ♀. Brazil? Fl. like those of γ, but much paler, H. and R. S.
- ε. *Simsianum*, Herb. (l. c.—*Amaryllis miniata*, Sims.; *B. M.* 45, t. 1943; not Ruiz and Pav.) ♀. Brazil. Fl. large, red-lead-coloured, H. and R. S.
- ξ. *acuminatum*, Herb. (l. c.—*Amaryllis acuminata*, Ker.; *B. Reg.* 7, t. 534;—*Spreng. syst.* 2, p. 53.—*A. acuminata*, β. *longipedunculata* Lindl.; *B. Reg.* 14, t. 1188.) ♀. Rio Janeiro. Fl. large, pale red with a green sulphur-coloured star, undulate, acuminate, H. and R. S.
- η. *pulverulentum*, Herb. (l. c.;—*B. M.* 49, t. 2273.) ♀. Rio Janeiro, Fl. large, darker, less acuminate, H. and R. S.
- θ. *ignescens*, Herb. (o. c. p. 141.) ♀. Rio Janeiro? Fl. smaller, fiery orange, H. and R. S.
- ι. *crocatum*, Herb. (l. c.—*Amaryllis crocata*, Ker.; *B. Reg.* 1, t. 38;—*Spreng. syst.* 2, p. 53.) ♀. Brazil. Fl. smaller, and more undulate, than those of γ H. and R. S.

The hybrid or mixed Crosses of *Hippeastrum*, the names of which may be found in Herbert's *Amaryllidæ*, p. 144, but which it appears tedious and useless to enumerate, amount, in the garden here, to 74, nearly all presented to the late Dr. Carey by the Hon'ble and Rev. Mr. Herbert, and appearing in all their beauty during the hot and the first part of the rainy season.

VALLOTA, Herb. (*Amaryll.* p. 133;—*Endl. gen. pl.* 1, p. 176, under *Amaryllis*.)

1. *purpurea*, Herb. (o. c. p. 134.)



- a. major*, Herb. (*Amaryllis purpurea*, Ait.;—*Spreng. syst.* 2, p. 51; *B. M.* 35, t. 1430.—*A. elata*, Jacq. hort. schönbr. 1, p. 32, t. 62.—*A. speciosa*, L'Herit.) 4. C. G. H. Fl. three inches long, of a deep uniform red colour; the outer segments greenish down the centre of their back; throat connected by 6 paler coloured subtransparent membranes. Introduced in 1819. Again introduced in March, 1841, but has not fl. yet.
- β. *minor*, Herb. (*Amaryllis purpurea*, *B. Reg.* 7, t. 562.) 4. C. G. H. Fl. smaller, paler. Introduced with *a.*
- AMARYLLIS, Herb. (*Amaryll.* p. 275.—*Belladonna*, Sweet;—*Endl. gen. pl.* 1, p. 176, under *Amaryllis*.)
1. *Belladonna*, L. (*Spreng. syst.* 2, p. 51;—*Herb. t. c.*;—*B. M.* 19, t. 733;—*Roxb. H. B.* p. 24;—*J. Grah. Cat. B. pl.* p. 215.) 4. C. G. H. Fl. large, fragrant, the lower part greenish-white, upper suffused with rose colour or pale carmine, and veined. Introduced in 1808, and again in March 1841, but has not fl.
- β. *pallida*, Herb. (*B. Reg.* 9, t. 714;—*Spreng. l. c.*—*Amaryllis pallida*, Red. lil. 479.) 4. C. G. H. Fl. like those of *a.* but paler. Introduced in 1821, again in March, 1841, but has not fl. yet.
2. *blanda*, Ker. (*Herb. o. c.* p. 277;—*B. M.* 35, t. 1450;—*Spreng. o. c.* p. 51.) 4. C. G. H. Fl. 4 inches, white, fading to a blush or pale rose-colour. Introduced in 1821. Again in March, 1841, but has not fl. yet.
3. *Josephina*, Red. (*Lil.* 3, 370-372;—*Spreng. syst.* 2, p. 54.—*A. Josephiniana*, *Herb. o. c.* p. 278.)
- β. *substriata*, Herb. (*l. c.*—*Brunsvigia Josephina*, γ. *B. M.* 52, t. 2578.) 4. C. G. H. Fl. nearly 4 inches, purplish-red, R. S.; but very rarely.
- γ. *Griffiniana*, Herb. (*l. c.*—*Brunsvigia Josephina*, β. *angustifolia*, *B. Reg.* 3, t. 192-93.) 4. C. G. H. Introduced in 1820. Again introduced in March, 1841, but has not fl. yet.
4. *grandiflora*, Herb. (*o. c.* p. 278; *Brunsvigia grandiflora*, Lindl.; *B. Reg.* 16, t. 1335.) 4. C. G. H. Fl. large, flesh-coloured. Introduced in 1841.
- BRUNSVIGIA, Ker. (*Herb. amaryll.* p. 280; *Endl. gen. pl.* 1, p. 176-77.)
1. *multiflora*, Heist. (*Herb. t. c.*;—*B. M.* 39, t. 1619, excl. syn. Redoute.—*Amaryllis orientalis*, L.; *Spreng. syst.* 2, p. 53.) 4. C. G. H. Fl. more than 2 inches long, bright scarlet, R. S.
2. *minor*, Herb. (*o. c.* p. 281;—*Lind.*; *B. Reg.* 11, t. 954.) 4. C. G. H. Introduced in 1841.
- LYCORIS, Herb. (*Amaryll.* p. 229;—*Endl. gen. pl.* 1, p. 176, under *Amaryllis*.)
1. *aurea*, Herb. (*l. c.*—*Amaryllis aurea*, Ait.;—*B. M.* 12, t. 409;—*B. Reg.* 8, t. 611;—*Spreng. syst.* 2, p. 53;—*Roxb. fl. ind.* 2, p. 140;—



Jacq. hort. schönbr. 1, 38, t. 73.) 4. China. Fl. large, yellow, Augt. and Sept. ; fr. 0.

2. *radiata*, Herb. (*l. c.*—*Amaryllis radiata*, *Ait.* ;—*Spreng. syst.* 2, p. 53 ;—*B. Repos. t.* 95 ;—*B. Reg.* 7, t. 596 ;—*Roxb. fl. ind.* 2, p. 140.) 4. Japan. Fl. large, crimson, Augt. and Sept. ; fr. 0.

NERINE, Herb. (*Amaryll. p.* 283 ;—*Endl. gen. pl.* 1, p. 176, under *Amaryllis*.)

1. *curvifolia*, Herb. (*l. c.*—*Amaryllis curvifolia*, *Jacq. hort. schönbr.* 1, p. 83, t. 64 ;—*B. M.* 19, t. 725 ;—*Spreng. syst.* 2, p. 52.) 4. C. G. H. Fl. large, crimson. Introduced in 1819. Fl. ? Again in March, 1841, but has not fl. yet.

2. *corusca*, Herb. (*l. c.*—*Amaryllis corusca*, *Ker.*—*A. humilis*, *β. B. M.* 27, t. 1089.) 4. C. G. H. Fl. large, deep orange scarletish, pale underneath. Introduced in 1819. Again in March, 1841, but has not fl. yet.

3. *venusta*, Herb. (*l. c.*—*Amaryllis venusta*, *Ker.* ;—*B. M.* 27, t. 1090.) 4. C. G. H. Fl. large, poppy coloured. Introduced in 1819. Again in March, 1841, but has not fl. yet.

β. *sarniensis*, Herb. (*l. c.*—*N. sarniensis*, *Herb. B. M.* 1849, app.—*Amaryllis sarniensis*, *L. fil.* ;—*Spreng. syst.* 2, p. 52 ;—*B. M.* 9, t. 294 ;—*Roxb. H. B.* p. 24.) *Guernsey Lily*. 4. Japan, whence by a shipwreck some roots were cast on the Island of Guernsey. Here they remained for some years, and afterwards the flowers appeared in all their beauty. Fl. large, crimson. Has been cultivated for many years in the garden here, without flowering.

γ. *rosea*, Herb. (*l. c.*—*N. rosea*, *Herb.* ;—*B. M.* 47, t. 2124.) 4. C. G. H. Fl. large, deep rose-coloured. Introduced in 1819. Fl. ?

4. *flexuosa*, Herb. (*l. c.*—*Amaryllis flexuosa*, *Jacq. hort. schönbr.* 1, p. 35, t. 67 ;—*Spreng. syst.* 2, p. 53 ;—*B. Reg.* 2, t. 172.) 4. C. G. H. Fl. largish, rose-coloured. Introduced in 1819. Fl. ?

5. *pulchella*, Herb. (*l. c.* ;—*B. M.* 50, t. 2407.—*Amaryllis pulchella*, *Spreng. syst.* 2, p. 53.) 4. C. G. H. Fl. largish, pale rose-coloured. Introduced in 1819. Again in March, 1841, but has not fl. yet.

6. *lucida*, Burch. (*Herb. l. c. t.* 26, f. 3 ;—*B. M.* 47, t. 2124, annot.—*Amaryllis laticoma*, *Ker.* ;—*B. Reg.* 6, t. 497.) 4. C. G. H. Introduced in 1825. Fl. ?

7. *humilis*, Herb. (*l. c.*—*Amaryllis humilis*, *Ker.* ; *B. M.* 19, t. 726 ;—*Jacq. hort. schönbr.* 1, p. 36, t. 69.) 4. C. G. H. Fl. largish, more or less deep rose-coloured. Introduced in 1819. Fl. ?

8. *undulata*, Herb. (*l. c.*—*Amaryllis undulata*, *Jacq.* ;—*Spreng. syst.* 2, p. 53 ;—*B. M.* 11, t. 369.) 4. C. G. H. Fl. largish, deep rose-coloured. Introduced in 1820. Again in March, 1841, but has not fl. yet.

9. *versicolor*, Herb. (*B. M.* 49, app. p. 51.) 4. A hybrid, raised from *Nerine undulata*, impregnated by *N. curvifolia*. Fl. largish, rose-



coloured, changing to bluish-purple, except the middle vein, which continues red. Introduced in 1821. Fl. ?

BURNONG, Herb. (*Amaryll. p.* 239;—*Endl. gen. pl.* 1, *p.* 177, under *Brunsvigia*.)

1. *toxicaria*, Herb. (*l. c.*—*Hæmanthus toxicarius*, *Ait.*;—*B. M.* 30, *t.* 1217.—*Brunsvigia toxicaria*, *Ker.*; *B. Reg.* 7, *t.* 567.—*Amaryllis disticha*,—*L. Spreng. syst.* 2, *p.* 52.) ♀. C. G. H. Fl. smallish, pale rose-coloured, R. S.

2. *ciliaris*, Herb. (*o. c. p.* 240.—*Brunsvigia ciliaris*, *Ker.*; *B. Reg.* 14, *t.* 1153.—*Hæmanthus ciliaris*, *Thunb.*—*Amaryllis ciliaris*, *L.*) ♀. C. G. H. Fl. small, dull purple, R. S. but rare.

AMMOCHARIS, Herb. (*Amaryll. p.* 241;—*Endl. gen. pl.* 1, *p.* 177; under *Brunsvigia*.)

1. *falcata*, Herb. (*l. c.*—*Brunsvigia falcata*, *Ker.*; *B. M.* 35, *t.* 1443.—*Amaryllis falcata*, *L'Herit.*; *Spreng. syst.* 2, *p.* 52.—*Crinum falcatum*, *Murr.*—*Hæmanthus falcatus*, *Thunb.*) ♀. C. G. H. Fl. large, white, changing to deep rose-colour, R. S.; but rare.

2. *coranica*, Herb. (*l. c.*—*Amaryllis coranica*, *Burch.*;—*Spreng. syst.* 2, *p.* 52;—*B. Reg.* 2, *t.* 139.) ♀. C. G. H. Fl. large, rose-coloured, May.

β. *pallida*, Herb. (*l. c.*—*Amaryllis coranica*, β. *pallida*; *Lindl. B. R.* 15, *t.* 1219.) ♀. C. G. H. Fl. smaller, paler. Introduced in 1841.

CRINUM, *L.* (*Herb. amaryll. p.* 242;—*Endl. gen. pl.* 1, *p.* 177.)

1. *asiaticum*, Herb. (*o. c. p.* 243.)

a. *toxicarium*, Herb. (*l. c.*—*C. toxicarium*, *Roxb. fl. ind.* 2, *p.* 134;—*J. Grak. Cat. B. pl.* *p.* 216.—*C. asiaticum*, *L.*;—*Spreng. syst.* 2, *p.* 55;—*B. M.* 27, *t.* 1073;—*Rumph.* 6, *t.* 69.) बड़ कौड़ड़ *Buro-Kanoor*. ♀. Moluccas). Both Conceans. Lower Bengal. Common in gardens. Fl. large, white, nearly inodorous, R. and C. S.; fr. C. S.—Root a good substitute for the Squill. (*O'Shaughnessy*.)

β. *bracteatum*, Herb. (*l. c.*)

aa. *brevifolium*, Herb. (*l. c.*—*C. brevifolium*, *Roxb. fl. ind.* 2, *p.* 129.—*C. bracteatum*, *Willd.*; *Spreng. syst.* 2, *p.* 155;—*B. Reg.* 3, *t.* 179.) ♀. Mauritius. Fl. large, white, faintly fragrant, H. and R. S.

γ. *anomalum*, Herb. (*o. c. p.* 244.—*Crinum anomalum*, *Herb. B. M.* 47, *t.* 2121, *app. p.* 5.—*C. plicatum*, *Livingstone*; *B. M.* 56, *t.* 2908.) ♀. China. Fl. largish, greenish-white, R. S.

δ. *declinatum*, Herb. (*l. c.*—*C. declinatum*, *Herb.*; *B. M.* 48, *t.* 2231.) ♀. Silhet. Fl. large, white, stained with red on the outside towards the end, the tube green, R. S.; fr. C. S.

2. *siaicum*, *Roxb.* (*Herb. l. c.*;—*B. M.* 47, *t.* 2121, *app. p.* 7.) ♀. China. Introduced in 1809. Fl. ?

3. *procerum*, *Carey*, *MSS.* (*Herb. o. c. p.* 245;—*B. M.* 53, *t.* 2684.) ♀. Rangoon. Fl. very large, white, without pale red striped, the tube green, R. S.

4. *amabile*, Don. (*Spreng. syst.* 2, p. 55 ;—*Herb. l. c.* ;—*B. M.* 39, t. 1605. *A. B.*—*C. superbum*, *Roxb. fl. ind.* 2, p. 133 ;—*J. Grah. Cat. B. pl.* p. 216.) ♀. A spontaneous hybrid from Sumatra. Fl. very large, white, suffused with crimson, fragrant, H. and R. S. ; fr. R. S.
5. *angustum*, *Roxb. (fl. ind.* 2, p. 136 ;—*Spreng. syst.* 2, p. 55 ;—*B. M.* 50, t. 2397 ;—*Herb. o. c.* p. 246.—*C. amabile*, β . *angustum*, *B. Reg.* 8, t. 679.) ♀. A spontaneous hybrid from Mauritius. Fl. very large, lake-coloured, the margins of the petals fading to white, the tube deep red, fragrant, H. and R. S. ; fr. R. S.
6. *australe*, *Herb. (l. c.)*
 - a. *pedunculatum*, *Herb. (R. Br. pr.* p. 297 ;—*Spreng. syst.* 2, p. 55 ;—*B. Reg.* 1, t. 52.—*C. taitense*, *Red. lil. t.* 408.—*C. australe*, *Don. cant. ed.* 6, p. 83.) ♀. Port Jackson. Introduced in 1813. Fl. ?
 - γ . *exaltatum*, *Herb. (l. c.)*—*Crinum exaltatum*, *Herb.* ; *B. M.* 47, t. 2121, *app.* p. 5.) ♀. Native place ? Fl. large, white, R. S.
 - δ . *canaliculatum*, *Herb. (o. c.* p. 247.—*C. canaliculatum*, *Roxb. fl. ind.* 2, p. 132 ;—*J. Grah. Cat. B. pl.* p. 215 ;—*B. M.* 47, t. 2121, *app.* p. 5 ;—*Spreng. syst.* 2, p. 55.) ♀. Native place ? Fl. large, white, fragrant, H. and R. S.
7. *rigidum*, *Herb. (o. c.* p. 248.)
 - a. *sumatranum*, *Herb. (o. c.)*—*C. sumatranum*, *Roxb. fl. ind.* 2, p. 131 ;—*B. Reg.* 13, t. 1049 ;—*Spreng. syst.* 2, p. 54.) ♀. Sumatra. Fl. large, white, fragrant, and fr. R. S.
 - β . *macrocarpon*, *Herb. (o. c.* p. 249.—*C. macrocarpon*, *Carey ; B. M.* 48, under t. 2231. ♀. Rangoon. Introduced in 1809. Fl. large, white, R. S. ; fr. C. S. Seeds 2 inches in diameter.
8. *mauritianum*, *Lodd. (B. Cab. t.* 650 ;—*Herb. l. c.)* ♀. Mauritius. Fl. ?
9. *brachyananthum*, *Carey. (Spreng. syst.* 2, p. 55 ;—*B. M.* 47, t. 2121, *app.* p. 8, and 48, under t. 2231.) ♀. Tropical Australia. Fl. large, white, R. S.
10. *cruentum*, *Ker. (B. Reg.* 2, t. 171 ;—*Spreng. syst.* 2, p. 54 ;—*Herb. o. c.* p. 250.) ♀. Mexico ? Fl. very large, peach-coloured-purple, slightly scented, the tube pale-green, R. S.
11. *erubescens*, *Ait. (Spreng. syst.* 2, p. 54, excl. c. p. p. 133 ;—*Herb. o. c.* p. 251.)
 - a. *rubrilimbum*, *Herb. (l. c.)*—*C. erubescens*, *B. M.* 30, t. 1232 ;—*Jacq. hort. schönbr.* 4, t. 30.—*Redouté lil. t.* 27 ;—*Roxb. H. B.* p. 23.—*C. americanum*, β . *L. sp. pl.* p. 419.) ♀. S. America. Fl. very large, beautifully blush-coloured, sweet-scented, the tube green-crimson, R. S. ; fr. R. S.
 - β . *majus*, *Herb. (l. c.)* Fl. larger, white, R. S.
 - δ . *coryntinum*, *Herb. (l. c.)* ♀. Coryntine River, Dutch Guiana. Fl. white, R. S.
12. *Loddigesianum*, *Herb. (o. c.* p. 253.) ♀. Mexico. Fl. very large, purple, with a green tube. Lately introduced.

13. *americanum*, L. (*Spreng. syst.* 2, p. 54;—*Herb. o. c.* t. 254;—*L'Herit. sert. angl.* 8;—*Roxb. H. B.* p. 23.—*C. americanum*, β . *B. M.* 26, t. 1034.) 2. S. America. Fl. large, white, fragrant, H. and R. S.; fr. R. S.
14. *Commelini*, Jacq. (*Hort. schönbr.* 2, t. 202;—*Spreng. syst.* 2, p. 54; not Redouté.—*C. Commelinianum*, *Herb. l. c.*) 2. Native place unknown, (S. America. *Spreng.*) Fl.?
15. *defixum*, Ker. (*Spreng. syst.* 2, p. 54; exel. c. p. p. 134.—*Herb. o. c.* p. 255.—*B. M.* 48, t. 2208.—*C. asiaticum*, *Roxb. fl. ind.* 2, p. 127;—*J. Grah. Cat. B. pl.* p. 215;—*Rheed.* 11, t. 38.—*B. Radix toxicaria secunda*, *Rumph.* 6, p. 156.) 2. *सूक्ष्म दृष्टि* *Sook-durshan*. 2. Coromandel. Both Concans. Bengal, (Serampore,) &c. Fl. large, white, during the night fragrant, and fr. R. S.
16. *ensifolium*, Roxb. (*fl. ind.* 2, p. 129.—*Spreng. syst.* 2, p. 54;—*Herb. l. c.*;—*B. M.* 49, t. 2301.) 2. Pegu. Fl. large, white, outside and the tube purple, fragrant, H. S.
17. *amoenum*, Roxb. (*fl. ind.* 2, p. 27;—*Spreng. syst.* 2, p. 54;—*Herb. l. c.*) 2. Burma, Silhet, Nepal. Fl. large, white, H. and R. S.
 β . *verecundum*, *Herb. (o. c. p. 256.—C. verecundum, Carey.)* 2. Native place? Introduced in 1819, Fl. H. S.
18. *humile*, Sims. (*B. M.* 53, t. 2636;—*Spreng. syst. c. p. p.* 134;—*Herb. l. c.*) 2. East Indies? Fl. large, white, with the tube pale greenish, R. S.
19. *pratense*, *Herb. (l. c.)*
 α . *longifolium*, *Herb. (l. c.—C. longifolium, Roxb. fl. ind.* 2, p. 130;—*Spreng. syst.* 2, p. 54.) 2. Interior of Bengal. Fl. large, white, fragrant, and fr. R. S.
 β . *lorifolium*, *Herb. (o. c. p. 257.—C. lorifolium, Roxb. fl. ind.;—Spreng. syst.* 2, p. 54.) 2. Pegu. Fl. large, white, fragrant, R. S.; fr. C. S.
 γ . *elegans*, *Herb. (l. c.—C. elegans, Carey;—B. M.* 52, t. 2592.) 2. Rangoon. Fl. large, white, fragrant, R. S.; fr. C. S.
 δ . *venustum*, *Herb. (o. c. p. 258.—C. venustum, Carey.)* 2. Silhet. Fl. large, pure white, fragrant, R. S.
 ϵ . *canalifolium*, *Herb. (l. c.—C. canalifolium, Carey.)* 2. Native place? Fl. large, externally pale red, R. S.
20. *erythrophyllum*, *Carey. (Herb. l. c.;—B. M.* 47, t. 2121, *app. p.* 7.) 2. Pegu. Fl. large, white, with the leaves dark blood-coloured, R. S.
21. *australasicum*, *Herb. (o. c. p. 259.)*
 α . *arenarium*, *Herb. (l. c.—C. arenarium, Herb.; B. M.* 49, t. 2355;—*Spreng. syst.* 2, p. 55.) 2. Water Island. Fl. large, white, with a green, faintly red-speckled tube, R. S.
 β . *blandum*, *Herb. (l. c.—C. arenarium, \beta. blandum, B. M.* 52, t. 2531.) 2. Water Island. Fl. large, white, bluish-coloured without, R. S.



3. *angustifolium*, Herb. (*l. c.*—*C. angustifolium*, *R. Br. pr.* p. 297;—*Spreng. syst.* 2, p. 54, not *L. fl.*) 4. Shores of N. Holland within the Tropics. Fl. ?
22. *Broussonetii*, Herb. (*B. M.* 47, t. 2121;—*Spreng. syst.* 2, p. 55.—*C. Broussonetianum*, *Herb. o. c.* p. 260.—*Amaryllis Broussonetii*, *Redouté lil. t.* 6.) 4. Sierra Leona. Fl. large, purple 5 striped, R. S.
- β. *pluriflorum*, Herb. (*l. c.*—*C. yuccaeiflorum*, *Salisb. par.* 52.) 4. Sierra Leona. Fl. conform, R. S.
- γ. *yuccaeoides*, Herb. (*l. c.*—*Amaryllis yuccaeoides*, *Thomps. bot. displ. t.* 12.) 4. Sierra Leona. Fl. conform, R. S.
23. *distichum*, Herb. (*l. c.*—*Amaryllis ornata*, α. *B. M.* 31, t. 1258.) 4. Sierra Leona. Fl. large, white, striped with red, R. S.
24. *petiolatum*, Herb. (*l. c.*)
- α. *spectabile*, Herb. (*l. c.*—*Amaryllis ornata*, β. *B. M.* 24, t. 923.—*A. gigantea*, *Ker.*;—*Spreng. syst.* 2, p. 52.—*Crinum giganteum*, *Andr. B. Repos. t.* 169.) 4. Tropical W. Africa. Fl. large, white-greenish, fragrant, H. and R. S.
25. *scabrum*, Herb. (*o. c.* p. 262;—*Spreng. syst.* 2, p. 55;—*B. M.* 47, t. 2180.—*C. scaberrimum*, *Hort. Soc. trans.* 3, p. 195.) 4. Rio Janeiro. Fl. large, striped with bright red, fragrant, R. S.
26. *ornatum*, Herb. (*l. c.*)
- α. *zeylanicum*, Herb. (*l. c.*—*Crinum zeylanicum*, *L. syst. veg.* p. 263;—*Roxb. fl. ind.* 2, p. 139;—*J. Grah. Cat. B. pl.* p. 216.—*Amaryllis zeylanica*, *L.*—*A. ornata*, *B. M.* 29, t. 1171.—*A. latifolia*, *Andr.*; *B. Repos. t.* 478.) 4. Ceylon. Peninsula of India. Rangoon. Bengal. Fl. large, white, streaked with purple, fragrant, with a purple tube, and fr. R. S.
- β. *Herbertianum*, Herb. (*o. c.* p. 263.—*Crinum Herbertianum*, *Wall. pl. as. rar.* 2, p. 145.) 4. Rangoon. Fl. very large, reddish, purple-striped, fragrant, R. S.
- γ. *latifolium*, Herb. (*l. c.*—*C. latifolium*, *Roxb. fl. ind.* 2, p. 137, not *B. Reg.*;—*J. Grah. Cat. B. pl.* p. 216. excl. syn. *B. M.* and *Ait.*—*Amaryllis latifolia*, *L'Herit.*;—*Spreng. syst.* 2, p. 52;—*Rheed.* 11, t. 39.) 4. Coromandel. Both Concans. Bengal. Fl. large, pale rose, almost white, faintly fragrant, with a green tube, and fr. R. S.
- ε. *speciosum*, Herb. (*o. c.* p. 264.—*C. speciosum*, *Herb.*; *B. M.* 48, t. 2217, not *Thunb.*) 4. North of Bengal. Fl. large, striped with rose, R. S.
- ζ. *moluccanum*, Herb. (*l. c.*—*C. moluccanum*, *Roxb. fl. ind.* 2, p. 140;—*B. M.* 49, t. 2292;—*J. Grah. Cat. B. pl.* p. 216.—*Amaryllis moluccana*, *Ker.*;—*Spreng. syst.* 2, p. 52.—*Tulipa javanica*, *Ramph.* 5, t. 105.) 4. Moluccas. Fl. large, flesh-coloured, with white margins, R. S.
- μ. *Careyanum*, Herb. (*l. c.*—*C. Careyanum*, *Herb.*; *B. M.* 51, t. 2466.—*C. ornatum*, *Carey's MSS.*) 4. Mauritius. Fl. large, white,



stained on the outside near the apex with red, the tube greenish, R. S.

27. *brevilimbium*, Carey. (*Herb. o. c. p.* 266.—*B. M.* 47, *t.* 2121, *app. p.* 7.) ♀. Tropical N. Holland. Fl. smallish, white, R. S.
28. *flaccidum*, Herb. (*l. c.*;—*B. M.* 47, *t.* 2133;—*Spreng. syst.* 2, *p.* 55, *excl. c. p. p.* 134.—*Amaryllis australasica*, *Ker.*; *B. Reg.* 5, *t.* 426.) ♀. N. Holland. Fl. large, white, R. S.
29. *revolutum*, Herb. (*o. c. p.* 267.—*Amaryllis revoluta*, *a. B. Reg.* 8, *t.* 623.—*B. M.* 23, *t.* 915.) ♀. C. G. H. Lately introduced.
30. *variabile*, Herb. (*o. c. p.* 268.—*Amaryllis variabilis*, *Jacq. hort. schönbr.* 4, *t.* 426.—*Amaryllis revoluta*, *β. B. Reg.* 8, *t.* 615.—*Crinum crassifolium*, Herb.; *B. M.* 49, *app.*) ♀. C. G. H. Introduced in 1841.
31. *capense*, Herb. (*o. c. p.* 269.)
 - a. princeps*, Herb. (*l. c.*—*Amaryllis capensis*, *Mill. dict. ed.* 8, *No.* 12.—*A. longifolia*, *B. M.* 18, *t.* 661.) ♀. C. G. H. Fl. large, pale rose-coloured, with deeper-coloured streaks towards the middle of the petals, R. S.
 - β. riparium*, Herb. (*l. c.*;—*B. M.* 53, *t.* 2688.—*Amaryllis longifolia*, *β. riparia*, *B. Reg.* 7, *p.* 546.—*A. riparia*, *Burch. Cat. MSS.*) ♀. C. G. H. Fl. large, dark purple, R. S.
32. *campanulatum*, Herb. (*o. c. p.* 270;—*B. M.* 47, *t.* 2121, *app. p.* 7.—*C. aquaticum*, *Burch.*;—*B. M.* 49, *t.* 2352.) ♀. C. G. H. Fl. large, rose-coloured, R. S.
33. *longiflorum*, Herb. (*o. c. p.* 271.—*C. hybridum erubescens-capense*, *Herb.*; *B. M.* 49, *t.* 2336.—*Amaryllis longifolia*, *γ. longiflora*, *B. Reg.* 4, *t.* 303.) ♀. Jamaica. A scarcely spontaneous hybrid. Fl. large, white, pale-red striped, R. S.

Of hybrids or mixed crosses of *Crinum* are cultivated in the garden here 30 varieties.

CLIVIA, Lindl.

1. *nobilis*, Lindl. (*B. Reg.* 14, *t.* 1182.—*B. Cab.* 20, *t.* 1906.) C. G. H. Sept. 1840.

HÆMANTHUS, L. (*Spreng. syst.* 2, *p.* 6, *No.* 1201;—*Herb. amaryll.* *p.* 232;—*Endl. gen. pl.* 1, *p.* 177.)

1. *puniceus*, Jacq. (*Spreng. syst.* 2, *p.* 56;—*B. M.* 32, *t.* 1315;—*B. Cab.* *t.* 912;—*Herb. o. c. p.* 233.) ♀. C. G. H. Fl. heads large, pale yellowish-red. Introduced in March, 1841. Has not fl. yet.
2. *virescens*, Herb. (*o. c. p.* 235.)
 - a. pubescens*, Herb. (*l. c.*—*H. pubescens*, *L.*; *B. Reg.* 5, *t.* 382;—*B. Cab.* *t.* 702;—*Spreng. syst.* 2, *p.* 57, not Thunb.) ♀. C. G. H. Fl. white. Introduced in March, 1841. Has not fl. yet.
 - β. albiflos*, Herb. (*l. c.*—*H. albiflos*, *Jacq. hort. schönbr.* 1, *p.* 31, *t.* 59;—*B. M.* 31, *t.* 1239.—*H. pubescens*, *β. albiflos*, *B. Reg.* 12, *t.* 984.) ♀. C. G. H. Fl. white. Introduced in March, 1841. Has not fl. yet.



3. *coccineus*, L. (*Spreng. syst.* 2, p. 56;—*Herb. o. c.* p. 236.)
a. *grandivalvis*, Herb. (*l. c.*—*H. coccineus*, Ait.; *B. M.* 27, t. 1075.)
¶ C. G. H. Fl. bright red. Introduced in March, 1841. Has not fl. yet.
4. *tigrinus*, Jacq. (*Hort. schönbr.* 1, p. 29, t. 56;—*Spreng. syst.* 2, p. 56;—*B. M.* 41, t. 1705.—*Herb. o. c.* p. 237.) ¶ C. G. H. Fl. pale red. Introduced in March, 1841. Has not fl. yet.
- CYTRANTHUS, Ait. (*Spreng. syst.* 2, p. 6, No. 1204;—*Herb. amaryll.* p. 128;—*Endl. gen. pl.* 1, p. 178.)
1. *obliquus*, Ait. (*Spreng. syst.* 2, p. 58;—*Herb. l. c.*;—*B. M.* 28, t. 1133.) ¶ C. G. H. Fl. yellowish, variegated with orange-red and green. Introduced in March, 1841. Has not fl. yet.
2. *pallidus*, Sims. (*B. M.* 51, t. 2471;—*Herb. o. c.* p. 129.) ¶ C. G. H. Fl. yellowish pale-red. Introduced in March, 1841. Has not fl. yet.
3. *collinus*, Burch. (*Spreng. syst.* 2, p. 58; excl. c. p. p. 134;—*Herb. l. c.*;—*B. Reg.* 2, t. 162.) ¶ C. G. H. Fl. scarlet. Introduced in March, 1841. Has not fl. yet.
4. *spiralis*, Burch. (*Spreng. syst.* 2, p. 58;—*B. Reg.* 2, t. 167;—*Herb. l. c.*—*Monella spiralis*, *Herb. B. M.* 49, app.) ¶ C. G. H. Fl. orange-red, below yellow. Introduced in March, 1841. Has not fl. yet.
5. *ventricosus*, Willd. (*Herb. l. c.*—*C. angustifolius*, Jacq. *hort. schönbr.* 1, p. 40, t. 76; not Ait.) ¶ C. G. H. Fl. orange-red. Introduced in March, 1841. Has not fl. yet.
6. *striatus*, Herb. (*l. c.*—*Spreng. syst. c. p.* p. 134;—*B. M.* 52, t. 2534.) ¶ C. G. H. Fl. very large, red, striped with yellow. Introduced in March, 1841. Has not fl. yet.
7. *angustifolius*, Ait. (*Spreng. syst.* 2, p. 58;—*Herb. l. c.*;—*B. M.* 8, t. 271, not Jacq.) ¶ C. G. H. Fl. orange-red. Introduced in March, 1841. Has not fl. yet.
8. *odorus*, Ker. (*B. Reg.* 6, t. 503;—*Spreng. syst.* 2, p. 58;—*Herb. l. c.*) ¶ C. G. H. Fl. crimson, fragrant. Introduced in March, 1841. Has not fl. yet.
- GASTRONEMA, Herb. (*Amaryll.* p. 132;—*Endl. gen. pl.* 1, p. 178, under *Cyrtanthus*.)
1. *clavatum*, Herb. (*l. c.*;—*B. M.* 49, t. 2291.—*Cyrtanthus uniflorus*, Ker.; *B. Reg.* 2, t. 168;—*Spreng. syst.* 2, p. 58.—*Amaryllis clavata*, L'Herit.—A. Punilio, Ait.;—*Spreng. o. c.* p. 49.) ¶ C. G. H. Fl. white, striped with red. Introduced in 1819. Fl. ?
- CHLIDANTHUS, Lindl. (*Herb. amaryll.* p. 190;—*Endl. gen. pl.* p. 178.)
1. *fragrans*, Herb. (*l. c.* t. 27, f. 2;—*B. Reg.* 8, t. 640;—*Lindl. coll.* t. 34.—*Pancratium luteum*, Poir.—*Spreng. syst.* 2, p. 48.) ¶ Buenos Ayres. ? Fl. large, yellow, fragrant. Introduced in 1821. Fl. ?

B. NARCISSEÆ, *Endl. gen. pl. 1, p. 178.*

COBURGIA, Sweet. (*Herb. amaryll. p. 196*;—*Endl. l. c.*)

1. *incarnata*, Sweet. (*fl. gard. s. 2, t. 17*;—*Herb. l. c.*—*Pancratium incarnatum*, *Kth.*;—*Spreng. syst. 2, p. 48.*) ♀. Quito, on the banks of the river Machangara. Fl. under 5 inches, crimson, with a green spot on each segment. Introduced in 1832, but has not fl. yet.

EURYCLES, Salisb. (*Herb. amaryll. p. 227*;—*Endl. gen. pl. 1, p. 179.*)

1. *amboinensis*, Salisb. (*Herb. l. c.*—*Proiphys amboinensis*, *Herb.*—*B. M. 49. app.*—*Pancratium amboinense*, *L.*;—*Spreng. syst. 2, p. 46*;—*B. M. 35, t. 1419.*—*Crinum nervosum*, *L'Herit.*;—*Roxb. fl. ind. 2, p. 135.*—*Cœpa silvestris*, *Rumph. 6, t. 70, f. 1.*) ♀. Amboyna. Philippines. Fl. large, pure white, fragrant, May and June; fr. R. S.

CALOSTEMMA, R. Br. (*pr. p. 297*;—*Herb. amaryll. p. 225*;—*Endl. gen. pl. 1, p. 179*;—*Spreng. syst. 2, p. 5, No. 1194.*)

1. *album*, R. Br. (*o. c. p. 298*;—*Herb. o. c. p. 226*;—*Spreng. syst. 2, p. 45.*) ♀. Tropical N. Holland. Fl. white. Introduced in 1819. Fl. ?

PANCERATIUM, L. (*Herb. amaryll. p. 202.*—*Schizostephanium*, *Reichenb.*;—*Endl. gen. pl. 1, p. 179*, under *Pancratium*.)

1. *maritimum*, L. (*Spreng. syst. 2, p. 45*;—*B. Reg. 2, t. 161*;—*Herb. l. c.*;—*Red. lil. t. 8*;—*Fl. græc. 4, t. 309*;—*Herb. l. c. t. 34, f. 21-22*, (seeds) *Herb. l. c. t. 42, f. 7*, (anthers)—*Roxb. H. B. p. 23.*) ♀. S. Europe. N. Africa. Fl. large, white, fugacious, R. S.

2. *canariense*, Ker. (*B. Reg. 2, t. 174*;—*Spreng. syst. 2, p. 46*;—*Herb. l. c.*) ♀. Canaries. Fl. large, white, R. S.

3. *ilyricum*, L. (*Spreng. syst. 2, p. 46*;—*B. M. 19, t. 718*;—*Herb. l. c.*—*P. malabathricum*, *Herb.*;—*Rheed. 11, t. 40.*) ♀. Spain. Corsica. Sardinia. Sicily. Illyria. Fl. large, dull, white, fragrant, R. S.

4. *verecundum*, Soland. (*Spreng. syst. 2, p. 46*;—*B. Reg. 5, t. 413*;—*Herb. l. c.*—*P. biflorum* and *triflorum*, *Roxb. fl. ind. 2, p. 125-26.*) ♀. India. Fl. largish, white, R. S.

5. *zeylanicum*, L. (*Spreng. syst. 2, p. 46*;—*Herb. l. c.*;—*Roxb. fl. ind. 2, p. 124*;—*J. Grah. Cat. B. pl. p. 216*;—*B. M. 52, t. 2538*;—*B. Reg. 6, t. 479*;—*Rumph 6, t. 70, f. 2.*) ♀. Moluccas. Ceylon. Fl. large, pure white, faintly fragrant, R. S.

6. *longiflorum*, Bank's Herb. (*Roxb. fl. ind. 2, p. 124*;—*Herb. l. c. t. 42, f. 2.*) ♀. Moluccas. Fl. large, pure white, fragrant, R. S. Extinct in our gardens.

HYMENOCALLIS, Herb. (*Amaryll. p. 209*;—*Endl. gen. pl. 1, p. 179*, under *Pancratium*.)

1. *speciosa*, Herb. (*l. c.*)

a. *longi-petiolata*, Herb. (*l. c.*—*Pancratium speciosum*, *Salisb.*;—*Spreng. syst. 2, p. 47*;—*B. M. 35, t. 1453*;—*Red. lil. t. 412*;—*J. Grah. Cat. B. pl. p. 216.*—*P. amœnum*, *Lodd. B. Cab. t. 286*; not *B. M.*) ♀. W. Indies. Fl. very large, pure white, extremely fragrant, especially in the evening, and fr. R. S.



2. *amoena*, Herb. (o. c. p. 211.)
a. *princeps*, Herb. (l. c.—*Pancratium amoenum*, *Salisb.*;—*Spreng. syst.* 2, p. 47;—*B. M.* 36, t. 1467.—*P. fragrans*, *Andr. B. Repos.* t. 556;—*Lodd. B. Cab.* t. 834.) 4. Guiana. Fl. large, pure white, fragrant, and fr. R. S.
β. *ovata*, Herb. (l. c.—*Pancratium ovatum*, *Mill.*;—*Spreng. syst.* 2, p. 47;—*B. Reg.* 1, t. 43.) 4. W. Indies. Fl. large, white, and fr. R. S.
3. *caribæa*, Herb. (o. c. p. 212.)
a. *princeps*, Herb. (l. c.—*Pancratium caribæum*, *L.*;—*Spreng. syst.* 2, p. 47;—*B. M.* 21, t. 826.—*P. declinatum*, *Jacq. amer.* 51, t. 102; *hort. vind.* 3, p. 11, t. 10;—*Red. lil.* t. 414;—*Lodd. B. Cab.* t. 558.) 4. W. Indies. Fl. large, white, with the tube streakletted green, and fr. R. S.
γ. *patens*, Herb. (l. c.—*Pancratium patens*, *Red. lil.* 380 and 414. *annot*; *Spreng. syst.* 2, p. 47.) 4. W. Indies. Fl. large, white, and fr. R. and C. S.
4. *expansa*, Herb. (o. c. p. 213.—*Pancratium expansum*, *Sims.*; *B. M.* 44, t. 1941, excl. syn;—*Spreng. syst.* 2, p. 46.) 4. Lima? Fl. large, white, fragrant, and fr. R. S.
5. *tenuiflora*, Herb. (l. c.) 4. Native place? Fl. large, white, R. S.
6. *angusta*, Herb. (o. c. p. 214.—*Pancratium angustum*, *Ker. B. Reg.* 3, t. 221;—*Spreng. syst.* 2, p. 46.) 4. Carthage? Fl. large, white, R. S.
7. *pedalis*, Herb. (l. c.—*Pancratium pedale*, *Lodd. B. Cab.* t. 809;—*B. Reg.* 19, t. 1641;—*Röm. and Sch.* 7, p. 916.) 4. Native place unknown. Fl. 1 foot long, white, R. S.
8. *caymanensis*, Herb. (l. c.—*Pancratium patens*, *Lindl. in Hort. soc. trans.* 6, 87, not *Redouté*.) 4. Island of Grand Cayman. Fl. large, white, R. S.
9. *crassifolia*, Herb. (o. c. p. 215.) 4. E. Florida. Introduced in 1832, but has not fl.
10. *adnata*, Herb. (l. c.)
a. *princeps*, Herb. l. c.—*Pancratium littorale*, *Jacq. amer.* 99, t. 179; *hort. vind.* 3, p. 41, t. 75;—*Spreng. syst.* 2, p. 46;—*Roxb. H. B.* p. 23;—*J. Grah. Cat. B. pl.* p. 216.—*P. distichum*, *B. M.* 44, t. 1879, as to the fig. and Lee's plant.—*P. mexicanum*, *Hortul.* not *L.*, nor *Walt.*) 4. Mexico. Fl. large, white, and fr. R. S.
β. *Dryandrina*, Herb. (l. c.—*P. littorale*, β, *B. M.* 21, t. 825;—*P. Dryandri*, *Ker.*;—*Spreng. syst.* 2, p. 47.) 4. S. America. Fl. large, white, and fr. R. S.
γ. *disticha*, Herb. (l. c.—*Pancratium distichum*, *B. M.* 44, t. 1879, as to *Herbert's* plant, not the figure.) 4. S. America. Fl. large, white, and fr. R. S.
δ. *acutifolia*, Herb. (l. c.—*Hymenocallis littoralis*, δ, *acutifolia*, *B. M.* 53, t. 2621.—*Pancratium mexicanum*, *B. Reg.* 11, t. 940, not of



others.—*P. acutifolium*, *Swt. hort. brit.*) ♀. Mexico. Fl. large, white, and fr. R. S.

ε. *Staplesiana*, Herb. (*l. c.*) ♀. Mexico. Fl. large, white, and fr. R. S.

11. *rotata*, Herb. (*o. c. p.* 217.)

α. *quadriflora*, Herb. *l. c.*—*Pancratium rotatum*, *B. M.* 21, *t.* 827 ;—*Lodd. B. Cab. t.* 19.—*P. carolinianum*, *Catesb. carol.* with a very bad figure) ♀. Bogs of N. America. Fl. large, white, R. S.

β. *disciformis*, Herb. (*l. c.*—*Pancratium mexicanum*, *L.* ;—*Spreng. syst.* 2, *p.* 47, not of others.—*P. rotatum*, α. *B. M.* 27, *t.* 1082.—*P. disciforme*, *Red. lil. t.* 155.) ♀. Bogs of N. America. Fl. large, white, R. S.

12. *Spofforthia*, Herb. (*l. c.*—*H. disticho-rotata*, *Herb. MSS.*) ♀. Fl. large, white, R. S.

13. *glauca* (*Pancratium glaucum*, *Lodd.*) C. S. 1839.

ISMENE, Herb. (*Amaryll. p.* 222 ;—*Endl. gen. pl.* 1, *p.* 179, under *Pancratium*.)

1. *Amancaes*, Herb. (*l. c.*—*Pancratium Amancaes*, *Ker.* ;—*B. M.* 30, *t.* 1224 ;—*B. Reg.* 7, *t.* 600 ;—*Spreng. syst.* 2, *p.* 45.—*Narcissus Amancaes*, *Ruiz. and Pav.*) ♀. Peru. Fl. large, bright yellow. Introduced in 1825. Fl. ?

2. *calathina*, Herb. (*B. M.* 53, *t.* 2685.—*Pancratium calathinum*, *Ker.* ; *B. Reg.* 3, *t.* 215. (very bad) ;—*Spreng. syst.* 2, *p.* 45.—*P. calathiforme*, *Red. lil.* 353.) ♀. Brazil. Chili. Fl. large, white, R. S.

3. *nutans*, Herb. (*o. c. p.* 223 ;—*J. Grah. Cat. B. pl.* *p.* 216, *No.* 1526, excl. syn. *Pancratium calathinum*.—*Pancratium nutans*, *Ker.* ;—*B. M.* 38, *t.* 1561, under the name of *P. calathinum*.) ♀. S. America ? Fl. large, white, R. S. but rare.

NARCISSUS, L. (*Spreng. syst.* 2, *p.* 5, *No.* 1193 ;—*Herb. amaryll. p.* 316 ;—*Endl. gen. pl.* 1, *p.* 179.)

Out of 35 species of *Narcissus*, which have been introduced into the garden here, from 1812 to 1829, only one has flowered and continues to do so ; viz.

1. *Tazetta*, L. (*Spreng. syst.* 2, *p.* 42.—*Hermione Tazetta*, *Herb. amaryll. p.* 321, *t.* 41, *f.* 18.) ♀. S. Europe. N. Africa. Asia Minor. Fl. smallish, with a white limb, and a pale yellow cup, January and Feb. ; fr. O.

GETHYLLIS, L. (*Spreng. syst.* 2, *p.* 7, *No.* 1235 ;—*Herb. amaryll. p.* 185 ;—*Endl. gen. pl.* 1, *p.* 179.)

1. *spiralis*, L. (*Spreng. syst.* 2, *p.* 82 ;—*B. M.* 27, *t.* 1083 ;—*Herb. l. c.*) ♀. C. G. H. Fl. large, white, purplish without. Introduced in March, 1841. Has not flowered yet.

C. ANOMALE ; *Endl. gen. pl.* 1, *p.* 180.

ALSTRÖMERIA, L. (*Spreng. syst.* 2, *p.* 7, *No.* 1234 ;—*Herb. amaryll. p.* 88 ;—*Endl. l. c.*)

1. *Pelegrina*, Feuill. (*Obs.*—*L.* ;—*Spreng. o. c. p.* 80 ;—*B. M.* 4, *t.* 139. *A. peregrina*, *Herb. o. c. p.* 91.) ♀. Peru. Chili. Fl. large, externally



rose-coloured, with green tipped petals, internally with the 3 outer petals crimson in the middle, and the 3 inner dark purple spotted, and at the base yellow. Introduced in 1825. Fl?

2. *caryophyllea*, Jacq. (*Hort. schönbr.* 4, t. 465;—*Spreng. syst.* 2, p. 80;—*Herb. l. c.*—A. Ligtu. *B. M.* 4, t. 125; not Feuill.) 4. Peru. Fl. large, delightfully fragrant, whitish-scarlet, striped. Introduced in 1822. Fl.?

3. *Simsii*, Spreng. (*Syst.* 2, p. 80.—A. *Simsiana*, *Herb. o. c.* p. 99.—A. *pulchella*, Sims.; *B. M.* 49, t. 2353;—*B. Reg.* 12, t. 1008;—*Hook. exot. fl.* t. 64;—*Swt. brit. fl. gard.* t. 267; not Herb.) 4. Chili. Fl. large, 4 outer petals deep red, 2 inner ones bright yellow, with dark orange speckles. Introduced in 1841.

4. *Hookeriana*, Spreng. (*Herb. o. c.* p. 95.—A. *rosea*, *Hook. exot. fl.* t. 181;—*Spreng. c. p.* p. 135; not Ruiz. and Pav.) 4. Peru. Has been introduced into H. C. G. Fl.?

5. *hirtella*, Kth. (*Spreng. syst.* 2, p. 82;—*Swt. fl. gard.* t. 228.) 4. Mexico. Has been introduced into H. C. G. Fl.?

DORYANTHES, Correa. (*R. Br. pr.* p. 298;—*Endl. gen. pl.* 1, p. 180;—*Spreng. syst.* 2, p. 7, No. 1233.)

1. *excelsa*, Correa. (*R. Br. l. c.*;—*Spreng. syst.* 2, p. 80;—*B. M.* 41, t. 1685, A. B.) 4. Port Jackson. Fl. immensely large, crimson. Introduced in 1841.

D. AGAVEA, *Endl. gen. pl.* 1, p. 181.

AGAVE, L. (*Spreng. syst.* 2, p. 7, No. 1232;—*Herb. amaryll.* p. 127;—*Endl. l. c.*)

1. *lurida*, Ait. (*Spreng. syst.* 2, p. 79;—*B. M.* 37, t. 1522; excl. most of the syn.;—*Roxb. H. B.* p. 25;—*Herb. o. c.* p. 128.) 4. N. Spain. Fl. large, green, May and June; fr. Aug. to Oct.

2. *Verae Crucis*, Haw. 4. S. America. Introduced in 1840.

FOURCROYA, Vent. (*Endl. gen. pl.* 1, p. 181;—*Herb. amaryll.* p. 126;—*Spreng. syst.* 2, p. 79; under Agave.)

1. *tuberosa*, Haw. (*Herb. l. c.*—Agave *tuberosa*, Mill.;—*Spreng. l. c.*) 4. Tropical America. Fl. largish, greenish-white, May and June; fr. Aug. to Oct.

2. *Cantala*, Haw. (*Herb. l. c.*—Agave *Cantala*, *Roxb. fl. ind.* 2, p. 167;—*Spreng. syst.* 2, p. 79;—*J. Graft. Cat. B. pl.* p. 222.—*Alœ americana*, *Rumph.* 5, t. 94.) विजाति अबाझान *Bilati-anannas*. 4. Moluccas? S. China? Flowers in May and June, when from 10 to 15 years old, and then from 20 to 30 feet high. (*Roxb.*)

* *Lepiedra Martinezii*, Lag. 4. S. Spain.—*Carpolyza spiralis*, Salisb. (*Strumaria spiralis*, Ker.; *B. M.* 34, t. 1383.) 4. C. G. H.—*Strumaria crispa*, Ker.; *B. M.* 33, t. 1363. 4. C. G. H.—*Oporanthus exiguus*, Herb. 4. Tangiers.—*Zephyranthes minima*, Herb. 4. Buenos Ayres.—*Z. Grahamiana*, Herb. 4. Mexico.—*Habran-*

thus kermesinus, Herb. (*Amaryllis kermesina*, B. Reg. 12, t. 1638.)
 ५. Brazil.—*H. intermedius*, Herb. (*Amaryllis intermedia*, B. Reg. 14, t. 1148.) ५. Brazil.—*H. Baynoldi*, Herb. B. Reg. 17, t. 1396. ५. Chili.—*H. phycelloides*, Herb.; B. Reg. 17, t. 1417. ५. Chili.—*Hippeastrum breviflorum*, Herb.; B. M. 64, t. 3549. ५. Buenos Ayres.—*Griffinia hyacinthina*, R. Br. (*Amaryllis hyacinthina*, B. Reg. 2, t. 163.) ५. S. America.—*Crinum purpurascens*, Herb. ५. Fernando del Po.—*C. Lindleyanum*, Herb. ५. Surinam.—*C. strictum*, Herb. B. M. 53, t. 2635. ५. Mexico?—*C. submersum*, Herb.; B. M. 51, t. 2463. ५. Rio Janeiro.—*C. insigne*, Herb. (*Amaryllis insignis*, B. Reg. 7, t. 579.) ५. Ceylon. Mahableshwar.—*Collania urceolata*, Schult. fil. (*Crinum urceolatum*, Ruiz. and Pav.) ५. Peru.—*Eustephia cyrtanthoides*, Endl. (*Amaryllis cyrtanthoides*, Sims.; B. M. 50, t. 2399.) ५. Chili.—*E. ignea*, Endl. (*Amaryllis ignea*, Ker.; B. Reg. 10, t. 809.) ५. Chili.—*E. Herbertiana*, Endl. (*Phycella Herbertiana*, Lindl. B. Reg. 16, t. 1341.) ५. Valparaíso.—*Eucrosia bicolor*, Ker.; B. Reg. 3, t. 207; B. M. 51, t. 2490. ५. S. America.—*Stenomesson flavum*, Herb.; B. M. 1849, app. (1821.); B. M. 53, t. 2641, (*Chrysiphiala flava*, Ker. (1823.) in B. Reg. 9, t. 778; Endl. gen. pl. 1, p. 178.) ५. S. America.—*S. curvidentatum*, Herb.; B. M. 53, t. 2640. ५. S. America.—*S. croceum*, Domb.; B. M. 64, t. 3615. ५. S. America.—*Coburgia fulva*, Herb.; B. Reg. 18, t. 1497; B. M. 60, t. 3221. ५. S. America.—*Eurycles australasica*, (*Pancratium australasicum*, Ker.; B. Reg. 9, t. 715.) ५. Australia.—*E. Cunninghamii*, Lindl.; B. Reg. 18, t. 1506; B. M. 62, t. 3399. ५. N. Holland.—*Tapizanthus humilis*, Herb. ५. Seville.—*Hymenocallis guianensis*, Herb. (*Pancratium guianense*, Ker.; B. Reg. 4, t. 265.) ५. Guiana.—*Ismene Macleana*, Herb.; B. M. 65, t. 3675. ५. Lima.—*Narcissus orientalis*, L.; B. M. 24, t. 948. ५. Levant.—*N. viridiflorus*, Schousb.; B. M. 41, t. 1687. ५. N. Africa.—*N. serotinus*, L. ५. N. Africa.—*Clivia nobilis*, Lindl.; B. Reg. 14, t. 1182. (*Imatophyllum Aitonii*, Hook.; B. M. 55, t. 2856.) ५. C. G. H.—*Bomarea acutifolia*, Herb. (*Alströmeria acutifolia*, Lk. and Otto.; B. M. 58, t. 3050.) ५. Mexico.—*Agave americana*, L.; B. M. 65, t. 3654. ५. S. America.—*A. flaccida*, Haw. ५. S. America.—*A. yuccaefolia*, Willd. ५. New Spain.—*A. mexicana*, Haw. ५. Mexico.—*A. vivipara*, L. ५. S. America.—*A. Karatto*, Mill. ५. S. America.—*A. geminiflora*, Ker.; B. Reg. 14, t. 1145. (*Buonapartea juncea*, Schlecht.) ५. S. America.—*Faucroya gigantea*, Vent.; B. M. 48, t. 2250. ५. S. America.—*F. cubensis*, Haw. ५. Cuba.—*F. rigida*, Haw. ५. S. America.—*F. madagascariensis*, Haw. ५. Madagascar.



ORDER CCXXIX.—HÆMODORACEÆ, R. Br.—Lindl. Nat. Syst.
p. 330;—Endl. gen. pl. 1, p. 170.

THE BLOOD-ROOT TRIBE.

Herbs, referred to about 12 genera. Of these, Spreng. syst. enumerates 12 species for New Holland; 12 for S. Africa; (10 *Harvey*) 4 for S. America; and 4 from N. America. One species, *Aletris litoralis*, Herb. Kön. is mentioned in Wall. Cat., but can scarcely be of Indian origin.

“The red colour found in the roots of *Dilatris tinctoria*, Pursh. in N. America, where it is used for dyeing, prevails in *Hæmodorum*, Sm., and *Wachendorfia*, L.” DC. (*Lindl.*)

WACHENDORFIA, Burm. (*Spreng. syst.* 1, p. 127, No. 178;—*Endl. gen. pl.* 1, p. 171.)

1. *thyrsiflora*, L. (*Spreng. syst.* 1, p. 169;—*B. M.* 27, t. 1060.) ♀ C. G. H. Introduced into the garden here in March 1841, but has not fl. yet.

2. *brevisolia*, Ker. (*B. M.* 29, t. 1166.) ♀ C. G. H. Introduced with No. 1, and has likewise not fl. yet.

—
* *Hagenbachia brasiliensis*, Nees. ♀ Brazil.—*Xiphidium albidum*, Lam. ♀ W. Indies.—*X. coeruleum*, Aubl. ♀ Guiana.—*Hæmodorum coccineum*, R. Br. ♀ Tropical New Holland.

ORDER CCXXX.—BURMANNIACEÆ, Bl.—Lindl. Nat. Syst. p. 330;
—Endl. gen. pl. 1, p. 163.

Herbs, by Lindl. referred to 5 genera. Of these, Spreng. syst. assigns 4 species to Brazil; 2 to Carolina; 2 to New Holland; (1 Indian) and 1 to S. Africa. Lindl. adds *Apteris setacea*, Nutt. for N. America. In the E. Indies have been discovered 3-4 species of *Burmattia*, (Ceylon, S. Concan; New Holland; 1 from Penang; 1 from Nepal; 1 from the Peninsula of India, Röttl.); 1 of *Gonyanthes*, (Java); and 1 of *Gymnosiphon*, (Java.) “*Apteris setacea* is slightly bitter, and very astringent. A similar flavour, something like that of Green Tea, is discernible in *Tripterella coerulea*. Nuttall.” (*Lindl.*)

BURMATTIA, L. (*Spreng. syst.* 1, p. 125, No. 144;—*R. Br. pr.* p. 264;—*Endl. gen. pl.* 1, p. 164.)

1. *disticha*, L. (*Spreng. syst.* 1, p. 145;—*Roxb. Corom.* 3, t. 242; *fl. ind.* 2, p. 117;—*J. Grah. Cat. B. pl.* p. 223;—*Burm. zeyl.* t. 20, f. 1.—*B. distachya*, *R. Br. pr.* p. 264.) ☉ Ceylon, S. Concan, New Holland. Fl. pale blue, and fr. R. S.



- * *Burmannia coelestis*, D. Don.; Royle ill. t. 91, f. 1. ☉ Nepal.—*B. triflora*, Roxb. Penang.—*B. flava*, Mart. Brazil.—*B. dasyantha*, Mart. Brazil.—*Gonyanthes candida*, Bl. ☉ Java.—*Gymnosiphon aphyllus*, Bl. ☉ Java.

ORDER CCXXXI.—TACCACEÆ, Lindl. Nat. Syst. p. 331;—Endl. gen. pl. p. 159.

Large, perennial, tuberous-rooted herbs, belonging to 1 genus. Of this, 7 species belong to the E. Indies, (the Concans, Silhet, Chittagong, Singapore, Penang, Java, the Moluccas). *Tacca pinnatifida* is also a native of Madagascar, New Holland, and the South Sea Islands.

"The great fleshy tuberous roots are filled with a nutritive *fæcula* resembling arrow-root, but its petioles are acrimonious. *Agardh.*" (Lindl.)

TACCA, Forst. (*Spreng. syst.* 2, p. 10, No. 1294;—*R. Br. pr. p.* 340;—*Endl. gen. pl.* 1, p. 159.

1. *pinnatifida*, Forst. (*Spreng. syst.* 2, p. 118;—*Schult.* 7, p. 166;—*R. Br. l. c.*;—*Endl. l. c.*;—*Roxb. fl. ind.* 2, p. 172;—*J. Grah. Cat. B. pl.* p. 230;—*B. Cab. t.* 692.—*T. pinnatifolia*, *Gartn. fr.* 1, p. 43, t. 14, f. 2, excl. syn. *Rheed. and Rumph.* 5, t. 12;—*Rumph.* 5, t. 114.) 2. Tropical New Holland. Otaheite. Moluccas. Worlee and Parell Hills, Bombay. Throughout the Concans, Madagascar. Fl. smallish, pale green. June, July and August; fr. Oct. Root intensely bitter when raw, but yielding a great quantity of white *fæcula*, of which the best flower for confectionary, puddings, &c., is made. (*Roxb.*) In the Islands of the South Sea, where grain of every kind disappears, its place is partly supplied by *Tacca pinnatifida*. (*Schouw.*)
2. *lavis*, Roxb. (*fl. ind.* 2, p. 171;—*J. Grah. Cat. B. pl.* p. 230.) 2. Silhet. The Concans. Fl. largish, of a dark greenish grey violet colour. H. and R. S.; fr. 0.
3. *integrifolia*, Ker. (*B. M.* 36, t. 1488;—*Spreng. syst.* 2, p. 118;—*Schult. syst.* 7, p. 169;—*Roxb. Corom.* 3, t. 257.—*T. aspera*, *Roxb. fl. ind.* 2, p. 169.—*Ataccia integrifolia*, *Presl.*; *Schult. syst.* 8, p. 1653.) 2. Chittagong. Fl. largish, of a greenish-purple and yellow colour, R. S.; fr. C. S.
4. *cristata*, Jack. 2. Singapore. In 1841, introduced into the Governor General's garden at Barrackpore by Dr. Cantor. Fl. ?

- * *T. Rafflesiana*, Jack. 2. Singapore. Penang.—*T. montana*, Bl. *Rumph.* 5, t. 115. 2. Amboyna. Java.



ORDER CCXXXII.—IRIACEÆ. (IRIDACEÆ, Lindl. Nat. Syst.
p. 332;—Endl. gen. pl. 1, p. 164.)

THE IRIS TRIBE.

Herbs, or very seldom undershrubs, by Lindl. (adding *Phalocallis*, Gesasine, *Nemostylis*, *Alophia*, *Trifurcia*, and *Beatonia*) referred to 45 genera. Of these, according to Spreng. syst. B. M. and B. Reg. about 36 species belong to S. America, Mexico, and the W. Indies; 36 to Europe; 16 to N. America (referring Texas to Mexico); 15 to Tauria, Caucasus, and Iberia; 12 to Siberia; 11 to New Holland and Van Diemen's Land; 4 to N. Africa; 3 to Asia Minor; 2 to Persia; 2 to Japan; 2 to the Mascarenhas Islands; 1 to Madagascar; and 1 to China. 300 species have been discovered in S. Africa; (*Harvey*) and 8 in the Himalayas; viz. 6 of *Iris*.; 1 of *Pardanthus*; (also a native of China) and 1 of *Crocus*.

The plants of this order are "more remarkable for their beautiful fugitive flowers, than for their utility. The rhizoma of some of them is slightly stimulating, as the violet-scented *Orris-root*, the produce of *Iris florentina*. The substance called *Saffron* is the dried stigmas of *Crocus sativus*; the colouring ingredient is a peculiar principle, to which the name *Polychroite* has been given. It possesses the remarkable properties of being totally destroyed by the action of the solar rays, of colouring in small quantity a large body of water, and of forming blue and green tints when treated with sulphuric and nitric acid, or with sulphate of iron. DC." (*Lindl.*) *SISYRINCHIUM*, L. (*Spreng. syst. 1, p. 127, No. 170*;—*Endl. o. c. p. 165*;—not R. Br. pr. p. 160, as to the species.)

1. *micranthum*, Cav. (*Diss. 6, p. 345, t. 191, f. 2*;—*Spreng. syst. 1, p. 167*;—*B. M. 47, t. 2116*.) 2. Peru. Has been cultivated in the garden here for many years without flowering.
2. *luteum*, Fisch. (*Spreng. l. c. under S. convolutum*, Nocc.) 2. Guiana. Introduced in 1841.

LIBERTIA, Spreng. (*Syst. 1, p. 127, No. 174*;—*Endl. gen. pl. 1, p. 165*.)

1. *formosa*, Grah. (*B. M. 61, t. 3294*;—*B. Reg. 19, t. 1630*.) 2. Island of Chiloe. Has been introduced into H. C. G. Fl.?

CIPURA, Aubl. (*Endl. gen. pl. 1, p. 165*.)

1. *paludosa*, Aubl. (*Guian. 1, p. 38, t. 13*.—*Marica Cipura*, *Gmel. syst. nat. 118*.—*M. paludosa*, *Willd.*; *Spreng. syst. 1, p. 165*;—*B. M. 18, t. 646*;—*Roxb. H. B. p. 5*.) 2. Moist Meadows. Guiana. Fl. 10 lines pure white, May and June: fr. 0.
2. *Northiana*, Lindl. (*Marica Northiana*, *Ker.*;—*Spreng. l. c.*;—*B. M. 18, t. 654*;—*J. Grah. Cat. B. pl. p. 214*.—*Morea Northiana*, *Schnee-vogl.*;—*B. Repos. t. 235*.—*Ferraria elegans*, *Salisb. pr. hort. p. 42*.) 2. Island of Raza, near the mouth of Rio Janeiro. Fl. 22 lines, pale sulphur, variegated with blue, and spotted with brownish on a yellow ground, very fragrant, R. S.; fr. 0.

3. *humilis*, Humb. (*Marica humilis*, R. and Sch.;—*Spreng. syst.* 1, p. 65.) ♀. New Granada. Introduced in 1841.
 4. *coerulea*, Lindl. (*Marica coerulea*, Ker.; *B. Reg.* 9, t. 713;—*Spreng. l. c.*) ♀. Brazil. Introduced in 1841.
 5. *Sabiniana*, (*Marica Sabiniana*, Lodd. MSS.) ♀. Tropical America. Introduced in 1841.
- VIRUSSEUXIA*, Roche. (*Spreng. syst.* 1, p. 126, No. 168;—*Endl. gen. pl.* 1, p. 165.)
1. *pavonia*, DC. (*Spreng. syst.* 1, p. 166.—*Iris pavonia*, L. fil. suppl. p. 98;—*Jacq. hort. schönbr.* 1, p. 6, t. 10;—*B. Repos. t.* 364.—*Morea pavonia*, Ker.; *B. M.* 31, t. 1247.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
 2. *tripetala*. (*V. tripetaloides*, DC.;—*Spr. o. c.* p. 165.—*Iris tripetala*, Thunb.;—*Jacq. ic. rar.* 2, t. 224.—*Morea tripetala*, Ker.; *B. M.* 19, t. 732.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
- MORÆA*, L. (*Spreng. syst.* 1, p. 126, No. 166;—*Endl. gen. pl.* 1, p. 165.)
1. *ciliata*, Ker. (*Spreng. syst.* 1, p. 163;—*B. M.* 3, 27, t. 1061.—*Iris ciliata*, Thunb.) ♀. C. G. H. Introduced in 1816, and afterwards. Fl. middle-sized, pale blue, with the outer segments yellow at the base, March; fr. 0.
 2. *papilionacea*, Ker. (*B. M.* 20, t. 750;—*Spreng. l. c.*—*Iris papilionacea*, Thunb.; *Jacq. coll. suppl.* 159, t. 3, f. 2.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
 3. *edulis*, Ker. (*B. M.* 17, t. 613;—*Spreng. l. c.*—*Iris edulis*, Thunb.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
 4. *longiflora*, Ker. (*B. M.* 19, t. 712;—*Spreng. l. c.*) ♀. C. G. H. Introduced in March, 1841. Has not fl. yet.
 5. *ramosa*, Ker. (*B. M.* 20, t. 771;—*Spreng. o. c.* p. 164.—*Iris ramosa*, Thunb.—*I. ramosissima*, L. suppl. p. 99.) ♀. C. G. H. Introduced in 1821. Fl.?
 6. *tristis*, Ker. (*Spreng. l. c.*—*Iris tristis*, Thunb.; *B. M.* 16, t. 577.—*Morea sordescens*, *Jacq. ic. rar.* 2, t. 225.—*M. tricolor*, *B. Repos. t.* 83.) ♀. C. G. H. Introduced in 1816. Fl.?
 7. *viscaria*, Ker. (*B. M.* 16, t. 587;—*Spreng. l. c.*—*Iris viscaria*, Thunb.) ♀. C. G. H. Introduced in March, 1841. Has not fl. yet.
 8. *bituminosa*, Ker. (*B. M.* 26, t. 1045;—*Spreng. l. c.*—*Iris bituminosa*, Thunb.) ♀. C. G. H. Introduced in 1814. Fl.?
 9. *Gaulei*, Spreng. (*Syst. index*, p. 462.—*M. crispa*, Ker.; *B. M.* 20, t. 759;—*Spreng. syst.* 1, p. 164;—not Thunb.—*Iris crispa*, Thunb. diss. 36, t. 1, f. 1;—*prodr.* 12.) ♀. C. G. H. Introduced in 1815. Fl.?
- HOMERIA*, Vent. (*Endl. gen. pl.* 1, p. 166; under *Morea*).
1. *collina*, Swt. (*Morea collina*, Thunb.;—*Jacq. ic. rar.* 2, t. 220;—*B. M.* 26, t. 1033;—*Spreng. syst.* 1, p. 165.—*Sisyrinchium collinum*, Cav.—*Morea miniata*, *B. Repos. t.* 404.) ♀. C. G. H. Introduced in 1820. Fl.?



2. *flexuosa*, Swt. (*Moræa flexuosa*, L.;—*B. M.* 19, t. 695.—*Ixia longifolia*, Jacq. hort. vind. 3, p. 47, t. 90.—*Sisyrinchium flexuosum*, Spr. syst. 1, p. 167.) ♀. C. G. H. Introduced in 1820. Fl. ?
- IRIS, L. (*Spreng. syst.* 1, p. 126, No. 165;—*Endl. gen. pl.* 1, p. 166.)
1. *persica*, L. (*Spreng. syst.* 1, p. 159;—*B. M.* 1, t. 1;—*J. Grah. Cat. B. pl.* p. 214.—*Xiphium persicum*, Mill. dict.) *The Persian bulbous Fleur-de-luce.* ♀. Persia. Introduced in 1817. Fl. ?
2. *junceæ*, Poir. (*Spreng. l. c.*;—*Desf. atl.* p. 39, t. 4.) ♀. N. Africa. Introduced in March, 1841; but has not fl. yet.
3. *lusitanica*, Ker. (*B. M.* 18, t. 679;—*Spreng. syst.* 1, p. 159.) ♀. Portugal. Fl. large, pale yellow, variegated with bright yellow and purple, H. S. but rare; fr. O.
4. *Xiphium*, L. (*Spreng. l. c.*—*B. M.* 18, t. 686;—*Roxb. H. B.* p. 5.) ♀. Spain. Portugal. Fl. large, blue-violet, variegated with deep yellow, sweet-scented, H. S. but rare; fr. O.
5. *xiphioides*, Ehrh. (*Spreng. l. c.*;—*B. M.* 18, t. 687.) ♀. Spain. Fl. larger than No. 3, purple, variegated with blue and yellow, scentless, H. S. but rare; fr. O.
6. *tenisfolia*, Pall. (*Spreng. syst.* 1, p. 160.) ♀. Banks of the Wolga. Siberia. Introduced in 1818. Fl. ?
7. *ventricosa*, Pall. (*Spreng. l. c.*) ♀. Siberia. Introduced in 1820. Fl. ?
8. *graminea*, Bauh. (*Spreng. l. c.*;—*Jacq. austr.* 1, p. 5, t. 2;—*B. M.* 18, t. 781.) ♀. Austria. Introduced in 1818. Fl. ?
9. *verna*, Pursh. (*Spreng. l. c.*) ♀. Virginia. Introduced in 1819. Fl. ?
10. *prismatica*, Pursh. (*Spreng. l. c.*;—*B. M.* 37, t. 1504.) ♀. N. America. Introduced in 1819. Fl. ?
11. *sibirica*, L. (*Spreng. l. c.*;—*B. M.* 2, t. 50.) ♀. Germany. Switzerland. Dauphiny. Siberia. Introduced in 1818. Fl. ?
12. *moravoides*, Ker. (*Spreng. syst.* 1, p. 160.—*Moræa iridioides*, L.; *Lam. enc.* 4, p. 274, t. 31, f. 1;—*B. M.* 19, t. 693;—*M. irioides*, Gärtn. fr. 1, p. 40, t. 13, f. 2.—*Iris compressa*, Thunb.) ♀. C. G. H. Fl. largish, white, scentless, H. S.; fr. O.
13. *Pseudacorus*, L. (*Spreng. l. c.*;—*E. B.* 9, t. 578.) ♀. Ditches, pools and margins of rivers in Europe. Fl. large, yellow, the larger petals pencilled with dark purple, H. S. but rarely; fr. O.
14. *versicolor*, L. (*Spreng. l. c.*;—*B. M.* 1, t. 21.) ♀. Virginia. Maryland. Pennsylvania. Introduced in 1818. Fl. ?
15. *cuprea*, Pursh. (*Spreng. l. c.*—*Iris fulva*, Ker.; *B. M.* 36, t. 1496.) ♀. New Orleans. Fl. 3 inches, of a tawny or copper-colour, with purple veins, scentless, H. S. but rare; fr. O.
16. *virginica*, L. (*Spreng. syst.* 1, p. 161;—*Jacq. ic. rar.* 2, t. 223;—*B. M.* 19, t. 703.) ♀. Virginia. Carolina. Introduced in 1818. Fl. ?
17. *spuria*, L. (*Spreng. l. c.*—*I. halophila*, *B. M.* 22, t. 875.) ♀. Meadows of Europe. Fl. large, deep-blue, H. S., but rare; fr. O.



18. *Guldenstädtiana*, Lepech. (*Spreng. l. c.*—*I. ochroleuca*, L.;—*B. M.* 2, t. 61.) 4. Carniolia. Introduced in 1818. Fl. ?
19. *notha*, Bieb. (*Spreng. l. c.*—*I. spuria*, δ , *halophila*, *B. M.* 28, t. 1131.) 4. Caucasus. Introduced in 1819. Fl. ?
20. *spathulata*, Lam. (*I. spuria*, *B. M.* 2, p. 58.) 4. Wet meadows of Germany. Introduced in 1817. Fl. ?
21. *desertorum*, Guldenst. (*I. spurea* ϵ . *desertorum*, *B. M.* 37, t. 1514.) 4. Russia. Has been cultivated here since 1817, without flowering.
22. *ochroleuca*, Bieb. (*I. spuria* p . *stenogyna*, *B. M.* 37, t. 1515.) 4. Europe. Caucasus. Introduced in 1818. Fl. ?
23. *germanica*, L. (*Spreng. syst.* 1, p. 161, excl. syn.—*B. M.* 18, t. 670.) 4. Europe. Introduced in 1820, but has not fl. since.
24. *florentina*, L. (*Spreng. l. c.*;—*B. M.* 18, t. 671;—*Roxb. H. B.* p. 5.) 4. Italy and other parts of S. Europe. Grows plentifully on the walls of Florence. Fl. very large, greyish-white, outer segments with a somewhat bluer tint; sides of the unguis with brownish or greenish-yellow veins, H. S.; fr. 0. The dried root, formerly used in medicine, is now confined to the manufactory of the perfumer, to whom it is known by the name of *Orris* or *Orris-root*, being used to give to certain articles, such as hair-powder, the scent of violets. (*Ker.*)
25. *pallida*, Lam. (*Spreng. l. c.*;—*B. M.* 18, t. 685.—*I. odoratissima*, *Jacq. hort. schönbr.* 1, p. 5, t. 9.) 4. Italy. Greece. Fl. very large, pale blue, suffused with a purplish tint, having a strong scent resembling that of Elder-flowers, H. S. but very rare; fr. 0.
26. *squalens*, L. (*Spreng. o. c. p.* 162; excl. syn.;—*B. M.* 21, t. 787.) 4. S. Europe. Introduced in 1818. Fl. ?
27. *lurida*, Ait. (*Hort. Kew.* 1, p. 68;—*B. M.* 18, t. 669.) 4. S. Europe. Fl. large, purplish-blue, variegated with yellow and brown, somewhat sweet-scented, H. S.; but rare.
28. *dichotoma*, Pall. (*Spreng. syst.* 1, p. 162;—*B. Reg.* 3, t. 28, 246.) 4. Siberia. Introduced in 1818. Fl. ?
29. *subbiflora*, Brot. (*fl. lusit.* 1, p. 50;—*B. M.* 28, t. 1130.) 4. Neighbourhood of Lisbon. Introduced in 1819. Fl. ?
30. *chinensis*, Cart. (*B. M.* 11, t. 373;—*Spreng. syst.* 1, p. 162;—*Roxb. fl. ind.* 1, p. 170; *ed. Carey*, 1, p. 174.) 4. China. Fl. large, lilac, pencilled with yellow, fragrant, H. S.; fr. 0.
31. *susiana*, L. (*Spreng. l. c.*;—*B. M.* 3, t. 91;—*Roxb. H. B.* p. 5.) 4. Persia. Fl. very large, pale-grey, pencilled with brown, H. S.; but rare; fr. 0.
32. *nepalensis*, Wall. (*Cat.*;—*Spreng. o. c. p.* p. 24;—*B. Reg.* 10, t. 818;—*Royl. ill.* t. 90, f. 2.) 4. Nepal. Kemaon. Has been introduced in H. C. G. Fl. ?
33. *variegata*, L. (*Spreng. syst.* 1, p. 162;—*B. M.* 1, t. 16.) 4. Hilly pastures of Hungary. Introduced in 1819. Fl. ?



34. *hungarica*, Kit. (*Spreng. l. c.*) ♀. Hungary. Introduced in 1840, but has not fl. yet.
35. *pumila*, L. (*Spreng. syst. 1, p. 163*;—*B. M. 1. t. 9.*) ♀. Germany. Hungary. Introduced in 1815. Fl. ?
36. *intescens*, Lam. (*Spreng. l. c.*;—*B. M. 55, t. 2861.*) ♀. Germany. France. Introduced in 1822. Fl. ?
- HERBERTIA, Swt. (*Endl. gen. pl. 1, p. 166.*)
1. *pulchella*, Swt. (*fl. gard. t. 222.*) ♀. Chile. Introduced in 1841. Has not fl. yet.
- CYPRILLA, Herb. (*End. gen. pl. 1, p. 166.*)
1. *Herbertii*, Herb. (*Tigridia Herbertii, Sims.*; *B. M. 52, t. 2599.*—*Moræa Herbertii, Lindl.*;—*B. Reg. 11, t. 949*;—*Spr. c. p. p. 24.*) ♀. Buenos Ayres. Introduced in August, 1841. Has not fl. yet.
- TIGRIDIA, Juss. (*Spreng. syst. 1, p. 127, No. 175*;—*Endl. gen. pl. 1, p. 166.*)
1. *Pavonia*, Juss. (*Spreng. syst. 1, p. 169*;—*J. Grah. Cat. B. pl. p. 214.*—*Ferraria Tigridia, Sims.*;—*B. M. 15, t. 532.*—*F. Pavonia, L. fl.*—*Moræa Pavonia, Thunb.*) ♀. Mexico. Peru. Fl. very large, bright-scarlet and yellow, dark purple spotted, July and Aug.; fr. O.
- FERRARIA, L. (*Spreng. syst. 1, p. 127, No. 176*;—*Endl. gen. pl. 1, p. 166.*)
1. *undulata*, L. (*Spreng. syst. 1, p. 169*;—*B. M. 4, t. 144.*) ♀. C. G. H. Fl. largish, very pale-yellow, with brownish curled margins, Feb. and March; fr. O.
- PARDANTHEUS, Ker. (*Spreng. syst. 1, p. 127, No. 169*;—*Endl. gen. pl. 1, p. 166.*)
1. *chinensis*, Ker. (*Spreng. syst. 1, p. 166*;—*J. Grah. Cat. B. pl. p. 214.*—*Ixia chinensis, L.*;—*Gartn. fr. 1, p. 40, t. 13, f. 3*;—*Lour.*—*Moræa chinensis, Thunb.*;—*Roxb. fl. ind. 1, p. 170*; *ed. Carey, 1, p. 174.*—*Belameanda chinensis, DC.*—*Ferraria crocea, Salisb. pr. hort. 41, No. 1*;—*Rheed. 11, t. 37.*) दाँदा बाँह *Dus-bahoo*, ♀. China. Japan. Cochin China. Nepal. Common in gardens. Fl. 10-12 lines, below bright-yellow, above dull-orange, with scarlet dots, scentless, R. S.; fr. C. S.
- ARISTEA, Soland. (*Spreng. syst. 1, p. 126, No. 161*;—*Endl. gen. pl. 1, p. 167.*)
1. *capitata*, Ker. (*B. M. 17, t. 605.*—*A. major, Andr. B. Repos. t. 160*;—*Spreng. syst. 1, p. 158.*—*A. coerulea, Vahl.*—*A. capitata, Ker.*; *B. M. 17, t. 605.*—*Gladiolus capitatus, L.*—*Moræa coerulea, Thunb.*—*Ixia thyrsiflora, Roche.*) ♀. C. G. H. Introduced in 1820. Fl. ?
- WITSENTIA, Thunb. (*Spreng. syst. 1, p. 125, No. 147*;—*Endl. gen. pl. 1, p. 167.*)
1. *corymbosa*, Ker. (*B. M. 23, t. 895*;—*Spreng. syst. 1, p. 147.*) ♀. C. G. H. Introduced in March, 1841. Has not fl. yet.

PATERSONIA, R. Br. (*pr.* p. 303;—*Spreng. syst.* 1, p. 127, No. 172;—*Endl. gen. pl.* p. 167.)

1. *glauca*, R. Br. (*o. c.* p. 304;—*Spreng. syst.* 1, p. 168;—*B. M.* 53, t. 2677.) 2. Port Jackson, Van Diemen's Land. Introduced in 1841.

GALAXIA, Thunb. (*Spreng. syst.* 1, p. 127, No. 171;—*Endl. gen. pl.* 4, p. 167.)

1. *ovata*, Thunb. (*Spreng. syst.* 1, p. 167;—*Cav.* 6, p. 341, t. 189, f. 2.—*Jacq. ic. rar.* 2, t. 291;—*B. Repos. t.* 94;—*B. M.* 30, t. 1208. a.—*G. grandiflora*, *B. Repos. t.* 164.—*Ixia Galaxia*, *L. fil.*) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
2. *graminea*, Thunb. (*Spreng. o. c.* p. 168;—*Cav.* 6, p. 341, t. 189, f. 3;—*Jacq. coll.* 2, p. 366, t. 18, f. 2;—*B. M.* 32, t. 1292.—*Ixia fugacissima*, *L. fil.*) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.

OVIDEA, Spreng. (*syst.* 1, p. 125, No. 148;—*Endl. gen. pl.* 1, p. 167; not *L.*)

1. *corymbosa*, Spreng. (*syst.* 1, p. 147.—*Lapeyrousia corymbosa*, *Ker.*; *B. M.* 16, t. 595.—*Ixia corymbosa*, *L.*;—*Jacq. ic. rar.* 2, t. 288.—*I. crispifolia*, *B. Repos. t.* 35.) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.

BABIANA, Ker. (*Spreng. syst.* 1, p. 126, No. 157;—*Endl. gen. pl.* 1, p. 168.)

1. *Thunbergii*, Ker. (*Spreng. syst.* 1, p. 155.—*Antholyza plicata*, *Thunb.*) 2. C. G. H. Introduced in 1816. Fl. ?
2. *tubiflora*, Ker. (*Spreng. l. c.*—*B. tubiflora*, var. *a.* *B. M.* 22, t. 847.—*Gladiolus tubiflorus*, *L.*;—*Jacq. ic. rar.* 2, t. 266.) 2. C. G. H. Introduced in 1829. Fl. ?
3. *spathacea*, Ker. (*B. M.* 17, t. 638;—*Spreng. l. c.*—*Gladiolus spathaceus*, *Thunb.*) 2. C. G. H. Introduced in 1826. Fl. ?
4. *sambucina*, Ker. (*B. M.* 26, t. 1019;—*Spreng. l. c.*—*Gladiolus sambucinus*, *Jacq.*) 2. C. G. H. Introduced in 1826. Fl. ?
5. *sulphurea*, Ker. (*B. M.* 26, t. 1053;—*Spreng. l. c.*—*Gladiolus sulphureus*, *Jacq. ic. rar.* 2, t. 239.—*G. plicatus*, *B. Repos. t.* 268, not *Thunb.*) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
6. *plicata*, Ker. (*B. M.* 16, t. 576;—*Spreng. l. c.*—*Gladiolus fragrans*, *Jacq. hort. schönbr.* p. 7, t. 14;—*G. plicatus*, *Thunb.*, not *L.* nor *Jacq.*) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
7. *stricta*, Ker. (*B. M.* 17, t. 621;—*Spreng. l. c.*—*Gladiolus strictus*, *Ait.*—*G. plicatus*, *L.*; excl. syn.—*Ixia villosa*, *Jacq. ic. rar.* t. 284.—*I. plicata*, *L. amoen. acad.* excl. syn.) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
8. *villosa*, Ker. (*B. M.* 16, t. 583;—*Spreng. l. c.*—*Ixia villosa*, *Ait.*, not *Jacq.*—*I. punicea*, *Jacq. ic. rar.* 2, t. 287.—*I. flabelliformis*, *Salisb. prodr. hort.* 37, No. 23.) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.



- I. rubro-cyanea*, Ker. (*B. M.* 12, *t.* 410;—*Spreng. syst.* 1, *p.* 156.—*Ixia rubro-cyanea*, *Jacq. ic. rar.* 2, *t.* 285.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
10. *disticha*, Ker. (*B. M.* 17, *t.* 626;—*Spreng. l. c.*—*Gladiolus plicatus*, *Jacq. ic. rar.* 2, *t.* 237, not of others.) ♀. C. G. H. Introduced in 1816. Fl. ?
11. *angustifolia*, Ker. (*Babiana stricta*, *a. B. M.* 17, *t.* 637.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
12. *ringens*, Ker. *Herb.* (*B. Reg.* 1838, *app. p.* 19.—*Spreng. syst.* 1, *p.* 155.—*Antholyza ringens*, *L.*) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
- GLADIOLUS, Tournef. (*Spreng. syst.* 1, *p.* 126, No. 155;—*Endl. gen. pl.* 1, *p.* 168.)
1. *edulis*, Burch. (*Spreng. syst.* 1, *p.* 151;—*B. Reg.* 2, *t.* 169.) ♀. S. Africa. Introduced in March, 1841, but has not fl. yet.
2. *tristis*, L. (*Spreng. l. c.*;—*B. M.* 8, *t.* 272.) ♀. C. G. H. Fl. large, sulphur-coloured, shaded in particular parts, especially underneath, with very fine pencillings, Feb. and March; fr. 0.
3. *gracilis*, *Jacq. (ic. rar.* 2, *t.* 246;—*Spreng. l. c.*;—*B. M.* 16, *t.* 562.) ♀. C. G. H. Fl. largish, pale blue, Feb. and March; fr. 0.
4. *recurvus*, L. (*Spreng. l. c.*—*B. M.* 16, *t.* 578, not L. fil. nor Thunb.—*G. carinatus*, *Ait.*—*G. punctatus*, *Jacq. ic. rar.* 2, *t.* 247.—*G. ringens*, *B. Repos. t.* 27, and *t.* 227.) ♀. C. G. H. Fl. largish, having a yellow ground, so thickly beset with minute blue dots, as to give the appearance of a uniform blue, of which colour they really at last become, smelling strongly like violets or Orris-root, Feb. and March; fr. 0.
5. *angustus*, L. (*Spreng. l. c.*;—*Jacq. ic. rar.* 2;—*B. M.* 17, *t.* 602.) ♀. C. G. H. Fl. largish, outside crimson, inside pale-yellow, Feb. and March; fr. 0.
6. *tenellus*, *Jacq. (ic. rar.* 2, *t.* 248;—*Spreng. l. c.*) ♀. C. G. H. Introduced in 1822. Fl. ?
7. *flexuosus*, Thunb. (*Diss. de. Glad. No.* 2, *t.* 1, *f.* 1;—*Spreng. syst.* 1, *p.* 152.) ♀. C. G. H. Introduced in 1821. Fl. ?
8. *Watsonia*, Thunb. (*Jacq. ic. rar.* 2, *t.* 333;—*Spreng. l. c.*;—*B. M.* 13, *t.* 450.) ♀. C. G. H. Fl. largish, deep red, Feb. and March; fr. 0.
9. *Milleri*, Ker. (*B. M.* 17, *t.* 632;—*Spreng. l. c.*) ♀. C. G. H. Fl. large, pale-yellow, after first having been quite white, Feb. and March; fr. 0.
10. *viperatus*, Ker. (*B. M.* 18, *t.* 688;—*Spreng. l. c.*—*G. alatus*, *Thunb.*;—*Jacq. ic. rar.* 2, *t.* 259, not L.—*G. orchidiflorus*, *B. Repos. t.* 241.) ♀. C. G. H. Fl. largish, greenish-grey, with something of a livid hue and brown stripes, fragrant, Feb. and March; fr. 0.
11. *namaquensis*, Ker. (*B. M.* 16, *t.* 592;—*Spreng. l. c.*;—*J. Grah. Cat. B. pl. p.* 214.—*G. galeatus*, *B. Repos. t.* 122, excl. syn.) ♀. C. G. H. Introduced in 1815. Fl. ?





12. *alatus*, L. (*Spreng. l. c.* not Ait. nor Jacq.—*B. M.* 16, *t.* 586.) ♀
C. G. H. Introduced in March, 1841, but has not fl. yet.
13. *hirsutus*, L. (*Spreng. l. c.*—*G. hirsutus*, β . *B. M.* 16, *t.* 574;—*Jacq. ic. rar.* 2, *t.* 250.—*G. roseus*, *B. Repos. t.* 11.) ♀ C. G. H. Introduced in 1818. Fl. ?
14. *brevifolius*, Jacq. (*Fragm.* 3, *p.* 12, *t.* 2, *f.* 3.—*G. hirsutus* β . *B. M.* 19, *t.* 727.—*G. carneus*, *B. Repos. t.* 240.) ♀ C. G. H. Fl. middle-sized, deep rose-coloured, marked with dark crimson lines. Fl. Feb. and March; fr. 0.
15. *versicolor*, Andr. (*B. Repos. t.* 19;—*Spreng. syst.* 1, *p.* 152;—*B. M.* 16, *t.* 556, γ .) ♀ C. G. H. Introduced in 1815. Fl. ?
16. *carneus*, Jacq. (*ic. rar.* 2, *t.* 255;—*Spreng. l. c.*;—*B. M.* 16, *t.* 591.—*G. cuspidatus*, Andr.;—*B. Repos. t.* 147, not L.) ♀ C. G. H. Introduced in 1824. Fl. ?
17. *cuspidatus*, L. (*Spreng. l. c.*;—*B. M.* 16, *t.* 582;—*Jacq. ic. rar.* 2, *t.* 257;—*B. Repos. t.* 219.—*G. undulatus*, *L. mant.*) ♀ C. G. H. Introduced in 1819. Fl. ?
18. *blandus*, Ait. (*Spreng. l. c.*;—*B. M.* 17, *t.* 625;—*B. Repos. t.* 99, and *t.* 188.—*G. albidus*, *Jacq. ic. rar.* 2, *t.* 256.—*G. carneus*, *Roche.*) ♀ C. G. H. Introduced in March, 1841, but has not fl. yet.
19. *undulatus*, Jacq. (*ic. rar.* *t.* 251;—*Spreng. syst.* 1, *p.* 153;—*B. M.* 18, *t.* 647.) ♀ C. G. H. Fl. largish, pale-yellow, with the middle nerve of its segment somewhat crimson, Feb. and March; fr. 0.
20. *floribundus*, Jacq. (*ic. rar.* 2, *t.* 254;—*Spreng. l. c.*;—*B. M.* 17, *t.* 610.—*G. grandiflorus*, *B. Repos. t.* 118.) ♀ Introduced in 1821. Fl. ?
21. *cardinalis*, Curt. (*B. M.* 4, *t.* 135;—*Spreng. l. c.*) ♀ C. G. H. Introduced in 1824. Fl. ?
22. *communis*, L. (*Spreng. l. c.*;—*B. M.* 3, *t.* 86.) Common Corn-flag. ♀
Meadows of Europe. Fl. large, rose-coloured, Feb. and March; fr. April.
23. *psittacinus*, Hook. (*B. M.* 57, *t.* 3032;—*B. Reg.* 17, *t.* 1442.) ♀
C. G. H. Introduced in March 1841, but has not fl. yet.
24. *byzantinus*, Mill. (*Spreng. syst.* 1, *p.* 153;—*B. M.* 22, *t.* 874.) ♀
Neighbourhood of Constantinople. Introduced in 1822. Fl. ?
25. *hyalinus*, Jacq. (*ic. rar.* 2, *t.* 242;—*Spreng. l. c.*) ♀ C. G. H. Introduced in 1818. Fl. ?
26. *segetum*, Ker. (*B. M.* 19, *t.* 719.—*Sphaerospora segetum*, *Carey's MSS.*) ♀ S. Europe. Fl. large, purple, Feb. and March; fr. April.
- SYNNOTIA, Sweet. (*Endl. gen. pl.* 1, *p.* 168, under *Gladiolus*.)
1. *bicolor*, Sweet. (*Ixia bicolor*, Ker.; *B. M.* 15, *t.* 548.—*Sparaxis bicolor*, Ker.;—*Spreng. syst.* 1, *p.* 150.—*Gladiolus bicolor*, *Thunb.*;—*Jacq. ic. rar.* 2, *t.* 240.) ♀ C. G. H. Fl. largish, yellow and blue, Feb. and March; fr. 0.



2. *galeata*, Swt. (*Sparaxis galeata*, Ker.—*Spreng. l. c.*—*Gladiolus galeatus*, Jacq. *ic. rar.* 2, t. 253.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.

ANISANTHUS, Sweet. (*Endl. gen. pl.* 1, p. 168.)

1. *Cunonia*, Sweet. (*Antholyza Cunonia*, L.;—*B. M.* 10, t. 343.—*Gladiolus Cunonia*, Garta. *fr.* 1, p. 31, t. 11, f. 4;—*Spreng. syst.* 1, p. 152.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.

ANTHOLYZA, L. (*Spreng. syst.* 1, p. 126, No. 160;—*Endl. gen. pl.* 1, p. 168.)

1. *athiopica*, L. (*Spreng. syst.* 1, p. 157;—*B. M.* 16, t. 561;—*J. Grab. Cat. B. pl.* p. 214.—*A. ringens*, B. *Repos. t.* 32.—*Gladiolus aethiopicus*, Corn. *canad. t.* 79.) ♀. C. G. H. Has been cultivated here for the last 12 years, without fl. or losing its leaves. Introduced again in March, 1841.

WATSONIA, Mill. (*Spreng. syst.* 1, p. 126, No. 154;—*Endl. gen. pl.* 1, p. 168.)

1. *spicata*, Ker. (*Spreng. syst.* 1, p. 150.—*Gladiolus spicatus*, L.—*Ixia spicata*, Willd.—*I. fistulosa*, Sims.; *B. M.* 15, t. 523.) ♀. C. G. H. Fl. small, greenish-white rose-coloured, Feb. and March; fr. 0.
2. *plantaginea*, Ker. (*B. M.* 16, t. 553;—*Spreng. l. c.*—*Ixia plantaginea*, Ait.—*I. triticea*, Burm. *prodr. fl. cap.* 1.) ♀. C. G. H. Fl. small, blue, 3 of the segments red-tipped, Feb. and March; fr. 0.
3. *marginata*, Ker. (*Spreng. l. c.*;—*B. M.* 17, t. 608.—*Gladiolus marginatus*, Thunb.;—*Roxb. H. B. p.* 25.) ♀. C. G. H. Fl. largish rose-coloured, Feb. and March; fr. 0.
4. *rosea*, Herb. Banks (*Ker.*; *B. M.* 27, t. 1072;—*Spreng. l. c.*—*Gladiolus pyramidatus*, Andr. *B. Repos. t.* 335.) ♀. C. G. H. Fl. large, rose-coloured. Feb. and March; fr. 0.
5. *brevifolia*, Ker. (*B. M.* 17, t. 601;—*Spreng. l. c.*—*Antholyza spicata*, Andr. *B. Repos. t.* 56.) ♀. C. G. H. Fl. largish, tawny, Feb. and March; fr. 0.
6. *fulgida*, Salisb. (*W. iridifolia*, β . *fulgens*, *B. M.* 17, t. 600.—*Antholyza fulgens*, B. *Repos. t.* 192.) ♀. C. G. H. Introduced in March 1841, but has not fl. yet.
7. *iridifolia*, Ker. (*Spreng. l. c.* excl. syn. B. *Repos.*—*Gladiolus iridifolius*, Jacq. *ic. rar.* 2, t. 234.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
8. *Meriana*, Mill. (*Spreng. l. c.*;—*Antholyza Meriana*, L.; *B. M.* 12, t. 418.) ♀. C. G. H. Introduced in 1825. Fl.?
9. *humilis*, Mill. (*Ker.*; *B. M.* 17, t. 631.—*Gladiolus laccatus*, Jacq. *ic. rar.* 2, t. 232.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
10. *aletroides*, Ker. (*Spreng. syst.* 1, p. 150.—*Gladiolus aleatroides*, Vahl.—*Antholyza Merianella*, L.; *B. M.* 13, t. 441, excl. syn.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.

11. *roseo-alba*, Ker. (*B. M.* 15, t. 537;—*Spreng. syst.* 1, p. 151.—*Gladiolus roseo-albus*, *Jacq. hort. schönbr.* 1, p. 7, t. 13.) ♀. C. G. H. Introduced in 1819. Fl. ?
- SPARAXIS, Ker. (*Spreng. syst.* 1, p. 126, No. 153;—*Endl. gen. pl.* 1, p. 168.)
 1. *tricolor*, Ker. (*Spreng. syst.* 1, p. 149.—*Ixia tricolor*, *Curt.*; *B. M.* 11, t. 381.) ♀. C. G. H.
 2. *grandiflora*, Ker. (*Spreng. l. c.*—*Ixia grandiflora*, *Roche*;—*Ker.*; *B. M.* 15, t. 541.) ♀. C. G. H. Fl. large, purple, Feb. and March; fr. 0.
 - β. *striatiflora*, Ker. (*B. M.* 20, t. 779. β.) Fl. outside purple-streaked, inside pale-yellowish, at base purple-spotted, Feb. and March.
 - γ. *Liliago*, Ker. (*B. Reg.* 3, t. 258.) Introduced in March, 1841, but has not fl. yet.
 - δ. *alba*, Fl. white, Feb. and March.
 3. *bulbifera* Ker. (*Spreng. l. c.*—*Ixia bulbifera*, *L.*—*B. Repos.* t. 48;—*B. M.* 15, t. 545.) ♀. C. G. H. Fl. largish, bright-yellow. Feb. and March; fr. 0.
 4. *fragrans*, Ker. (*Spreng. l. c.*—*Ixia fragrans*, *Jacq. ic. rar.* 2, t. 272.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
 5. *pendula*, Ker. (*Spreng. l. c.*—*B. Reg.* 16, t. 1360.—*Ixia pendula*, *Thunb.*—*Watsonia palustris*, *Pers.*) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
 6. *reflexa*, Villet's MSS. ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
- MONTBERTIA, DC. (*Endl. gen. pl.* 1, p. 168.—*Tritonia*, Ker.—*Spreng. syst.* 1, p. 126, No. 156.)
 1. *viridis*, (*Tritonia viridis*, Ker.; *B. M.* 31, t. 1275;—*Spreng. syst.* 1, p. 154.—*Gladiolus viridis*, *Ait.*) ♀. C. G. H. Introduced in 1819. Fl. ?
 2. *crispa*, (*Tritonia crispa*, Ker.; *B. M.* 18, t. 678;—*Spreng. l. c.*—*Gladiolus crispus*, *L. suppl.*) ♀. C. G. H. Introduced in 1818. Fl. ?
 3. *rosea*, (*Tritonia rosea*, *R. Br.*;—*Spreng. l. c.*—*T. capensis*, *B. M.* 17, t. 618.—*Gladiolus roseus*, *Jacq. ic. rar.* 2, t. 261.) ♀. C. G. H. Introduced in 1818. Fl. ?
 4. *longiflora*, (*Tritonia longiflora*, Ker.;—*Spreng. l. c.*—*Ixia longifolia*, *Ait.*;—*B. M.* 8, t. 256.—*Gladiolus longiflorus*, *L. fl. suppl.*) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
 5. *striata*, (*Tritonia striata*, Ker.;—*Spreng. l. c.*—*Gladiolus striatus*, *Jacq.*) ♀. C. G. H. Introduced in 1819. Fl. ?
 6. *lineata*, (*Tritonia lineata*, Ker.;—*Spreng. l. c.*—*Gladiolus lineatus*, *Salisb.*;—*B. M.* 14, t. 487.) ♀. C. G. H. Fl. large, straw-coloured, more or less tinged with orange, Feb. and March; fr. 0.
 7. *securigera*, Redout. (*Tritonia securigera*, Ker.;—*Spreng. l. c.*—*Gladiolus securiger*, *Ait.*;—*B. M.* 11, t. 383.) ♀. C. G. H. Fl. largish, yellow, tinged with orange, Feb. and March; fr. 0.



8. *squalida*, (*Tritonia squalida*, Ker.;—*B. M.* 16, *t.* 581;—*Spreng. l. c.*—*Ixia squalida*, Ait.) ♀. C. G. H. Introduced in 1820. Fl. ?
9. *crocata*, (*Tritonia crocata*, Ker.—*Ixia crocata*, Thunb.;—*B. M.* 6, *t.* 184.) ♀. C. G. H. Fl. large, deep-orange, with a transparent base, Feb. and March; fr. O.
10. *fenestrata*, (*Tritonia fenestrata*, Ker.;—*B. M.* 19, *t.* 704;—*Spreng. l. c.*—*Ixia fenestrata*, Jacq. *ic. rar.* 2, *t.* 289.) ♀. C. G. H. Fl. large, bright vermillion, varying to a deep-orange colour, Feb. and March; fr. O.
11. *miniata*, (*Tritonia miniata*, Ker.; *B. M.* 17, *t.* 609;—*Spreng. l. c.*—*Ixia miniata*, Jacq. *schönbr.* 1, *p.* 10, *t.* 24.) ♀. C. G. H. Fl. largish, yellow-orange, Feb. and March; fr. O.
12. *deusta*, (*Tritonia deusta*, Ker.;—*B. M.* 17, *t.* 622.—*Spreng. l. c.*—*Ixia deusta*, Ait.) ♀. C. G. H. Fl. large, copper-coloured, Feb. and March; fr. O.
13. *concolor*, (*Tritonia concolor*, Swt.—*T. longiflora*, *B. M.* 37, *t.* 1502, γ .) ♀. C. G. H. Introduced in 1816. Fl. ?
14. *tenuiflora*, (*Tritonia tenuiflora*, Ker.;—*T. longiflora*, β . *B. M.* 37, *t.* 1502.) ♀. C. G. H. Introduced in 1819. Fl. ?
15. *capensis*, (*Tritonia capensis*, Ker. β . *B. M.* 37, *t.* 1531.) ♀. C. G. H. Introduced in March, 1841, but has not fl. yet.
- IXIA, L. (*Spreng. syst.* 1, *p.* 126, No. 158;—*Endl. gen. pl.* 1, *p.* 169.)
1. *capillaris*, L. (*Spreng. syst.* 1, *p.* 156;—*B. M.* 17, *t.* 617.) ♀. C. G. H. Fl. middle-sized, lilac, Feb. and March; fr. O.
2. *aulica*, Ait. (*Spreng. l. c.*—*I. capillaris*. γ . *aulica*, *B. M.* 25, *t.* 1013.) ♀. C. G. H. Fl. middle-sized, outside rose-coloured, inside crimson, Feb. and March; fr. O.
3. *flexuosa*, L. (*Spreng. l. c.*;—*B. M.* 17, *t.* 624.—*I. polystachia*, *Burm. fl. cap. prodr.* 1, var. *maculata* more *Ixia maculata*.—*I. capitata*, *B. Repos. t.* 232.) ♀. C. G. H. Fl. middle-sized, white, with red streaks, Feb. and March; fr. O.
- β . *rubriflora*. Fl. red, Feb. and March.
- γ . *violacea*. Fl. violet, frequently stained as in *Ixia maculata*, Feb. and March.
4. *aristata*, Thunb. (*Spreng. l. c.*;—*B. M.* 16, *t.* 589, not Ait. nor Willd.) ♀. C. G. H. Fl. largish, pale rose-coloured, with deep rosy streaks, Feb. and March; fr. O.
5. *monadelphæ*, Roche. (*Spreng. l. c.*;—*B. M.* 17, *t.* 607.—*I. columnaris*, *Salisb.*;—*Andr.*; *B. Repos. t.* 203, 211, 213, 250.) ♀. C. G. H. Fl. large, varying in colour from bluish-purple to purple, yellow, &c., often variegated, and generally having a large, round stain at the base more or less obsolete, and of various tints, Feb. and March; fr. O.
6. *columellaris*, Ker. (*B. M.* 17, *t.* 630;—*Spreng. l. c.*) ♀. C. G. H. Fl. middle-sized, outside dingy purplish-white, inside very brilliant and iridescently variegated in circles, with a dark spot at the base of the

- limb, having a strong scent like that of Tongo Bean, Feb. and March ; fr. 0.
7. *maculata*, L. (*Spreng. l. c.*;—*B. M.* 21, t. 789. *β. amethystina*.) 2. C. G. H. Fl. largish, pale-blue, with a dark spot at the base of the limb, Feb. and March ; fr. 0.
β. ochroleuca, Ker. (*B. M.* 31, t. 1285.) 2. C. G. H. Fl. large, pale-yellow, with brownish spot at the base of the limb, Feb. and March.
8. *crateroides*, Ker. (*B. M.* 16, t. 594;—*Spreng. syst.* 1, p. 157.—*I. speciosa*, *B. Repos. t.* 186.) 2. C. G. H. Fl. largish, outside purplish-red, inside deep-crimson, Feb. and March ; fr. 0.
9. *scillaris*, Thunb. (*Spreng. l. c.*;—*B. M.* 15, t. 542. *α.*—*I. reflexa*, *Andr.*; *B. Repos. t.* 14.—*I. polystachia*, var. *Jacq. coll. suppl.* 159, t. 2, f. 1.) 2. C. G. H. Fl. middle-sized, deep rose-coloured, each segment with a dark purple spot, Feb. and March ; fr. 0.
10. *patens*, Ait. (*Spreng. l. c.*—*B. M.* 15, t. 522.) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
11. *leucantha*, Jacq. (*ic. rar.* 2, t. 278;—*Pers. syn.* 1, p. 48.) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
12. *conica*, Salisb. (*Spreng. syst.* 1, p. 157;—*B. M.* 15, t. 539.) 2. Fl. largish, orange-coloured, Feb. and March ; fr. 0.
13. *erecta*, Berg. (*Spreng. l. c.*;—*Jacq. schönbr.* 1, p. 18;—*B. M.* 17, t. 623.—*I. polystachya*, L.;—*B. Repos. t.* 155;—not Jacq.) 2. C. G. H. Fl. middle-sized, before expanding pale-green on the outside, afterwards entirely white, Feb. and March ; fr. 0.
14. *viridiflora*, Pers. (*Syn.* 1, p. 48.—*I. maculata*, *γ viridis*, *B. M.* 16, t. 549.) 2. C. G. H. Fl. large, pale-green, with a dark purple spot at the base of the limb, Feb. and March ; fr. 0.
- HESPERANTHA, Ker. (*Spreng. syst.* 1, p. 125, No. 150;—*Endl. gen. pl.* 1, p. 169.)
1. *falcata*, Ker. (*Spreng. syst.* 1, p. 148.—*Ixia falcata*, *Thunb.*;—*Jacq. ic. rar.* 2, t. 276;—*B. M.* 16, t. 566;—*I. cinnamomea*, *B. Repos. t.* 44, not Thunb.) 2. C. G. H. Introduced in 1818. Fl. ?
2. *cinnamomea*, Ker. (*B. M.* 26, t. 1054;—*Spreng. l. c.*—*Ixia cinnamomea*, *Thunb.*) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
3. *pilosa*, Ker. (*B. M.* 36, t. 1475;—*Spreng. l. c.*—*Ixia pilosa*, *Thunb.*) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
- GRISSEORRHIZA, Ker. (*Spreng. syst.* 1, p. 125, No. 151.—*Endl. gen. pl.* 1, p. 169.)
1. *secunda*, Ker. (*Spreng. syst. l. c.*—*Ixia secunda*, *Berg.*;—*Jacq. ic. rar.* 2, t. 277;—*B. M.* 17, t. 597.) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
2. *obtusata*, Ker. (*B. M.* 18, t. 672;—*Spreng. syst.* 1, p. 148.—*Ixia obtusata*, *Soland. in Herb. Banks.*) 2. C. G. H. Introduced in 1818. Fl. ?



TRICHONEMA, Ker. (*Spreng. syst. 1, p. 126, No. 152;—Endl. gen. pl. 1, p. 169.*)

1. *Bulbocodium*, Ker. (*Spreng. syst. 1, p. 149.*—*Ixia Bulbocodium*, L.;—*B. M.* 8, t. 265;—*E. B.* 36, t. 2549.) 2. Guernsey. France. Italy. Greece. Introduced in 1819. Fl. ?
2. *purpurascens*, Swt. (*Ixia purpurascens*, Tenor. *fl. neap. 1, 2.*) 2. Italy. Introduced in August, 1841, but has not fl. yet.
3. *cruciatum*, Ker. (*Spreng. syst. 1, p. 149;—B. M.* 16, t. 575.—*Ixia cruciata*, Jacq. *ic. rar. 2, t. 290.*—*I. Bulbocodium*, var. 7, *Themb.*) 2. C. G. H. Fl. smallish, deep rose-coloured, Feb. and March, but rare; fr. 0.
4. *roseum*, Ker. (*B. M.* 30, t. 1225;—*Spreng. l. c.*—*Ixia rosea*, L.—*I. campanulata*, Lam.) 2. C. G. H. Introduced in 1816. Fl. ?
5. *pubicum*, Ker. (*B. M.* 31, t. 1244.—*Ixia pudica*, Soland. in *Hb. Banks.*) 2. C. G. H. Introduced in 1817. Fl. ?
6. *chloroleucum*, Ker. (*Ixia chloroleuca*, Jacq. *ic. rar. 2, t. 272;—Pers. syn. 1, p. 46.*) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
7. *caulescens*, Ker. (*B. M.* 34, t. 1392.) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.
8. *speciosum*, Ker. (*B. M.* 36, t. 1476;—*Spreng. syst. 1, p. 149.*) 2. C. G. H. Introduced in March, 1841, but has not fl. yet.

SPATALANTHUS, Swt. (*Loud. hort. brit. p. 485.*)

1. *speciosus*, Swt. (*fl. gard. t. 300.*—*Trichonema monadelphum*, Swt.) 2. C. G. H. Introduced in 1817. Fl. ?

CROCUS, Tournef. (*Spreng. syst. 1, p. 125, No. 146;—Endl. gen. pl. 1, p. 169.*)

From 1815-20, thirteen species of the genus have been frequently introduced into the garden here from the Liverpool Bot. Gard., but without success. The same was the case with the *C. vernus*, Willd. introduced into H. C. G. in 1810.

- * *Sisyrinchium plicatum*, Spreng. (*Marica plicata*, Ker.; *B. M.* 18, t. 655. 2. W. Indies.—*S. tenuifolium*, Humb.; *B. M.* 47, t. 2117 and t. 2313. 2. Mexico.—*S. striatum*, Cav. (*Marica striata*, Ker.; *B. M.* 19, t. 701.) 2. Mexico.—*S. iridifolium*, Humb. (*Marica iridifolia*, Ker.; *B. Reg.* 8, t. 646.) 2. Caracas.—*Cipura martinicensis*, Humb. (*Iris martinicensis*, L.; *B. M.* 12, t. 416.) 2. W. Indies.—*Marica gracilis*, Herb.; *B. M.* 66, t. 3713. 2. Brazil.—*Iris tuberosa*, L.; *B. M.* 15, t. 531. 2. Italy. Greece.—*I. triflora*, Balb. 2. Italy.—*I. foetidissima*, L.; *E. B.* 9, t. 596. 2. England. France. Spain.—*I. Swertii*, Lam. (l. aphylla. γ . *B. M.* 22, t. 870.) 2. Portugal?—*Ferraria antherosa*, Ker.; *B. M.* 20, t. 751. 2. C. G. H.—*Patersonia sericea*, R. Br.; *B. M.* 26, t. 1041. 2. Tropical New Holland.—*Bobartia gladiata*, Swt. (*Marica gladiata*, Ker.; *B. Reg.* 3, t. 229.) 2.



C. G. H.—*Witsenia Maura*, L.; B. Reg. 1, t. 5, 2. C. G. H.—*Anomatheca juncea*, Ker.; 17, t. 606, 2. C. G. H.—*A. cruenta*, Lindl; B. Reg. 16, t. 1369. 2. C. G. H.—*Melasphearula intermedia*, Swt. (M. graminea, B. M. 17, t. 615; not Rel.) 2. C. G. H.—*Phalocallis plumbea*, Herb.; B. M. 65, t. 3710. (Cypella plumbea, B. Reg. 1, p. 24.) 2. Valparaiso.—*Diasia graminea*, DC. 2. C. G. H.

ORDER CCXXXIII.—BROMELIACEÆ, Lindl. Nat. Syst. p. 334.
Endl. gen. pl. 1, p. 181.

THE PINE-APPLE TRIBE.

Stemless or short stemmed plants, by Lindl. referred to 21 genera. All, without exception, are natives of the continent or Islands of America, whence they have migrated eastwards in such numbers, as to have established themselves as part of the present Flora of the West Coast of Africa, and some parts of the E. Indies. The most remarkable is the *Ananas*, which is well known for the sweetness and fine aromatic flavour of its fruit. No other species is of the same interest. They are all capable of existing in a dry air without contact with the earth; on which account they are favourites in S. American gardens, where they are suspended in the dwellings or hung to the balustrades of the balconies; situations in which they flower abundantly, filling the air with their fragrance. Ropes are made in Brazil from a species of *Bromelia*, called *Grawatha*. *Pr. Max. Trav.* (Lindl.)

ANANAS, Plum. (*Schult. syst.* 8, p. LXXIII. No. 1486.—*Ananassa*, Lindl.; B. Reg. 13, t. 1068, *app.* and t. 1381;—*Endl. gen. pl.* 1, p. 182.)

1. *sativus*, Schult. (*Syst.* 8, p. 1283.—*Ananassa sativa*, Lindl. B. Reg. 13, t. 1068, *app.*—*Bromelia Ananas*, L., *spec.* p. 408, excl. δ .—*Willd. spec.* 2, p. 7, excl. γ .—*Lam. enc.* 1, p. 143, excl. ξ .—*Lour.*;—*Spreng. syst.* 2, p. 20;—*Roxb. fl. ind.* 2, p. 116;—*J. Grah. Cat. B. pl.* p. 222;—*B. M.* 38, t. 1554;—*Rheed* 11, t. 1, 2;—*Rumph.* 5, t. 81.) *अनामिस* *Anannas*. 2. W. Indies. Domesticated in the Mascarenhas Islands, the E. Indies, Guinea, &c. Fl. small, bluish, H. S.; fr. R. and C. S. Pine-apples succeed as far north as 30° in the open air, but are plentiful in the garden of the Taj-muhl at Agra. They are so abundant in Ceylon, parts of Burma, and the Khassya Mountains, as to appear wild there, and are considered most delicious in the two latter places. It is evident, therefore how well suited the climate and soil of many parts of India are to the cultivation of the pine-apple. This is important not only on account of the fruit, but also on account of the fibre, which abounds in the leaves, as with it cloth has been manufactured as fine as some muslins. (*Royle.*)



- B. striatifolia*, Roxb. (*H. B.* p. 23.) ♀. Malacca. Introduced into H. C. G. in 1800, but had not fl. up to 1814.
2. *bracteatus*, Schult. (*syst.* 8, p. 1286.—*Ananassa bracteata*, Lindl.; *B. Reg.* 13, t. 1081.) ♀. Brazil. Has been introduced into H. C. G. Fl?
- BROMELIA, L. (*Schult. syst.* 8, p. LXXII. No. 1485;—*Spreng. syst.* 2, p. 3, No. 1165;—*Endl. gen. pl.* 1, p. 182.)
1. *Karatas*, L. (*Schult. syst.* 8, p. 1274;—*Spreng. syst.* 2, p. 21;—*Jacq. amer.* 90, t. 178, f. 26; *pict. t.* 260;—*hort. vind.* 1, 31, 32, 33, t. 73, 74;—*Roxb. H. B.* p. 23.) ♀. W. Indies. Fl. smallish, white, R. S.; fr. O.
2. *humilis*, Jacq. (*lc. rar. t.* 60;—*Schult. o. c. p.* 1275;—*Spreng. l. c.*) ♀. W. Indies. Lately introduced.
3. *Pinguin*, L. (*Schult. o. c. p.* 1277;—*Spreng. l. c.*;—*Lam. ill. t.* 223, f. 2.—*Ananas Pinguin*, *Gärtn. fr.* 1, p. 30, t. 11, f. 2.) ♀. Jamaica. Barbadoes. Lately introduced.
4. *sylvestris*, Willd. (*Schult. o. c. p.* 1279;—*Spreng. o. c. p.* 22;—*B. M.* 50, t. 2392.) ♀. Brazil. Has been introduced into H. C. G. Fl. ?
5. A new species, from Rio Janeiro, sent by Messrs. Loddiges and Co. in August, 1841.
- BILBERGIA, Thunb. (*Schult. syst.* 8, p. LXXI. No. 1483;—*Endl. gen. pl.* 1, p. 182;—*B. Reg.* 13, t. 1068, app.)
1. *pyramidalis*, Lindl. (*B. Reg. l. c.*;—*Schult.* 8, p. 1258.—*Bromelia pyramidalis*, Sims.; *B. M.* 42, t. 1732;—*Bromelia nudicaulis*, Ker.; *B. Reg.* 3, t. 203, excl. syn. L. and Plum;—*Spreng. syst.* 2, p. 21.) ♀. Rocks near Rio Janeiro. Introduced in 1840, but has not fl. yet.
- β. *bicolor*, Lindl. (*B. Reg.* 14, t. 1181;—*Schult. o. c. p.* 1259.) ♀. S. America. Introduced in 1840, but has not fl. yet.
2. *zebrina*, Lindl. (*B. Reg.* 13, t. 1068, app.;—*Schult. o. c. p.* 1261.—*Bromelia zebrina*, *Herb.*; *B. M.* t. 53, t. 2686.) ♀. Rio Janeiro. Introduced in 1840, but has not fl. yet.
3. *amoena*, Lindl. (*B. Reg.* 13, t. 1068, app.;—*Schult. o. c. p.* 1263.—*B. speciosa*, Thunb. *pl. bras.* p. 30, with a plate.—*Bromelia pallida*, Ker.; *B. Reg.* 4, t. 344;—*Spreng. syst.* 2, p. 21;—*Hook. exot. fl. t.* 41. *Tillandsia amoena*. *B. Cab. t.* 76.) ♀. Brazil. Introduced in 1840, but has not fl. yet.
4. *iridifolia*, Lindl. (*B. Reg.* 13, t. 1068;—*Schult. o. c. p.* 1266.—*Bromelia iridifolia*, *Nees. and Mart.*) ♀. Rio Janeiro. Introduced in 1840, but has not fl. yet.
- PITCAIRNIA, L'Herit. (*Schult. syst.* 8, p. LXIX. No. 1480;—*Spreng. syst.* 2, p. 4, No. 1168;—*Lindl. B. Reg.* 13, t. 1068, app.;—*Endl. gen. pl.* 1, p. 182.)
1. *staminea*, Lodd. (*B. Cab. t.* 773;—*B. M.* 50, t. 2411;—*Schult. syst.* 8, p. 1240;—*Spreng. syst.* 2, p. 22.) ♀. Brazil, near Rio Janeiro. Fl. 2 inches, bright scarlet. Introduced in August, 1841, but has not fl. yet.



2. *albiflos*, Herb. (*B. M.* 53, *t.* 2646;—*Schult. o. c. p.* 1241.—*P. albi-flora*, *Spr. c. p. p.* 131.) ♀. Paras. Neighbourhood of Rio Janeiro. Fl. $1\frac{1}{2}$ inch, white. Introduced in August, 1841, but has not fl. yet.
3. *integrifolia*, Ker. (*B. M.* 36, *t.* 1462;—*Schult. o. c. p.* 1242;—*Spreng. syst.* 2, *p.* 22.) ♀. W. Indies. Fl. 20 lines, bright scarlet, Aug. and Sept.; fr. 0.
4. *angustifolia*, Ait. (*B. M.* 37, *t.* 1547;—*Schult. o. c. p.* 1243;—*Spreng. l. c.*) ♀. St. Cruz. Fl. large, scarlet. Introduced in 1819. Fl. ?
5. *bromeliæfolia*, L'Herit. (*Sert. angl. p.* 7, *t.* 11;—*Schult. o. c. p.* 1244;—*Spreng. l. c.*;—*B. M.* 21, *t.* 824.—*B. Reg.* 12, *t.* 1011;—*Rorb. H. B. p.* 23.) ♀. Jamaica, in shady places among rocks and precipices. Fl. $1\frac{1}{4}$ inch, pale red, April and May; fr. 0.
6. *bracteata*, Ait. (*Schult. o. c. p.* 1245;—*Spreng. l. c.* excl. syn. *P. sniphurea*;—*B. M.* 55, *t.* 13.—*P. latifolia*, *Red. lil.* 2, *t.* 73, 74; excl. syn.) ♀. St. Vincent. Fl. largish, red. Introduced in August, 1841, but has not fl. yet.
7. *latifolia*, Ait. (*Schult. o. c. p.* 1246;—*Spreng. l. c.*;—*B. M.* 22, *t.* 856, excl. syn. Andr. and Röd. and descript.) ♀. W. Indies. Fl. 3 inches, more or less deep red, H. S.; fr. 0.
8. *furfuracea*, Sims. (*B. M.* 53, *t.* 2657;—*Schult. o. c. p.* 1248, not Willd.—*P. intermedia*, *Hortul.*) ♀. S. America. Fl. 3 inches, scarlet, April and May; fr. 0.
9. *ramosa*, Jacq. (*Ecl. p.* 154, among the errata;—*Schult. o. c. p.* 1247.—*P. furfuracea*, *Jacq. ecl. p.* 117, *t.* 79, not Willd.) ♀. S. America. Fl. 2 inches, at base dirty whitish, upwards purple tinged, July and Aug.; fr. 0.
- TILLANDSIA, L. (*Schult. syst.* 8, *p.* LXVI. No. 1475;—*Spreng. syst.* 2, *p.* 4, No. 1170;—*B. Reg.* 13, *t.* 1068, *app.*;—*Endl. gen. pl.* 1, *p.* 183.)
1. *paniculata*, L. (*Schult. syst.* 8, *p.* 1220;—*Spreng. syst.* 2, *p.* 25;—*Burm. amer. ic.* 237.) ♀. Arid Mountains of St. Domingo. Introduced in 1840, but has not fl. yet.
2. *acaulis*, Lindl. (*B. Reg.* 14, *t.* 1157;—*Schult. o. c. p.* 1229.) ♀. Neighbourhood of Rio Janeiro. Fl. largish, white. H. and R. S.; fr. 0.
3. A new species, sent in 1840, by Messrs Loddiges and Co. ♀. Rio Janeiro. Has not fl. yet.
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- * *Ananas semiserratus*, Schult. ♀. Hotter parts of America.—*A. lucidus*, Schult. ♀. S. America.—*A. Sagenaria*, Schult. ♀. Pernambuco.—*Bromelia chrysantha*, Jacq. ♀. Caracas.—*B. fastuosa*, Lindl. ♀. Mexico.—*B. paniculigera*, Swz. ♀. W. Indies.—*B. ? lingulata*, L. ♀. Martinique. *B. ? longifolia*, Rudge. ♀. Guiana.—*Eckmea floribunda*, Schult. fil. ♀. Rio Janeiro.—*Billbergia cruenta*, Hook; *B. M.* 56, *t.* 2892. ♀. Rio Janeiro.—*B. clavata*, Lindl. (*Bromelia melanantha*, *B. Reg.* 9, *t.* 766.) ♀. Trinidad.—*B. oblonga*, Schult. fil. ♀. Rio Janeiro.—*B. nudicaulis*, Lindl.



(*Bromelia nudicaulis*, Hook. exot. fl. t. 143.) 4. Trinidad.—*B. purpureo-rosea*, Hook; B. M. 61, t. 3304. 4. Brazil.—*Pitcairnia Karwinskyana*, Schult. fil. 4. Mexico.—*P. flammea*, Lindl.; B. Reg. 13, t. 1092. 4. Brazil.—*P. suaveolens*, Lindl.; B. Reg. 13, t. 1069. 4. Rio Janeiro.—*P. Redouteana*, Schult. 4. St. Cruz.—*P. sulphurea*, Andr. (*P. bracteata*, β . *sulphurea*, B. M. 34, t. 1416.) 4. W. Indies.—*P. albucaefolia*, Schrad. 4. W. Indies.—*Tillandsia Bartramii*, Ell. 4. Georgia.—*T. recurvata*, L. 4. Jamaica. Bahama Islands.—*T. pulchra*, Hook. exot. fl. t. 154. 4. Trinidad.—*T. coerulea*, Humb. and Bonpl. 4. Mexico.—*T. Karwinskyana*, Schult. fil. 4. Mexico.—*T. bulbosa*, Hook. exot. fl. t. 173. 4. Mexico.—*T. flexuosa*, Swz. (*T. flexuosa* γ . Lindl.; B. Reg. 9, t. 749.) 4. Jamaica.—*T. reticulata*, Sm. 4. Jamaica.—*T. nitida*, Hook. exot. fl. t. 218. 4. Jamaica.

ORDER CCXXXIV.—HYDROCHARACEÆ, Lindl. Nat. Syst. p. 335.

Floating or water plants, by Lindl. referred to 12 genera. Of these Spreng. syst. assigns 3 species to Europe, (1 also Indian); 2 to S. America; 2 to N. Holland, (1 also a native of India); 1 Egypt, (also a native of India); and 1 to N. America. In the E. Indies have been discovered 4 species of *Ottalia*; 3 of *Vallisneria*; 1 of *Hydrilla*; 1 of *Blyxa*; 1 of *Enhalus*; and 1 of *Hydrocharis*. A species of *Blyxa* has been found in Madagascar. Properties under the species.

A. ANACHARIDEÆ, (Anacharidæ, Endl. gen. pl. 1, p. 161.)

HYDRILLEA, L. C. Rich. (Endl. l. c.)

1. *verticillata*, L. C. Rich. (Mém d'inst. [1811.] 2, p. 61, t. 2.—Serpicula verticillata, Lin. fil.;—Roxb. fl. ind. 3, p. 578;—J. Grah. Cat. B. pl. p. 76; not Rostcow.—Vallisneria verticillata, Roxb. fl. ind. 3, p. 751. Udora verticillata, Spreng. 1, p. 170.—Hottonia serrata, Willd.) © Coromandel. Mahableshtar. Bengal, (Serampore.) and northwards to Saharunpore. Fl. small, whitish, R. S.; fr. C. S. This and similar plants are employed by the sugar-refiners of Saharunpore and Berhampore for covering the surface of their sugars, as clay is used in the W. Indies, to permit the slow percolation of water. (Roxb. Royle.)

B. VALLISNERIÆ, Endl. gen. pl. 1, p. 161.

VALLISNERIA, Michel. (Endl. l. c.)

1. *spiralis*, L. (R. Br. pr. p. 201;—Wight. in Hook. bot. misc. suppl. 23, 24.—V. spiraloïdes, Roxb. fl. ind. 3, p. 750;—J. Grah. Cat. B. pl. p. 200.—V. Jacquiniiana, Spreng. syst. 3, p. 900.) © N. America. S. France. N. Italy. N. Holland. Coromandel. The Concans. Patna, &c. Fl. small, R. S. (Roxb.)



2. *alternifolia*, Roxb. (*fl. ind.* 3, p. 750;—*Wight. in Hook. bot. misc.* 3, p. 344, t. 11;—*J. Grah. Cat. B. pl.* p. 199.) *রসুনকীজি* *Rugnejhanji*.
© Coromandel. The Concans. Bengal, (Serampore.) Silhet. Fl. very small, R. S.; fr. C. S.

BLYXA, Pet. Th. (*Gen. madagasc.* No. 14;—*L. C. Rich. in Mém. d'inst.* [1811.] 2, p. 63, t. 4, 5;—*Endl. gen. pl.* 1, p. 161.)

1. *octandra*, Rich. (*l. c.*—*Vallisneria octandra*, *Roxb. Corom.* 2, t. 165; *fl. ind.* 3, p. 752;—*Spreng. syst.* 3, p. 900; excl. syn. L.;—*J. Grah. Cat. B. pl.* p. 199.—*Saivala valisnerioides*, *Hb. Buch.*) *পাটী শেয়ালী* *Pata-seyala*. © Coromandel. The Concans. Bengal, (Serampore.) Nepal. Fl. small, white. R. S.; fr. C. S.

C. STRATIOTEA, (*Stratiotidæ*, *Endl. gen. pl.* 1, p. 162.)

ENHALUS, L. C. Rich. (*Endl. l. c.*)

1. *acoroïdes*, L. C. Rich. (*l. c.*—*Stratiotes acoroïdes*, L.;—*Spreng. syst.* 2, p. 467;—*J. Grah. Cat. B. pl.* p. 251.—*Acorus marinus*, *Rumph.* 6, p. 191, t. 75, f. 2.) © Moluccas. The Concans. Has been introduced into H. C. G.? The whole plant has a sulphureous smell. The fruit is eatable, as well raw, as when they are roasted under hot ashes, or boiled in water, when the nuts acquire the taste of boiled chesnuts. The natives of the Moluccas make nets of the tough threads which remain after the putrified leaves; these nets are said to be very durable in sea-water. (*Rumph.*)

OTTELIA, Pers. (*Syn.* 1, p. 400;—*L. C. Rich. Mém. d'inst.* [1811.]—*Endl. gen. pl.* 1, p. 162.)

1. *alismoïdes*, Pers. (*l. c.*;—*L. C. Rich. l. c.*—*Stratiotes alismoïdes*, L. *sp.* 754;—*Forsk. ag. p.* 101;—*Sm. exot. bot.* 1, p. 27, t. 15.—*Damasonium alismoïdes*, *R. Br. pr.* p. 344; annot.—*Damasonium indicum*, *Willd.*;—*Spreng. syst.* 2, p. 163;—*Schult. syst.* 8, p. 1593;—*Bl. en. pl. jav. fasc.* 1, p. 30;—*Roxb. Corom.* 2, t. 185; *fl. ind.* 2, p. 216;—*B. M.* 30, t. 1201;—*J. Grah. Cat. B. pl.* p. 200.—*Hymenotheca laxifolia*, *Salisb. MSS.*;—*Rheed.* 11, t. 46.) *পানী কলা* *Panee-kula*. © Sunda Islands. Ceylon. Coromandel. Bombay. The Concans. Melloon. Bengal, (Serampore.) Silhet. Assam. Nepal. Egypt. Fl. 1-2 inches in diameter, whitish, fugacious, longitudinally veined, R. S.; fr. C. S.

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- * *Vallisneria nana*, R. Br. © Tropical N. Holland.—*V. Physicum*, Juss. © Cochin China.—*Stratiotes aloides*, L.; *E. B.* 6, t. 379. © Europe.—*Boottia cordata*, Wall. *pl. as. rar.* 1, t. 65. Prome. Taong-Dong.—*Hydrocharis cellulosa*, *Hb. Buch.* Nathpur. Goruckpore. Silhet.—*Ottelia sessilis*, (*Damasonium sessile*, *Hb. Buch.*) Mahujadabad.—*O. javanica*, (*Damasonium javanicum*, *Bl.*) Java.—*O. ovalifolia*, (*Damasonium ovalifolium*, *R. Br.*) Port Jackson.—*O. tranquebariensis*, (*Damasonium tranquebariense*, *Hb. Schreber.*) Tranquebar.



ORDER CCXXXV.—ORCHIACEÆ, (ORCHIDACEÆ, Lindl. Nat. Syst. p. 336.)

THE ORCHIS TRIBE.

Herbs, found in almost all parts of the world, except upon the verge of the frozen zone, and in climates remarkable for dryness. In Europe, Asia, N. America, and New Holland they are seen growing every where,—in groves, in marshes, and in meadows; in the drier parts of Africa they are either rare or unknown; at the C. G. H. they abound in similar situations as in Europe; but in the hot damp parts of the W. and E. Indies, in Madagascar, and the neighbouring islands, in the damp and humid forests of Brazil, in the warm mild parts of central America, and W. Mexico! in the damp tropical parts of India, (in Assam, on the Khassya Mountains, on the lower mountains of Nepal, &c.) these Orchideous plants flourish in the greatest variety, and profusion, no longer seeking their nutriment from the soil, but clinging to the trunks and limbs of trees, to stones, and bare rocks, where they vegetate among ferns and other shade-loving plants, in countless thousands. The number of species of this tribe is unknown, but probably is not less than 1860?" (*Lindl.*)

Although the last fascicle of Lindl's genera and species of Orchideous plants has not come to hand, it is, perhaps, not too much to say, that the number of hitherto described Indian species of this order amounts to 700, which are thus distributed among the following divisions; *Malaxiæ*, 390; *Epidendrea*, 153; *Vandea*, 487; *Ophrydæ*, 449; *Arethuseæ*, 218; *Neotieæ*, 270; and *Cypripodiæ*, 23.

"It often happens, that those productions of nature which charm the eye with their beauty, and delight the senses with their perfume, have the least relation to the wants of mankind, while the most powerful virtues or most deadly poisons are hidden beneath a mean and insignificant exterior. Thus the Orchidaceæ beyond their beauty, can scarcely be said to be of known utility, with a few exceptions. The nutritive substance called *Salap*, has been said to be prepared from the subterraneous succulent roots of *Orchis mascula* and others; but it is now known from the enquiries of Royle, to be the produce of the tubers of a species of *Eulophia*; it consists almost entirely of a chemical principle called Bassorin, (*Turner*, 699.) The root of *Bletia verecunda* is said to be stomachic, (*Lunan*). Some of the S. American species, such as the *Catasetums*, *Cyrtopodiums*, &c. contain a viscid juice, which being inspissated by boiling, becomes a kind of vegetable glue used for economical purposes in Brazil." (*Lindl.*)

A. MALAXIÆ, (*Malaxidæ*, *Lindl. gen. and spec. orch. pl. p. 3*;—*Endl. gen. pl. p. 186.*)

PLEUROTHALLIS, R. Br. (*Lindl. o. c. p. 6.*)

1. *racemiflora*, *Lindl. (o. c. p. 6.*—*Epidendrum racemiflorum*, *Swz. pr.*
125.—*Dendrobium racemiflorum*, *Swz.; fl. occid. 1543*;—*Willd. No.*



- 2.) 4. Paras. Highest Mountains of Jamaica. Introduced in 1840. Has not fl.
- OCTOMERIA, Lindl. (*gen. and sp. orch. pl. p. 10.*)
1. *graminifolia*, R. Br. (*B. M.* 54, t. 2764.—*B. Cab.* 19, 1891.—*Part. Mag.* 1, p. 156, cum. fig. ad. p. 155.) Terrestr. W. Indies.
- STELIS, Swz. (*Hook. exot. fl.* 3, t. 158;—*Lindl. gen. and sp. orch. pl. p. 12.*)
1. *micrantha*, Swz. 4. Paras. Jamaica.
- OBERONIA, Lindl. (*gen. and sp. orch. pl. p. 15.*)
1. *iridifolia*, Lindl. (*l. c.*—*Malaxis ensiformis*, Sm.—*Cymbidium iridifolium*, Roxb. *fl. ind.* 3, p. 458.) 4. Paras. Ceylon. Khassya Mountains. Nepal. Otaheite. Fl. minute, yellow. Oct. and Nov.
- LIPARIS, L. C. Rich. (*Lindl. gen. and sp. orch. pl. p. 26*;—*Endl. gen. pl. p. 189.*)
1. *bracteata*, Wall. Upper Assam. Fl. July, 1836.
2. *concinna*, Wall. do. do. Scarcely different from No. 1.
3. *anceps*, Wall. Khassya Hills.
4. *cylindrostachya*, Wall. 4. Khassya Mountains. Has been introduced into H. C. G. Fl.?
5. *canaliculata*, Wall. Nepal.
6. *odorata*, Lindl. (*gen. and spec. orch. pl. p. 26*.—*Malaxis odorata*, Willd.—*Rheed.* 12, p. 55, t. 28.) Fl. sweet-scented, yellowish-green. Kemaon. Terrest.
- OTOCHILUS, Lindl. (*Lindl. gen. and sp. orch. pl. p. 35*;—*Endl. gen. pl. p. 189.*)
1. *albus*, Lindl. 4. Paras. Nepal. 1818. Fl. inodorous. Lip at the base yellow. Column greenish.
2. *fuscus*, Lindl. (*l. c.*—*Wall. pl. as. rar.* 1, t. 66.) 4. Paras. Nepal. Fl. middle-sized, rosy-white, fragrant, January.
- PHOLIDOTA, Lindl. (*gen. and sp. orch. pl. p. 36*;—*Endl. gen. pl. p. 190.*)
1. *imbricata*, Lindl. (*l. c.*;—*Hook. exot. fl. t. 138*, not *B. Reg.* 14, t. 1213;—*B. Reg.* 21, t. 1777;—*Lodd. B. Cab. t.* 1934.—*Cymbidium imbricatum*, Roxb. *fl. ind.* 3, p. 460;—*J. Grah. Cat. B. pl. p. 204*.—*Ptilocnema bracteatum*, D. Don. *pr. fl. nep. p. 33*;—*Rheed.* 12, t. 24.) 4. Paras. Ceylon. Coromandel. Bombay. Chittagong. Khassya Mountains. Nepal. Fl. small, greyish-lilac, Sept. and Oct.
2. *undulata*, Wall. (*in B. Reg.* 14, sub. Ph. *imbricata*.) 4. Paras. Khassya Hills. Fl. brownish, lip pale brick-coloured. Fl. white, at the base of the apex of the lip yellowish.
3. *articulata*, Lindl. (*o. c. p. 38.*) 4. Paras. Khassya Mountains. Introduced in 1840. Has not fl.
4. *ophiocephala*, Lindl. (*B. Reg.* 24, p. 34, No. 48.) 4. Mexico. Fl. 1841.
- CORLOGYNE, Lindl. (*gen. and sp. orch. pl. p. 38*;—*Endl. gen. pl. p. 190.*)
1. *flavida*, Wall. MSS. 4. Paras. Khassya Mountains. In H. C. G. Fl.?



2. *radulata*, Wall. MSS. 2. Paras. Khassya Mountains. In H. C. G. Fl. ?
3. *fimbriata*, Lindl. (*B. Reg.* 11, t. 868.) Nepal. China. Fl. yellowish-green.
4. *barbata*, Wall. MSS. 2. Paras. Khassya Mountains. In H. C. G. Fl. ?
5. *longicaulis*, Wall. Khassya Hills. 1837.
6. *procera*, Wall. Khassya Hills. 1837.
7. *cristata*, Lindl. Nepal. 1836. Fl. white, large, scented, divaricate.
8. *decora*, Wall. MSS. 2. Paras. Khassya Mountains. In H. C. G. Fl. ?
9. *rigida*, Wall.
10. *Wallichiana*, Lindl. (*o. c. p.* 43;—*Wall. pl. as. rar.* 1, t. 54;—*B. Reg.* 1838, *app. p.* 85;—*Part. Mag.* 6, t. 15.) 2. Paras. Khassya Mountains. Fl. large, deep rose-coloured, scentless, C. S.
11. *præcox*, Lindl. (*l. c.*—*Epidendrum præcox*, *Sm. exot. bot.* t. 97.—*Cymbidium præcox*, *Sm. in. Rees' encycl.*—*Pleione præcox*, *D. Don. pr. fl. nep. p.* 37.) 2. Paras. Fl. largish, purple, with the limb of the labellum white, C. S.
12. *maculata*, Lindl. (*l. c.*;—*Wall. pl. as. rar.* 1, t. 53.) 2. Paras. Khassya Mountains. Fl. large, white, fragrant. The lip variegated with yellow and purple, C. S.
13. *interrupta*, Wall. Khassya. Is this different from the following ?
14. *prolifera*, Lindl. (*B. Reg.* 3 ser, 1, p. 44.) Nepal. 1821. Fl. greenish yellow.
15. *nitida*, Lindl. (*l. c.*—*Cymbidium nitidum*, *Roxb. fl. ind.* 3, p. 459.) 2. Paras. Garrow Hills. Khassya Mountains. Nepal. Fl. large, nearly white, May.
16. *ocellata*, Lindl. (*l. c.*;—*B. Reg.* 1839, *app. p.* 31;—*B. M.* 66, t. 3767.) 2. Paras. Khassya Mountains. Sirmore. Kemaon. Fl. large, white, lip-tinged with yellow, veined with orange, each lateral lobe having a large ocellated orange spot, and the terminal one 3 smaller spots at the base, C. S.
17. *media*, Wall. MSS. 2. Paras. Khassya Mountains. Has been introduced into H. C. G. Fl. ?
18. *elata*, Lindl. (*o. c. p.* 40;—*Wall. pl. as. rar.* 3, t. 218;—*B. Reg.* 1839, *app. p.* 92.) 2. Paras. Khassya Mountains. Nepal. Fl. largish, white, inodorous, C. S.
19. *ovalis*, Lindl. (*B. Reg.* 1838, *app. p.* 91.) 2. Paras. Nepal. Kemaon. Introduced into H. C. G. Fl. ?
20. *Gardneriana*, Lindl. (*l. c.*—1837.—*Part. Mag.* 6, t. 73.) Fl. very large, white, immaculate.
- MEGACLINIUM, Lintell. (*gen. and sp. orch. pl. p.* 47.)
1. *falcatum*, Lindl. (*l. c.*;—*B. Reg.* 12, t. 989.) Sierra Leona. Introduced in 1840. Has not fl.
2. *maximum*, Lindl. (*B. Reg.* 23, t. 1951.) Sierra Leona.

**BOLBOPHYLLUM**, Pet. Th. (*Lindl. gen. and sp. orch. pl. p. 47.*)

1. *leopardinum*, Lindl. (*o. c. p. 48.*—*Dendrobium leopardinum*, Wall. *tent. fl. nep. 1, p. 39, t. 28.*) ♀. Paras. Chandagiri Mountain, Nepal. Fl. large, pale yellowish-green, spotted with purple. Has I believe fl. in H. C. G., not here.
 2. *auricomum*, Lindl. (*o. c. p. 50.*) ♀. Paras. Tavoy. Kyook-Phyoo. Introduced in 1840, but has not fl. yet.
 4. *umbellatum*, Lindl. (*o. c. p. 56.*) ♀. Paras. Khassya Mountains, Nepal. Fl. dull dirty-yellow, spotted with brown, 1838.
 3. *Careyanum*, Spreng. (*Syst. 3, p. 732*;—*Lindl. o. c. p. 51.*—*Pleurothallis purpurea*, D. Don. *fl. nep. p. 33.*—*Tribrachia purpurea*, Lindl. *coll.*—*Anisopetalum Careyanum*, Hook. *exot. fl. t. 149.*) ♀. Paras. Nepal. Martaban. In H. C. G. 1836.
 5. *flexuosum*, Wall. Khassya, 1836.
 6. *fuscescens*, Wall. Upper Assam. Capt. Jenkins, 1838. Very near B. *umbellatum*, L., but distinct.
 7. *coccinum*, Batein (*Lindl. B. R. 23, No. 1964.*) Sierra Leona. 1838.
 8. *serpens*, Wall. Khassya Hills. H. Inglis, 1838. Fl. June 1839. Very near *Bolbophyllum reptans*, Lindl., *Orch. p. 51.*—*Tribrachia reptans*, Coll. Bot. No. 41, f. A.
 9. *recurvum*, Lindl. (*Orch. 53.*—*Tribrachia pendula*, Lindl. *B. R. 12, 963.*) Sierra Leona.
 10. *Jenkinsii*, Wall. Assam, 1840.
- CIRRHOPETALUM**, Lindl. (*gen. and sp. orch. pl. p. 58*;—*Endl. gen. pl. p. 191.*)
1. *Roxburghii*, Lindl. (*l. c.*;—*Wall. pl. as. rar. 1, t. 67.*—*Aerides radiatum*, Roxb. *fl. ind. 3, p. 476.*) ♀. Paras. Soonderbuns. Fl. small, yellow, June and July. (Roxb.)
 2. *Lindleyanum*, Wall. Comes very near No. 1, Burma, 1828.
 3. *caespitosum*, Wall. MSS. (*B. Reg. 1838, app. p. 35.*) ♀. Paras. Khassya Mountains, 1836.
 4. *cornutum*, Lindl. (*B. Reg. 1838, app. p. 75.*) ♀. Paras. Khassya Mountains. Has been introduced into H. C. G. Fl. ?
 5. *macrophyllum*, Wall. Khassya Mountains. 1836.
- TRIAS**, Lindl. (*gen. and sp. orch. pl. p. 60*;—*Endl. gen. pl. 1, p. 191.*)
1. *oblonga*, Lindl. (*l. c.*;—*Wall. pl. as. rar. 1, t. 70.*) ♀. Paras. Moulmein. Fl. smallish, brownish-green, with a purplish labellum, March, 1836.
 2. *racemosa*, Wall. Khassya, 1836.
- ERIA**, Lindl. (*gen. and sp. orch. pl. p. 65*;—*Endl. gen. pl. 1, p. 192.*)
1. *paniculata*, Lindl. (*l. c.*—*Wall. pl. as. rar. 1, t. 36.*) ♀. Paras. Khassya Mountains, 1833.
 2. *flava*, Lindl. (*o. c. p. 65.*—*Dendrobium pubescens*, Hook. *exot. fl. t. 124.*—*Octomeria flava*, Wall.—*O. pubescens*, Spreng. *syst. 4, p. 310.*) ♀. Paras. Moulmein. Chappedong. Noakoti, Nepal. Khassya. 1810.



3. *pusilla*, Wall. MSS. 4. Paras. Khassya Mountains, 1836.
4. *densiflora*, Wall. 4. Paras. Khassya Mountains, 1835.
5. *clavicaulis*, Wall. Khassya, 1837.
6. *planiculis*, Wall. MSS. 4. Paras. Khassya Mountains. In H. C. G. Fl.?
7. *excavata*, Lindl. (o. c. p. 67;—*Wall. pl. as. rar.* 2, t. 160.) 4. Paras. Sheopore Mountains, Nepal. In H. C. G.
8. *pumila*, Lindl. (o. c. p. 68;—*B. Reg.* 1838, app. p. 79.) 4. Paras. Fl. small, membranous, slightly tinged with pink. In H. C. G.
9. *ferruginea*, Lindl. (*B. Reg.* 1839, t. 35.) 4. Paras. Khassya Mountains? In H. C. G. Fl.?
10. *convallarioides*, Lindl. (o. c. p. 70.—*Pinalia*, Lindl. *orch. scel.* No. 71, p. 23, with a plate.—*Pinalia alba*, Buch. MSS. in *D. Don. fl. nep.*—*Octomeria spicata*, *D. Don. pr. fl. nep.* p. 31.—*O. convallarioides*, Wall.) 4. Paras. Nepal. Khassya Mountains. Fl. small, white, inodorous, C. S.

APORUM, Bl. (*Lindl. gen. and sp. orch. pl.* p. 70;—*Endl. gen. pl.* 1, p. 192.)

1. *anceps*, Lindl. (o. c. p. 71;—*B. M.* 64, t. 3608.—*Dendrobium anceps*, Swz.;—*B. Reg.* 15, t. 1239;—*Spreng. syst.* 3, p. 438;—*Roxb. fl. ind.* 3, p. 487.) 4. Paras. Soonderbuns. Fl. middle-sized, pale yellowish-green, H. S.
2. *cuspidatum*, Wall. MSS. 4. Paras. Khassya. In H. C. G. Fl.? Like No. 1.

DENDROBIUM, Swz. (*Lindl. gen. and sp. orch. pl.* p. 74.)

1. *Pierardi*, Roxb. (*fl. ind.* 3, p. 482;—*Lindl. o. c.* p. 79, excl. syn. R. Br.;—*Hook. exot. fl.* t. 9;—*B. M.* 52, t. 2584;—*B. Reg.* 21, t. 1756.—*J. Grah. Cat. B. pl.* p. 204.) 4. Paras. Chappedong. Chittagong. Soonderbuns. Silhet. Fl. large, pale yellow, H. S.
3. *heterocarpum*, Wall. (*Lindl. o. c.* p. 78;—*Wall. pl. as. rar.* 2, t. 196.) 4. Paras. Nepal. Fl. large, pale-yellow, fragrant, H. S.
4. *chrysanthum*, Wall. (*Lindl. o. c.* p. 80;—*B. Reg.* 15, t. 1299.) 4. Paras. Nepal. Fl. large, intensely yellow, May.
5. *Paxtonii*, Lindl. (*B. Reg.* 1839, app. p. 43.) 4. Paras. Khassya Mountains. Fl. largish, orange-yellow, with a deep brown spot in the middle of the lip. In H. C. G.
6. *longicornu*, Lindl. (o. c. p. 80;—*B. Reg.* 16, t. 1315.) 4. Paras. Khassya Mountains. Nepal. Fl. large, with a yellow lined lip, inodorous, April.
7. *formosum*, Roxb. (*fl. ind.* 3, p. 485;—*Lindl. o. c.* p. 81;—*Wall. pl. as. rar.* 1, t. 39;—*B. Reg.* 1839, t. 64;—*Part.* 6, t. 49.) 4. Paras. Tavoy. Martaban. Khassya Mountains. Garrow Hills. Nepal. Fl. very large, pure white, sweet-scented, with the middle of the lip yellow. April and May.



8. *pulchellum*, Roxb. (*fl. ind.* 3, p. 486;—*Lindl. o. c. p.* 82.) ♀. Paras. Khassya Mountains. Fl. large, pale rose-coloured, May and June.
9. *Calceolus*, Roxb. (*fl. ind.* 3, p. 488.—*D. moschatum*, Wall.;—*D. Don. pr. fl. nep. p.* 34;—*Lindl. o. c. p.* 82.—*Epidendrum moschatum*, Buch. in *Syme's. emb.* 3, p. 315, with a plate.—*Rumph.* 6, t. 50, f. 3.) ♀. Paras. Amboyna. Pegu. Fl. very large, dull orange-coloured, slightly veined, with dull red, R. S.
10. *denudans*, D. Don. (*pr. fl. nep. p.* 34;—*Lindl. o. c. p.* 84;—*B. Reg.* 1838, *app. p.* 84.) ♀. Paras. Nepal. In H. C. G. Fl. ?
11. *crumenatum*, Swz. (*Lindl. o. c. p.* 88;—*Roxb. fl. ind.* 3, p. 480;—*B. Reg.* 1839, t. 22.—*Onychium crumenatum*, Bl.;—*Rumph.* 6, t. 47, 2.) ♀. Paras. Amboyna. Java. Sumatra. Penang. Fl. large, white, rose-tipped, with the disc of the labellum yellow, R. S.
12. *densiflorum*, Wall. (*Lindl. o. c. p.* 90;—*Wall. pl. as. rar.* 1, t. 40;—*Pact.* 5, 121.—*B. M.* 62, t. 3418;—*B. Reg.* 21, t. 1828.—*Epidendrum Dumunsutta*, Buch. in *Sm. Hb.*) ♀. Paras. Nepal. Fl. large, pale-yellow, with an orange-coloured lip, May.
13. *sulcatum*, Lindl. (*B. Reg.* 1838, t. 65.) ♀. Paras. Khassya Mountains. Fl. largish-yellow, with a tinge of orange. Has been introduced into H. C. G.
14. *aggregatum*, Roxb. (*fl. ind.* 3, p. 477;—*Pact. Mag.* 6, 145;—*B. Reg.* 20, t. 1695.) ♀. Paras. Chappedong. Fl. large, yellow, March.
15. *bicameratum*, Lindl. (*B. Reg.* 1839, *app. p.* 59.) ♀. Paras. Khassya Mountains. Fl. dull-yellow, spotted and streaked with purple. Has been introduced into H. C. G. Fl. ?
16. *Jenkinsii*, Wall. (*B. Reg.* 1839, t. 37.) ♀. Paras. Assam. Fl. large, yellow, March.
17. *coerulescens*, Wall. MSS. ♀. Paras. Khassya Mountains. Fl. large, bluish-purple, C. S.
18. *Gibsonii*, Pacht. (*Mag.* 6, t. 916.) ♀. Paras. Khassya Mountains? In H. C. G. Fl. ?
19. *candidum*, Wall. (*B. Reg.* 1838, *app. p.* 36.) ♀. Paras. Khassya Mountains. Fl. white, exquisitely scented. Has been introduced into H. C. G. Fl. ?
20. *stuposum*, Lindl. (*B. Reg.* 1838, *app. p.* 52.) ♀. Khassya Mountains. Fl. white, a little smaller than those of the preceding species. In H. C. G.
21. *Cambridgeanum*, Pacht. (*Mag.* 6, t. 265.—*D. fimbriatum*, *Pact. Mag.* 2, t. 172.) ♀. Paras. Rangoon. Fl. middle-sized, white. In H. C. G. fl. C. S. (*Roxb.*)
22. *flavum*, Roxb. ♀. Paras. Chittagong. In H. C. G. fl. Feb. and March. (*Roxb.*)
23. *pumilum*, Roxb. (*fl. ind.* 3, p. 279.) ♀. Chittagong. Fl. middle-sized, yellow, inodorous. In H. C. G. fl. R. S. (*Roxb.*)



24. *clavatum*, Roxb. (*fl. ind.* 3, p. 481;—*Wall. Cat.* ?) ♀. Paras. Garrow Hills. Khassya Mountains? Nepal? Fl. largish, lively-yellow. In H. C. G. fl. April and May. (*Roxb.*)
25. *purpureum*, Roxb. (*fl. ind.* 3, p. 484;—*Rumph.* 6, t. 50, f. 1.) ♀. Paras. Amboyna. Moulmein? Fl. small, lively-purple. In H. C. G. fl. Feb. and March. (*Roxb.*)
26. *pendulum*, Roxb. (*fl. ind.* 3, p. 484.) ♀. Paras. Chittagong. In H. C. G. fl. April and May. (*Roxb.*)

B. EPIDENDRÆÆ.

Lindl. gen. and sp. orch. pl. p. 95;—*Endl. gen. pl.* 1, p. 193.

EPIDENDRUM, L. (*Lindl. l. c.*;—*Endl. l. c.*)

1. *fragrans*, Swz. (*Lindl. o. c. p.* 97;—*B. M.* 40, t. 1669;—*B. Cub.* t. 1039.—*E. lineatum*, *Salisb.*) ♀. Paras. Jamaica. Introduced in 1840, but has not fl. yet.
2. *odoratissimum*, Lindl. (*o. c. p.* 99;—*B. Reg.* 17, t. 1415.—*Macradenia lutescens*, *Lodd. B. Cab.*, not R. Br.—*Encyclia patens*, *Hook.*; *B. M.* 57, t. 3013.) ♀. Paras. Rio Janeiro. Introduced in 1840. Has not fl.
3. *variegatum*, Hook. (*B. M.* 59, t. 3151.) ♀. Paras. Rio Janeiro. Introduced in 1840. Has not fl.

CATTLEYA, Lindl. (*gen. and sp. orch. pl.* p. 166;—*Endl. gen. pl.* 1, p. 194.)

1. *Forbesii*, Lindl. (*o. c. p.* 117;—*B. Reg.* 11, t. 933;—*B. M.* 60, t. 3265.) ♀. Paras. Brazil. Introduced in 1840. Has not fl.

SPATHOGLOTTIS, Bl. (*Lindl. o. c. p.* 119.)

1. *pubescens*, Lindl. (*o. c. p.* 120.) ♀. Terrest. Prome. Taong-Dong. Khassya Mountains. 1836. Fl. smallish, yellowish, C. S.

BLETIA, Ruiz, and Pav. (*Lindl. gen. and sp. orch. pl.* p. 120;—*Endl. gen. pl.* 1, p. 194.)

1. *verecunda*, R. Br. (*Lindl. o. c. p.* 121.—*Limodorum altum*, L.; *Jacq. icon. rar.* 3, t. 602;—*B. M.* 24, t. 930.—*L. verecundum*, *Salisb.*—*L. trifidum*, *Michx.*—*L. purpureum*, *Red.*—*Cymbidium verecundum*, Swz.; *Roxb. H. B. p.* 63.—*C. altum*, *Willd.*; *Pers.*—*Gyas verecunda*, *Salisb.*) ♀. Terrest. W. Indies. Jamaica, but found only in the cooler parts of the mountains, in dry and sandy situations. Fl. beautifully light purple, middle-sized, inodorous, and fr. R. and C. S.
2. *hyacinthina*, R. Br. (*Lindl. o. c. p.* 122.—*Limodorum striatum*, *Thunb. ic. pl. jap.* t. 9, p. 28.—*Epidendrum striatum*, *Thunb. act. soc. Linn.* 2, p. 327.—*Cymbidium striatum*, Swz.; *Roxb. H. B. p.* 63.—*C. hyacinthinum*, Sm. *exot. bot.* 1, t. 60;—*B. M.* 36, t. 1492.—*Gyas humilis*, *Salisb.*) ♀. Terrest. China. Japan. Fl. largish, beautifully bright-purple, inodorous, March and April; fr. O.

ARUNDINA, Bl. (*Lindl. o. c. p.* 125;—*Endl. gen. pl.* p. 195.)

1. *bambusifolia*, Lindl. (*l. c.*—*Cymbidium bambusifolium*, *Roxb. fl. ind.* 3, p. 460.—*Bletia graminifolia*, *D. Don. pr. fl. nep.* p. 29.) ♀. Ter.



rest. Chittagong. Khassya Mountains. Fl. largish, rosy, with the lip of a lively-red purple, inodorous, March and April, sometimes also May and June; fr. 0.

PHAIUS, Lour. (*Lindl. o. c. p. 126*;—*Endl. gen. pl. 1, p. 195.*)

1. *grandifolius*, Lour. (*Lindl. l. c.*—*Limodorum Tankervilleæ*, *Ait.*—*Roxb. fl. ind. 3, p. 466.*—*L. Incarvilla*, *Per.*—*Pachyne spectabilis*, *Salisb.*—*Bletia Tankervilleæ*, *R. Br.*; *B. M. 44, t. 1924.*) ♀. Terrest. China. Khassya Mountains. Fl. very large, many-veined, above sulphur-coloured, densely marked with rust-coloured dots, underneath white and crystallinely micant, inodorous, the lip whitish-yellowish, variegated with rose and purple, March and April; fr. 0.
2. *Wallichii*, Lindl. (*l. c.*;—*Wall. pl. as. rar. 2, t. 158.*—*P. grandifolius*, *Lindl. in. Wall. Cat. not Lour.*) ♀. Terrest. Khassya Mountains. Fl. very large, brown, inodorous with lip yellowish-white, variegated with rose-colour, March; fr. 0.
3. *albus*, Lindl. (*o. c. p. 128*;—*Wall. pl. as. rar. 2, t. 198*;—*J. Grah. Cat. B. pl. p. 205.*) ♀. Terrest. Khassya Mountains. Fl. very large, white, sweet-scented, the lip purple-veined with a yellow disc, April and May; fr. 0.
4. *maculatus*, Lindl. (*Orch. p. 127*—*Bletia Woodfordii*, *Hook.*; *B. M. 54, t. 2719.*) Khassya Mountains. 1836.

C. VANDEE.

Lindl. gen. and sp. orch. pl. p. 135;—*Endl. gen. pl. p. 195.*

MAXILLARIA, Ruiz. and Pav. (*Lindl. o. c. p. 142*;—*Endl. o. c. p. 196.*)

1. *Parkeri*, Hook. (*B. M. 54, t. 2729*;—*Lindl. o. c. p. 146.*) ♀. Paras. Demerara. Introduced in 1840. Has not fl.
2. *picta*, Hook. (*B. M. 59, t. 3154*;—*Lindl. l. c.*;—*B. Reg. 21, t. 1802.*) ♀. Paras. Organ Mountains. Brazil. Introduced in 1840. Has not fl.
3. *Harrisoniæ*, Lindl. (*o. c. p. 143*;—*B. Reg. 11, t. 897*;—*B. M. 56, t. 2927.*—*Dendrobium Harrisoniæ*, *Lindl.*—*Hook. exot. fl. t. 120.*—*Colax Harrisoniæ*, *Lindl.*; *B. Reg. 11, t. 897*;—*Spreng. syst. 3, p. 727.*) ♀. Paras. Rio Janeiro. Introduced in 1840. Has not fl.
4. *densa*, Lindl. (*B. Reg. 21, t. 1804.*) ♀. Paras. Mexico. Introduced in 1840. Has not fl.
5. *variabilis*, Lindl. ♀. Paras. Mexico.
β. *unipunctata*, Lindl. (*B. Reg. 1838, app. p. 23.*) ♀. Paras. Vera Cruz. Fl. smallish, deep-yellow, shaded with a faint greenish tinge, Feb.; fr. 0.

BIPERNARIA, Lindl. (*o. c. p. 152*;—*Endl. gen. pl. p. 197.*)

1. *aurantiaca*, Lindl. (*B. Reg. 22, t. 1875*;—*B. M. 64, t. 3597.*) ♀. Paras. Demerara. Introduced in 1840. Has not fl.

BATEMANNIA, Lindl. (*B. Reg. 20, t. 1714*;—*Endl. gen. pl. 1, p. 197.*)

1. *Colleyi*, Lindl. (*l. c.*) ♀. Paras. Demerara. Introduced in 1840. Has not fl.



DICRYPTA, Lindl. (*gen. and sp. orch. pl.* p. 152;—*Endl. gen. pl.* 1, p. 198.)

1. *Baueri*, Lindl. (*l. c.*—*Heterotaxis crassifolia*, Lindl.; *B. Reg.* 12, t. 1028;—*B. Cab. t.* 1651.) ♀. Paras. Jamaica. Introduced in 1840.

CATASETUM, L. C. Rich. (*Lindl. o. c. p.* 155;—*Endl. l. c.*)

1. *tridentatum*, Hook. (*Exot. fl. t.* 90, 91;—*B. M.* 52, t. 2559;—*Lindl. l. c.*—*C. Claveringi*, Lodd. *B. Cab. t.* 1344.) ♀. Paras. Equinoctial America. Introduced in 1840. Has not fl.
2. *turidum*, Lindl. (*o. c. p.* 156;—*B. Reg.* 20, t. 1667;—*B. M.* 64, t. 3594;—*Anguloa lurida*, Lk.) ♀. Paras. Brazil. Introduced in 1840. Has not fl.

STANTHOPEA, Hook. (*Lindl. o. c. p.* 157;—*Endl. gen. pl.* 1, p. 198.)

1. *grandiflora*, Lindl. (*o. c. p.* 158.—*Ceratochilus grandiflorus*, Lodd.—*B. Cab. t.* 1414.) ♀. Paras. Trinidad. Introduced in 1840. Has not fl.
2. *oculata*, Lindl. (*l. c.*;—*B. Reg.* 21, t. 1800.—*Ceratochilus oculatus*, Lodd.; *B. Cab. t.* 1764.) ♀. Paras. Mexico. Introduced in 1840. Has not fl.

GONGORA, Ruiz. and Pav. (*Lindl. o. c. p.* 158;—*Endl. gen. pl.* 1, p. 199.)

1. *atropurpurea*, Hook. (*Exot. fl. t.* 178;—*Lindl. o. c. p.* 159;—*B. M.* 60, t. 3220.) ♀. Paras. Trinidad. Introduced in 1840. Has not fl.

CYMBIDIUM, Swz. (*Lindl. o. c. p.* 161;—*Endl. gen. pl.* 1, p. 199.)

1. *sinense*, Willd. (*Lindl. o. c. p.* 162;—*Roxb. H. B.*—*C. fragrans*, *Salisb.*—*Epidendrum sinense*, *Andr.*; *B. Repos.* 3, t. 216;—*B. M.* 23, t. 888.) ♀. Paras. China. In H. C. G. fl. Nov. Dec. and Jan. (*Roxb.*)
2. *giganteum*, Wall. (*Lindl. o. c. p.* 163, not Swz.—*Limodorum longifolium*, *Buch.*) ♀. Paras. Nepal. Khassya Mountains. Fl. brownish-purple, margined with yellowish, March, 1836.
3. *lancifolium*, Hook. (*Exot. fl. t.* 51;—*B. Cab.* 10, t. 927.—*Lindl. o. c. p.* 164.) ♀. Paras. Nepal. In H. C. G. fl. ?
4. *aloifolium*, Swz. (*Lindl. o. c. p.* 165;—*Roxb. fl. ind.* 3, p. 458.—*J. Grah. Cat. B. pl.* p. 203.—*Epidendrum aloifolium*, *L.*—*B. M.* 11, t. 387.—*Aerides Borassii*, *Sm. in Rees' cycl.*—*Rheed.* 12, t. 8.) ♀. Paras. Peninsula of India. Garrow Hills. Khassya Mountains. Penang. Ava. Fl. large, dull purple, marked with deeper stripes, whitish-edged, somewhat sweet-scented, March and April; fr. 0.
5. *pendulum*, Swz. (*Lindl. l. c.*;—*Roxb. fl. ind.* 3, p. 458;—*J. Grah. Cat. B. pl.* p. 203.—*C. crassifolium*, *Wall. Cat.*—*Epidendrum pendulum*, *Roxb. Corom.* 1, t. 44.) ♀. Paras. Peninsula of India. Khassya Mountains. Fl. striated with red and yellow. In H. C. G. fl. H. S.; fr. 0.
6. *Gibsonii*, Wall. MSS. ♀. Paras. Khassya Mountains. In H. C. G. fl. ?
7. *triste*, Willd. (*Lindl. o. c. p.* 167;—*Roxb. fl. ind.* 3, p. 461;—*B. M.* 65, t. 3648.—*Part. Mag.* 5, p. 91;—*Epidendrum teres*, *Thunb.*—*E. triste*, *Forst.*—*Luisia teretifolia*, *Gaudich.*) ♀. Paras. New Caledonia.

- Marianne Islands. Japan. Nepal. Soonderbuns. Ceylon. Fl. small, pale green, inodorous. March and April; fr. rare.
8. *aphyllum*, Swz. (*Roxb. fl. ind. 3, p. 462*;—*J. Grah. Cat. B. pl. p. 203*.—*Limodorum aphyllum*, *Roxb. Corom. 1, t. 41*.) 2. Dry rocky places on the Coast of Coromandel. Fl. pale sulphur. In H. C. G. it fl. once at the beginning of the H. S. (*Roxb.*)
9. *alatum*, *Roxb. (fl. ind. 3, p. 459)*. 2. Paras. Soonderbuns. Chittagong. Fl. small, tinged with ferruginous-red. April and May. (*Roxb.*)
10. *striatum*, Wall. Khassya Mountains. 1836.
11. *inconspicuum*, Wall. Assam, 1837.
12. *longipetalum*, Wall. Khassya Mountains. 1836.
13. *Mastersii*, Wall. Khassya Mountains. 1837.
- ACROTERA, Lindl. (*o. c. p. 172*;—*Endl. gen. pl. 1, p. 199*.)
1. *Loddigesii*, Lindl. (*l. c.*;—*B. M. 64, t. 3563*.—*Maxillaria galeata*, *Lindl. in Lodd. B. Cab. 17, t. 1645*.) 2. Paras. Mexico. Introduced in 1840. Has not fl.
- GRAMMATOPHYLLUM, Bl. (*Lindl. o. c. p. 173*;—*Endl. gen. pl. 1, p. 200*.)
1. ? *Finlaysonianum*, Lindl. (*l. c.*) 2. Paras. Penang. Has been introduced into H. C. G. Fl. ? 1823.
- GEODORUM, JACKS. (*Lindl. o. c. p. 175*;—*Endl. gen. pl. 1, p. 200*.)
1. *purpureum*, R. Br. (*Lindl. l. c.*—*Limodorum nutans*, *Roxb. Corom. 1, t. 40*; *fl. ind. 3, p. 470*.—*Malaxis nutans*, *Willd.*—*M. cernua*, *J. Grah. Cat. B. pl. p. 203*.) 2. Terrest. Coromandel. S. Concan. Bengal, (Serampore,) &c. Fl. largish, pale rose-coloured, inodorous, H. and R. S.; fr. C. S.
2. *dilatatum*, B. R. (*Lindl. l. c.*—*B. R. 8, t. 675*.—*B. Cab. 18, t. 1797*.—*Limodorum recurvum*, *Roxb. Corom. 1, t. 39*; *fl. ind. 3, p. 469*;—*Swz.*—*Willd.*—*Malaxis cernua*, *Willd.*—*Otandra cernua*, *Salisb.*—*As-tella cernua*, *Bl. Rheed. 11, t. 25*.) 2. Terrest. Java. Circars. Bengal, (Serampore,) &c. Fl. middle-sized, white, with a small tinge of yellow, June and July; fr. C. S.
3. *pallidum*, Don. (*pr. fl. nep. p. 31*;—*Lindl. o. c. p. 176*, excl. syn. *Geodori candidi*, Wall.) 2. Terrest. Nepal.
4. *candidum*, Wall. (*Cat. not Limodorum candidum*, *Roxb.*) 2. Terrest. Moulinein. Fl. middle-sized, white, the lip tinged with rose, June and July; fr. Aug. and Sept. fragrant. Comes near to *G. citrinum*, but is quite distinct.)
- ? 5. *bicolor*, (*Limodorum bicolor*, *Roxb. fl. ind. 3, p. 469*.) 2. Terrest. Interior of Bengal. Fl. large, fragrant, green and pure white. In H. C. G. fl. June. (*Roxb.*)
- ? 6. *longifolium*, (*Limodorum longifolium*, *Roxb. fl. ind. 3, p. 468*.) 2. Terrest. Khassya Mountains. Fl. large, rosy. In H. C. G. fl. C. S. (*Roxb.*)
- ? 7. *ramentaceum*, (*Limodorum ramentaceum*, *Roxb. fl. ind. 3, p. 467*.) 2.



- Terrest. N. Bengal. Fl. largish, greenish-pink. In H. C. G. fl. March. (*Roxb.*)
28. *bracteatum*, (*Limodorum bracteatum*, *Roxb. fl. ind.* 3, p. 466.) 2. Terrest. Garrow Hills. Fl. large, white. In H. C. G. fl. July and Aug. (*Roxb.*)
29. *plicatum*, (*Limodorum plicatum*, *Roxb. fl. ind.* 3, p. 465;—*Rumph.* 6, t. 52, f. 1.) 2. Terrest. Sumatra. Fl. largish, of a mixture of yellow, green, and purple. In H. C. G. fl. July and Aug. (*Roxb.*)
- ACANTHOPHIPPIUM, Bl. (*Lindl. o. c. p.* 177;—*Endl. gen. pl.* 1, p. 200.)
1. *silhetense*, Lindl. (*l. c.*) 2. Terrest. Khassya Mountains. Fl. very large, white, inodorous. Has been introduced into H. C. G. Fl. ? (The specific name ought to be altered to *khassyanum*.)
- EULOPHIA, R. Br. (*Lindl. o. c. p.* 180.)
1. *virens*, R. Br. (*Lindl. o. c. p.* 182;—*J. Græh. Cat. B. pl.* p. 202. —*Serapias epidendræa*, *Retz.*—*Limodorum virens*, *Willd.*;—*Roxb. Corom.* 1, t. 38; *fl. ind.* 3, p. 467;—*Swz.*—*L. epidendröides*, *Willd.*—*Rheed.* 12, t. 25.) 2. Terrest. Ceylon. Coromandel. Bengal. Fl. largish, greenish-yellow-striated, C. S.
2. *fusca*, Wall. Burma. 1827. In H. C. G.
- CYRTOPODIUM, R. Br. (*Lindl. o. c. p.* 188;—*Endl. gen. pl.* 1, p. 200.)
1. *Andersonii*, R. Br. (*Lindl. l. c.*;—*B. M.* 43, t. 1800.—*Cymbidium Andersonii*, *B. Repos.* t. 651.) 2. Terrest. W. Indies. Introduced in 1840. Has not fl.
2. *punctatum*, Lindl. (*l. c.*;—*B. M.* 53, t. 3507.—*Epidendrum punctatum*, *L.*) 2. Terrest. St. Domingo. Introduced in 1840. Has not fl.
- CYRTOPEEA, Lindl. (*o. c. p.* 189;—*Endl. gen. pl.* 1, p. 201.)
1. *flava*, Lindl. (*l. c.*—*Royl. ill.* t. 88, f. 1.) 2. Terrest. Mussooree, 1841. Has been introduced into H. C. G. Fl. ?
2. *plicata*, Lindl. (*o. c. p.* 190.) 2. Terrest. Morung Mountains, 1839. Has been introduced into H. C. G. Fl. ?
- CRYPTOCHILUS, Wall. (*Lindl. o. c. p.* 193;—*Endl. gen. pl.* 1, p. 202.)
1. *sanguineus*, Wall. (*Tent. fl. nep.* t. 26;—*Lindl. l. c.*) 2. Terrest. Nepal. 1816, in H. C. G. Fl. ?
- BRASSIA, R. Br. (*Lindl. o. c. p.* 212;—*Endl. gen. pl.* 1, p. 203.)
1. *maculata*, R. Br. (*Lindl. l. c.*;—*B. M.* 41, t. 1691.) 2. Paras. Jamaica. Introduced in 1840. Has not fl.
- PHALÆNOPSIS, Bl. (*Lindl. o. c. p.* 213;—*Endl. gen. pl.* 1, p. 204.)
1. *amabilis*, Bl. (*Lindl. l. c.*—*Epidendrum amabile*, *L.*—*Cymbidium amabile*, *Roxb. fl. ind.* 3, p. 457;—*Paxt. Mag.* 7, t. 49;—*Rumph.* 6, t. 43.) 2. Paras. Amboyna. Fl. very large, pure white, fragrant. In H. C. G. fl. April and May. (*Roxb.*)
- VANDA, R. Br. (*Lindl. o. c. p.* 215;—*Endl. gen. pl.* p. 204.)
1. *Roxburghii*, R. Br. (*Lindl. l. c.*;—*B. Reg.* 6, t. 506;—*B. M.* 48, t. 2245;—*J. Græh. Cat. B. pl.* p. 204.—*Cymbidium teselloides*, *Roxb. fl. ind.* 3, p. 463.) 2. Paras. Bengal, (Serampore,) &c. Fl. largish,

inodorous, above checkered with yellow and dusky ferruginous purple, beneath white, H. and R. S.

2. *multiflora*, Lindl. (*o. c. p.* 216 ;—*coll. bot. t.* 36.—*Aërides rigidum*, Sm. in *Rees' cycl.*) 4. Paras. China. Nepal. Fl. smallish, yellow, with blood-coloured stains. In H. C. G. Fl. ?

3. *teres*, Lindl. (*o. c. p.* 217 ;—*B. Reg.* 21, *t.* 1809.—*Dendrobium teres*, Roxb. *fl. ind.* 3, *p.* 485.) 4. Paras. Chittagong. Khassya Mountains. Fl. 4 inches, lively rose-coloured with a rust-coloured horn. April and May.

4. *cristata*, Lindl. Nepal. 1821.

RENANTHERA, Lour. (*Lindl. o. c. p.* 217 ;—*Endl. gen. pl.* 1, *p.* 204.)

1. *coccinea*, Lour. (*Lindl. l. c.* ;—*B. Reg.* 14, *t.* 1131 ;—*B. M.* 57, *t.* 2997-8.—*B. R.* 21, *t.* 1809.) 4. Paras. Cochin China, 1837. Has been introduced into H. C. G. Fl. ?

CAMAROTIS, Lindl. (*o. c. p.* 219 ;—*Endl. gen. pl.* 1, *p.* 204.)

1. *purpurea*, Lindl. (*o. c.* *Aërides rostratum*, Roxb. *fl. ind.* 3, *p.* 474.—*Part. Mag.* 7, *t.* 25.) 4. Paras. Khassya Mountains, 1836. Has been introduced into H. C. G. Fl. ?

MICROPERA, Lindl. (*o. c. p.* 219 ;—*Endl. gen. pl.* 1, *p.* 205.)

1. *pallida*, Lindl. (*l. c.* ;—*B. Reg.* 18, *t.* 1522, *annot.*—*Aërides pallidum*, Roxb. *fl. ind.* 3, *p.* 475.) 4. Paras. Chittagong. Khassya Mountains. Fl. small, white or pale yellowish, with a faint tinge of rose, May and June.

SACCOLABIUM, Bl. (*Lindl. o. c. p.* 220 ;—*Endl. gen. pl.* 1, *p.* 205.)

1. *micranthum*, Lindl. (*l. c.* ;—*B. Reg.* 1839, *app. p.* 38.) 4. Paras. Nepal. Khassya Mountains. Bengal, (Serampore.) Fl. small, violet rose-coloured, H. S.

2. *retusum*, (S. *guttatum*, Lindl. *l. c.*—*Epidendrum retusum*, L. ;—*Limodorum retusum*, Swz.—*Aerides retusum*, Swz.—*J. Grah. Cat. B. pl.* *p.* 204.—*A. guttatum*, Roxb. *fl. ind.* 3, *p.* 471.—*Sarcanthus guttatus*, Lindl. ;—*B. Reg.* 17, *t.* 1443.) 4. Paras. Java. Peninsula of India. Chittagong. Dacca. Khassya Mountains. Nepal. Fl. largish, white, spotted with rose-violet, H. and R. S.

3. *rigidulum*, Wall. Khassya Mountains. 1829.

4. *carinatum*, Wall. Khassya Mountains. 1827.

5. *papillosum*, Lindl. (*l. c.* ;—*B. Reg.* 18, *t.* 1552.—*Cymbidium præmorsum*, Swz. ;—*Roxb. fl. ind.* 3, *p.* 465 ;—*J. Grah. Cat. B. pl.* *p.* 203.—*Epidendrum præmorsum*, Roxb. *Corom.* 1, *t.* 43.—*Aërides undulatum*, Sm. in *Rees' cycl.* ;—*Rheed.* 12, *t.* 4.) 4. Paras. The Circars. Prome. Fl. small, variegated with red and yellow, H. S.

6. *calceolare*, Lindl. (*o. c. p.* 223 ;—*B. M.* 38, *app. p.* 75.) 4. Paras. Khassya Mountains, Nepal. Fl. small, yellow, blotched with reddish-brown. In H. C. G.

CECROCLADES, Lindl.

1. *ampullacea*, Lindl. (*Wall. Cat.*—*Saccolabium rubrum*, Lindl. *l. c. p.*



222?—*Aërides ampullaceum*, Roxb. *fl. ind.* 3, p. 476.) ♀ Paras. Moulmein, Garrow Hills. Khassya Mountains, 1836. Nepal. Fl. small, rosy, May and June. (Roxb.)

SARCANTHUS, Lindl. (*o. c. p.* 233;—*Endl. gen. pl.* 1, p. 206.)

1. *oxyphyllus*, Wall. Khassya Mountains. 1837. In H. C. G. Fl. ?
2. *affinis*, Wall. Khassya Mountains. 1829. In H. C. G. Fl. ?
3. *juncus*, Wall. Assam, 1840. Very near *S. teretifolius*, Lindl. B. M. 64, t. 3571.

AERIDES, Lour. (*Lindl. o. c. p.* 238;—*Endl. gen. pl.* 1, p. 206.)

1. *odoratum*, Lour. (*R. Br.*—*Lindl. o. c. p.* 239.—*A. cornutum*, Roxb. *fl. ind.* 3, p. 472;—*B. Reg.* 18, t. 1485.) ♀ Paras. China. Cochin China. Moulmein. Chittagong. Dacca. Khassya Mountains. Fl. large, white, with a tinge of rose, sweetly fragrant, April.
 2. *affine*, Wall. (*Lindl. o. c. p.* 240.—*Epidendrum geniculatum*, Buch. MSS.) ♀ Paras. Assam. Khassya Mountains. Nepal. Fl. large, rose-coloured, with some darker spots, H. S.
 3. *refractum*, Wall. Khassya Mountains. 1833.
 4. *tesellatum*, Wight. (*Lindl. l. c.*—*Epidendrum tesellatum*, Roxb. *Corom.* 1, t. 42.—*Cymbidium tesellatum*, Swz.;—Roxb. *fl. ind.* 3, p. 462.) ♀ Paras. Circars. Fl. large, greenish-yellowish, striated, R. S. (Roxb.)
 5. *suaveolens*, Roxb. (*fl. ind.* 3, p. 473.) ♀ Paras. Chittagong. Fl. small, yellow, purple spotted, delightfully fragrant, H. S. (Roxb.)
 6. *rostratum*, Roxb. (*fl. ind.* 3, p. 474.) ♀ Paras. Forests of Silhet. Fl. rose-coloured, H. S. (Roxb.)
 7. *multiflorum*, Roxb. (*fl. ind.* 3, p. 475.) ♀ Paras. Silhet. Fl. largish, light purple and white, with purple dots, H. S. (Roxb.)
 8. *uncinatum*, Roxb. (*H. B.* p. 63.) ♀ Paras. Silhet. Fl. H. S. (Roxb.)
- CALANTHE, R. Br. (*Lindl. o. c. p.* 249;—*Endl. gen. pl.* 1, p. 207.)

1. *veratrifolia*, R. Br. (*Lindl. o. c. p.* 249;—*B. Reg.* 9, t. 720.—*Orchis triplicata*, Willm.—*Limodorum veratrifolium*, Willd.;—*Rumph.* 6, t. 52, f. 2.) ♀ Terrest. Java. Indian Archipelago. Ceylon. In H. C. G. Fl. ?
2. *densiflora*, Lindl. (*o. c. p.* 250;—*B. Reg.* 19, t. 1646.) ♀ Terrest. Khassya Mountains. 1836. In H. C. G. Fl. ?

D. OPHRYDÆ.

(*Ophrydæ*, Lindl. *gen. and sp. orch. pl.* p. 255;—*Endl. gen. pl.* 1, p. 208.)

PLATANTERRA, L. C. Rich. (*Lindl. o. c. p.* 284;—*Endl. o. c. p.* 209.)

1. *uniflora*, Lindl. (*o. c. p.* 295.—*Habenaria uniflora*, D. Don, *pr. fl. nep.* p. 25.—*Orchis uniflora*, Roxb. *fl. ind.* 3, p. 452.) ♀ Terrest. Garrow Hills. Khassya Mountains. Nepal. Fl. small, yellow, Aug. Sept. and Oct.

PRISTYLUS, Bl. (*Lindl. o. c. p.* 297;—*Endl. gen. pl.* 1, p. 209.)

1. *elatus*, Wall. MSS. Assam, 1837. In H. C. G. ?

HABERNARIA, Willd. (*Lindl. o. c. p.* 306;—*Endl. gen. pl.* 1, p. 210.)

1. *plantaginea*, Lindl. (*o. c. p.* 323.—*Gymnadenia plantaginea*, Lindl. in *Wall. Cat.*—*Orchis platyphyllos*, Roxb. *fl. ind.* 3, p. 450, not Willd.) 2. Terrest. Tenevelly, Travancore. Monghir. In H. C. G.
2. *platyphylla*, Spreng. (*l. c.*;—*J. Grah. Cat. B. pl.* p. 201, excl. syn. Roxb.—*Orchis plantaginea*, Roxb. *Corom.* 1, t. 37; *fl. ind.* 3, p. 450.—*O. platyphyllos*, Willd. not Roxb.—*O. Roxburghii*, Pers.) 2. Terrest. Circars, Vandalore. Fl. white, fragrant. In H. C. G.?
3. *commelinæfolia*, Wall. (*Lindl. o. c. p.* 325.—*Platanthera commelinæfolia* Lindl. in *Wall. Cat.*—*Orchis commelinæfolia*, Roxb. *fl. ind.* 3, p. 451;—*J. Grah. Cat. B. pl.* p. 201.) 2. Terrest. Burma. S. Concan. Bengal, (Serampore,) &c. Fl. largish, white, inodorous, July and Aug.; fr. C. S.
4. *tenuis*, Griff. 2. Terrest. Bengal, (Serampore.) Fl. small, yellow. R. S.
5. *marginata*, Coleb. MSS. (*Hook. Ex. Fl.* t. 136.—*Lindl. gen. sp. orch.* p. 320.) 2. Terrest. Bengal, (Serampore.) Fl. small, green, R. S.

SATYRIUM, Swz. (*Lindl. o. c. p.* 335;—*Endl. gen. pl.* 1, p. 211.)

1. *cucullatum*, Thunb. (*fl. cap. ed. Schult.* p. 17;—*Lindl. o. c. p.* 339;—*B. Reg.* 5, t. 416, not Lodd.—*S. bicornis*, Thunb. *pr.* p. 6.—*Orchis bicornis*, L.; *B. Repos.* t. 315.) 2. Terrest. Hills near Cape Town. Introduced in March, 1841. Has not fl.

E. ARETHUSEÆ.

Lindl. gen. and sp. orch. pl. p. 381.

POGONIA, Juss. (*Lindl. o. c. p.* 413;—*Endl. gen. pl.* 1, p. 218.)

1. *juliana*, Wall. (*Lindl. o. c. p.* 414.—*Epipactis juliana*, Roxb. *fl. ind.* 3, p. 453.) 2. Terrest. Bengal, (Calcutta, Serampore,) &c. Fl. middle-sized, pale green, with a pale pink red mottled lip, June.
2. *carinata*, Lindl. (*l. c.*—*Epipactis carinata*, Roxb. *fl. ind.* 3, p. 454;—*J. Grah. Cat. B. pl.* p. 205.) 2. Terrest. Bengal, (Serampore,) &c. Fl. middle-sized, pale green with a purple veined and spotted pale greenish-yellow lip, April.
3. *plicata*, Lindl. (*o. c. p.* 415.—*Epipactis plicata*, Roxb. *fl. ind.* 3, p. 454.) 2. Terrest. Bengal, (Calcutta, Serampore,) &c. Fl. middle-sized, yellowish green, with a pale rose-coloured lip, May and June.
4. *viridiflora*, Wall. MSS. In H. C. G.
- ? 5. *trinervia*, (*Epipactis trinervia*, Roxb. *fl. ind.* 3, p. 455.) 2. Terrest. Moluccas. Has been introduced into H. C. G.?
- ? 6. *graminifolia*, (*Epipactis graminifolia*, Roxb. *fl. ind.* 3, p. 456.) 2. Terrest. Garrow Hills. Fl. middle-sized, yellow. Introduced into H. C. G. in 1812, but had not fl. in 1814.
- ? 7. *babianifolia*, (*Epipactis babianifolia*, Roxb. *H. B.* p. 63.) 2. Terrest. Garrow Hills. In H. C. G. fl. R. S. (Roxb.)

ANTHOGONIUM, Wall. (*Lindl. o. c. p.* 425.)

1. *gracile*, Wall. (*Lindl. l. c. p.* 426.) 2. Terrest. Khassya Mountains. Nepal. Fl. largish, blood-coloured, Feb.



VANILLA, Plum. (*Lindl. o. c. p. 434; Nat. syst. p. 341;—Endl. gen. pl. 1, p. 220.*)

1. *aromatica*, Swz. (*Lindl. l. c.*—V. flore viridi et albo, fructu nigricante, Plum. *ic. p. 183, t. 188.*—*Epidendrum Vanilla*, L.) ♀. Brazil, near Rio Janeiro. Minaes Geraes. Has not fl. here. The dried fruit is delightfully aromatic, and used in the manufacture of chocolate, liqueurs, and various articles of confectionery. (*Lindl.*)
2. *planifolia*, Andr. (*B. Repos. t. 538;—Lindl. o. c. p. 435;—Bl. Rumphia*, 1, p. 197, t. 68.—V. viridiflora, Bl.—*Myobroma fragans*, Salisb. *par. t. 82.*) ♀. W. Indies. Cultivated in India. Has not fl. here.

F. NEOTTIÆ.

Lindl. Nat. Syst. p. 341; Endl. gen. pl. 1, p. 212.

GOODYERA, R. Br. (*Endl. gen. pl. 1, p. 214.*)

1. *procera*, Hook. (*Exot. fl. t. 39;—Spreng. syst. 3, p. 703.*—*Neottia procera*, Wall.; *B. Reg. 8, t. 639.*) ♀. Terrest. Khassya Mountains. Nepal. Fl. smallish, white, C. S.

ZEUXINA, Lindl. (*B. Reg. 19, t. 1618. annot.;—Endl. gen. pl. 1, p. 216.*)

1. *sulcata*, Lindl. (*Wall. Cat.—Pterygodium sulcatum*, Roxb. *fl. ind. 3, p. 452.*) শ্বেত হুণী *Shwet-hoolee.* ♀. Terrest. Bengal, (Serampore,) &c. Fl. small, white, and fr. C. S.

ANOECTOCHILUS, Bl. (*B. Reg. 23, t. 2010;—Endl. gen. pl. 1, p. 216.*)

1. *Roxburghii*, Lindl. (*Chrysobaphus Roxburghii*, Wall.) ♀. Terrest. Khassya Mountains. Has not fl. here.

Q. CYPRIPEDIÆ.

Lindl. Nat. Syst. p. 341; Endl. gen. pl. 1, p. 220.

CYPRIPEDIUM, L. (*Spreng. syst. 3, p. 682, No. 3044;—Lindl. l. c.*)

1. *insigne*, Wall. (*Spreng. syst. 3, p. 746;—Lindl. coll. t. 32;—Hook. exot. fl. t. 34;—B. Cab. t. 1321;—B. M. 62, t. 3412.*) ♀. Terrest. Khassya Mountains. Nepal. Fl. very large, green, variegated with brownish and deep brown spots, C. S., but rare.
2. *venustum*, Wall. (*Spreng. l. c.;—B. M. 47, t. 2129;—B. Reg. 10, t. 788.*) ♀. Terrest. Khassya Mountains. Fl. large, white, green-striped, here purple haired, there marked with black spots and tinged with purple, C. S., but very rare.

Unknown to us, *Malaxis? plicata*, Roxb. (*fl. ind. 3, p. 456.*) ♀. Paras. Sumatra. Fl. very small, greenish-yellow. In H. C. G. fl. July. (*Roxb.*)

A number of other Orchiceæ have been introduced into H. C. G. chiefly from the Khassya Mountains, but we are not acquainted with their names.

- * *Octomeria graminifolia*, R. Br. B. M. 54, t. 2764, ♀. Terrest. W. Indies—*O. Baueri*, Lindl. ♀. Terrest. W. Indies.—*Chrysoglossum ornatum*, Bl. ♀. Terrest. Java.—*Microstylis Wallichii*, Lindl. ♀. Terrest. Khassya Mountains.—*Dienia congesta*, Lindl.; B. Reg. 10, t. 825. ♀. Ter-

rest. Nepal. China.—*D. calycina*, Lindl. ♀. Terrest. Mexico.—*D. Myurus*, Lindl. ♀. Terrest. Mexico.—*Liparis purpurascens*, Lindl. ♀. Bourbon. Mauritius.—*Spathoglottis plicata*, Bl. ♀. Terrest. Penang. Java.—*Bletia florida*, R. Br. ; B. Reg. 17, t. 1401. ♀. Terrest. Trinidad.—*B. obcordata*, Lindl. ♀. Terrest. Silhet.—*B. speciosa*, Kth. ♀. Terrest. Mexico.—*B. villosa*, A. Rich. ♀. Terrest. Mauritius.—*B. acutipetala*, Hook ; B. M. 60, t. 3217. ♀. Terrest. S. Carolina.—*B. Shepherdii*, Hook ; B. M. 61, t. 3319. ♀. Terrest. Jamaica.—*B. patula*, Hook ; B. M. 63, t. 3518. ♀. Terrest. Hayti.—*B. Parkinsonii*, Hook ; B. M. 66, t. 3736. ♀. Terrest. Mexico.—*Arundina chinensis*, Bl. ♀. Terrest. Java. China.—*Phaius maculatus*, Lindl. (*Bletia Woodfordii*, Hook ; B. M. 54, t. 2719.) ♀. Terrest. Nepal.—*Cytheris cordifolia*, Lindl. ♀. Terrest. Khassya Mountains.—*Apaturia senilis*, Lindl. ♀. Terrest. Khassya Mountains.—*Tainia speciosa*, Bl. ♀. Terrest. Java.—*Peristeria elata*, Hook ; B. M. 58, t. 3116. ♀. Terrest. Panama.—*P. pendula*, Hook ; B. M. 63, t. 3479. ♀. Terrest. Trinidad.—*Geodorum pictum*, Lindl. ♀. Terrest. Tropical N. Holland.—*G. citrinum*, Jacks. B. Repos. t. 626. ♀. Terrest. Chittagong.—*Acanthophippium javanicum*, Bl. ♀. Terrest. Java.—*Eulophia guineensis*, Lindl. B. Reg. 8, t. 686. ♀. Terrest. Guinea.—*E. graminea*, Lindl. ♀. Terrest. Singapore.—*Galeandra Baueri*, Lindl. ♀. Terrest. Guiana.—*Zygopetalum Mackayi*, Hook. (*Eulophia Mackaiana*, Lindl. ; B. Reg. 17, t. 1438.) ♀. Terrest. Brazil.—*Z. rostratum*, Hook ; B. M. 55, t. 2819. ♀. Terrest. Demerara.—*Cyrtopera Woodfordii*, Lindl. (*Cyrtopodium Woodfordii*, Hook ; B. M. 43, t. 1814.) ♀. Terrest. Trinidad.—*Cryptarrhena lunata*, R. Br. ; B. Reg. 2, t. 153. ♀. Terrest. Jamaica.—*Calanthe curculigoides*, Wall. ♀. Terrest. Penang. Singapore.—*Platanthera Susannæ*, Lindl. ; Rumph. 5, t. 99, f. 2. ♀. Terrest. Amboyna. Java. China. Nepal.—*P. robusta*, L. ♀. Terrest. Prome.—*Peristylus latifolius*, Lindl. ♀. Terrest. Bourbon. Mauritius.—*P. Hamiltonianus*, Lindl. ♀. Terrest. Morung Hills.—*P. goodyeroides*, Lindl. ♀. Terrest. Nepal.—*Caloglossum lacertiferum*, Lindl. ♀. Terrest. Tavoy.—*Habenaria digitata*, Lindl. ♀. Terrest. Khassya Mountains.—*H. macroceras*, Spreng. B. M. 56, t. 2947. ♀. Terrest. Jamaica.—*H. longicauda*, Hook ; B. M. 57, t. 2957. ♀. Terrest. Demerara.—*H. leptoceras*, Hook ; B. M. 54, t. 2726. ♀. Terrest. Rio Janeiro.—*H. elongata*, R. Br. ♀. Terrest. Tropical N. Holland.—*H. lucida*, Wall. ♀. Terrest. Rangoon.—*H. ochroleuca*, R. Br. ♀. Terrest. Tropical N. Holland.—*H. gigantea*, Hook ; B. M. 62, t. 3374. ♀. Terrest. Concans. Kandalla. Nepal.—*Thelymitra canaliculata*, R. Br. ♀. Terrest. Tropical N. Holland.—*Diuris alba*, R. Br. ♀. Terrest. Tropical N. Holland.—*Calochilus campestris*, R. Br. ♀. Tropical N. Holland.—*Microtis parviflora*, R. Br. ♀. Tropical N. Holland.—*Catadenia alba*, R. Br. ♀. Tropical N. Holland.—*C. carnea*, R. Br. ♀. Tropical N. Holland.—*Pterostylis ophioglossa*, R. Br. ♀. Terrest. Tro-



ical N. Holland.—*Cynorchis fastigiata*, Pet. Th. 4. Terrest. Mauritius.—*Satyrium amoenum*, A. Rich. 4. Terrest. Bourbon.—*S. nepalense*, D. Don. 4. Terrest. Nepal. Khassya Mountains.—*Arnottia mauritiana*, A. Rich. 4. Terrest. Mauritius.—*Crybe rosea*, Lindl. 4. Terrest. Mexico.—*Vanilla bicolor*, Lindl. 4. Demerara.—*Neottia picta*, Sims.; B. M. 38, t. 1562. 4. Terrest. Trinidad.—*N. grandiflora*, Hook.; B. M. 54, t. 2730. 4. Terrest. Rio Janeiro.—*N. elata*, Swz.; B. M. 46, t. 2026. 4. Terrest. W. Indies.—*N. pudica*, Swt. (*Spiranthes pudica*, Lindl.; B. Reg. 7, t. 602.) 4. Terrest. China.—*N. bicolor*, Ker.; B. Reg. 10, t. 794. 4. Terrest. Trinidad.—*N. calcarata*, Swz.; B. M. 62, t. 3403. 4. Terrest. St. Domingo.—*N. aphylla*, Hook.; B. M. 55, t. 2797. 4. Terrest. Trinidad.—*N. plantaginea*, Hook. exot. fl. t. 226. 4. Terrest. Nepal.—*Goodyera discolor*, Ker.; B. R. 4, t. 271. 4. Terrest. S. America.—*Ulantha grandiflora*, Hook. (*Neottia? grandiflora*, Hook.; B. M. 57, t. 2956.) 4. Terrest. St. Vincent.—*Sauroglossum elatum*, Lindl.; B. Reg. 19, t. 1618. 4. Terrest. Brazil.—*Ponthieva glandulosa*, R. Br. (*Neottia glandulosa*, Sims.; B. M. 22, t. 842.) 4. Terrest. W. Indies.—*P. petiolata*, Lindl. (B. Reg. 9, t. 760.) 4. Terrest. St. Vincent.—*Pelexia spiranthoides*, Lindl.; B. Reg. 12, t. 985. 4. Terrest. W. Indies.—*Stenorrhynchus orchioides*, Rich. (*Neottia orchioides*, Swz.; B. M. 26, t. 1036.) 4. Terrest. Jamaica.—*S. speciosus*, Rich. (*Neottia speciosa*, Jacq.; B. M. 34, t. 1374.) 4. Terrest. W. Indies.

ORDER CCXXXVI.—APOSTASIACEÆ, Lindl. Nat. Syst. p. 342.

East Indian perennial herbaceous plants, by Lindl. referred to 3 genera. Properties unknown. (*Lindl.*)

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- * *Apostasia Wallichii*, R. Br. Wall. pl. as. rar. 1, t. 84, 4. Terrest. Nepal.—*A. nuda*, R. Br.; Wall. pl. as. rar. 1, t. 85, 4. Terrest. Penang.

ORDER CCXXXVII.—COCOACEÆ, (PALMACEÆ, Lindl. Nat. Syst. p. 343.)

THE PALM TRIBE.

"Inhabitants of the tropics of either world, they hardly range beyond 35° in the southern, or 49° in the northern hemisphere. Particular species scarcely extend beyond their own peculiar and contracted limits, on which account there are few countries favorable for their production in which some local and peculiar species are not found. The few that are dispersed



over many lands are chiefly *Cocos nucifera*, *Acrocomia sclerocarpa*, and *Borassus flabelliformis*. It is probable that the number of species thus scattered over the face of nature will be found to amount to 1000 or more. Of these, not a few love the humid banks of rivulets and streams; others occupy the shores of the ocean, and some ascend into alpine regions. Some collect into dense forests, others spring up singly in clusters over the plains, (*Martius*.) If this statement be true as to the probable number of Palms, how little can be known of their structure, seeing that not more than 175 are at this moment, (1836,) described, of which 119 are S. American, 14 African, and 42 E. Indian. The testimony of *Martius* is, however, confirmed by *Humboldt*, who also asserts that there must be an incredible number still to discover in equinoctial regions, especially if we consider how little is yet known of Africa, Asia, New Holland, and America. A different opinion is entertained by *Professor Schouw* of Copenhagen. He seems to consider that we are acquainted already with the greater part of the Palms; for he says, "it appears from the report of travellers that such Palm woods as those of S. America are less frequent in other parts of the world. Africa and N. Holland seem to be less favorable to this tribe, for on the Congo, *Smith* found only 3-4 Palms; in Guinea we know merely of the same number, and of the other Africa Palms, 6 belong to the Isles of Bourbon and France; New Holland has, in the torrid zone, three species, while *Forster's Prodrômus* of the Flora of the South Sea Islands contains four." "The most northern limit of Palms is that of *Chamaerops Palmetto*, *Michx.* in N. America, in lat. 34°-36°, and of *C. humilis*, in Europe, near Nice, in 43°-44° N. lat. They are found in the southern hemisphere as low as 38° in New Zealand." (*Lindl.*) In S. Africa has only been found 1 species, viz. *Phoenix reclinata*, *Jacq.* (*Harvey*.) Properties under the species.

A. ARECÆA.

(*Arecinæ*, *Mart.*;—*Endl. gen. pl.* 1, p. 245.)

CHAMÆDORÆA, Willd. (*Spreng. syst.* 2, p. 13, No. 1332;—*Endl. l. c.*)

1. *gracilis*, Willd. (*Spreng. syst.* 2, p. 136.) 5 S. America. Has been introduced into H. C. G. Fl.?

HYOPHORBE, Gärtn. (*Endl. gen. pl.* 1, p. 245.)

1. *indica*, Gärtn. (*fr.* 2, p. 186, t. 120, f. 1;—*Mart. palm.* 164, t. 143, f. 1.—*Areca lutescens*, *Bory.*; *Spreng. syst.* 2, p. 139.—*Sublimia*, *Commers. MSS.*) 5 Bourbon. Introduced in 1839. Has not fl.

OREODOXA, Willd. (*Endl. gen. pl.* 1, p. 247.)

1. *oleracea*, *Endl.* (*Areca oleracea*, *Jacq. amer.* 278, t. 170; *ed. pict.* 135, t. 235;—*Roxb. H. B.* p. 68.—*Euterpe caribæa*, *Spreng. syst.* 2, p. 140.) *Edible Cabbage Tree*. 5 W. Indies. Introduced into H. C. G. in 1807, but had not fl. up to 1814. In the Serampore garden it has now been cultivated for more than 15 years, without fl. The green top of the trunk is eaten in the W. Indies, both raw and cooked.

2. *regia*, *Humb.* and *Bonpl.* (*Schult. syst.* 8, p. 1491.—*Oenocarpus*

regius, *Spreng. syst.* 2, p. 140.) 5 Cuba, in the vicinity of Havannah. Has been introduced into H. C. G. Fl.?

ARECA, L. (*Spreng. syst.* 2, p. 13, No. 1345;—*Endl. gen. pl.* 1, p. 247.)

1. *Catechu*, L. (*Spreng. syst.* 2, p. 139;—*Roxb. Corom.* 1, t. 76; *fl. ind.* 3, p. 615;—*J. Grah. Cat. B. pl.* p. 225.—A. Fauvel, *Gärtn. fr.* 1, p. 19, t. 7, f. 2;—*Rheed.* 1, t. 5, 6, 7, 8;—*Rumph.* 1, t. 4.) *উই গুয়া* *Gooa. Betel-nut-palm.* 5 Native place unknown. Commonly cultivated all over India. Fl. small, white, fragrant. H. S.; fr. Aug. and Sept. The Betel-nut is remarkable for its narcotic and intoxicating power. A kind of spurious Catechu is prepared from it. (*Ainslie.*)

2. *Dicksonii*, Roxb. (*fl. ind.* 3, p. 616.) 5 Mountains of Malabar. In H. C. G. Fl. ? The poorer people use the nut as a substitute for the common Betel-nut; but no other part of the tree is turned to any useful purpose. (*Roxb.*)

3. *triandra*, Roxb. (*fl. ind.* 3, p. 617.) *বন উই* *Bun-gooa.* 5 Chittagong. Fl. minute. May to January; fr. April.

4. *gracilis*, Roxb. (*fl. ind.* 3, p. 619;—*J. Grah. Cat. B. pl.* p. 225.) *রাম উই* *Ram-gooa.* 5 S. Concan. Chittagong. Silhet. In H. C. G. Fl. Feb. and March; fr. R. S.

SEAPORTHIA, R. Br. (*pr.* p. 267;—*Spreng. syst.* 2, p. 563, No. 1990;—*Endl. gen. pl.* 1, p. 247.)

1. *elegans*, R. Br. (*l. c.*;—*Spreng. syst.* 2, p. 623.) 5 Tropical N. Holland. Introduced in 1839.

HARINA, Buch. (*Mem. Wern. soc.* 5, p. 312;—*Endl. gen. pl.* 1, p. 248.)

1. *caryotoïdes*, Buch. (*l. c.*—*Wallichia* (not DC.) *caryotoïdes*, *Roxb. Corom.* 3, t. 295.—*Wrightia* (not R. Br.) *caryotoïdes*, *Roxb. fl. ind.* 3, p. 621.) 5 Chittagong. Fl. R. S.; fr. C. S.

ARENGA, Labill. (*Mem. d'instit.* 4, p. 209;—*Endl. gen. pl.* 1, p. 248.)

1. *saccharifera*, Labill. (*Borassus Gomutus*, *Lour.*—*Saguerus Rumphii*, *Roxb. fl. ind.* 3, p. 626.—*Gomutus v. Saguerus*, *Rumph.* 1, t. 13.) 5 Moluccas. Sunda Islands. Cochin China. Malay Islands, &c. Fl. ♂ largish, yellow-purple, ♀ very small, H. and R. S.; fr. Feb. This palm yields sago, sugar, palm-wine, and from the black horse-hair-like fibres, surrounding the petioles of the leaves, very good cordage and cables. In Java and Baley, it is employed for making sugar. Its sap is boiled down to syrup, and allowed to concrete, but it always retains some degree of moisture. The best is of a yellowish-colour, the inferior kinds, called *saccharum nigrum*, which are blackish-coloured, are commonly mixed with the muscovados of the cane. The tree itself is highly desirable for cultivation in low situations near the coasts of India. One of the trees cut down in H. C. G. yielded about 150 pounds of good Sago meal. (*Roxb. Royle.*)

CARYOTA, L. (*Spreng. syst.* 2, p. 563, No. 1992;—*Endl. gen. pl.* 1, p. 248.)

1. *urens*, L. (*Spreng. syst.* 2, p. 623;—*Roxb. fl. ind.* 3, p. 625;—*J. Grah.*



- Cat. B. pl.* p. 226;—*Gärtn. fr.* 1, p. 20, t. 7, f. 3;—*Jacq. fragm. bot.* t. 12, f. 1;—*Lam. ill. t.* 897;—*Rheed.* 1, t. 11;—*Rumph.* 1, t. 14.) 5 Moluccas. Coromandel. The Ghauts and Concans. Cultivated here. Fl. small, greenish-white, H. and R. S. This palm, where it grows in abundance, is highly valuable to the natives. It yields them, during the hot season, an immense quantity of sap. The constituents of this, as well as that of the preceding species, being such as may easily be made to undergo the fermentation process, we find that, instead of being boiled down to procure sugar, the sap is allowed to undergo the vinous fermentation, when it forms Palm-wine, often called *Toddy*. This being distilled, yields the spirit called *Arrack*, from the Arabic *Aruk*, the general term for spirit. The best trees will yield at the rate of 100 pints of sap in the 24 hours. The pith of the trunk of old trees is said to be equal to the best sago. The natives make it into bread, or boil it into thick gruel. (*Roxb. Royle.*)
2. *horrida*, Jacq. (*fragm. bot.* p. 20;—*Spreng. syst.* 2, p. 623.) 5 Caracas. Has been introduced into H. C. G. Fl.?
3. *sobolifera*, Wall. Mauritius.

B. LEPIDOCARYÆÆ.

(Lepidocaryinæ, Mart.;—*Endl. gen. pl.* 1, p. 248.)CALAMUS, L. (*Spreng. syst.* 2, p. 3, No. 1156;—*Endl. o. c.* p. 249.) *Ratan.*

1. *humilis*, Roxb. (*fl. ind.* 3, p. 773.) 5 Chittagong. Introduced into H. C. G. in 1801, but had not fl. up to 1814.
2. *erectus*, Roxb. (*fl. ind.* 3, p. 774.) 5 Silhet. Introduced into H. C. G. in 1811. Fl.? The poorer natives use the seeds as a substitute for Betel-nut, (*Roxb.*)
3. *Draco*, Willd. (*Spreng. syst.* 2, p. 17;—*Schult. syst.* 8, p. 1323;—*Roxb. fl. ind.* 3, p. 774;—*Rumph.* 5, t. 58, f. 1.) L. 5 ∪ Moluccas. Sumatra. Fl. March and April. The resinous, reddish-coloured substance, called *Dragon's Blood*, is produced in the Isle of Socotora by *Dracæna Draco*; but in Sumatra and the Malay Islands, varieties of a similar substance are yielded by the *Calamus Draco*. (*Royle.*)
4. *latifolius*, Roxb. (*fl. ind.* 3, p. 775.) L. 5 ∪ Chittagong. Introduced into H. C. G. in 1801, and fl. for the first time in Nov. and Dec. 1809.
5. *rudentum*, Lour. (*Spreng. syst.* 2, p. 17;—*Schult. syst.* 8, p. 1327;—*Roxb. fl. ind.* 3, p. 776;—*J. Grak. Cat. B. pl.* p. 225;—*Rumph.* 5, t. 53.) L. 5 ∪ Moluccas. Cochin China. Introduced into H. C. G. in 1798, where after 13 years it fl. for the first time in H. S.
6. *verus*, Lour. (*Spreng. l. c.*;—*Schult. syst.* 8, p. 1323;—*Roxb. fl. ind.* 3, p. 776;—*Rumph.* 5, t. 54, f. 2.) L. 5 ∪ Moluccas. Cochin China. Introduced into H. C. G. in 1798, and began to fl. 12 years after.
7. *extensus*, Roxb. (*fl. ind.* 3, p. 777.) L. 5 ∪ Silhet. Introduced into H. C. G. in 1811. Fl.?



8. *quinguerivius*, Roxb. (*fl. ind.* 3, p. 777.) L. 5 ∪ Silhet. Introduced into H. C. G. in 1811. Fl. ?
9. *Rotang*, L. (*Schult. syst.* 8, p. 1322 ;—*Roxb. fl. ind.* 3, p. 777 ;—*J. Gralh. Cat. B. pl.* p. 225, excl. syn. *C. petraeus*, *Lour.*—*Spreng. syst.* 2, p. 17.) বড় বেত *Bet. L.* 5 ∪ Bengal, (Serampore.) Coromandel. S. Concan. Ram Ghaut, &c. Fl. R. S. ; fr. C. S. Yields the common ratans.
10. *fasciculatus*, Roxb. (*fl. ind.* 3, p. 779.) বড় বেত *Buro-bet. L.* 5 ∪ Bengal, (Serampore,) &c. Fl. R. S. ; fr. C. S. The stems divested of the sheaths of the leaves are about as thick as a man's fore-finger, and employed for walking sticks, like those of *Rhapis flagelliformis*, L. (*Roxb.*)
11. *polygamus*, Roxb. (*fl. ind.* 3, p. 780.) L. 5 ∪ Chittagong. Introduced into H. C. G. in 1801, but had not fl. in 1814.
12. *tenuis*, Roxb. (*fl. ind.* 3, p. 780.) L. 5 ∪ Chittagong. Introduced into H. C. G. in 1801, but had not fl. in 1814.
13. *gracilis*, Roxb. (*fl. ind.* 3, p. 781.) L. 5 ∪ Chittagong. Fl. May and June, fr. C. S.
14. *monovicus*, Roxb. (*fl. ind.* 3, p. 783.) L. 5 ∪ Native place in India uncertain. Fl. R. S. ; fr. C. S.
15. *hostilis*, Wall. MSS. In H. C. G. Native place ?

Canes and ratans, the stems of different species of *Calamus*, form considerable articles of commerce. They are exported from the valleys along the foot of the Himalayas into the plains, though the species yielding them are not well known. (*Royle.*)

ZALACCA, Reinw. (*Endl. gen. pl.* 1, p. 249.)

1. *edulis*, Reinw. and Bl. (*Schult. syst.* 8, p. 1333, obs. 3 ;—*Wall. pl. as. rar.* 3, t. 222, 23, 24.—*Calamus Zalacca*, *Gärtn. fr.* 2, p. 267, t. 139, f. 1 ;—*Spreng. syst.* 2, p. 17 ;—*Roxb. fl. ind.* 3, p. 773.—*Zalacca*, *Rumph.* 5, t. 57, f. 2.) L. 5 Moluccas. Malay Islands. Sumatra. Java. Malayan Peninsula to Tenasserim, and to the shores of the rivers Saluen and Attran, in Martaban. Has been several years in the Garden here, without fl.

2. *asamica*, Wall. MSS. In H. C. G.

SAGUS, *Gärtn.* (*Endl. gen. pl.* 1, p. 230.)

1. *lævis*, *Rumph.* (*Amb.* 1, p. 96.—*S. inermis*, *Roxb. fl. ind.* 3, p. 623.) 5 Moluccas. Sumatra. Borneo, &c. Introduced into H. C. G. in 1798, but had not fl. up to 1814. From the pith of this palm, the *granulated sago* is prepared. *Pearl sago* is said to be granulated and bleached at Singapore, where it is brought from the islands in which the tree is grown. (*Royle.*)
2. *farinifera*, *Gärtn.* (*fr.* 2, p. 186, t. 120, f. 3.—*S. Rumphii Willd.* ;—*Roxb. fl. ind.* 3, p. 623.—*S. spinosus*, *Roxb. H. B.* p. 68.—*Metroxylon Sagus*, *König.* ;—*Spreng. syst.* 2, p. 138.) 5 Moluccas. Malay Islands. Peninsula of Malacca. Introduced into H. C. G. in 1798,

but had not fl. up to 1814. Like the Plantain it propagates itself by suckers from the roots of the old trees; the seeds are therefore in general abortive. The pith of this palm, the Malay Sago-palm, is the staff of life to the inhabitants of the Moluccas. (*Roxb.*)

C. BORASSIÆ.

(*Borassinæ*, Mart.;—*Endl. gen. pl.* 1, p. 250.)

BORASSUS, L. (*Spreng. syst.* 3, p. 894, No. 3188;—*Endl. l. c.*)

1. *flabelliformis*, L. (*Spreng. syst.* 3, p. 905;—*Roxb. Corom.* 1, t. 71, 72; *fl. ind.* 3, p. 790;—*J. Grah. Cat. B. pl.* p. 226.—*Lontarus domestica*, Rumph. 1, t. 10;—*Gärtn. fr.* 1, p. 21, t. 8;—*Rheed.* ♀ 1, t. 9. ♂ 1, t. 10.) उज गोंह *Tal-gachh. Palmyra-tree*. L. ♀ Common in the islands of the Indian Archipelago, as well as in the Peninsula and southern parts of India, whence it extends northwards along the Malabar Coast, and is described as almost the only tree seen on the flatter alluvium near the sea at Guzerat. It may also occasionally be seen as far north as 30°, or near Saharanpore. (*Royle.*) Fl. H. S.; fr. C. S. The sap of this Palm is abundant, mild, saccharine, and demulcent. It is collected by wounding the spathe, and drunk in its recent state as a refreshing beverage. The same is the case with the sap of *Cocos nucifera*, *Arenga saccharifera*, *Caryota urens*, *Phoenix sylvestris*, &c. The fruit is eaten, and by many considered very pleasant and refreshing. The leaves are employed for making punkahs. Wood very serviceable.

LATANIA, Commers. (*Spreng. syst.* 2, p. 563, No. 1988;—*Endl. gen. pl.* 1, p. 251.)

1. *borbonica*, Lam. (*Spreng. syst.* 2, p. 623, excl. syn. Jacq.) ♀ Bourbon. Has been introduced into H. C. G. Fl. ?

BENTINCKIA, Berry. (*Endl. gen. pl.* 1, p. 251.)

1. *Condapana*, Berry. (*Roxb. fl. ind.* 3, p. 621.) ♀ Mountains of Travancore. In H. C. G. fl. June; fr. March. (*Roxb.*)

D. CORYPHÆÆ.

(*Coryphinæ*, Mart.;—*Endl. gen. pl.* 1, p. 252.)

CORYPHEA, L. (*Spreng. syst.* 2, p. 13, No. 1338;—*Endl. gen. pl.* p. 252.)

1. *umbraculifera*, L. (*Spreng. syst.* 2, p. 138;—*Schult. syst.* 3, p. 1303;—*Roxb. fl. ind.* 2, p. 177;—*Gärtn. fr.* 1, p. 18, t. 7, f. 1;—*J. Grah. Cat. B. pl.* p. 224; excl. syn. Rumph.—*Rheed.* 3, t. 1-12, incl.) डानी *Talee*. L. ♀ Ceylon, Moluccas. Introduced into H. C. G. in 1798, but had not fl. up to 1814. In the Serampore garden it has been cultivated for more than 25 years without fl. This is the *Talipat*, or great *Fan-palm* of Ceylon, the leaves of which are used for thatching.
2. *Utaz*, Lam. (*Spreng. syst.* 2, p. 138;—*Roxb. fl. ind.* 2, p. 178.—*Taliera silvestris*, Bl.; *Schult. syst.* 8, p. 1307.—*Lontarus silvestris*, Rumph. 1, t. 11.) ♀ Moluccas. Introduced into H. C. G. in 1798, but had not fl. up to 1814.



3. *Taliera*, Roxb. (*Corom.* 3, t. 255, 56; *fl. ind.* 2, p. 174.—*Taliera bengalensis*, *Spreng. syst.* 2, p. 18;—*J. Grah. Cat. B. pl.* p. 224.—*T. Tali*, *Mart.*; *Schult. syst.* 8, p. 1306.) তালি *Tara* L. 5 Bengal, but scarce about Calcutta and Serampore. Fl. March and April; fr. Nov. and Dec. The leaves are employed by the natives to write on with their pointed steel-bodkins, and also to tie the rafters of their houses. (*Roxb.*)
4. *elata*, Roxb. (*fl. ind.* 2, p. 176.—*Taliera elata*, *Wall. MSS.*) বজুর *Bujoor* L. 5 Bengal. Fl. March and April; fr. Oct. and Nov.
- LIVISTONA, R. Br. (*pr.* p. 267;—*Spreng. syst.* 2, p. 13, No. 1337;—*Endl. gen. pl.* 1, p. 252.)
1. *mauritiana*, *Wall. MSS.* 5 Mauritius. Has been cultivated in the garden here for more than 15 years without fl.
- LICUALA, Rumph. (*Spreng. syst.* 2, p. 3, No. 1157;—*Schult. syst.* 8, p. 1301;—*Endl. gen. pl.* 1, p. 252.)
1. *peltata*, Roxb. (*fl. ind.* 2, p. 179;—*J. Grah. Cat. B. pl.* p. 225.) 5 Chittagong. Fl. whitish, inodorous, Nov.; fr. May.
2. *spinosa*, Wurm. (*Spreng. syst.* 2, p. 18;—*Schult. syst.* 8, p. 1301;—*Roxb. fl. ind.* 2, p. 181;—*J. Grah. Cat. B. pl.* p. 225.—*Licuala arbor*, *Rumph.* 1, t. 9.—*Corypha Licuala*, *Lam.*—*C. Pilcaria*, *Lour.*) 5 Moluccas. Celebes. Cochin China. Introduced into H. G. C. in 1798, but had not fl. up to 1814.
- SABAL, Adans. (*Spreng. syst.* 2, p. 13, No. 1333;—*Endl. gen. pl.* 1, p. 253.)
1. *Adansonii*, Guerns. (*Schult. syst.* 8, p. 1485;—*B. M.* 35, t. 1434.—*Sabal minus*, *Pers.*;—*Spreng. syst.* 2, p. 137.) 5 New Orleans. Has been introduced into H. C. G. Fl.?
2. *Hystrix*, Nutt. (*Schult. syst.* 8, p. 1487.—*Chamærops Hystrix*, *Pursh.*;—*Spreng. syst.* 2, p. 137.—*Roxb. H. B. p.* 25.) 5 E. Florida. Georgia. Introduced into H. C. G. in 1809, but had not fl. in 1814.
- CHAMÆROPS, L. (*Spreng. syst.* 2, p. 13, No. 1336;—*Endl. gen. pl.* 1, p. 253.)
1. *humilis*, L. (*Spreng. syst.* 2, p. 137;—*Schult. syst.* 2, p. 1488;—*B. M.* 47, t. 2152;—*B. Repos. t.* 599;—*Roxb. H. B. p.* 25.—*Chamæripes major*, *Gürt.* fr. 1, p. 26, t. 9, f. 4.—*Phoenix humilis*, *Cav. ic.* 2, p. 12, t. 115.) 5 S. Europe. N. Africa. Fl. C. S.; fr. H. S.
2. *mitis*, Mayer. (*Roxb. H. B. p.* 25.) 5 Guiana. Introduced into H. C. G. in 1804, but had not fl. in 1814.
3. *Griffithiana*, *Wall. MSS.* 5 Khassya Mountains. Has not fl. in the garden here.
4. *Martiana*, *Wall.* (*pl. as. rar.* 3, t. 211.) 5 Deyra-Dhoon. Introduced in 1840. The fruit edible. (*Wall.*)
- REAPIS, L. fil. (*Spreng. syst.* 2, p. 13, No. 1335;—*Endl. gen. pl.* 1, p. 253.)
1. *flabelliformis*, Ait. (*Spreng. syst.* 2, p. 137;—*Schult. syst.* 8, p. 1490. ♂.—*B. M.* 33, t. 1371.) 5 China. Japan. In H. C. G. Fl.?

PHOENIX, *L. fil.* (*Spreng. syst.* 2, p. 13, No. 1339;—*Endl. gen. pl.* 1, p. 253.)

1. *dactylifera*, *L.* (*Spreng. syst.* 2, p. 138;—*Lam. ill.* t. 893;—*Gärtn. fr.* 1, p. 23, t. 9, f. 2;—*Roxb. fl. ind.* 3, p. 786;—*J. Grah. Cat. B. pl.* p. 224.) *Date-tree.* 5 Tropical and Middle Asia. N. Africa. Deccan. Baroda. Cultivated in S. Europe. Does not thrive in Lower Bengal. In H. C. G. some male trees have lived to flower, soon after which, however, they uniformly perished. The sap of this tree is seldom employed, because the fruit is thereby injured. *Baskets* are made with the leaf-stalks.
2. *farinifera*, *Roxb.* (*Corom.* 1, t. 74; *fl. ind.* 3, p. 785;—*Spreng. syst.* 2, p. 138.—*P. pusilla*, *Gärtn. fr.* 1, p. 24, t. 9, f. 2.—*Lour.*) 5 Sandy hills, at a short distance from the Sea, near Coringa. *Fl.* Jan. and Feb.; *fr.* May. Its stem contains *fecula*, which is used as food by the natives in times of famine. The *leaflets* are wrought into mats, for sleeping on, &c. The *common petioles* are split into three or four, and used to make common baskets of various kinds, which, however, are inferior to those constructed of bamboo. *Fruit* edible. (*Roxb.*)
3. *acaulis*, *Buch.* (*Roxb. fl. ind.* 3, p. 783;—*Spreng. syst.* 2, p. 138.) *खजरी थोकूर Junglee-khajoor.* 5 Behar. *Fl.* C. S.; *fr.* April and May. *Fruit* edible. (*Roxb.*)
4. *sylvestris*, *Roxb.* (*fl. ind.* 3, p. 787;—*J. Grah. Cat. B. pl.* p. 224.—*Elate sylvestris*, *L.*; *Spreng. syst.* 2, p. 141;—*Rheed.* 3, t. 22-25, incl.) *थोकूर Khajoor. Wild Date.* 5 Common all over India. *Fl.* March, *fr.* C. S. This tree yields, *Palm-wine* during the C. S. But free extraction destroys the appearance and fertility of the tree, the fruit of those that have been cut for drawing off the juice being very small. The mode of drawing off the juice is by removing the lower leaves and their sheaths, and cutting a notch into the pith of the tree near the top, whence it issues and is conducted by a small channel made of a bit of the Palmyra palm-leaf into a pot suspended to receive it. On the coast of Coromandel this *Palm-juice* is either drunk fresh from the tree, or boiled down into sugar, or fermented for distillation, when it gives out a large portion of ardent spirit, commonly called *Paria-aruk* on the coast of Coromandel. There as well as in Guzerat, and especially in Bengal, the *Khajur* is the only tree whose sap is much employed for boiling down to sugar, mixed more or less with the juice of the sugar-cane. At the age of from 7-10 years, when the trunk of the trees will be about 4 feet high, they begin to yield juice, and continue productive for 20 or 25 years. It is extracted from Nov. till Feb., during which period, each tree is reckoned to yield from 120 to 240 pints of juice, which averages 180 pints. Every 12 pints or pounds is boiled down to one of *Goor* or *Jagari*, and 4 of this yield one of good



powder sugar, so that the average produce of each tree is about 7 or 8 pounds of sugar annually. This date sugar is not so much esteemed as cane-sugar, and sells for about one-fourth less. (Roxb.) Baskets, boxes, mats and punkahs are made with the leaf-stalks.

5. *paludosa*, Roxb. (*fl. ind.* 3, p. 789.) হিঁতাল *Hintal*. 5 Soonderbuns, where it forms a considerable part of those impenetrable woods, which completely cover that extensive tract of country. Fl. H. S.; fr. C. S. The trunks of the smaller trees serve for making sticks. The larger ones serve for rafters to the houses of the natives, and the leaves for thatch. (Roxb.)

B. Cocoëæ.

(Cocoïnæ, Mart.;—*Endl. gen. pl.* 1, p. 254.)

Elxis, Jacq. (*Spreng. syst.* 2, p. 13, No. 1350;—*Endl. o. c.* p. 255.)

1. *guineënsis*, Jacq. (*Amer. t.* 172; *ed. pict. t.* 257;—*Gärtn. fr.* 1, p. 17, t. 6, f. 2;—*Lam. ill. t.* 896;—*Spreng. syst.* 2, p. 141.) *Oil Palm*. 5 Guinea. W. Indies. Introduced in 1836, and thriving, though growing very slowly. Palm-oil is obtained from the fruit of this tree, which is also said to yield the best kind of Palm-wine.

Cocos, L. (*Spreng. syst.* 2, p. 14, No. 1353;—*Endl. gen. pl.* 1, p. 256.)

1. *nucifera*, L. (*Spreng. syst.* 2, p. 141;—Roxb. *fl. ind.* 3, p. 614;—*J. Grak. Cat. B. pl.* p. 225.—*Cocos nucifera*, *Gärtn. fr.* 1, p. 16, t. 4, 5.—*Rheed. 1, t. 1-4, incl.*—*Rumph. 1, t. 1, 2.*) নারিকেল *Narikel*. L. 5 Shores of equinoctial Asia, and its islands, &c. Fl. H. S.; fr. C. S. The *root* is sometimes masticated instead of the Betle-nut. In Brazil baskets are made of the *small fibres*. The *hard case of the stem* is converted into drums, and used in the construction of huts. The lower part is so hard as to take a beautiful polish, when it resembles agate. The reticulated substance at base of the leaf is formed into cradles, and, as some say, into a coarse kind of cloth. The *unexpanded terminal bud* is a delicate article of food. The *leaves* furnish thatch for dwellings, and materials for fences, buckets, and baskets; they are used for writing on, and make excellent torches; potash in abundance is yielded by their ashes. The *midrib of the leaf* serves for oars. The *juice of the flower and stems* is replete with sugar, and is fermented into excellent wine, or distilled into arrack, or the sugary part is separated as Jagary. The tree is cultivated in many parts of the Indian islands, for the sake not only of the sap and milk it yields, but for the *kernel* of its fruit, used both as food and for culinary purposes, and as affording a large proportion of *oil* which is burned in lamps throughout India, and forms also a large article of export to Europe. The fibrous and uneatable rind of the fruit is not only used to polish furniture and to scour the floors of rooms, but is manufactured into a kind of cordage, (*Koir*), which is nearly equal in strength to hemp, and which Roxburgh designates as the very best of all materials for cables, on account of its great elasticity and strength. The



sap of this as well as of other palms is found to be the simplest and easiest remedy that can be employed for removing constipation in persons of delicate habit, especially European females. (*Ainslie. Rorb. Lindl.*)

2. *flexuosa*, Mart. (*Spreng. syst.* 2, p. 141.) 5 Brazil. Has been introduced into H. C. G. Fl. ?

* *Hyospathe elegans*, Mart. 5 Brazil.—*Leopoldinia pulchra*, Mart. Brazil.—*L. insignis*, Mart. Brazil.—*Euterpe oleracea*, Mart. Brazil.—*E. edulis*, Mart. Brazil.—*Oenocarpus Bacaba*, Mart. Guiana.—*O. minor*, Mart. Brazil.—*Areca crinita*, Bory. Mascarenhas Islands.—*A. humilis*, Willd. Amboyna.—*A. rubra*, Bory. Mascarenhas Islands.—*Plectocomia elongata*, Mart. Java.—*Ceratolobus glaucescens*, Bl. Java.—*Demonorops melanochætæ*, Bl. Java.—*Mdurtia vinifera*, Mart. Bahia.—*M. flexuosa*, Mart. Essequibo.—*Lepidocaryon gracile*, Mart. Brazil.—*L. tenax*, Mart. Brazil.—*Lodoicea Sechellarum*, Labill.; B. M. 54, t. 2734-8 (incl.) Sechelles.—*Hyphæne coriacea*, Gärtn. Upper Egypt. Introduced into Bombay, in 1828.—*Geonoma simplifrons*, Willd. Brazil. Caracas.—*G. acaulis*, Mart. Guiana.—*Corypha rotundifolia*, Lam. Moluccas. Cochin China.—*C. cerifera*, Arruda. S. America.—*C. dulcis*, Humb. and Bonpl. New Spain.—*C. tectorum*, Humb. and Bonpl. Caraccas. Cumana.—*C. Pumos*, Humb. and Bonpl. Mexico.—*C. maritima*, Humb. and Bonpl. Cuba.—*C. nana*, Humb. and Bonpl. Mexico.—*Licuala pumila*, Bl. Java.—*L. rotundifolia*, Bl. Java.—*Chamærops Mocini*, Humb. and Bonpl. Mexico.—*Thrinax radiata*, Lodd. Trinidad.—*Cocos campestris*, Mart. Brazil.—*C. oleracea*, Mart. Brazil.—*C. coronata*, Mart. Brazil.—*Desmoncus polyacanthus*, Mart. Brazil.—*D. orthocanthus*, Mart. Brazil.—*Bactris mitis*, Mart. Brazil.—*B. riparia*, Mart. Brazil.—*Guilielma speciosa*, Mart. Brazil.—*Acrocomia sclerocarpa*, Mart. W. Indies.—*Astrocaryon aculeatum*, Meyer. Guiana.—*A. vulgare*, Mart. Brazil.—*Attalia humilis*, Mart. Brazil.—*A. amygdalina*, Humb. New Granada.—*Eleis melanococca*, Gärtn. New Granada.—*Diplothemium campestre*, Mart. Brazil.—*D. littorale*, Mart. Brazil.—*Maximiliana regia*, Mart. Brazil.—*M. insignis*, Mart. Brazil.

ORDER CCXXXVIII.—PONTEDERACEÆ. Ach. Rich.—Lindl.

Nat. Syst. p. 347.

Water or marshplants, by Lindl. referred to 4 genera. Of these, 5 species have been found in N. America; 14 in S. America Mexico, and the W. Indies; and 7 (*Pontedera*) all over the E. Indies. *Monochoria*, Presl. is unknown to us. Properties of no known use.



Pontedera, L. (*Spreng. syst.* 2, p. 5, No. 1192;—*Endl. gen. pl.* 1, p. 138.)

1. *vaginalis*, L. (*Spreng. syst.* 2, p. 42;—*Schult. syst.* 8, p. 1145;—*Bl. enum. pl. jav.* p. 32;—*Roxb. Corom.* 2, t. 110; *fl. ind.* 2, p. 121;—*J. Grah. Cat. B. pl.* p. 222, excl. syn. Rumph.—*Rheed.* 11, t. 44.) नौका *Nouka*. ५. Java. Coromandel. Concans. Bengal, (Serampore.) Tavoy. Sukanaghur. Monghir. Nepal. Fl. largish, bright-blue, R. and C. S.; fr. C. S.
2. *hastata*, L. (excl. syn. *Rheed*;—*Spreng. l. c.*;—*Schult. syst.* 8, p. 1146;—*Bl. l. c.*;—*Lour.*;—*Roxb. Corom.* 2, t. 111; *fl. ind.* 2, p. 121;—*J. Grah. l. c.*) ५. Cochin China. Java. Coromandel. Concans. Bengal, (Serampore.) &c. Fl. largish, bright-blue-violet, R. and C. S.; fr. C. S.
3. *plantaginea*, Roxb. (*fl. ind.* 2, p. 123.) ५. Both Peninsulas of India. Bengal, (Serampore.) Silhet. Nepal. Fl. smallish, bright deep-blue, R. S.; fr. C. S.
4. *dilatata*, Buch. (*in Syme's emb. to Ava*, p. 474, with a plate;—*B. Repos. t.* 490;—*Roxb. fl. ind.* 2, p. 123;—*Spreng. l. c.*;—*Schult.* 8, p. 1147.) ५. Rangoon. Fl. pale-blue, R. and C. S.; fr. C. S.
5. *sagittata*, Roxb. (*H. B. p.* 22; *fl. ind.* 2, p. 124; not Presl.) ५. Both Peninsulas of India. Silhet. Assam. Introduced into H. C. G. in 1810.

* *Pontedera Loureiriana*, Schult. (*P. cordata*, Lour.; excl. syn.) ५. Cochin China.—*P. pauciflora*, Bl. ५. Rice-fields of Java.—*P. rotundifolia*, L. ५. Surinam.—*P. crassipes*, Mart. (*P. azurea*, Hook; B. M. 56, t. 2932, excl. syn. with the exception of *P. crassipes*.) ५. Brazil.—*P. azurea*, Swz. ५. Jamaica.—*P. ovalis*, Mart. ५. Brazil.—*P. lanceolata*, Nutt. ५. Georgia.—*P. cordifolia*, Schult. fil. ५. Brazil.—*P. belophylla*, (*P. sagittata*, Presl; not Roxb.) ५. Mexico.—*Heteranthera oblongifolia*, Mart. ५. Brazil.

ORDER CCXXXIX.—MELANTHACEÆ, R. Br.—Lindl. Nat. Syst. p. 347.

THE COLCHICUM TRIBE.

Herbs, by Lindl. (excluding *Paridææ*, and adding *Ledebouria* and *Asagrea*) referred to 29 genera. Of these *Spreng. syst.* enumerates 32 species for N. America; 11 for Europe; 8 for N. Holland and the Society Islands; 3 for S. America and Mexico; 3 for N. Africa; 2 for Siberia; 1 for Caucasus; 1 for Senegal; and 2 for Japan and China. In S. Africa have been discovered 20 species (*Harvey*); and in the E. Indies 14; viz. 1 of *Tofieldia*, (Himalayas); 3 of *Anguillaria*, (1 from the Himalayas, Coro-



mandel, Prome, and N. Holland, 1 herb Heyn., 1 Spreng. (from Cochin China); 1 of *Ledebouria*, (Peninsula of India, Bundelkund); 1 of *Tricyrtis*, (Himalayas); 7 of *Disporum*, (Himalayas, Khassya Mountains, Neelgherries); and 1 of *Drapiezia*, (Java.)

"This order is poisonous in every species, but more especially in the Colchicum and Veratrum. The cormus of the former is a well known acrid cathartic, narcotic, and diuretic; the latter is a nauseous, dangerous emetic. The medicinal properties of the root of Veratrum are owing to a peculiar alkaline principle called Veratrin, which acts with singular energy on the membrane of the nose, exciting violent sneezings, though taken in very minute quantity. When taken internally in very small doses, it produces excessive irritation of the mucous coat of the stomach and intestines; and a few grains are found fatal to the lower animals. Turner." (*Lindl.*)

ORNITHOGLOSSUM, Salisb. (*Spreng. syst.* 2, p. 14, No. 1370;—*Endl. gen. pl.* 1, p. 135.)

1. *glaucum*, Salisb. (*Parad. p.* 54;—*Schult. syst.* 8, p. 1536.—*O. viride*, *Ait.*;—*Spreng.* 2, p. 147.—*Lichtensteinia lævigata*, *Willd.*—*Cymation lævigatum*, *Spreng.* 2, p. 147.—*Melanthium viride*, *Thunb.*; *B. M.* 25, t. 994.) 2. C. G. H. Fl. middle-sized, green, edged with brown. Introduced in March 1841. Has not fl. yet.

ANGUILIARIA, R. Br. (*pr. p.* 273;—*Spreng. syst.* 2, p. 14, No. 1368;—*Endl. gen. pl.* 1, p. 136.)

1. *indica*, R. Br. (*l. c.*;—*Spreng. syst.* 2, p. 146;—*Schult. syst.* 8, p. 1538;—*Wall. pl. as. rar.* 3, t. 259;—*J. Grah. Cat. B. pl.* p. 222, excl. syn. Roth.—*Melanthium indicum*, L.) 2. Tropical N. Holland. Coromandel. The Concans. Kandalla. Prome. Nepal. Kamaon. Fl. smallish, dark-purple, inodorous. Introduced into H. C. G. Fl.?

MELANTHIUM, L. (*Spreng. syst.* 2, p. 14, No. 1367;—*Endl. gen. pl.* 1, p. 136.)

1. *junceum*, Jacq. (*Icon. rar.* 2, t. 451.—*Spreng. syst.* 2, p. 146;—*B. M.* 16, t. 558.—*M. triquetrum*, *Thunb.*;—*Schult. syst.* 8, p. 1547, 48.—*Phalangium*, *Houtt. Lin. pfl. syst.* t. 80, f. 3.) 2. C. G. H. Fl. middle-sized, whitish, each petal marked with two dark crimson spots. Introduced in March 1841. Has not fl. yet.

ANDROCYMBIUM, Willd. (*Spreng. syst.* 2, p. 14, No. 1359;—*Endl. gen. pl.* 1, p. 136.)

1. *eucomioides*, Willd. (*Spreng. syst.* 2, p. 143;—*Schult. syst.* 8, p. 1526.—*Melanthium eucomioides*, *Jacq. ic. rar.* 2, t. 452;—*B. M.* 17, t. 641.) 2. C. G. H. Fl. smallish, green. Introduced in March 1841. Has not fl. yet.

WURMBEA, Thunb. (*Spreng. syst.* 2, p. 15, No. 1373;—*Endl. gen. pl.* 1, p. 136.)

1. *purpurea*, Dryand. (*Spreng. syst.* 2, p. 147;—*Schult. syst.* 8, p. 1542.—*Melanthium spicatum*, *Houtt. nat. hist.* 12, p. 429, t. 85, excl. syn. Burm.;—*B. M.* 19, t. 694.) 2. C. G. H. Fl. middle-



sized, purple, with a darker petal-edge. Introduced in March 1841. Has not fl. yet.

LEDEBOURIA, Roth. (*Spreng. syst.* 2, p. 8, No. 1261;—*Endl. gen. pl.* 1, p. 136.)

1. *hyacinthoides*, Schult. (*syst.* 7, p. 365.—*L. hyacinthina*, Roth.;—*Spreng. syst.* 2, p. 69;—*B. M.* 60, t. 3226;—*J. Grah. Cat. B. pl.* p. 220.—*Melanthium hyacinthinum*, Heyn. MSS.—*Erythronium indicum*, Rottl. according to Spreng.—*Anthericum hyacinthoides*, Willd. MSS.) 4. Masulipatam, Madras. Both Concans, Bundelcund. Fl. small, greenish-white, and base red. Has been introduced into H. C. G. Fl.? Root employed in cases of strangury and fever in horses. (*Ainslie*.)

BAOMETRA, Salisb. (*Endl. gen. pl.* 1, p. 136.)

1. *Breyniana*, (*B. columellaris*, Salisb. MSS. in *Transact. hort. soc.* 1, p. 330.—*Kolbea Breyniana*, Schlecht.—*Spreng. c. p.* p. 142;—*Jania Breyniana*, Schult. *syst.* 8, p. 1528.—*Tulipa Breyniana*, L.; *Spreng. syst.* 2, p. 146;—*Roxb. H. B.* p. 24;—*B. M.* 20, t. 767.—*Melanthium uniflorum*, Jacq. *ic. rar.* 2, t. 450.) 4. C. G. H. Fl. largish, deep-yellow within, crimson without, with the unguis generally of a deep crimson. Introduced in March 1841. Has not fl. yet.

COLCHICUM, Tournef. (*Spreng. syst.* 2, p. 14, No. 1358;—*Endl. gen. pl.* 1, p. 137.)

Several species of this genus have been introduced here over and over again, but without success.

- * *Helonias angustifolia*, Michx. (*H. læta* β. Minor, Ker.; *B. M.* 37, t. 1540.) 4. Humid places in Georgia.—*H. dubia*, Michx. 4. Georgia, Florida.—*Asagraea officinalis*, Lindl.; *B. Reg.* 1839, t. 33, 4. Mexico.—*Veratrum Sabadilla*, Retz. 4. Mexico. W. Indies.—*Burchardia umbellata*, R. Br. 4. Port Jackson.—*Anguillaria biglandulosa*, R. Br. 4. Port Jackson.—*Schelhammiera undulata*, R. Br.; *B. M.* 54, t. 2712, 4. Port Jackson.—*S. multiflora*, R. Br. 4. Tropical N. Holland.—*Disporum falvum*, Salisb. (*Uvularia chinensis*, Ker.; *B. M.* 23, t. 916.) 4. China.

ORDER CCXL.—SMILACEÆ, R. Br.—*Endl. gen. pl.* 1, p. 152.

THE SMILAX TRIBU.

Herbs or shrubs, sometimes climbing, by Endl. referred to 15 genera. Of these, about 54 species, according to Spreng. belong to N. America; 26 to S. America, Mexico, and the W. Indies; 11 to Europe; 9 to New Holland and the South Sea Islands; 3 to Japan; 3 to China; 6 to S.

Africa; 1 to the Mascarenhas; 1 to N. Africa; 1 to the Canaries; 3 to Iberia, and Caucasus; 2 to Armenia; and 2 to Siberia. In the E. Indies have been discovered 1 species of *Trillium*, (Himalayas); 1 of *Paris*, (Himalayas); 1 of *Stretopus*, (Himalayas); 4 of *Smilacina*, (Himalayas); 9 of *Polygonatum*, (Himalayas, Khassya Mountains); 27 of *Smilax*, (all over India); 4 of *Tupistra*, (Himalayas, Khassya Mountains, Singapore, Amboyna); 2 of *Stemona*, (Circars, Moluccas, Cochin China, Silhet); 4 of *Teta*, (Chittagong, Penang, Banks of the Attran); 10 of *Liriope*, (Himalayas, Rangoon, Peninsula of India); and 1 of *Bulbospermum*, (Java). Properties under the species.

POLYGONATUM, Tournef. (*Endl. gen. pl.* 1, p. 154.)

1. *oppositifolium*, D. Don. (*Convallaria oppositifolia*, Wall. *as. res.* 13, p. 380, with a plate;—*B. Cab. t.* 640;—*Hook. exot. fl.* 2, t. 125;—*Spreng. syst.* 2, p. 76;—*Don. pr. fl. nep.* p. 47;—*Schult. syst.* 7, p. 298, and 8, p. 1669;—*B. M.* 63, t. 3529.) 2. Khassya Mountains. Nepal. Fl. nearly 1 inch, greenish-white, marked with 6 lines of reddish dots, C. S.; fr. 0.

SMILAX, Tournef. (*Spreng. syst.* 2, p. 9, No. 1272;—*Endl. gen. pl.* 1, p. 155.)

1. *Sarsaparilla*, L. (*Spreng. syst.* 2, p. 100;—*Plenck. t.* 712;—*Blackw. t.* 393.) 5. Virginia. Has been cultivated for many years in the garden here, without flowering.
2. *Roxburghiana*, Wall. (*Cat.*—*S. laurifolia*, Roxb. *fl. ind.* 3, p. 793, not L.) 5. Garrow Hills. Khassya Mountains. Introduced into H. C. G. in 1811, but had not fl. in 1814.
3. *retusa*, Roxb. (*fl. ind.* 3, p. 793.) 5. Bengal, (Serampore.) Fl. small, greenish-white, H. S.; fr. R. S.
4. *grandifolia*, (S. macrophylla, Roxb. *fl. ind.* 3, p. 793;—*J. Grah. Cat. B. pl.* p. 219, excl. syn.; not Willd.) L. 5. Concans. Deccan. Bengal. Fl. smallish, greenish-yellow, H. and R. S.; fr. Sept. and Oct.
5. *ovalifolia*, Roxb. (*fl. ind.* 3, p. 794;—*Spreng. c. p. p.* 137;—*J. Grah. Cat. B. pl.* p. 219.) कुमारीका *Koomarika*, L. 5. Bengal, (Serampore.) Concans. Fl. smallish, greenish, H. S.; fr. C. S.
6. *prolifera*, Roxb. (*fl. ind.* 3, p. 795.) L. 5. Bengal, (Serampore. Poorneeya.) Rajmahl. Fl. smallish, green, Feb. and March; fr. R. S.
7. *maculata*, Roxb. (*fl. ind.* 3, p. 796;—*Spreng. c. p. p.* 137;—*Royle. ill. t.* 94, f. 1.) 5. Nepal. Fl. small, white, fragrant, C. S.; fr. H. S.
8. *Bona nox*, L. (*Spreng. syst.* 2, p. 102.) 5. Carolina. Introduced into H. C. G. before 1814. Fl. ?
9. *herbacea*, L. (*Spreng. l. c.*;—*B. M.* 44, t. 1920.) 2. N. America. Introduced into H. C. G. before 1814. Fl. ?
10. *Pseudochina*, L. ? (*Spreng. l. c.*?—*Sloane hist.* 1, p. 31, t. 143, f. 1. ?—*Roxb. fl. ind.* 3, p. 792.) 5. Virginia. ? Jamaica. ? Garrow Hills. Introduced into H. C. G. in 1810, but had not fl. in 1814.



11. *lanceifolia*, Roxb. (*fl. ind.* 3, p. 792; not *S. lanceolata*, Wall. nor Lour.) 5 Silhet. Introduced into H. C. G. in 1811, but had not fl. in 1814. Its large, tuberous roots are much used by the natives in medicine. (Roxb.)
12. *glabra*, Roxb. (*fl. ind.* 3, p. 792.) 5 Garrow Hills. Silhet. Introduced into H. C. G. in 1811, but had not fl. in 1814. The natives of Silhet use a decoction of the large, tuberous, fresh root for the cure of sores and syphilitic complaints. (Roxb.)
13. *grandis*, Wall. MSS. (*S. macrophylla*, Roxb. not Willd.) In H. C. G. Fl. ?
14. *stipulacea*, Bojer. (*Hort. Mauritianus* 352.) Mauritius.
15. *anceps*, Willd, Mauritius. Bombay.

Genera allied to Smilacææ.

A. ASPIDISTRÆ.

Endl. gen. pl. 1, p. 155.

ROHDEA, Roth. (*Spreng. syst.* 2, p. 10, No. 1291;—*Endl. l. c.*)

1. *japonica*, Roth. (*Spreng. syst.* 2, p. 118, excl. syn.;—*Schult. syst.* 7, p. 172.—*Orontium japonicum*, Thunb.;—*B. M.* 23, t. 898.) 4 Japan. Fl. small, yellowish, C. S.; fr. 0.

TUPISTRA, Ker. (*Spreng. syst.* 2, p. 10, No. 1292;—*Endl. gen. pl.* 1, p. 156.)

1. *squalida*, Ker. (*B. M.* 40, t. 1655;—*B. Reg.* 9, t. 704;—*B. Cab. t.* 515;—*Spreng. syst.* 2, p. 118.—*Rohdea Tupistra*, *Schult. syst.* 7, p. 173.) 4 Amboyna. Fl. middle-sized, pale-dingy-purplish, scentless, R. S.; fr. 0.
2. *nutans*, Wall. (*B. Reg.* 15, t. 1223;—*B. M.* 58, t. 3054.—*Rohdea nutans*, *Schult. syst.* 8, p. 1653.) 4 Khassya Mountains. Fl. middle-sized, pale yellowish-brown, streaked with purple, Dec.; fr. 0.
- ? 3. *aurantiaca*, Wall. (*Cat.*) 4 Nepal. Introduced in 1830, but has not fl. yet.
4. *angustifolia*, Wall. Khassya Mountains.

ASPIDISTRA, Ker. (*Spreng. syst.* 2, p. 174, No. 1489;—*Endl. gen. pl.* 1, p. 156.)

1. *lurida*, Ker. (*B. Reg.* 8, t. 626;—*B. Reg.* 51, t. 2499;—*Spreng. syst.* 2, p. 243.—*Macrogynæ convallariæfolia*, Lk.) 4 China. Fl. middle-sized, greenish-dark-purple. Introduced in August, 1841.
2. *punctata*, Lindl. (*B. Reg.* 12, t. 977;—*Spreng. c. p. p.* 152.) 4 China. Fl. small, pale-green outside, dotted with purple inside. Introduced in August 1841.

B. OPHIOPOGONÆ.

Endl. gen. pl. 1, p. 156.

LIRIOPE, Lour. (*Lindl. Nat. Syst. p.* 354.—*Ophiopogon*, Ait.;—*Spreng. syst.* 2, p. 8, No. 1260;—*Endl. l. c.*)

1. *japonica*, Lindl. (*Ophiopogon japonicus*, Ker.; *B. M.* 27, t. 1063;—*Spreng. syst.* 2, p. 97.—*Convallaria japonica*, L. fil.;—*Red. lib.* 2, t.



- 80.—*Polygonastrum compressum*, Mönch.—*Slateria japonica*, Desv.—*Flüggea japonica*, Rich.;—*Schult. syst.* 7, p. 308.) ♀ Japan, China. Fl. smallish, whitish-blue, R. and C. S.
2. *spicata*, Lour. (*Ophiopogon spicatus*, Ker.; *B. Reg.* 7, t. 593;—*Spreng. l. c.*;—*B. Cab.* t. 694.—*Convallaria spicata*, Thumb.—*Flüggea spicata*, *Schult. syst.* 7, p. 309.) ♀ Japan, China, Kamaon, Nepal, Khassya Mountains, Cochin China. Fl. smallish, violet. Introduced in August 1841.
3. *latifolia*, Lindl. (*Ophiopogon latifolius*, Wall. MSS.) ♀ Native place? In H. C. G.
4. *Wightiana*, Lindl. (*Ophiopogon Wightianus*, Wall. MSS.) ♀ Native place? In H. C. G.
- TETA, Roxb. (MSS. in *Lamb. herb.*—*Peliosanthes*, *Spreng. syst.* 2, p. 9, No. 1274;—*Endl. gen. pl.* 1, p. 156.)
1. *viridiflora*, Roxb. (MSS. in *Lamb. herb.*; *H. B.* p. 24; *fl. ind.* 2, p. 165.—*Peliosanthes Teta*, Andr. *B. Repos.* 9, t. 605, (where Roxb.'s name is quoted, but rejected.) *B. M.* 32, t. 1302;—*Red. fl.* t. 415;—*Spreng. syst.* 2, p. 103;—*Schult. syst.* 7, p. 362.) ♀ Chittagong. Fl. small, deep-green, inodorous, March and April; fr. July and Aug.
2. *petiolaris*, (*Peliosanthes petiolaris*, Wall. MSS.) In H. C. G.

C. ERIOSPERMÆÆ.

Endl. gen. pl. 1, p. 156.ERIOSPERMUM, Jacq. (*Spreng. syst.* 2, p. 7, No. 1227;—*Endl. l. c.*)

1. *latifolium*, Jacq. (*ic. rar.* 2, t. 420;—*Spreng. syst.* 2, p. 76;—*Schult. syst.* 7, p. 502.—*E. latifolium*, a. *B. M.* 34, t. 1382.—*Ornithogalum capense*, L.) ♀ C. G. H. Fl. small, yellowish-white, with a mixture of green and sometimes purple, Feb.; fr. O.
2. *lanceifolium*, Jacq. (*ic. rar.* 2, t. 421;—*Spreng. l. c.*;—*Schult. o. c. p.* 503.) ♀ C. G. H. Fl. small, greenish-yellow, Feb. and March.

D. STEMONEÆ.

(Roxburghiaceæ, *Endl. gen. pl.* 1, p. 157.)STEMONA, Lour. (Roxburghia, W. Jones, *Spreng. syst.* 2, p. 171, No. 1433;—*Endl. l. c.*)

1. *gloriosoides*, (Roxburghia gloriosoides, Dryand.; Roxb. *Corom.* 1, t. 32; *fl. ind.* 2, p. 234, excl. syn. Lour. and Rumph. ?—*Spreng. syst.* 2, p. 214;—*J. Grah. Cat. B. pl.* p. 227.—*R. gloriosa*, Pers.—*B. M.* 36, t. 1500, excl. syn. Sm. and Rumph. ?) ♀ C. C. Mountains. Fl. large, greenish-white-reddish, fœtid, C. S.; fr. O.
2. *tuberosa*, Lour. (Roxburghia viridiflora, Sm. *exot. bot.* 1, p. 111, t. 57;—*Roxb. H. B.* p. 28;—*Wall. pl. as. rar.* 3, t. 282.—*Ubinum polyoides*, Rumph. 5, t. 129.) ♀ Moluccas, Cochin China, Siam, Chittagong, Silhet. Fl. large, green, H. S.; fr. C. S.

* *Polygonatum verticillatum*, All. (*Convallaria verticillata*, L.;—*E. B.* 2, t. 128.) ♀ Europe, Mussooree.—*P. multiflorum*, All. (*Convallaria*



multiflora, L. :—E. B. 4, t. 279.) ♀ Europe. Mussooree.—*P. cirrhifolium*, (Convallaria cirrhifolia, Wall. Cat.) ♀ Nepal.—*P. punctatum*, (Convallaria punctata, Wall. Cat.) ♀ Nepal.—*Smilax zeylanica*, L. 5 ♀ Ceylon.—*S. Villandia*, Hb. Buch.; Royle t. 94, f. 2. 5 ♀ Morung.—*S. dentata*, Humb. Cuba.—*S. papyracea*, Duham. Cayenne.—*S. longifolia*, Rich. Cayenne.—*S. oblongata*, Swz. W. Indies.—*S. lappacea*, Humb. Caracas.—*S. acuminata*, Willd. W. Indies.—*S. syphilitica*, Humb. S. America.—*S. havanensis*, Jacq. Havaunah.—*S. cumanensis*, Humb. Jamaica.—*S. elliptica*, R. Br. Tropical New Holland.—*S. latifolia*, R. Br. Tropical New Holland.—*Liriope intermedia*, Lindl.; (Ophiopogon intermedius, D. Don.; Royle, ill. t. 96, f. 1.) ♀ Nepal.—*Teta humilis*, (Peliosanthes humilis, Andr.; B. M. 37, t. 1532.) ♀ Penang.

ORDER CCXLI.—GILLIESIACEÆ, Lindl. Nat. Syst. p. 348.

Small herbaceous plants, of 2 genera, containing but a few species, natives of Chile. "Properties unknown." (Lindl.)

- * *Gilliesia graminea*, Lindl.; B. Reg. 12, t. 992; B. M. 54, t. 1716. ♀ Valparaiso.

ORDER CCXLII.—DIOSCOREACEÆ, Lindl. Nat. Syst. p. 359.

THE YAM TRIBE.

Twining shrubs, by Lindl. referred to 4 genera. Of these, Spreng. syst. enumerates 28 species for S. America, and the W. Indies, (Rajania and Dioscorea); 5 for Japan, (Rajania and Dioscorea); 4 for New Holland, (Dioscorea); 2 for N. America, (Dioscorea); and 2 for Europe and Middle Asia. In S. Africa have been discovered 3 species of *Testudinaria*, (Harvey), and in the E. Indies about 30 of *Dioscorea*, but of these several will undoubtedly be united on a rigid examination of authentic specimens.

The Yams, so important an article of food in all tropical countries, contain, before they are dressed, more or less acidity, which, however, generally evaporates by heat. This is particularly the case, observes Royle, with those species, that have compound leaves.

TESTUDINARIA, Salisb. (Lindl.; B. Reg. 11, t. 921;—Endl. gen. pt. p. 158, under Dioscorea.—Tamus, L.; Spreng. syst. 3, p. 894, No. 3187.)

1. *Elephantopus*, Burch. (Trav. 2, p. 147;—♂ B. Reg. 1. c.—Tamus Elephantopus, I. Herit.; Spreng. syst. 3, p. 905;—♀ B. M. 33, t. 1347.—Dioscorea Elephantopus, Spreng. c. p. p. 143.) ♀ C. G. H.



Has been cultivated for several years in the garden here, without fl.—The fleshy mass of the tubers are made use of as food by the Hottentots in times of scarcity, and are hence called Hottentot's bread. (Royle.)

Dioscorea, Plum. (*Spreng. syst.* 2, p. 15, No. 1380;—*Endl. gen. pl.* 1, p. 158.) *Yam*.

1. *globosa*, Roxb. (*fl. ind.* 3, p. 797;—*J. Grah. Cat. B. pl.* p. 218.) ইপড়ি আঁলু *Choopri-aloo*. ৭. Bengal, (Serampore), cultivated. Fl. small, white, R. S.—Most esteemed of all the yams among the Natives, as well as Europeans.
2. *alata*, L. (*Spreng. syst.* 2, p. 152;—*Roxb. fl. ind.* 3, p. 797;—*J. Grah. Cat. B. pl.* p. 218, excl. syn. *Rumph.*—*Rheed.* 7, t. 38.) থাম আঁলু *Khum-aloo*. ৭. Wild in both Concans. Cultivated on the coast of Coromandel and in Bengal. Fl. small, green, R. S.—Of yams it holds in Bengal the second place.
3. *purpurea*, Roxb. (*fl. ind.* 3, p. 799.) ৭. Only found in a cultivated state, under the name of রক্ত গরাণিয়া আঁলু *Rukto-guraniya-aloo*. Fl. small, whitish, R. S. Holds the third rank among the yams.
4. *rubella*, Roxb. (*fl. ind.* 3, p. 798;—*Rumph.* 5, t. 121.) গরাণিয়া আঁলু *Guraniya-aloo*. ৭. Only found in a cultivated state. Fl. small, whitish, very fragrant, R. S. In the estimation of the Natives this species holds the fourth place among the yams.
5. *atropurpurea*, Roxb. (*fl. ind.* 3, p. 800.) *Malacca yam*. ৭. Malacca. Pegu. Malay Islands. Fl. small, greenish-white, R. S. Extensively cultivated in its native place.
6. *aculeata*, L. (*Spreng. syst.* 2, p. 152;—*Roxb. fl. ind.* 3, p. 800;—*J. Grah. Cat. B. pl.* p. 218, excl. most of the syn.—*Rumph.* 5, t. 126.) মো আঁলু *Mou-aloo*. ৭. Bengal, (Serampore.) Goa, &c. Fl. small, whitish, R. S. Roots about 2 pounds or more in weight, not cultivated, but dug up in the woods during the cold season, and carried for sale to the bazars. (*Roxb.*)
7. *fasciculata*, Roxb. (*fl. ind.* 3, p. 801.) হসনি আঁলু *Soosni-aloo*. ৭. Bengal, (Serampore.) Fl. R. S. Cultivated to a considerable extent in the vicinity of Calcutta, not only for food, but to make starch of the roots. (*Roxb.*)
8. *pulchella*, Roxb. (*fl. ind.* 3, p. 801.) ৭. Chittagong. Fl. at the close of the R. S.
9. *crispata*, Roxb. (*fl. ind.* 3, p. 802.) ৭. Interior of Bengal. Fl. small, R. S.
10. *anguina*, Roxb. (*fl. ind.* 3, p. 803.) কুকুর আঁলু *Kookoor-aloo*. ৭. Bengal, Calcutta, (Serampore.) Fl. small, green, R. S.; fr. April.—Root not esteemed, though eaten by the poor when hard pressed for food. (*Roxb.*)
11. *nummularia*, Lam. (*Spreng. syst.* 2, p. 152;—*Roxb. fl. ind.* 3, p. 803.) সোঁরা আঁলু *Sora-aloo*. ৭. Bengal, Calcutta, (Serampore.) Fl. R. S. The root appears to be unfit for food. (*Roxb.*)



12. *glabra*, Roxb. (*fl. ind.* 3, p. 804.) 4. ∪ Lower Bengal. Peninsula of India, west of the Ganges. Silhet. Sukanaghur. Introduced into H. C. G. in 1812, but had not fl. in 1814.
13. *heterophylla*, Roxb. (*fl. ind.* 3, p. 804.) 4. ∪ Penang. Moluccas. Introduced into H. C. G. in 1798, and a ♂ plant fl. for the first time in Oct. and Nov. 1809.
14. *oppositifolia*, L. (*Spreng. syst.* 2, p. 154;—*Roxb. fl. ind.* 3, p. 804;—*J. Grah. Cat. B. pl.* p. 219.) 4. ∪ Coromandel. Mahabeshwur. The Ghauts, about Kandalla. Has been introduced into H. C. G.?
15. *dæmona*, Roxb. (*fl. ind.* 3, p. 805.—*Ubiun silvestre*, *Rumph.* 5, t. 127.) ♂ ∪ Goruckpore forests. Mouleccas. Fl. R. S.—*Root* very nauseous, even after it has been boiled. (*Roxb.*)
16. *pentaphylla*, L. (*Spreng. syst.* 2, p. 151.—*Roxb. fl. ind.* 3, p. 806;—*J. Grah. Cat. B. pl.* p. 218, excl. syn. *Rumph.*—*Rheed* 7, t. 34, 35.) कान्ते आलू *Kanta-aloo*. 4. ∪ Bengal, (Serampore.) Monghyr. Morung. Vendalore. Silhet. Kemaon. Not cultivated, though the root is large, white, and reckoned very wholesome and palatable, and eaten by the Natives. Fl. R. S.

* *Tamus communis*, L.; E. B. 2, t. 91. 4. England. S. Europe. Middle Asia.—*T. cretica*, L. 4. Candia.—*Dioscorea triphylla*, L. 4. ∪ Moluccas. Both Concans.—*D. verticillata*, Lam. Java.—*D. bulbifera*, L., New Holland. Both Concans.—*D. sativa*, L. Moluccas. Coromandel.—*D. cirrhosa*, Lour. Cochin China.—*D. versicolor*, Buch. Assam. Monghir. Nepal. Prome. Tavoy.—*D. acutangula*, Buch. Gualpara.—*D. tomentosa*, Spreng. Travancore. Gingee.—*D. belophylla*, (*D. sagittata*, Royle;—not Poir.) N. India.—*D. trifoliata*, Humb. Caracas.—*D. trifida*, L. fil. Surinam.—*D. cayennensis*, Lam. Cayenne.—*D. lutea*, Meyer. Surinam.—*D. altissima*, Lam. Martinique.—*D. piperifolia*, Humb. S. America.—*D. lucida*, R. Br. Tropical N. Holland.—*D. pumetata*, R. Br. Tropical N. Holland.—*D. transversa*, R. Br. Tropical N. Holland.—*Rajania quinquefolia*, L., W. Indies.—*R. cordata*, L., W. Indies.—*R. angustifolia*, Swz. St. Domingo.

ORDER CCXLIII.—LILIACEÆ, DC.—Endl. gen. pl. 1, p. 139.

THE LILY TRIBE.

Scattered widely over the world, but much more abundant in temperate climates than in the tropics. Aloes are mostly found in S. Africa. One species is a native of the W. Indies, and two or three more of Arabia and the East. Dracenas, the most gigantic of the order, attain their largest size in the Canaries. *Dracena Draco* is described in the *Annales des*



Science, 14, p. 140, as being between 70-75 feet high, 46½ feet in circumference at the base, and it was known to have been a very ancient tree in the year 1436. The northern flora comprehends for the most part the genera *Scilla*, *Hyacinthus*, *Allium* and *Ornithogalum*. In New Holland Liliaceæ form a distinctly marked feature of vegetation. (*Lindl.*) In the E. Indies about 66 species seem to have been discovered, viz. 1 of *Tulipa*; 4 of *Gagea*; 2 of *Lloydia*; 4 of *Fritillaria*; 4 of *Lilium*; 1 of *Notholirion*; 1 of *Methonia*; 1 of *Polianthes*; 1 of *Funkia*; 3 of *Scilla*; 9 of *Allium*; 2 of *Asphodelus*; 1 of *Hemerocallis*; 2 of *Anthericum*; 3 of *Chlorophytum*; 2 of *Chloropsis*; 4 of *Dianella*; 2 of *Rhuacophila*; 6 of *Asparagus*; and 13 of *Dracena*.

• A. TULIPÆÆ.

(Tulipacæ, *Endl. gen. pl.* 1, p. 139.)

TULIPA, Tournef. (*Spreng. syst.* 2, p. 6, No. 1209;—*Endl. a. c. p.* 140.)
Tulip.

1. *Gesneriana*, L. (*Spreng. syst.* 2, p. 63;—*Schult. syst.* 7, p. 376;—*B. M.* 28, t. 1135;—*B. Reg.* 5, t. 380.—*Roxb. H. B.* p. 24.) Common *Tulip*. ♀, Cappadocia, whence, according to Gesner, it was introduced into Europe. Introduced into H. C. G. in 1810, but had not fl. in 1814.
2. *stellata*, Hook. (*B. M.* 54, t. 2762;—*Schult. syst.* 8, p. 1684.—*T. Clusiana*, *Wall. MSS.* not *Red.*) ♀, Kemaon. Fl. large, yellowish-white, H. S.

FRITILLARIA, L. (*Spreng. syst.* 2, p. 6, No. 1210;—*Endl. gen. pl.* 1, p. 140.) *Fritillary*.

1. *Meleagris*, L. (*Spreng. syst.* 2, p. 63;—*Schult. syst.* 7, p. 395;—*E. B.* 9, t. 622.) ♀, Europe. Caucasus. N. Africa. Introduced here in 1820. Fl. ?

NOTHOLIRION, *Wall. MSS.*

1. *roseum*, *Wall. MSS.* (*Fritillaria Thomsoniana*, *Royle, ill. t.* 92, f. 1. ?) ♀, Gossain Than. In H. C. G. Fl. ?

LILIUM, L. (*Spreng. syst.* 2, p. 6, No. 1208;—*Endl. gen. pl.* 1, p. 141.) *Lily*.

1. *candidum*, L. (*Spreng. syst.* 2, p. 61;—*Schult. syst.* 7, p. 416;—*B. M.* 8, t. 278;—*Roxb. H. B.* p. 24.) ♀, Levant, Sardinia. Introduced into H. C. G. in 1799, but had not fl. in 1814.
2. *nepalense*, D. Don. (*pr. fl. nep.* p. 52;—*Spreng. syst.* 2, p. 62;—*Wall. pl. as. rar.* 3, t. 291.) ♀, Nepal. Has been introduced into H. C. G. Fl. ?
3. *giganteum*, *Wall.* (*Tent. fl. nep.* t. 12, 13, p. 21, excl. syn.;—*Spreng. syst. c. p.* p. 135;—*Schult. syst.* 7, p. 419.) ♀, Nepal. Has been introduced into H. C. G.
4. *Wallichianum*, *Schult.* (*syst.* 8, p. 1689.—*L. longiflorum*, *Wall. tent. fl. nep.* t. 29;—*D. Don. pr. fl. nep.* p. 52; not *Thunb.*) ♀, Nepal. Kemaon. Has been introduced into H. C. G. Fl. ?

Besides these, 12 species of *Lilium* have been introduced into the Serampore garden without however, producing a flower.



METHONICA, Herm. (*Lugd. bot. cat.* t. 689;—*Endl. gen. pl.* 1, p. 141.—*Gloriosa*, L.;—*Spreng. syst.* 2, p. 6, No. 1213.) *Gloriosa*.

1. *superba*, Lam. (*Enc.* 4, p. 133, excl. β .; *ill.* t. 247, f. 1;—*Red. lil.* t. 26.—*Gloriosa superba*, L.;—*Gärtn.* 1, p. 69, t. 18, f. 1;—*Spreng. syst.* 2, p. 65;—*Schult. syst.* 7, p. 365;—*Roxb. fl. ind.* 2, p. 143;—*B. Reg.* 1, t. 77;—*B. Repos.* t. 129;—*J. Grah. Cat. B. pl.* p. 221.—*Rhed. 7*, t. 57.) अजिंक्य Ulatchandul. 4. Ceylon. Coromandel. Guzerat. Concans. Mahableshwur. Tavoy. Bengal. (Serampore.) Morung. Fl. large, from the base to the middle first yellow, then blood-coloured, from thence to the apex blood-coloured, R. S.; fr. C. S. The root is said to be a violent poison. (*Roxb.*)

- * *Tulipa suaveolens*, Roth.; B. M. 22, t. 839. 4. S. Europe.—*T. præcox*, Ten. 4. Italy.—*T. Clusiana*, Red.; B. M. 34, t. 1390. 4. Europe.—*T. sylvestris*, L.; E. B. 1, t. 63. 4. Europe.—*Gagea pygmaea*, Schult. 4. Madrid.—*Calochortus pallidus*, Schult. fil. 4. Mexico.—*C. fuscus*, Schult. fil. 4. Mexico.—*Cyclotbothra lutea*, Lindl.; B. Reg. 20, t. 1663. 4. Mexico.—*Methonica virescens*, Endl. (*Gloriosa virescens*, Lindl.; B. M. 52, t. 2539.) 4. Guinea.

B. AGAPANTHÆ.

(*Endl. gen. pl.* 1, p. 141.)

FUNKIA, Spreng. (*syst.* 2, p. 5, No. 1190;—*Endl. l. c.*)

1. *coerulea*, (T. ovata, *Spreng. syst.* 2, p. 40;—*Schult. syst.* 7, p. 421.—*Hemerocallis coerulea*, *Andr. B. Repos.* 1, t. 6;—*Vent. Malm. t.* 18;—*Red. lil.* t. 106;—*Willd. enum. p.* 389, excl. syn. *Lilii cordifolii*, *Thunb.*;—B. M. 23, t. 894;—*Roxb. H. B.* p. 25.—*H. coerulea* β . flore violaceo, B. M. 35, t. 1433, annot.—*Bryocles ventricosa*, *Salisb. in Trans. hort. soc.* 1, p. 335.—*H. japonica*, β . *Willd. sp. p.* 198.) 4. Japan. China. Fl. large, violet-blue, R. S. but very rare.
2. *cordata*, J. Grah. (*Cat. B. pl.* p. 217.—*F. subcordata*, *Spreng. syst.* 2, p. 40;—*Schult. syst.* 7, p. 421.—*Hemerocallis cordata*, *Thunb. jap.* p. 143;—*Cav.*;—*Roxb. fl. ind.* 2, p. 168.—*H. japonica*, *Thunb. act. soc. Linn.* 2, p. 335;—*Red. lil.* t. 3.—B. M. 35, t. 1433.—*H. alba*, B. *Repos.* t. 194.—*H. plantaginica*, Lam.—*Aletris japonica*, *Houtt. pfl. syst.* 11, p. 486, t. 84, f. 2.) 4. Japan. China. Fl. very large, snow-white, sweet-scented, R. S.; fr. O.

AGAPANTHUS, L'Herit. (*Spreng. syst.* 2, p. 5, No. 1184;—*Endl. gen. pl.* 1, p. 141.)

1. *umbellatus*, L'Herit. (*Sert. angl.* 18;—*Spreng. syst.* 2, p. 29;—*Schult. syst.* 8, p. 997;—B. M. 14, t. 500.—*Crinum africanum*, L.—*Mauhlia linearis*, *Thunb.*) 4. C. G. H. Has been introduced into H. C. G. Fl. ?
2. *præcox*, Willd. (*Schult. syst.* 8, p. 998.—*A. umbellatus*, β . *præcox*, *Spreng. syst.* 2, p. 29.) 4. C. G. H. Introduced into H. C. G. Fl. ?



POLIANTHES, L. (*Spreng. syst.* 2, p. 7, No. 1225;—*Endl. gen. pl.* 1, p. 142.) *Tuberose*.

1. *tuberosa*, L. (*Spreng. syst.* 2, p. 75;—*Schult. syst.* 7, p. 625;—*Ruiz. and Pav. fl. per.* 3, p. 66.—*Lour. fl. cochinch.* 1, p. 244;—*B. Reg.* 1, t. 63;—*B. M.* 43, t. 1817;—*Roxb. fl. ind.* 2, p. 166;—*J. Grah. Cat. B. pl.* p. 217.—*Amica nocturna*, *Rumph.* 5, t. 98.) रुजुनी गुन्धा *Rujunee-gundha*. ५ No doubt a native of Mexico or S. America. Gardens in India, Ceylon and Java. Fl. large, white, fragrant, R. S.; fr. O.
β. *plena*. Fl. double, fragrant, R. S.

This plant emits its scent most strongly after sunset, and has been observed in a sultry evening, after thunder, when the atmosphere was highly charged with electric fluid, to dart small sparks, or scintillations of lucid flame, in great abundance, from such of its flowers as were fading. (*Edinb. phil. journ.* 3, p. 415.)

- * *Funkia albo-marginata*, Hook.; *B. M.* 65, t. 3657. ५ Japan.—*F. Sieboldiana*, Hook.; *B. M.* 65, t. 3663. (*F. Sieboldii*, Lindl.; *B. Reg.* 1839, t. 50.—*Hemerocallis Sieboldiana* Lodd.; *B. Cab.* t. 1869.) ५ Japan.—*Milla biflora*, Cav.; *B. Reg.* 18, t. 1555. ५ Mexico.—*Bes-sera elegans*, Schult. (*Pharium fistulosum*, Herb.; *B. Reg.* 18, t. 1546.) ५ Mexico.—*Polianthes gracilis*, Lk. ५ Brazil.—*P. maculata*, Mart. ५ Mexico.

C. ALOËÆ.

(*Aloineæ*, *Endl. gen. pl.* 1, p. 143.)

SANSEVIERA, Thunb. (*Spreng. syst.* 2, p. 8, No. 1254;—*Endl. t. c.*)

1. *guineënsis*, Willd. (*Spreng. syst.* 2, p. 93;—*Schult. syst.* 7, p. 355;—*B. M.* 29, t. 1180, excl. syn. Cavan.—*Aloe guineënsis*, Jacq.—*Aletris guineënsis*, Jacq. *vind.* 1, p. 36, t. 84.) ५ Guinea. C. G. H. Fl. large, greenish-white, during the evening and night very fragrant, R. S., but very rare; fr. O.
2. *Roxburghiana*, Schult. (*syst.* 7, p. 357;—*Roxb. Corom.* 2, t. 184; *fl. ind.* 2, p. 161, excl. syn. L. and Willd.;—*J. Grah. Cat. B. pl.* p. 218, excl. syn. Rheed. and Ker.) मूरा *Mourba*. Bowstring Hemp. ५ Peninsula of India. Bengal, (Serampore,) &c. Fl. middle-sized, greenish-white, somewhat fragrant, and fr. R. S. This plant yields fibres of a fine and very strong quality, fitted for bowstrings, fishing lines, as well as for cordage, which, indeed, is made from it on the Coromandel coast. Roxburgh is of opinion, that the fine fibres, called China grass, are made from this plant, which he strongly recommends as a profitable cultivation in sandy soils of S. India. (*Royle*.)
3. *carnea*, Andr. (*B. Repos.* t. 361;—*Spreng. syst.* 2, p. 94;—*Schult. syst.* 7, p. 360, and 8, p. 1678;—*Red. lil.* t. 323.—*S. sarmentosa*, Jacq. *fragm.* p. 68, t. 102, p. 83, t. 134, f. 4.—*S. sessiliflora*, Ker.; *B. M.* 19, t. 739 and 35, t. 1431, annot.;—*Dum. Courset. herb. gen. de l'amat.* t. 124.—*Sanseviella*, *Reichb. consp. regn. veg.* p. 44.) ५ China.



Fl. smallish, dull rose-coloured, fragrant. Has not fl. here, though cultivated for many years.

KNIPHORIA, Mönch. (*Endl. gen. pl.* 1, p. 143.—*Tritoma*, Ker.;—*Spreng. syst.* 2, p. 6, No. 1220.)

1. *Uvaria*, Endl. (*K. aloides*, Mönch. meth. p. 631.—*Tritoma Uvaria*, Ker.; *B. M.* 20, t. 758;—*Spreng. syst.* 2, p. 74;—*Schult. syst.* 7, p. 629.—*Aloë Uvaria*, L. sp. p. 460.—*Aletris Uvaria*, L. Mant.—*Veltheimia Uvaria*, Willd.;—*Jacq. fragm.* 7, t. 4, f. 9.) ♀. C. G. H. Fl. largish, white closed red, when expanded yellow, fetid. Introduced in 1822. Fl. ?

2. *media*, Endl. (*Tritoma media*, Ker.; *B. M.* 20, t. 744;—*Spreng. l. c.*;—*Schult. syst.* 7, p. 630.—*Aletris sarmentosa*, B. Repos. t. 54.—*Veltheimia repens*, B. Repos. recens. 18, 63.—*V. sarmentosa*, Willd.—*V. media*, Donn. hort. cant.) ♀. C. G. H. Fl. largish, pale-yellow, verging on orange, with violet bractes. Introduced in 1822. Fl. ?

3. *pumila*, Endl. (*Tritoma pumila*, Ker.; *B. M.* 20, t. 764;—*Spreng. l. c.*;—*Schult. l. c.*—*Aletris pumila*, Ait.—*Veltheimia pumila*, Willd.—*V. abyssinica*, Red. lil. t. 184.) ♀. C. G. H. Abyssinia. Fl. smallish, miniated yellow, with bluish bractes. Introduced in 1822. Fl. ?

ALOË, Tournef. (*Spreng. syst.* 2, p. 6, No. 1218;—*Endl. gen. pl.* 1, p. 143.)

α. *APICRA*, Schult. syst. 7, p. 631.

1. *retusa*, L. (*Spreng. syst.* 2, p. 68, excl. syn.;—*Schult. l. c.*;—*B. M.* 13, t. 455.) ♀. C. G. H. Fl. smallish, white, C. S.; fr. 0.

2. *albicans*, Haw. (*Spreng. l. c.*;—*Schult. syst.* 7, p. 636;—*B. M.* 35, t. 1452.) ♀. C. G. H. Fl. smallish, greenish-white, rose-coloured, C. S., but rare; fr. 0.

3. *cymbifolia*, Schrad. (*N. Journ.* 2, B. I, S. p. 17, t. 2;—*Schult. syst.* 7, p. 637.—*A. cymbiformis*, Haw.;—*Spreng. l. c.*) ♀. C. G. H. Fl. middle-sized, greenish-white, with a purplish base, C. S., but rare; fr. 0.

4. *reticulata*, Haw. (*Spreng. l. c.*;—*Schult. o. c. p.* 639.—*A. arachnoïdes* γ. *reticulata*, *B. M.* 32, t. 1314; 33, t. 1361, γ. *annot.*—*A. Pumilio*, *Jacq. schönbr. t.* 421.) ♀. C. G. H. Fl. middle-sized, white, slightly tinged with rose, C. S.; fr. 0.

5. *atrovirens*, DC. (*pl. gr.* t. 51;—*Spreng. o. c. p.* 69;—*Schult. o. c. p.* 640.—*A. arachnoïdes*, *B. M.* 32, under t. 1314, β.—*A. arachnoïdes* β. *pumila*, *B. M.* 33, t. 1361.) ♀. C. G. H. Fl. middle-sized, greenish-white, streaked with rose, C. S.; fr. 0.

6. *translucens*, Haw. (*Spreng. o. c. p.* 68, excl. syn.;—*Schult. o. c. p.* 641.—*A. arachnoïdes* δ. *translucens*; *B. M.* 33, under t. 1361;—*B. M.* 33, t. 1417, excl. syn. *Jacq.*) ♀. C. G. H. Fl. smallish, greenish-white, slightly tinged with rose, C. S.; fr. 0.

7. *arachnoïdes*, Mill. (*Spreng. l. c.* excl. syn.—*Schult. o. c. p.* 642.—*B. M.* 20, t. 756;—*DC. pl. gr. t.* 50.—*A. arachnoïdes* α. *communis*, B.



- M. 32 and 33, under *t.* 1314, 1361 and 1417.) ♀ C. G. H. Fl. middle-sized, greenish-lilac, C. S., but rare; fr. 0.
8. *mirabilis*, Haw. (*Spreng. o. c. p.* 59;—*Schult. o. c. p.* 643;—*B. M.* 30, *t.* 1354.) ♀ C. G. H. Fl. middle-sized, greenish-white, streaked with red, C. S. but rare; fr. 0.
9. *recurva*, Haw. (*Spreng. l. c.*;—*Schult. o. c. p.* 644;—*B. M.* 33, *t.* 1353, excl. syn. A. tricolor α . venosa.) ♀ C. G. H. Fl. middle-sized, greenish-white, streaked with purple, C. S. but rare; fr. 0.
10. *attenuata*, Haw. (*Spreng. l. c.*;—*Schult. o. c. p.* 645.—A. Radula, *B. M.* 33, *t.* 1345, not Jacq.) ♀ C. G. H. Fl. middle-sized, greenish-white, streaked with red, in the bud greenish-rose-coloured, C. S.; fr. 0.
11. *margaritifera*, L. (*Spreng. l. c.* excl. syn.;—*Schult. o. c. p.* 648.—A. margaritifera α . major, *B. M.* 33, under *t.* 1360;—*DC. pl. gr. t.* 57, *A.*) ♀ C. G. H. Fl. middle-sized, green, C. S.; fr. 0.
12. *minor*, Schult. (*l. c.*—A. margaritifera, var. media, *B. M.* 21, *t.* 815.) ♀ C. G. H. Fl. middle-sized, greenish-white, tipped with pale rose, C. S. but rare; fr. 0.
13. *brevis*, Schult. (*o. c. p.* 649.—A. margaritifera γ . minima, *B. M.* 33, *t.* 1360, not of others.) ♀ C. G. H. Fl. middle-sized, green, white-edged, C. S.; fr. 0.
14. *viscosa*, L. (*Spreng. o. c. p.* 70, excl. syn.;—*Schult. o. c. p.* 652;—*DC. pl. gr. t.* 16;—*B. M.* 21, *t.* 814.) ♀ C. G. H. Fl. middle-sized, purple-streaked, greenish-white, C. S. but rare; fr. 0.
15. *tortuosa*, Haw. (*Spreng. l. c.* excl. syn.;—*Schult. o. c. p.* 655.—A. rigida, *B. M.* 33, *t.* 1337, not DC. and excl. A. expansa, Haw.) ♀ C. G. H. Fl. middle-sized, greenish-white, purple-tipped, C. S. but very rare; fr. 0.
16. *imbricata*, Haw. (*Spreng. l. c.*;—*Schult. o. c. p.* 657.—A. spiralis, *DC. pl. gr. t.* 56;—*Jacq. fragm. p.* 72, *t.* 110;—*B. M.* 35, *t.* 1455.) ♀ C. G. H. Fl. small, pale-greenish, yellowish-tipped. Has not fl. yet.
17. *pentagona*, Jacq. (*Fragm. p.* 72, *t.* 111;—*Schult. o. c. p.* 659;—*B. M.* 33, *t.* 1338.) ♀ C. G. H. Fl. middle-sized, green, the segments greenish-yellow, each with a green spot at the base. Has not fl. here.
3. GASTEBIA, *Schult. syst.* 7, p. 660.
18. *pulchra*, Jacq. (*Hort. schönbr.* 4, p. 10, *t.* 419; *fragm. p.* 73, *t.* 112, *f.* 2, 3;—*Spreng. syst.* 2, p. 70, excl. syn.;—*Schult. o. c. p.* 660.—A. maculata, *B. M.* 20, *t.* 765;—*DC. pl. gr. t.* 91.) ♀ C. G. H. Fl. middle-sized, with the tube rose-coloured, and the limb pale with green streaks, C. S.; fr. 0.
19. *obliqua*, Haw. (*Spreng. o. c. p.* 70, excl. syn.;—*Schult. o. c. p.* 661.—A. Lingua, α . *B. M.* 25, *t.* 979, excl. syn. Knorr. and Commel.) ♀ C. G. H. Fl. middle-sized, at base rose-coloured, with the tube green, and the rest nearly white, C. S.; fr. 0.



20. *nigricans*, Haw. (Spreng. o. c. p. 71;—Schult. o. c. p. 663.—A. Lingua. β . B. M. 22, t. 838; 32, t. 1322, ϵ .) 4. C. G. H. Fl. largish, at base reddish, otherwise green, C. S.; fr. O.
21. *angulata*, Willd. (Spreng. o. c. p. 70, excl. syn.; Schult. o. c. p. 667.—A. Lingua, B. M. 32, t. 1322. β .) 4. C. G. H. Fl. largish, at base reddish, otherwise green, C. S.; fr. O.
22. *sulcata*, Salm. Dyck. (Schult. o. c. p. 668.—A. linguiformis, DC. pl. gr. B. t. 68, the first.—A. Lingua, B. M. 32, t. 1322, δ .) 4. C. G. H. Fl. largish, reddish, at the middle white, at the apex bright-green, C. S.; fr. O.
23. *verrucosa*, Ait. (Spreng. o. c. p. 71;—Schult. o. c. p. 672;—B. M. t. 837;—Roxb. H. B. p. 25.) 4. C. G. H. Fl. largish, at base reddish, otherwise green, C. S.; fr. O.
24. *intermedia*, Haw. (Spreng. l. c.;—Schult. o. c. p. 673.—A. Lingua, α . B. M. 32, t. 1322.) 4. C. G. H. Fl. largish, whitish-blood-red, greenish-tipped, C. S.; fr. O.
25. *carinata*, Mill. (Spreng. l. c.;—Schult. o. c. p. 675.—A. carinata, α . B. M. 33, t. 1331, excl. of the fig. on the right side.) 4. C. G. H. Fl. largish, at base scarlet, above it greenish, streaked with sulphur, C. S.; fr. O.
26. *nitida*, Salm. Dyck. (Spreng. l. c.;—Schult. o. c. p. 677;—B. M. 49, t. 2304.) 4. C. G. H. Fl. middle-sized, at base miniated, above it, yellowish-green, C. S.; fr. O.
27. *acinacifolia*, Jacq. (Ecl. p. 49, t. 31;—Schult. o. c. p. 679;—B. M. 50, t. 2369.) 4. C. G. H. Fl. $1\frac{1}{2}$ inch, with a rose-coloured tube, and a greenish limb, C. S.; fr. O.
- γ . ALOS, Schult. syst. 7, p. 682.
28. *acuminata*, Haw. (Spreng. o. c. p. 71;—Schult. o. c. p. 685.—A. humilis, B. M. 20, t. 757, not of others.) 4. C. G. H. Fl. 2 inches, before they expand scarlet, afterwards yellow, at the apex orange with green streaks, C. S. but very rare; fr. O.
29. *virens*, Haw. (Spreng. o. c. p. 72;—Schult. o. c. p. 686;—B. M. 33, t. 1355.) 4. C. G. H. Fl. $1\frac{1}{2}$ -2 inches, yellowish-scarlet, towards the apex greenish, C. S.; fr. O.
30. *prolifera*, Haw. (Spreng. l. c.;—Schult. l. c.—A. brevifolia, B. Reg. 12, t. 996.) 5. C. G. H. Fl. $1\frac{1}{2}$ inch, yellowish-red, at apex greenish. Has not fl. here.
31. *depressa*, Haw. (Spreng. o. c.;—Schult. o. c. p. 688;—B. M. 33, t. 1332, excl. syn. Mill.) 5. C. G. H. Fl. 3 inches, deep scarlet, yellow-streaked, towards the apex yellowish and green-streaked, C. S. but rare; fr. O.
32. *glauca*, Mill. (Spreng. o. c.;—Schult. o. c. p. 690.) 5. C. G. H.
- β . *minor*, Haw. (A. rhodacantha, B. M. 31, t. 1278;—DC. ?) 5. C. G. H. Fl. $1\frac{1}{2}$ inch, reddish, towards apex greenish. Has not fl. here.



33. *barbadensis*, Mill. (*Schult. o. c. p.* 693.—*A. vulgaris*, DC. *pl. gr. p.* 27;—*Spreng. 2, p.* 72;—*Lam. enc. 1, p.* 86, excl. syn. *Forsk.*—*Rheed. 11, t. 3.*) 5 Common in gardens in India. Fl. large, yellow, with the three inner segments at the apex somewhat orange, C. S.; fr. O. Yields the Barbadoes aloes.
34. *indica*, Royle. (*ill. p.* 390.—*A. perfoliata*, *Roxb. fl. ind. 2, p.* 167, excl. syn. *Rheed. and Willd.*;—*J. Grak. Cat. B. pl. p.* 218, excl. syn. *As. res.*) 5 *ঘুত কুমারী Ghrito-koomaree*. 5 Common in dry situations in the North-west Provinces of India. Cultivated in gardens. Fl. large, red, R. S.; fr. O.
35. *variegata*, L. (*Spreng. 2, p.* 72;—*Schult. o. c. p.* 696;—DC. *pl. gr. t. 21*, excl. syn. *Till.*;—*B. M. 15, t. 513*;—*Roxb. H. B. p. 25.*) 4. C. G. H. Fl. 15-16 lines, externally reddish, internally white. Introduced into H. C. G. in 1806, but had not fl. up to 1814.
36. *serrulata*, Haw. (*Spreng. l. c.*;—*Schult. o. c. p.* 697;—*B. M. 34, t. 1415.*) 5 C. G. H. Fl. $1\frac{1}{2}$ inch, pale miniated flesh-coloured, towards apex green-streaked. Has not fl. here.
37. *micracantha*, Haw. (*Spreng. o. c. p.* 71;—*Schult. l. c.*;—*B. M. 48, t. 2272.*) 5 C. G. H. Fl. $1\frac{1}{2}$ inch, rose-coloured, towards apex greenish. Has not fl. here.
38. *saponaria*, Haw. (*Schult. l. c. t.* 699.—*A. saponaria*, *a. B. M. 36, t. 1460.*) 5 C. G. H. Fl. $1\frac{1}{2}$ inch, bright scarlet, with the segments at the apex sulphur-margined, C. S., but rare; fr. O.
39. *latifolia*, Haw. (*Spreng. o. c. p.* 73;—*Schult. o. c. p.* 700, excl. *B. M. 36, t. 1460.*—*A. saponaria* β . *latifolia*, *B. M. 33, t. 1346.*) 5 C. G. H. Fl. 2 inches, bright scarlet, at apex yellowish, C. S.; fr. O.
40. *purpurascens*, Haw. (*Schult. syst. 8, p.* 1715; *ibid. 7, p.* 692, excl. *A. vera*. *Lam.*, *rubescens*, DC. and *officinalis* and *vacillans*, *Forsk.* *A. soccotrina*, β . *major*, *B. M. 36, t. 1474.*) 5 C. G. H. Fl. $1\frac{1}{4}$ inch, before expansion deep scarlet, green tipped, afterwards scarletish, white streaked, at apex green. Has not fl. here.
41. *obscura*, Mill. (*Spreng. o. c. p.* 70;—*Schult. o. c. p.* 700.—*A. picta*, *B. M. 32, t. 1323*;—DC. *pl. gr. t. 97.*) 5 C. G. H. Fl. 2 inches, deep scarlet, inside and towards apex greenish, C. S.; fr. O.
42. *soccotrina*, Lam. (*Spreng. o. c. p.* 73;—*Schult. o. c. p.* 701;—DC. *pl. gr. t. 85*, excl. syn. *Munting*;—*J. Grak. Cat. B. pl. p.* 218, excl. syn. —*A. perfoliata*, var. *succotrina*, *B. M. 14, t. 472.*) 5 *Soccotora*. Fl. $1\frac{1}{4}$ inch, at base scarlet, in the middle pale, at apex greenish, C. S.; fr. O.
43. *plicatilis*, Mill. (*Spreng. l. c.*;—*Schult. o. c. p.* 707;—*B. M. 13, t. 457.*) 5 Africa. Fl. 1 inch, red, towards the apex pale yellowish-greenish. Has not fl. here.
44. *arborescens*, Mill. (*Spreng. l. c.*;—*Schult. o. c. p.* 708;—DC. *pl. gr. t. 38*;—*B. Repos. t. 468.*) 5 C. G. H. Fl. $1\frac{1}{2}$ inch, scarlet, towards apex greenish, inner segments yellow, with a greenstreak. Has not fl. here.



45. *africana*, Mill. (*Spreng. l. c.*—*Schult. o. c. p.* 709.)
β. angustior, (*B. M.* 51, *t.* 2517.) ♂ C. G. H. Fl. 2½ inches, yellow, green-tipped. Has not fl. here.
46. *ferox*, Lam. (*Spreng. l. c.*;—*Schult. o. c. p.* 710;—*DC. pl. gr. t.* 32;—*B. M.* 45, *t.* 1975.) ♂ C. G. H. Petals 9 lines, the three outer ones reddish-white, at apex green; the inner ones white, with a longitudinal green line and a dark violet apex; the stamens long, exserted, below white, above yellow; the anthers orange, afterwards brown, C. S., but very rare; fr. 0.
47. *Commelyni*, Willd. (*Spreng. o. c. p.* 74;—*Schult. o. c. p.* 712.—*A. mitreiformis*, *B. M.* 31, *t.* 1270, excl. most of the syn.) ♂ C. G. H. Fl. nearly 2½ inches, scarlet, inside yellowish, C. S., but very rare; fr. 0.
48. *distans*, Haw. (*Schult. o. c. p.* 714.—*A. mitreiformis*, *β. brevifolia*, *B. M.* 33, *t.* 1362.) ♂ C. G. H. Fl. 2 inches, scarlet, internally and towards the apex greenish. Has not fl. here.
49. *macra*, Haw. (*Spreng. o. c. p.* 73;—*Schult. o. c. p.* 703, and 8, *p.* 1715.—*A. rufo-cincta*, *Haw.*;—*Lomatophyllum macrum*, *Lk.*; *Spreng. l. c.*;—*Schult. l. c.*) ♂ Mascarenhas Islands, and not India, according to DC. Lately introduced.

(Of the genus *Aloë*, Dr. Carey's printed papers enumerate, in all, 104 species, which, from time to time were introduced into the Serampore garden; but as most of them are now dead, and we have found ourselves unable to extricate their specific names from the obscurity in which they are involved, we have thought it best to put down only such species, as have come within our own observation.)

LOMATOPHYLLUM, Willd. (*Spreng. syst. 2, p.* 6, No. 1219;—*Endl. gen. pl. 1, p.* 144.)

1. *borbonicum*, Willd. (*Spreng. syst. 2, p.* 74;—*Schult. syst. 7, p.* 361.—*Aloë purpurea*, *Lam.*—*A. marginalis*, *DC. pl. gr. t.* 31.—*A. marginata*, *Willd.*—*Dracena marginata*, *Ait.* not Dalm.—*D. dentata*, *Pers.*—*Phylloma aloiflorum*, *Ker.*; *B. M.* 38, *t.* 1585.—*P. borbonicum*, *Haw. suppl. pl. succ. p.* 43.) ♂ Bourbon. Fl. 9 lines, yellow, outside brownish-red lined, inside and at apex greenish. Has been introduced into H. C. G. Fl. ?

YUCCA, L. (*Spreng. syst. 2, p.* 5, No. 1191;—*Endl. gen. pl. 1, p.* 144.)

1. *aloifolia*, L. (*Spreng. syst. 2, p.* 41;—*Schult. syst. 7, p.* 716;—*DC. pl. gr. t.* 40;—*Red. lil. t.* 40, 402;—*B. M.* 41, *t.* 1700;—*J. Grah. Cat. B. pl. p.* 221.) ♂ Jamaica. Vera Cruz. Carolina. Florida. Fl. 2 inches, before they expand greenish-dark-purple, afterwards white, with a violet spot at the base, at last violet along the middle nerves, R. S.; fr. 0.
2. *Draconis*, L. (*Spreng. l. c.*;—*Schult. l. c.*;—*Gürt. fr. 2, p.* 34, *t.* 85, *f.* 9.) ♂ S. Carolina. Introduced in 1820, but has not fl. yet.
3. *filamentosa*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 718;—*B. M.* 23, *t.*



900;—*Red. lil. t.* 227;—*Roxb. H. B. p.* 25.) 5 Carolina. Virginia. Introduced into H. C. G. in 1799, but had not fl. up to 1814.

4. *glaucescens*, Haw. (*Schult. o. c. p.* 719.—*Y. angustifolia*, *Hortul.* not Pursh. nor Spreng.) 5 N. America. Introduced here in 1820, but has not fl.

5. *gloriosa*, L. (*Spreng. l. c.*, excl. syn.;—*Schult. o. c. p.* 720;—*Red. lil. t.* 326;—*B. M.* 31, *t.* 1260;—*Roxb. H. B. p.* 25;—*J. Grah. Cat. B. pl. p.* 221; not Andr.) 5 Canada, Carolina, Virginia, Peru. Fl. $1\frac{1}{2}$ inch, before they expand greenish-white, afterwards mostly white, R. S.; fr. 0.

* *Sansevieria longiflora*, Sims.; *B. M.* 53, *t.* 2634. 4. Country unknown.—*S. zeylanica*, Willd.; *B. Reg.* 2, *t.* 160, not *Roxb.* 4. Ceylon.—*S. aethiopica*, Thunb. 4. C. G. H.—*S. lanuginosa*, Willd.; *Rheed.* 11, *t.* 42. 4. Sandy places on the Malabar Coast.—*S. fulvocincta*, Haw. 4. Brazil.—*S. javanica*, Bl. 4. Java.—*S. flexuosa*, Bl. 4. Java.—*S. fruticosa*, Bl.; *Rumph.* 4, *t.* 35. 5 Moluccas. Java.—*Aloë Serra*, DC. 5 C. G. H.—*A. abyssinica*, Lam. 5 Abyssinia.—*A. frutescens*, Salm. Dyck. 5 C. G. H.—*A. nobilis*, Haw. 5 C. G. H.—*Yucca acaulis*, Humb. and Bonpl. 5 Caracas, Cumana.—*Y. recurva*, Salisb. 5 Georgia.—*Y. glauca*, Sims.; *B. M.* 53, *t.* 2662. 5 Carolina.

D. ASPHODELÆÆ.

Endl. gen. pl. 1, *p.* 144.

a. *Hyacinthinæ* (Hyacintheæ, *Endl. l. c.*)

MUSCARI, Tournef. (*Spreng. syst.* 2, *p.* 6, No. 1216;—*Endl. l. c.*) *Grape-Hyacinth.*

1. *moschatum*, Tournef. (*Spreng. syst.* 2, *p.* 65;—*Schult. syst.* 7, *p.* 590;—*B. M.* 19, *t.* 734.—*Hyacinthus Muscari*, L.) 4. Asia. Introduced into Europe before 1554. Fl. small, yellowish, fragrant, quickly fading. Introduced here in 1818. Fl.?

2. *botryoides*, Mill. (*Spreng. o. c. p.* 66;—*Schult. o. c. p.* 591.—*Hyacinthus botryoides*, L.—*B. M.* 5, *t.* 157.) 4. Middle and S. Europe. Fl. small, dark blue, strongly scented. Introduced here in 1818. Fl.?

BELLEVALIA, Lapéyr. (*Endl. gen. pl.* 1, *p.* 144.)

1. *romana*, Reichb. (*fl. germ. exc. p.* 105.—*B. operculata*, Lapéyr.—*Hyacinthus romannus*, L.—*Spreng. syst.* 2, *p.* 65, excl. syn.;—*Schult. syst.* 7, *p.* 587.—*Scilla romana*, Ker.; *B. M.* 27, *t.* 939.) 4. S. France. Pyrenees. Italy. Sicily. Barbary. Fl. small, lower ones yellowish-brown, at base greenish, above suffused with purple, upper ones blue. Introduced in 1815. Fl.?

HYACINTHUS, L. (*Spreng. syst.* 2, *p.* 6, No. 1215;—*Endl. gen. pl.* 1, *p.* 144.)

1. *orientalis*, L. (*Spreng. syst.* 2, *p.* 65;—*Schult. syst.* 7, *p.* 580;—*B. Reg.* 12, *t.* 995.) 4. Levant, near Bagdad and Aleppo. Barbary. S. France. Fl. large, bright-blue, fragrant, C. S. 1840.



VELTHERMIA, Gled. (*Spreng. syst.* 2, p. 7, No. 1222;—*Endl. gen. pl.* 1, p. 144.)

1. *viridifolia*, Jacq. (*hort. schönbr.* 1, p. 41, t. 78;—*Spreng. syst.* 2, p. 75;—*Schult. syst.* 7, p. 628;—*B. Cab. t.* 1245;—*J. Grah. Cat. B. pl. p.* 218.—*V. capensis*, *Red. lil. t.* 193.—*V. undulata*, *Mönch.*—*Aletris capensis*, *L. mant.* excl. syn. Buxb.;—*B. M.* 14, t. 501.) 4. C. G. H. Fl. $1\frac{1}{2}$ -2 inches, reddish flesh-coloured, unpleasantly smelling, R. S.; fr. 0.

UROPETALUM, Ker. (*Spreng. syst.* 2, p. 7, No. 1230;—*Endl. gen. pl.* 1, p. 144;)

1. *viride*, Ker. (*Spreng. syst.* 2, p. 78;—*Schult. syst.* 7, p. 620.—*Hyacinthus viridis*, *L.*—*Jacq. ic. rar.* 1, t. 66;—*Red. lil.* 5, t. 203.) 4. C. G. H. Fl. 10 lines, dark-green, inodorous. Introduced in March 1841. Has not fl. yet.

AGRATHIS, Lk. (*Endl. gen. pl.* 1, p. 145.)

1. *campanulata*, Reichb. (*fl. germ. exc. p.* 106.—*Scilla campanulata*, *Ait.*;—*Spreng. syst.* 2, p. 66;—*Schult. syst.* 7, p. 575, and 8, p. 1708;—*Red. lil. t.* 435;—*B. M.* 4, t. 128.—*S. hyacinthoides*, *Jacq. ic. rar. t.* 65.) 4. Spain. Portugal. Fl. $6\frac{1}{2}$ lines, pale-bluish, outside more intensely coloured, C. S.; fr. 0.
2. *nutans*, Reichb. (*fl. germ. exc. p.* 105.—*Scilla nutans*, *Sm.*;—*E. B.* 6, t. 377;—*Spreng. syst.* 2, p. 66;—*Schult. syst.* 7, p. 577, and 8, p. 1708.—*S. non scripta*, *Red. t.* 224;—*B. M.* 36, t. 1461.) 4. Europe, from England throughout E. and S. Europe. Fl. 6-10 lines, blue, sweet-scented, C. S.; fr. 0.

LACHENALIA, Jacq. (*Spreng. syst.* 2, p. 7, No. 1229;—*Endl. gen. pl.* 1, p. 145.)

1. *hyacinthoides*, Jacq. (*ic. rar.* 2, t. 382;—*Spreng. syst.* 2, p. 78;—*Schult. syst.* 7, p. 599.—*Hyacinthus orchoides*, *Jacq. hort. vind.* 2, t. 178.)
 β . *foliis maculatis*, (*L. contaminata*, *Ait.*;—*B. M.* 34, t. 1401, excl. syn. *L.* and *Lachenalia orthopetala*, *Jacq.*) 4. C. G. H. Fl. small, white-reddish. Introduced in March 1841. Has not fl. yet.
2. *angustifolia*, Jacq. (*ic. rar.* 2, t. 381;—*Spreng. l. c.*;—*Schult. o. c.* p. 600;—*B. M.* 19, t. 735.) 4. C. G. H. Fl. 4 lines in diameter, white, the segments on both sides marked with a green or brown spot. Introduced in March 1841. Has not fl. yet.
3. *orchoides*, *Ait.* (*Spreng. l. c.*;—*Schult. o. c.* p. 603.—*L. orchoides*, γ . *B. M.* 22, t. 854, excl. syn. *Jacq.*—*Phormium hyacinthoides*, *L. fl. suppl.*) 4. C. G. H. Introduced in March 1814. Has not fl. yet.
4. *pallida*, *Ait.* (*Spreng. l. c.* excl. syn.;—*Schult. o. c.* p. 605;—*Red. lil. t.* 22;—*B. Reg.* 16, t. 1350.) 4. C. G. H. Introduced in March 1841. Has not fl. yet.
5. *pustulata*, *Jacq.* (*ic. rar.* 2, t. 386;—*Spreng. o. c.* p. 77;—*Schult.*



- o. c. p.* 609;—*B. M.* 21, *t.* 817.) ♀ C. G. H. Introduced in March, 1841. Has not fl. yet.
6. *violaceæ*, Jacq. (*ic. rar.* 2, *t.* 394;—*Spreng. l. c.*;—*Schult. o. c. p.* 610.) ♀ C. G. H. Introduced in March, 1841. Has not fl. yet.
7. *tricolor*, Thunb. (*Spreng. o. c. p.* 76, excl. syn. *L. luteola*, Jacq.;—*Schult. o. c. p.* 612;—*B. M.* 3, *t.* 82.) ♀ C. G. H. Introduced in March, 1841. Has not fl. yet.
8. *pendula*, Ait. (*Spreng. l. c.*;—*Schult. o. c. p.* 614;—*B. M.* 16, *t.* 690;—*J. Grah. Cat. B. pl. p.* 221.) ♀ C. G. H. Introduced in March, 1841. Has not fl. yet.
- DRIMIA, Jacq. (*Spreng. syst.* 2, *p.* 7, *No.* 1223;—*Endl. gen. pl.* 1, *p.* 145.)
1. *lanceæfolia*, Ker. (*Spreng. syst.* 2, *p.* 75;—*Schult. syst.* 7, *p.* 594.—*Lachenalia lanceæfolia*, Jacq. *ic. rar.* 2, *t.* 402;—*Red. lil. t.* 59;—*B. M.* 17, *t.* 643.) ♀ C. G. H. Fl. smallish, greenish, within thick-set with liver-coloured confluent dots, June; fr. 0.
2. *acuminata*, Lodd. (*B. Cab. t.* 1041;—*Schult. syst.* 8, *p.* 1710.) ♀ C. G. H. Introduced in March, 1841. Has not fl.
3. *mediæ*, Jacq. (*ic. rar.* 2, *t.* 375;—*Spreng. syst.* 2, *p.* 75;—*Schult. syst.* 7, *p.* 596.—*Hyacinthus medius*, Poir.) ♀ C. G. H. Introduced in 1820. Fl.?
4. *ciliaris*, Jacq. (*ic. rar.* 2, *t.* 377;—*Spreng. l. c.*;—*Schult. o. c. p.* 597;—*B. M.* 35, *t.* 1444.—*Hyacinthus ciliaris*, Poir.) ♀ C. G. H. Fl. middle-sized, outside greenish, densely purplish-dotted, inside pale, June; fr. 0.
5. *elata*, Jacq. (*ic. rar.* 2, *t.* 373; *fragm. p.* 3, *t.* 2, *f.* 2;—*Spreng. l. c.*;—*Schult. l. c.*;—*Red. lil. t.* 430;—*B. M.* 21, *t.* 822.—*Hyacinthus elatus*, Poir.) ♀ C. G. H. Introduced in 1820. Fl.?
6. *undulata*, Jacq. (*ic. rar. t.* 376;—*Spreng. l. c.*;—*Schult. o. c. p.* 598.) ♀ C. G. H. Introduced in 1820. Fl.?
- DAUBENYA, Lindl. (*B. Reg.* 21, *t.* 1813;—*Endl. gen. pl.* 1, *p.* 145.)
1. *coccinea*, Lindl. ♀ C. G. H. Introduced in March, 1814. Has not fl. yet.
- EUCOMIS, L'Herit. (*Spreng. syst.* 2, *p.* 7, *No.* 1226;—*Endl. gen. pl.* 1, *p.* 145.)
1. *punctata*, L'Herit. (*Sert. angl.* 18;—*Spreng. syst.* 2, *p.* 76;—*Schult. syst.* 7, *p.* 622;—*B. M.* 23, *t.* 913;—*Red. lil. t.* 208.—*E. punctata*, a. *B. M.* 37, under *t.* 1539;—*Roxb. H. B. p.* 24.—*Asphodelus comosus*, Houtt. Linn. *pfl. syst.* 2, *p.* 381, *t.* 83.—*Ornithogalum punctatum*, Thunb. *pr.* 62.—*Basilæa punctata*, Lam. *ill. t.* 289, *f.* 2.—*Tritillaria punctata*, Gmel.) ♀ C. G. H. Fl. $\frac{1}{2}$ inch, green, outside purple, the inner segments whitish, R. S.; fr. 0. The whole plant has a somewhat unpleasant, heavy smell.
- β. *striata*, (*B. M.* 37, *t.* 1539.—*E. striata*, Donn. *hort. cant.* 6, *p.* 86.) ♀ C. G. H. Leaves purple-streaked on the back, R. S.; fr. 0.



- undulata*, Ait. (*Spreng. l. c.*;—*Schult. l. c.*;—*B. M.* 27, *t.* 1083.—*E. regia*, *L'Herit. sert. angl.* 17, not Ait. and excl. syn. Dill. and L.;—*Red. lil. t.* 175, excl. syn. Dill., L., Mill., and Ait.—*Ornithogalum undulatum*, *Thunb.*—*Fritillaria longifolia*, *Hill.*; *H. Kew.* 354, *t.* 15.—*F. autumnalis*, *Mill.*—*Basileia coronata*, *Lam.*) 4. C. G. H. Fl. 6 lines, yellowish-green, R. S.; fr. O.
- SCILLA, L. (*Spreng. syst.* 2, *p.* 6, No. 1217;—*Endl. gen. pl.* 1, *p.* 146.) *Squill.*
1. *peruviana*, L. (*Spreng. syst.* 2, *p.* 68;—*Schult. syst.* 7, *p.* 558;—*Red. lil. t.* 167;—*B. M.* 20, *t.* 749;—*Roxb. H. B.* *p.* 24.—*Ornithogalum speciosum*, *Rafin.*) 4. Algiers. Tunis. Sicily. Italy. Portugal, but not Peru. Fl. 4-5 lines, bluish-violet. Introduced into H. C. G. in 1804, but had not fl. in 1814.
 2. *autumnalis*, L. (*Spreng. o. c. p.* 67;—*Schult. o. c. p.* 568;—*E. B.* 2, *t.* 78;—*Red. lil. t.* 317;—*B. M.* 23, *t.* 919.—*Anthericum autumnale*, *Scop.*—*Ornithogalum autumnale*, *Lam.*) 4. W. and S. Europe. N. Africa. S. Tauria. Fl. 3 lines, rose-coloured. Introduced in 1821. Fl. ?
 3. *bifolia*, L. (*Spreng. l. c.*, excl. syn.;—*Schult. o. c. p.* 569;—*E. B.* 1, *t.* 24;—*Jacq. austr. t.* 117;—*B. M.* 20, *t.* 746;—*B. Cab. t.* 283;—*Red. lil. t.* 254.—*Stellaris bifolia*, *Mönch.*—*Anthericum bifolium*, *Scop.*—*Ornithogalum bifolium*, *Neck.*) 4. Middle and S. Europe. Fl. 4-8 lines, blue. Introduced in 1821. Fl. ?
 4. *amena*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 571;—*Jacq. austr. t.* 218;—*B. M.* 10, *t.* 341;—*Red. lil. t.* 298.) 4. S. and M. Europe. Fl. 10-12 lines in diameter, bright azure. Introduced in 1821. Fl. ?
 5. *corymbosa*, Ker. (*Spreng. o. c. p.* 66;—*Schult. o. c. p.* 574.—*Hyacinthus corymbosus*, L.;—*B. Repos. t.* 345.—*Massonia corymbosa*, *B. M.* 25, *t.* 991.) 4. C. G. H. Fl. 4-5 lines, purple, with a red keel. Introduced in March, 1841. Has not fl. yet.
 6. *indica*, *Roxb.* (*fl. ind.* 2, *p.* 147;—*J. Grah. Cat. B. pl.* *p.* 220.) 4. Common on the sandy shores of both Concans. Introduced into H. C. G. in 1800; where it fl. and fr. March and April. Here it has not fl. for the last 12 years. The taste of the root is fully as nauseous and bitter as that of the true Squill, (*Urginea maritima*, *Steinh.*) and it may be possessed of the same qualities. (*Roxb.*)
 7. *coromandeliana*, *Roxb.* (*fl. ind.* 2, *p.* 147.) 4. Sand-hills on the Coromandel Coast. Introduced in 1802, into H. C. G. where it fl. and fr. April and May. Here it has not fl. for the last 12 years.
- URGINEA, *Steinhell.* (*Endl. gen. pl.* 1, *p.* 146.)
1. *maritima*, *Steinh.* (*Ann. gc. nat.* 1834, 1, *p.* 321.—*Scilla maritima*, L.;—*Spreng. syst.* 2, *p.* 68;—*Schult. syst.* 7, *p.* 556;—*Red. lil. t.* 116.—*Ornithogalum maritimum*, *Tournef.*—*O. Squilla*, *a. B. M.* 23, *t.* 918.) 4. Shores of the Mediterranean. Fl. 6-8 lines in diameter, white, tinged with green. Has been cultivated for many years in the Serampore garden, without fl.



ORNITHOGALUM, L. (*Spreng. syst.* 2, p. 5, No. 1185;—*Endl. gen. pl.* 1, p. 146.)

1. *aureum*, Curt. (*B. M.* 6, t. 190;—*Spreng. syst.* 2, p. 33;—*Schult. syst.* 7, p. 508;—*B. Cab. t.* 1183.) ♀. C. G. H. Introduced in 1824. Fl. ?
 2. *thyrsoides*, Jacq. (*Spreng. l. c.*—*Schult. o. c. p.* 509.) ♀. C. G. H.
a. *album*, (*B. Reg.* 4, t. 316;—*Jacq. vind.* 3, p. 17, t. 28;—*B. M.* 29, t. 1164;—*Red. lil. t.* 333;—*Roxb. H. B.* p. 24;—*J. Grah. Cat. B. pl.* p. 220.—*O. arabicum*, L., as to description, but excl. syn.)
β. *flavescens*, (*B. Reg.* 4, t. 305;—*Jacq. ic. rar.* 2, t. 437;—*Roxb. H. B.* p. 24.) Both varieties introduced into H. C. G. in 1799, but had not fl. in 1814.
 3. *arabicum*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 511;—*B. M.* 19, t. 728.) ♀. S. Europe. N. Africa. Introduced in 1825. Fl. ?
 4. *revolutum*, Jacq. (*hort. schönbr.* 1, p. 46, t. 89;—*Spreng. o. c. p.* 31;—*Schult. o. c. p.* 513;—*B. M.* 18, t. 653;—*B. Reg.* 4, t. 315.) ♀. C. G. H. Introduced in 1831. Has not fl.
 5. *lacteam*, Jacq. (*ic. rar.* 2, t. 344;—*Spreng. o. c. p.* 32;—*Schult. l. c.*;—*B. M.* 28, t. 1134;—*Red. lil. t.* 418.) ♀. Introduced in 1831. Has not fl.
 6. *pyramidale*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 515;—*Jacq. ic. rar.* 2, t. 425;—*Red. lil. t.* 422;—*J. Grah. Cat. B. pl.* p. 220.) ♀. S. Europe. Introduced in 1832. Has not fl.
 7. *latifolium*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 514;—*Jacq. ic. rar.* 2, t. 424;—*B. M.* 22, t. 876.) ♀. Arabia. Egypt. Introduced in 1832. Has not fl.
 8. *pyrenaicum*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 517;—*E. B.* 7, t. 499;—*Jacq. austr. t.* 103.) ♀. Europe. Fl. 6 lines, whitish-green, R. S.; fr. 0.
 9. *caudatum*, Ait. (*Spreng. l. c.*;—*Schult. o. c. p.* 520;—*Jacq. ic. rar.* 2, t. 423;—*B. M.* 21, t. 805;—*Roxb. H. B.* p. 24.) ♀. C. G. H. Fl. 4-5 lines, green, white-edged, sweet-scented, C. S.; fr. 0.
 10. *longibracteatum*, Jacq. (*hort. vind. t.* 29;—*Spreng. l. c.*;—*Schult. o. c. p.* 521;—*J. Grah. Cat. B. pl.* p. 220.) ♀. C. G. H. Introduced in 1830. Has not fl.
 11. *barbatum*, Jacq. (*hort. schönbr.* 1, p. 47, t. 91;—*Spreng. o. c. p.* 31;—*Schult. o. c. p.* 524.) ♀. C. G. H. Introduced in 1830. Has not fl.
 12. *juncifolium*, Jacq. (*hort. schönbr.* 1, p. 46, t. 90;—*Spreng. o. c. p.* 32;—*Schult. l. c.*) ♀. C. G. H. Introduced in 1830. Has not fl.
 13. *umbellatum*, L.) *Spreng. o. c. p.* 30, excl. syn.;—*Schult. o. c. p.* 532;—*E. B.* 2, t. 130.—*Red. lil. t.* 143;—*Jacq. austr. t.* 343;—*Roxb. H. B.* p. 24, excl. "India.") ♀. Europe. N. Africa and America. Fl. 6-10 lines, on the back green, white-edged, inside white, R. S.; fr. 0.
- ALBUCA, L. (*Spreng. syst.* 2, p. 4, No. 1182;—*Endl. gen. pl.* 1, p. 146.)
1. *altissima*, Dryand. (*Spreng. syst.* 2, p. 27;—*Schult. syst.* 7, p. 494.) ♀. C. G. H. Introduced in 1830. Has not fl.



2. *major*, Dryand. (*Spreng. l. c.*;—*Schult. o. c. p.* 495;—*Red. lil. t.* 69;—*B. M.* 21, *t. t.* 804;—*B. Cab. t.* 1191;—*Roxb. H. B. p.* 24.) 2. C. G. H. Fl. 2 inches in diameter, yellowish-green, C. S.; fr. 0.
3. *minor*, L. (*Spreng. l. c.*;—*Schult. l. c.*;—*Red. lil. t.* 21;—*B. M.* 19, *t.* 720;—*Roxb. H. B. p.* 24.) 2. C. G. H. Fl. $1\frac{1}{2}$ inch in diameter, greenish-yellow, R. S.; fr. 0.
4. *flaccida*, Jacq. (*ic. rar. t.* 2, 444;—*Spreng. l. c.*;—*Schult. o. c. p.* 496.) 2. C. G. H. Introduced in 1830. Has not fl.
5. *caudata*, Jacq. (*ic. rar. 2. t.* 442;—*Spreng. o. c. p.* 28;—*Schult. o. c. p.* 497.) 2. C. G. H. Introduced in 1830. Has not fl.
6. *coarctata*, Dryand. (*Spreng. o. c. p.* 27;—*Schult. l. c.*) 2. C. G. H. Introduced in 1830. Has not fl.
7. *fastigiata*, Dryand. (*Spreng. o. c. p.* 28;—*Schult. o. c. p.* 498;—*B. Repos. t.* 450;—*Red. lil. t.* 474;—*B. Reg. 4, t.* 277.) 2. C. G. H. Introduced in 1830. Has not fl.
8. *selosa*, Jacq. (*ic. rar. 2. t.* 440;—*Spreng. l. c.*;—*Schult. l. c.*;—*B. M.* 36, *t.* 1481.) Introduced in 1830. Has not fl.
9. *aurea*, Jacq. (*ic. rar. 2. t.* 441;—*Spreng. o. c.*;—*Schult. l. c. p.* 499.) 2. C. G. H. Introduced in 1832. Has not fl.
10. *vittata*, Ker. (*Spreng. o. c.*;—*Schult. o. c. p.* 500;—*B. M.* 33, *t.* 1329.) 2. C. G. H. Introduced in 1832. Has not fl.
11. *fragrans*, Jacq. (*hort. schönbr. 1, p.* 44, *t.* 84;—*Spreng. l. c.*;—*Schult. o. c. p.* 501.) Introduced in 1832. Has not fl.
- MYOGALUM, Lk. (*Handb. 1, p.* 164;—*Endl. gen. pl. 1, p.* 146.)
1. *nutans*, Lk. (*l. c.*—*Ornithogalum nutans, L.*;—*Spreng. syst. 2, p.* 32;—*Schult. syst. 7, p.* 506; 8, *p.* 1697;—*E. B.* 28, *t.* 1997;—*Jacq. austr. t.* 301;—*B. M.* 8, *t.* 269;—*Red. lil. t.* 253.—*Albuca nutans, Reichb. fl. germ. exc. p.* 110.) 2. Europe. Asia Minor. Fl. large, greenish-white, C. S.; fr. 0.
- ALLIUM, L. (*Spreng. syst. 2, p.* 5, No. 1186;—*Endl. gen. pl. p.* 1, 146.)
1. *sativa*, L. (*Spreng. syst. 1, p.* 33;—*Schult. syst. 8, p.* 1000;—*Lour. cochinch. p.* 201;—*Roxb. fl. ind. 2, p.* 142;—*J. Grah. Cat. B. pl. p.* 220.—*Porrum sativum, Reichb. fl. germ. exc. p.* 110.) ३३३ Rushoon Common Garlic. 2. Sicily. Cultivated in gardens. Fl. small, white H. S.
2. *controversum*, Schrad. (*Schult. o. c. p.* 1001.—*A. Ophioscorodon, Lk.*;—*Spreng. l. c.*) 2. Egypt. France. Fl. small, purplish, C. S.
3. *Scorodoprusum*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 1002;—*Fl. Dan. t.* 1455.) *Rocambole*. 2. N. and M. Europe. Introduced in March, 1841. Has not fl.
4. *vineale*, L. (*Spreng. o. c. p.* 33;—*Schult. o. c. p.* 1005;—*E. B.* 28, *t.* 1974.) 2. Europe. Fl. small, pale-rose-coloured, with green keels, C. S.; fr. 0.
5. *proliferum*, Roxb. (*H. B. p.* 24.—*Schrad. ?*) 2. China. Introduced into H. C. G. in 1796; and there fl. C. S. (*Roxb.*)



6. *Porrum*, L. (*Spreng. syst.* 2, p. 34;—*Schult. o. c. p.* 1008;—*Roxb. fl. ind.* 2, p. 141;—*J. Grah. Cat. B. pl. p.* 221.—*Porrum commune*, *Reichb. fl. germ. exc. p.* 111;—*Plenck. ic.* 253;—*Blackw. ic. t.* 421) पुरी *Puroo. Common Leek.* ५ ♂ Native country unknown. Cultivated in gardens. Fl. small, greenish-white, or somewhat purplish, H. S.
- 7 *Ampeloprasum*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 1010;—*E. B.* 24, t. 1657;—*Red. lil. t.* 385;—*B. M.* 34, t. 1385, excl. β —*A. Ampeloprasum*, a. *B. M.* 38, t. 1560.) ५ Europe. Fl. smallish, pale purple, C. S., but rare; fr. 0.
8. *ascalonicum*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 1023;—*Plenck. ic. t.* 258;—*Roxb. fl. ind.* 2, p. 142;—*J. Grah. Cat. B. pl. p.* 220.—*Porrum ascalonicum*, *Reichb.*) गन्धुन *Gundhun. Schallot.* ५ Syria. Asia Minor. Palestine. Cultivated in gardens. Fl. small, white, with a green keel, C. S.; fr. 0.
- β . *chinense*. (*A. ascalonicum*, *Lour. cochinch. p.* 202, not L.) ५ China. Bulbs small, whitish, the size of a nut. Fl. C. S.
9. *Cepa*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 1024;—*Lam. ill. t.* 242, f. 2;—*Sm. fl. gr. t.* 326;—*Lour.*;—*Roxb. fl. ind.* 2, p. 142;—*J. Grah. Cat. B. pl. p.* 220.—*Porrum Cepa*, *Reichb.*) पेयाज *Peyaj. Common Onion.* ♂ Native country unknown. Commonly cultivated. Fl. small, white, or greenish-purplish-white with a green keel, C. S.; fr. 0.
10. *Schoenoprasum*, L. (*Spreng. o. c. p.* 39.—*Schult. o. c. p.* 1025;—*E. B.* 34, t. 2441.) Chives. ५ Europe, from Lapland to Italy. Fl. smallish, purplish-rose-coloured, C. S., but very rare.
11. *fistulosum*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 1029;—*B. M.* 30, t. 1230.) ५ Siberia. Altai Alps. Introduced in 1822. Has not fl.
12. *oleraceum*, L. (*Spreng. o. c. p.* 35, excl. syn.;—*Schult. o. c. p.* 1037;—*E. B.* 7, t. 488.) ५ Europe. Introduced in 1822. Has not fl.
13. *carinatum*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 1038;—*E. B.* 24, t. 1658.—*A. foetidum*, *Lk.*—*Codonoprasum carinatum*, *Reichb.*) ५ Europe. Introduced in 1822. Has not fl.
14. *caucasicum*, Bieb. (*Spreng. o. c. p.* 1053.—*A. paniculatum*, *B. M.* 25, t. 973, excl. syn.) ५ Caucasus. Introduced in 1822. Has not fl.
15. *nutans*, L. (*Spreng. o. c. p.* 34.—*Schult. o. c. p.* 1065;—*B. M.* 28, t. 1143.) ५ Siberia. Introduced in 1822. Has not fl.
16. *glaucum*, Schrad. (*Schult. o. c. p.* 1066.—*A. senescens*, *B. M.* 29, t. 1150, not L. and excl. most of the syn.) ५ Siberia. Introduced in 1822. Has not fl.
17. *stellatum*, Ker. (*B. M.* 38, t. 1576, excl. β ;—*Spreng. o. c. p.* 38.—*Schult. o. c. p.* 1088.) ५ N. America. Introduced in 1822. Has not fl.
18. *triquetrum*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 1111.—*B. M.* 22, t. 869.—*Red. lil. t.* 319.) ५ S. Europe. N. Africa. Fl. middle-sized, white with green keels, C. S.; but rare.



19. *Moly*, L. (*Spreng. o. c. p.* 36;—*Schult. o. c. p.* 1119;—*B. M.* 14, t. 499.) ♀. S. Europe. Introduced in 1825. Has not fl.
20. *victoralis*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 1122.—*Red. lil. t.* 265;—*B. M.* 30, t. 1222.) ♀. Alps of M. and S. Europe. Introduced in 1825. Has not fl.
21. *fragrans*, Vent. (*Spreng. o. c. p.* 37;—*Schult. o. c. p.* 1125;—*Red. lil. t.* 68.—*A. inodorum*, *Ait.*; *B. M.* 28, t. 1129, excl. syn. Michx.) ♀. Virginia, Carolina. Mexico.
- γ. *nepalense*, (*A. fragrans*, β. *nepalense*, *B. Reg.* 11, t. 898.) ♀. Nepal. Introduced in 1840. Has not fl.
22. *striatum*, Jacq. (*ic. rar.* 2, t. 366;—*Spreng. o. c. p.* 39;—*Schult. o. c. p.* 1128;—*B. M.* 26, t. 1035, and 37, t. 1524.) ♀. Canada. Carolina. Virginia, not H. C. G. Fl. 5-6 lines, white, with green keels, C. S.; fr. 0.
23. *tuberosum*, Roxb. (*H. B. p.* 24; *fl. ind.* 2, p. 141, not Rottl.) ♀. Cultivated about Calcutta. In H. C. G. fl. R. S. The natives use it as an article of diet, as leeks are used in Europe. (*Roxb.*) This species, in Roxb. fl. ind. l. c. called बङ्ग गञ्जीम *Bunga-ghundeena*, is unknown to us, as well as to our oldest native gardeners, who have hitherto been unsuccessful in their endeavours to procure it from the neighbourhood, or H. C. G. It is enumerated in Wall. Cat., as “*Roxb. Hb. Madr.* Cultivated in the Mission garden, Tranquebar,” while Royle simply mentions it as Roxburgh’s plant. *A. tuberosum*, Rottl. (*Spreng. syst.* 2, p. 38;—*Schult.* 8, p. 1119.) differs from Roxburgh’s described in. fl. ind. l. c. by its terete scapes, two-valved spathes, obtuse sepals, and its stamens equalling the perianth.

* *Muscari maritimum*, Desf. ♀. Carthage. Sicily.—*Hyacinthus spicatus*, Sm.; *B. Reg.* 22, t. 1869. ♀. Zante.—*Daubnya aurea*, Lindl.; *B. Reg.* 21, t. 1813. C. G. H.—*D. fulva*, Lindl.; *B. Reg.* 21, 1839, t. 53. ♀. E. Coast of Africa, or Madagascar.—*Scilla lusitanica*, L.; *B. M.* 45, t. 1999. ♀. Portugal. Spain.—*S. parviflora*, Desf. ♀. Algiers.—*Ornithogalum chloroleucum*, Lindl.; *B. Reg.* 22, t. 1853. ♀. Valparaiso.—*Allium monspesulanum*, Willd. ♀. Montpellier.—*A. multiflorum*, Desf. ♀. Algiers.—*A. polianthum*, Lam ♀. Nizza.—*A. segetum*, Jan. ♀. Sicily.—*A. junceum*, Sm. ♀. Cyprus.—*A. palustre*, Pourr. ♀. Spain.—*A. pusillum*, Cyrill. ♀. Sicily.—*A. oxypetalum*, Don. ♀. S. Europe.—*A. asperum*, Don. ♀. S. Europe.—*A. paniculatum*, L. ♀. Italy.—*A. pallens*, ♀. L. Smyrna.—*A. tenuiflorum*, Ten. ♀. Italy.—*A. pulchellum*, Lam. ♀. Italy.—*A. flavum*, L. ♀. Italy.—*A. moschatum*, L. ♀. Italy.—*A. lusitanicum*, Lam. ♀. Portugal.—*A. suaveolens*, Jacq. ♀. Italy.—*A. roseum*, L. ♀. S. France.—*A. glandulosum*, Lk. and Otto. ♀. Mexico.—*A. Chamamoly*, L.; *B. M.* 30, t. 1203. ♀. S. Europe. N. Africa.



b. Anthericina, (Anthericeæ, Endl. gen. pl. 1, p. 147.)

ASPHODELUS, L. (Spreng. syst. 2, p. 7, No. 1236;—Endl. l. c.) *Asphodel*.

1. *creticus*, Lam. (Spreng. syst. 2, p. 83, excl. syn.;—Schult. syst. 7, p. 485;—Desf. ann. mus. 10, p. 220, t. 11.) ♀. Candia. Calabria. Introduced in 1827. Has not fl.

2. *albus*, Willd. (Spreng. o. c. p. 82;—Schult. o. c. p. 486.—*A. ramosus*, B. Red. lil. t. 314;—Reichb. fl. germ. exc. 1, p. 117, not L.) ♀. Upper Italy. Introduced in 1827. Fl. ?

3. *ramosus* L. partly. (Spreng. o. c. p. 83;—Schult. o. c. p. 487;—Sibth. fl. gr. t. 334;—B. M. 21, t. 799;—Red. lil. A. t. 178.) ♀. Mediterranean shores. Fl. large, white, with purple keels, Feb.; fr. March.

4. *fistulosus*, L. (Spreng. o. c. p. 82;—Schult. o. c. p. 490;—Red. lil. t. 178;—Cav. ic. 3, t. 102;—Gärtn. fr. 1, p. 68, t. 17, f. 6;—B. M. 25, t. 984.—*B. Cab. t. 1124*.) ♀. S. Europe. Mauritius. Fl. 9 lines in diameter, whitish, with a purplish longitudinal line, before expansion rosy-white, C. S.

5. *clavatus*, Roxb. (fl. ind. 2, p. 148;—J. Grah. Cat. B. pl. p. 219;—Schult. o. c. p. 491.) ♂. Peninsula of India. Interior of Bengal. Doab. Kamaon. Fl. small, white, with brown keels, C. S.; fr. H. S.

ASPHODELINE, Reichb. (fl. germ. exc. p. 116;—Endl. gen. pl. 1, p. 147.)

1. *lutea*, Reichb. (l. c.—*Asphodelus luteus*, L.;—Spreng. syst. 2, p. 83;—Schult. syst. 7, p. 483;—Jacq. vind. t. 77.—B. M. 20, t. 773.—Red. lil. t. 223.) ♀. Sicily. Dalmatia. Morea. Tauria. N. Africa. Fl. 1½–2 inches in diameter, yellow, with green keels, sweet-scented, Feb., but rare; fr. 0.

2. *tenuior*, Endl. (*Asphodelus tenuior*, Bieb.;—B. M. 53, t. 2626.) ♀. N. Caucasus. Introduced in 1825. Has not fl.

HEMEROCALLIS, L. (Spreng. syst. 2, p. 6, No. 1214;—Endl. gen. pl. 1, p. 147.) *Day Lily*.

1. *flava*, L. (Spreng. syst. 2, p. 65;—Schult. syst. 7, p. 422;—Jacq. vind. t. 139;—B. M. 1, t. 19;—Red. lil. t. 15, excl. β.) ♀. Siberia. Hungary. Austria. Fl. 2–3½ inches, yellow. Introduced in 1823. Has not fl.

2. *graminea*, Andr. (B. Repos. t. 244;—Schult. o. c. p. 423.—B. M. 22, t. 873.) ♀. Siberia. Introduced in 1822. Has not fl.

3. *disticha*, D. Don. (pr. fl. nep. p. 53;—Spreng. o. c. p. p. 135;—Schult. l. c.—H. fulva, Thunb. jap. p. 142, not L.) ♀. Japan. Gossain Than. Introduced in 1822. Has not fl.

4. *fulva*, L. (Spreng. syst. 2, p. 65;—Schult. o. c. p. 424;—B. M. 2, t. 64;—Red. lil. t. 16;—Roxb. fl. ind. 2, p. 168;—J. Grah. Cat. B. pl. p. 217.) Hind: *Gool-nurgis*. ♀. China. Fl. 4 inches, orange, with deeper coloured veins, and a yellowish-greenish tube, April, May and June; fr. 0.



ANANELLA, L. (*Spreng. syst.* 2, p. 7, No. 1231;—*Endl. gen. pl.* 1, p. 148.)

1. *capensis*, L. (*Spreng. syst.* 2, p. 78;—*Schult. syst.* 7, p. 492;—*Jacq. vind.* 3, t. 35;—*B. Repos. t.* 141;—*B. M.* 16, t. 568;—*Red. lit. t.* 373.) ♀. C. G. H. Introduced in March, 1841. Has not fl. yet.

2. *lutea*, Thunb. (*Spreng. l. c.*;—*Schult. o. c. p.* 493;—*B. M.* 31, t. 1252.) ♀. C. G. H. Introduced in March, 1841. Has not fl. yet.

ANTHERICUM, L. (*Spreng. syst.* 2, p. 7, No. 1238;—*Endl. gen. pl.* 1, p. 148.)

1. *canaliculatum*, Ait. (*Schult. syst.* 7, p. 460;—*B. M.* 28, t. 1124.—*Phalangium canaliculatum*, Poir.—*Bulbine canaliculata*, *Spreng. syst.* 2, p. 86.) ♀. C. G. H. Introduced in 1825. Has not fl.

β. *rufum*, (*B. Reg.* 11, t. 877.) ♀. C. G. H. Introduced with α. Has not fl.

2. *revolutum*, L. (*Spreng. syst.* 2, p. 84;—*Schult. o. c. p.* 462;—*B. M.* 26, t. 1044, excl. syn. *A. flexifolium*.—*Phalangium revolutum*, Pers.) ♀. Introduced in 1825. Has not fl.

3. *graminifolium*, Willd. (*Spreng. l. c.*;—*Schult. o. c. p.* 463.—*A. undulatum*, *Jacq. ic. rar.* 2, t. 411.—*Phalangium undulatum*, Poir.) ♀. C. G. H. Introduced in 1825. Has not fl.

4. *vespertinum*, Jacq. (*hört. schönbr.* 1, p. 44, t. 85;—*Spreng. o. c. p.* 85;—*B. M.* 26, t. 1040.—*Phalangium vespertinum*, Poir.) ♀. C. G. H. Introduced in March, 1841. Has not fl. yet.

5. *triflorum*, Ait. (*Spreng. o. c. p.* 84;—*Schult. o. c. p.* 466.—*A. bipedunculatum*, *Jacq. coll. suppl.* 83, ic. 2, t. 410.—*Phalangium pedunculatum*, Poir.—*P. triflorum*, Pers. β.) ♀. C. G. H. Introduced in 1825. Has not fl.

6. *Liliago*, L. (*Spreng. l. c.*;—*Schult. o. c. p.* 467;—*Jacq. vind.* 1, t. 83.—*Ornithogalum gramineum*, Lam.—*Phalangium Liliago*, Schreb;—*Red. lit. t.* 269.—*P. Liliago*. β. minus, *B. M.* 23, t. 914.) ♀. From Norway, through the whole of Europe, to N. Africa. Fl. 6-9 lines, white, R. S.; C. S.

β. *majus*. (*Phalangium Liliago*. α. *majus*, *B. M.* 39, t. 1635.) ♀. Europe. Fl. more than 1 inch in diameter, white, the segments towards the apex externally greenish, R. S.; fr. C. S.

7. *ramosum*, L. (*Spreng. l. c.*;—*Schult. l. c.*;—*Jacq. austr.* t. 161.—*Phalangium ramosum*, Lam.;—*Red. lit. t.* 287;—*B. M.* 26, t. 1055.) ♀. Temperate Europe, except England. Tauria. Fl. 3-5 lines, snow-white, R. S. but rare; fr. 0.

? 8. *nepalense*, Spreng. (*o. p. p.* 135;—*Schult. o. c. p.* 468.—*Phalangium nepalense*, Lindl. *trans. hort. soc.* 6, p. 227;—*B. Reg.* 12, t. 998.) ♀. Gossuin Than. Introduced in 1825. Fl. ?

9. *tuberosum*, Roxb. (*Corom.* 2, t. 138; *fl. ind.* 2, p. 149;—*Spreng. syst.* 2, p. 85;—*Schult. o. c. p.* 469;—*J. Grah. Cat. B. pl.* p. 219.—*Phalangium alatum*, Buch.) ♀. Palaveram. Vandalore. Both Concans.

- Morung Mountains. Assam. Fl. pure white, about the size and appearance of the snow-drop. R. S.; fr. C. S. Tubers edible. (*J. Grah.*)
10. *Nimmonii*, *J. Grah.* Bombay. S. Concan.
 11. *glaucom*, Ruiz. and Pav. (*Spreng. l. c.*;—*Schult. l. c.*;—*B. M.* 64, t. 3610;—*B. Cab. t.* 1580.—*Phalangium glaucum*, *Poir.*) ♀. Peruvian Andes. Introduced in 1827. Has not fl.
 12. *fragrans*, Jacq. (*hort. schönbr.* 1, p. 45, t. 86;—*Spreng. o. c. p.* 83;—*Schult. o. c. p.* 470.—*Phalangium fragrans*, *Poir.*—*Albuca fugax*, *Ker.*; *B. Reg.* 4, t. 311.) ♀. C. G. H. Introduced in 1825. Has not fl.
 13. *exuviatum*, Jacq. (*ic. rar.* 2, t. 415;—*Spreng. o. c.*;—*Schult. o. c. p.* 471.—*Phalangium exuviatum*, *Poir.*—*Albuca exuviata*, *B. M.* 22, t. 871.) ♀. C. G. H. Introduced in 1825. Has not fl.
 14. *filifolium* Jacq. (*ic. rar.* 2, t. 414;—*Spreng. o. c.*;—*Schult. o. c.*—*Phalangium filifolium*, *Poir.*—*Albuca filifolia*, *Ker.*; *B. Reg.* 7, t. 557.) ♀. C. G. H. Introduced in March 1841. Has not fl. yet.
 15. *physodes*, Jacq. (*ic. rar.* 2, t. 418.—*Phalangium marginatum*, *Poir.* excl. *Anth. marginatum*, *Thunb.*—*Albuca physodes*, *Ker.*; *B. M.* 26, t. 1046.—*Casia physodes*, *Spreng. syst.* 2, p. 88. excl. syn.) ♀. C. G. H. Introduced in 1825. Has not fl.
- CZACKIA, Andr. (*Spreng. syst.* 2, p. 8, No. 1246.—*Endl. gen. pl.* p. 148, under *Anthericum*.)
1. *Liliastrum*, Andr. (*Spreng. syst.* 2, p. 90;—*Schult. syst.* 7, p. 424.—*Hemerocallis Liliastrum*, *L. syst.* 2, p. 142.—*Anthericum Liliastrum*, *L. sp.* p. 445;—*B. M.* 9, t. 318.—*Phalangium Liliastrum*, *Pers.*;—*Red. lil. t.* 255.—*Ornithogalum liliforme*, *Lam.*) ♀. Alps of Europe. Poland. Introduced in 1825. Has not fl.
- BULBINE, Willd. (*Spreng. syst.* 2, p. 7, No. 1239;—*Endl. gen. pl.* 1, p. 148, under *Anthericum*.)
1. *frutescens*, Willd. (*Spreng. syst.* 2, p. 85;—*Schult. syst.* 7, p. 442.—*B. caulescens*, *L. hort. cliff.*—*Anthericum frutescens*, *L.*;—*Red. lil. t.* 283;—*DC. pl. gr. t.* 14;—*B. M.* 21, t. 816.) ♀. C. G. H. Fl. middle-sized, yellow, C. S.; fr. 0.
 2. *rostrata*, Willd. (*Spreng. l. c.*;—*Schult. l. c.*—*Anthericum rostratum*, *Jacq. ic. rar.* 2, t. 403.) ♀. C. G. H. Fl. middle-sized, yellow, C. S.; fr. 0.
 3. *longiscapa*, Willd. (*Spreng. l. c.* excl. syn.;—*Schult. o. c. p.* 443.—*Anthericum longiscapum*, *Willd. sp.*;—*Jacq. ic. rar.* 2, t. 404;—*Red. lil. t.* 423;—*B. M.* 33, t. 1339.) ♀. C. G. H. Fl. middle-sized, yellow, C. S., but very rare; fr. 0.
 4. *pugioniformis*, Lk. (*Spreng. l. c.*;—*Schult. o. c. p.* 444.—*Anthericum pugioniforme*, *Jacq. ic. rar.* 2, t. 405;—*B. Repos. t.* 386;—*B. M.* 35, t. 1454.) ♀. C. G. H. Fl. middle-sized, yellow, C. S.; fr. 0.
 5. *annua*, Willd. (*Spreng. l. c.*;—*Schult. o. c. p.* 445.—*Anthericum annuum*, *L.*;—*DC. pl. gr. t.* 8;—*B. M.* 35, t. 1451.) ☉ C. G. H. Fl. 4-5 lines in diameter, yellow, Feb.; fr. March.



6. *præmorsa*, Spreng. (*l. c.* p. 86;—*Schult. o. c.* p. 446.—*Anthericum præmorsum*, Jacq. *ic. rar.* 2, t. 406.) ♀ C. G. H. Fl. middle-sized, yellow, C. S.; fr. 0.
7. *latifolia*, Spreng. (*l. c.*;—*Schult. o. c.* p. 447.—*Anthericum latifolium*, L. *fil.*;—*Jacq. ic. rar.* 2, t. 403.) ♀ C. G. H. Introduced in 1824. Fl. ?
8. *nutans*, Spreng. (*l. c.*;—*Schult. l. c.*—*Anthericum nutans*, Jacq. *ic. rar.* 2, t. 407.) ♀ C. G. H. Introduced in 1824. Fl. ?
9. *alooides*, Willd. (*Spreng. l. c.*;—*Schult. o. c.* p. 448.—*B. acaulis*, L. *hort. cliff.*—*Anthericum alooides*, L. *sp.*; *Lam. ill. t.* 240, *f.* 2;—*DC. pl. gr. t.* 26;—*Red. lil.* 5, t. 283,—*B. M.* 32, t. 1317.—*B. Cab.* t. 996.) ♀ C. G. H. Fl. middle-sized, yellow, C. S.; fr. 0.
10. *ciliata*, Lk. (*Spreng. l. c.*;—*Schult. o. c.* p. 450.—*Anthericum ciliatum*, L. *fil.* not Jacq.) ♀ C. G. H. Fl. middle-sized, yellow, C. S.; fr. 0.
11. *triquetra*, Spreng. (*l. c.*;—*Schult. o. c.* p. 451.—*Anthericum triquetrum*, L. *fil.*) ♀ C. G. H. Fl. middle-sized, yellow, C. S.; fr. 0.
- CHLOROPHYTUM, Ker. (*Spreng. syst.* 2, p. 7, No. 1241;—*Endl. gen. pl.* 1, p. 148.)
1. *laxum*, R. Br. (*pr.* p. 277.—*Spreng. o. c.* p. 33;—*Schult. syst.* 7, p. 452.) ♀ Tropical New Holland. Fl. smallish, green, R. S.; fr. C. S.
2. *inornatum*, Ker. (*B. M.* 27, t. 1071;—*Spreng. l. c.*;—*Schult. o. c.* p. 453.) ♀ Sierra Leona. Introduced in 1827. Fl. ?
3. *Orchidastrium*, Lindl. (*B. Reg.* 10, t. 813;—*Spreng. l. c.*;—*Schult. l. c.*) ♀ Sierra Leona. Introduced in 1827. Fl. ?
4. *elatum*, R. Br. (*pr.* p. 277, annot.;—*Spreng. l. c.*;—*Schult. o. c.* p. 454.—*Anthericum elatum*, Ait.—*Phalangium elatum*, Pair;—*Red. lil.* t. 191.—*Asphodelus capensis*, L.) ♀ C. G. H. Introduced in 1822. Fl. ?

- * *Asphodelus prolifer* Bieb. © Armenia.—*A. æstivus*, Brot. ♀ Portugal.—*Anthericum ramosissimum*, Schult. ♀ Mexico.—*A. gracum*, L. ♀ Candia. Morea.—*A. Nimmonii*, J. Grah. ♀ S. Concan.—*Trichopetalum stellatum*, Lindl. (*Anthericum plumosum*, B. M. 53, t. 3084.) ♀ Chili.—*T. gracile*, Lindl.; *B. Reg.* 18, t. 1535. ♀ Chili.—*Thysanotus Banksii*, R. Br. ♀ Tropical N. Holland.—*T. paniculatus*, R. Br. ♀ Tropical N. Holland.—*Cassia lateriflora*, R. Br. ♀ Tropical N. Holland.—*Chloopsis acaulis*, Bl. © Java.—*Tricoryne scabra*, R. Br. ♀ Tropical N. Holland.—*T. anceps*, R. Br. ♀ Tropical N. Holland.—*Echeandia terniflora*, Oct. ♀ Mexico.—*Tulbaghia alliacea*, L.; *B. M.* 21, t. 806. ♀ C. G. H.

c. *Asparagineæ*, (*Asparagææ*, *Endl. gen. pl.* 1, p. 150.)

DIANELLA, Lam. (*Spreng. syst.* 2, p. 8, No. 1252;—*Endl. l. c.*)

1. *ensifolia*, Red. (*lil.* 1, t. 1;—*Hort. Kew. ed.* 2, part. 2, p. 276, excl. syn. Mill.;—*B. M.* 34, t. 1404;—*Schult. syst.* 7, p. 349.—*D. nemo-*



rosa, Jacq. hort. schönbr. 1, p. 49, t. 94;—Roxb. fl. ind. 2, p. 164, excl. syn. Rumph. and Lam.—*Dracæna ensifolia*, Ait., not Haw.;—Gärtn. fr. 1, p. 57, t. 16, f. 4, excl. syn. Rumph. and L. ?) 4. Mascarenhas Islands. China. Nepal. Sumatra. Fl. 2½ lines long, greenish white, and fr. nearly throughout the year.

EUSTREPHUS, R. Br. (pr. p. 281;—Spreng. syst. 2, p. 8, No. 1256;—Endl. gen. pl. 1, p. 150.)

1. *latifolius*, R. Br. (l. c.;—Spreng. o. c. p. 94;—Schult. syst. 7, p. 316;—B. M. 31, t. 1245.—*Luzuriaga latifolia*, Poir.) 5 Port Jackson and tropical N. Holland. Fl. 6 lines long, lilac, C. S.; fr. 0.

ASPARAGUS, L. (Spreng. syst. 2, p. 8, No. 1257;—Endl. gen. pl. 1, p. 151.)

1. *officinalis*, L. (Spreng. o. c. p. 96;—Schult. syst. 7, p. 317;—E. B. 5, t. 339;—Roxb. fl. ind. 2, p. 150;—J. Grah. Cat. B. pl. p. 221.)

हिण्डुवा Hillooa, Common *Asparagus*. 4. Europe. Cultivated. Fl. 2 lines, yellowish-green, March and April.

2. *Curillus*, Buch. (Roxb. H. B. p. 24; fl. ind. 2, p. 152.—A. filicinus, Buch.—Spreng. o. c. p. 136;—Schult. 7, p. 324.) 4. Suembu. Nepal. Shreenagur. Kamroop. Introduced into H. C. G. under the name of A. Curillus, in 1801. Fl. July; fr. January. (Roxb.)

3. *scandens*, Thunb. (Schult. o. c. p. 325;—Red. lil. t. 407.) 4. C. G. H. Introduced in 1821. Has not fl.

4. *racemosus*, Willd. (Spreng. o. c. p. 95;—Schult. o. c. p. 330;—Roxb. fl. ind. 2, p. 151.) शतभूजी Sutmoolee. 5. Ceylon. Bengal. (Serampore,) &c. Fl. small, pure white, delightfully fragrant, C. S.; fr. Feb. and March.

5. *asiaticus*, L. (Spreng. l. c.;—Schult. o. c. p. 331.) 4. Asia. Introduced in 1822. Unknown to me.

6. *capensis*, L. (Spreng. l. c.;—Schult. o. c. p. 334;—Jacq. schönbr. 3, p. 8, t. 266.) 5 C. G. H. Introduced in 1828. Has not fl.

7. *lanceus*, Thunb. (Schult. o. c. p. 335.) 5 C. G. H. Introduced in 1828. Has not fl.

8. *æthiopicus*, L. (Spreng. l. c. excl. syn.;—Schult. l. c.) 4. C. G. H. Introduced in 1828. Has not fl.

9. *falcatus*, L. (Spreng. l. c.;—Schult. o. c. p. 336.) 5 Ceylon. Introduced in 1825. Fl. ?

10. *acerosus*, Roxb. (fl. ind. 2, p. 150.) 4. Prome. Attran. Tavoy. Sukanaghur. Fl. small, pure white, delightfully fragrant, Sept. to Dec.; fr. Feb. and March.

11. *ascendens*, Roxb. (fl. ind. 2, p. 153.) 4. Rohilcund. Fl. small, pure white, Oct. and Nov.; fr. Feb. and March.

DRACÆNA, Vandell. (Spreng. syst. 2, p. 8, No. 1253;—Endl. gen. pl. 1, p. 151.) Dragon Tree.

1. *reflexa*, Lam. (Spreng. o. c. p. 92;—Schult. syst. 7, p. 340;—Red. lil. t. 92.) 4. St. Helena. Madagascar. Mauritius. Fl. 6 lines, yellowish green, sweet-scented, H. S.



2. *cernua*, Jacq. (*hort. schönbr.* 1. p. 59, t. 96;—*Spreng. l. c.*;—*Schult. o. c.* p. 341;—*Roxb. fl. ind.* 2, p. 158.—*D. reflexa*, B. *Red. lil. fol.* 92.) ♀ Mauritius. Fl. 1 inch, yellowish-white, purplish-tinged, sweet-scented, H. S.
3. *terminalis*, Willd. (not Jacq.—*Bl. enum. pl. jav.* p. 10;—*Schult. o. c.* p. 343, excl. syn. *Spreng.*;—*Roxb. fl. ind.* 2, p. 156.—*Asparagus terminalis*, L.—*Terminalis alba*, *Rumph.* 4, t. 34, f. 1.) ♀ Moluccas. China. Fl. 5 lines long, white, H. S.; fr. R. S.
4. *ferrea*, L. (*Spreng. o. c.* p. 90,—*Schult. o. c.* p. 344;—*B. M.* 46, t. 2053;—*Roxb. fl. ind.* 2, p. 158;—*J. Grah. Cat. B. pl.* p. 221;—*Jacq. ic. rar.* 2, t. 448;—*Red. lil.* 2, p. 90;—*Herb. gen. d. Pam. t.* 360;—*B. Cab. t.* 1224.—*Terminalis rubra*, *Rumph.* 4, p. 80, t. 34, f. 2.) ♀ China. Moluccas. Penang. Fl. small, pale-purple, Dec. to March; fr. O.
5. *angustifolia*, Roxb. (*fl. ind.* 2, p. 155.—*Terminalis angustifolia*, *Rumph.* 4, t. 35.) ♀ Amboyna. Fl. smallish, greenish-white, H. S.; fr. R. S.
6. *spicata*, Roxb. (*fl. ind.* 2, p. 157.) ♀ Chittagong. Fl. small, pale greenish-yellow, H. S.; fr. R. S.
7. *maculata*, Roxb. (*fl. ind.* 2, p. 157.) ♀ Sumatra. Fl. small, pale greenish-yellow, H. S.; fr. R. S.
8. *terniflora*, Roxb. (*fl. ind.* 2, p. 159.) ♀ Silhet. Fl. small, pale, greenish-white, Jan. and Feb.; fr. Dec.
9. *atropurpurea*, Roxb. (*fl. ind.* 2, p. 160.) ♀ Silhet. Fl. small, pale rose-coloured-white with deep-red, March and April; fr. Dec.
10. *esculenta*, Bojer. (*Wall. MSS.*) ♀ Madagascar. Fl. small, white, C. S.; fr. O.
11. *ensifolmis*, Wall. MSS. (*D. ensifolia*, *Wall. Cat.*, not Haw.) ♀ Silhet. Introduced in 1840. Has not fl. yet.
12. *plicata*, Wall. MSS. ♀ Native place? Introduced in 1840. Has not fl. yet.

* *Dianella odorata*, Bl.; *Rumph.* 5, p. 185, t. 73. ♀ Indian gardens.—*D. coerulea*, Sims.; *B. M.* 15, t. 506. ♀ Port Jackson.—*D. congesta*, R. Br. ♀ Tropical N. Holland.—*D. longifolia*, R. Br.; *B. Reg.* 9, t. 734. ♀ Port Jackson.—*D. lavis*, R. Br. ♀ Tropical N. Holland.—*D. revoluta*, R. Br.; *B. Reg.* 13, t. 1120. ♀ Tropical N. Holland, and Port Jackson.—*D. rara*, R. Br. ♀ Tropical N. Holland.—*D. strumosa*, Ker.; *B. Reg.* 9, t. 751. ♀ N. Holland.—*D. mauritiana*, Bl. ♀ Mauritius. Cultivated in the Moluccas.—*Eustrephus angustifolius*, R. Br. ♀ Tropical N. Holland.—*Geitonoplesium cymosum*, Cunn. ingh.; *B. M.* 59, t. 3131. (Luzuriaga, (not Ruiz. and Pav.) *cymosa*, R. Br.) ♀ Tropical N. Holland.—*Asparagus maritimus*, Pall. ♀ Caspian Sea.—*A. tenuifolius*, Lam. ♀ S. France. Italy.—*A. verticillatus*, Bieb. ♀ Smyrna.—*A. umbellulatus*, Bresley. ♀ Mauri-

tius.—*A. crispus*, Lam. 2. Mauritius.—*A. aphyllus*, L. 5 S. Europe. N. Africa.—*A. horridus*, L. 5 S. Europe.—*A. Broussoneti*, Spreng. 5 N. Africa.—*A. stipularis*, Forsk. 2. Alexandria.—*A. fasciculatus*, R. Br. Tropical N. Holland.—*A. sarmentosus*, L.; Rheed 10, t. 10. Ceylon. Deccan. Concans.—*A. volubilis*, Buch. Monghir. Goalpara. Rajmahl. Nepal. Neelgherries.—*Myrsiphyllum asparagoides*, Willd. 5 C. G. H.—*M. angustifolium*, Willd. 2. C. G. H.—*Cordylina cannaefolia*, R. Br. 5 Tropical N. Holland.—*C. stricta* (*Dracaena stricta*. Sims; B. R. 12, t. 956.—B. M. 52, t. 2575.) 5 N. Zealand.—*C. australis*, (*Dracaena australis*, Forst.) 5 N. Holland.—*C. parviflora*, Humb. and Bonpl. 5 Mexico.—*C. stricta*, Australia.—*Dracaena Draco*, L. 5 Canaries. Socotora.—*D. marginata*, Lam. 5 Madagascar.—*D. umbrellifera*, Jacq.; B. Cab. t. 289. 5 Java. Cultivated in the Mauritius.—*D. fragrans*, Ker; B. M. 27, t. 1081. 5 Guinea.—*D. ovata*, Ker.; B. M. 29, t. 1179. 5 Sierra Leona.—*D. acuminata*, Thunb. Bourbon. Mauritius.—*D. hemichrysa*, Commers. 2. Mauritius.—*D. flabelliformis*, Bory. 5 Mauritius.—*D. Fontanesiana*, Schult. 5 Bourbon.—*D. surculosa*, Lindl.; B. Reg. 11, t. 1469. 5 Sierra Leona.—*Aphyllanthus monspeliensis*, L.; B. M. 28, t. 1132. 2. S. Europe.—*Xanthorrhoea Pumilio*, R. Br. 2. Tropical N. Holland.

ORDER CCXLIV.—COMMELYNACEÆ, Lindl. Nat. Syst. p. 354.

THE SPIDER-WORT TRIBE.

Herbs, by Lindl. (excluding Hagenbachia, and adding Murdannia,) referred to 14 genera. Of these, Spreng. and Schult. enumerate about 45 species for S. America, Mexico, and the W. Indies; 15 for New Holland; 8 for N. America; 3 for Guinea; 2 for Arabia; 2 for China; and 2 for Japan. In S. Africa have been discovered about 5 species (*Harvey*); and in the E. Indies 59, viz. 12 of *Commelina*, (all over India); 28 of *Anilema*, (all over India.); 2 of *Polia*, (Java.); 8 of *Tradescantia*, (all over India.); 6 of *Cyanotis*, (all over India.); 1 of *Murdannia*, (Himalayas, Khassya Mountains, Kheree Jungles.); and 2 of *Campelia*, (Java.) Properties unknown.

COMMELINA, Dill. (*Endl. gen. pl.* 1, p. 125.—*Commelina*, *Spreng. syst.* 1, p. 128, No. 185;—*R. Br. pr.* p. 269.)

1. *salicifolia*, Roxb. (*fl. ind.* 1, p. 172; *ed. Carey*, 1, p. 176;—*Spreng. syst.* 1, p. 171.) পানী কাঁড়ী *Pance-Kanchura*. © Coromandel. Bengal, (Serampore.) Fl. smallish, deep azure, and fr. R. S.
2. *bengalensis*, Forsk. (*Roxb. fl. ind.* 1, p. 171; *ed. Carey*, 1, p. 175;—*J. Grah. Cat. B. pl.* p. 223.) কাঁড়ী *Kanchura*. কনড়কা *Kanuraka*.



- © Peninsula of India. Bengal, (Serampore.) N. Doab. &c. Fl. small bright-blue, and fr. R. S.
3. *communis*, L. (*Spreng. o. c. p.* 172;—*Roxb. o. c. p.* 171; *ed. Carey*, 1, p. 175;—*J. Grak. Cat. B. pl. p.* 223;—*Red. lit. l.* 206.) জটী কঞ্চড়া Juta-Kanchura, © Peninsula of India. Bengal, (Serampore.) N. Doab &c. Fl. small, bright-blue, and fr. R. S.
4. *caespitosa*, Roxb. (*fl. ind. 1, p.* 174; *ed. Carey*, 1, p. 178.) © Chittagong. Bengal, (Serampore.) &c. Fl. small, blue, and fr. R. S.
- ANEILEMA, R. Br. (*pr.* 270;—*Spreng. syst. 1, p.* 173, and *Endl. gen. pl. 1, p.* 125, under *Commelina*.)
2. *nudiflorum*, R. Br. (*o. c. p.* 271, *annot.*—*Commelina nudiflora*, L.; *non* *Roxb. fl. ind. 1, p.* 173; *ed. Carey*, 1, p. 177;—*Spreng. syst. 1, p.* 173;—*J. Grak. Cat. B. pl. p.* 223, excl. syn. *Aneilema nudicaule*.—*Tradescantia malabarica*, L.;—*Spreng. syst. 2, p.* 115;—*Schult. syst. 8, p.* 1155;—*J. Grak. l. c.*—*Rheed. 9, t.* 63.) কান্দি Kandali. © Peninsula of India. Bengal, (Serampore.) Silhet, &c. Fl. small, blue, and fr. R. S.
1. *vaginatum*, R. Br. (*pr. p.* 271, *annot.*—*Commelina vaginata*, L.;—*Spreng. syst. 1, p.* 173.) © Coromandel. Bengal, (Serampore.) Fl. small, blue, and fr. R. S.
3. *herbaceum*, Wall. (*Cat.*—*Commelina herbacea*, *Roxb. fl. ind. 1, p.* 175; *ed. Carey*, 1, p. 179;—*Spreng. syst. 1, p.* 174.) ৭. Rangoon. Tavoy. Banks of the Attran. Travancore. Sumatra. Fl. small, bluish-white, and fr. nearly throughout the year.
4. *nanum*, (*Commelina nana*, *Roxb. fl. ind. 1, p.* 173; *ed. Carey*, 1, p. 176;—*Spreng. syst. 1, p.* 174.) © Bengal, (Serampore.) &c. Fl. small, bright-blue, fr. R. and C. S.
- TRADESCANTIA, L. (*Spreng. syst. 2, p.* 10, No. 1287;—*Endl. gen. pl. 1, p.* 126.)
1. *fuscata*, Lodd. (*B. Cab. t.* 374;—*Spreng. syst. 2, p.* 115;—*Schult. syst. 8, p.* 1156;—*B. Reg. 6, t.* 482;—*B. M. 49, t.* 2330.) ৭. Brazil. Fl. 6 lines, blue-violet, outside paler, R. S.; fr. O.
2. *paniculata*, Roxb. (*Corom. 2, t.* 109; *fl. ind. 2, p.* 119;—*Spreng. o. c. p.* 117;—*Schult. o. c. p.* 1158.) © Moist vallies on the Coromandel coast. Fl. small, purple-blue, R. S.
3. *erecta*, Jacq. (*ic. rar. 2, t.* 354;—*Red. lit. t.* 239;—*B. M. 33, t.* 1340;—*Spreng. o. c. p.* 116.—*Schult. o. c. p.* 1160.) © Mexico. Fl. 9 lines in diameter, deep-blue, R. S.; fr. C. S.
4. *crassifolia*, L. (*ic. 1, p.* 54, *t.* 75, *descript. p.* 397;—*Spreng. o. c. p.* 116;—*Schult. o. c. p.* 1172;—*B. M. 39, t.* 1598.) ৭. New Spain. Mexico. Fl. 16 lines in diameter, purple-violet, R. S.
5. *virginica*, L. (*Spreng. syst. 2, p.* 116;—*Schult. syst. 8, p.* 1173;—*B. M. 3, t.* 105, *p.* 23;—*Roxb. Hort. Beng.*—*Commelina virginica*, *Roxb. Hort. Beng. p.* 5.) ৭. Virginia. Fl. 6-9 lines long, violet, R. S.; fr. C. S.

6. *discolor*, L'Herit. (*Sert. angl.* p. 8, t. 12;—*Spreng. l. c.*;—*Schult. o. c.* p. 1177;—*Lam. ill. t.* 226, f. 2;—*B. M.* 30, t. 1192;—*Red. lil. t.* 168;—*Roxb. H. B.* p. 23;—*J. Grah. Cat. B. pl.* p. 223.) 4. Shores of the Mexican Gulf. Fl. small, white, soon withering, and fr. nearly throughout the year. Domesticated about Serampore.

MURDANNIA, Royle. (*ill.* p. 403.)

1. *scapiflora*, Royle. (*o. c. t.* 95, f. 3.—*Commelina scapiflora*, *Roxb. fl. ind.* 1, p. 175; *ed. Carey*, 1, p. 178;—*Spreng. syst.* 1, p. 173.—*Aneilema tuberosa*; *Buch. Herb.*) 4. Along the Himalayas, from the Khassya Mountains to Manma. Mussooree. Kheree Jungles. Fl. nearly 1 inch in diameter, lively blue, March and April; fr. 0.

CYANOTIS, D. Don. (*pr. fl. nep.* p. 45;—*Schult. syst.* 8, p. LXII;—*Endl. gen. pl.* 1, p. 126.)

1. *cristata*, Schult. (*syst.* 8, p. 1150.—*Tradescantia cristata*, *L.*; *Jacq. hort. vind.* 2, p. 67, t. 137;—*Spreng. syst.* 2, p. 116;—*B. Cab. t.* 639.—*B. M.* 35, t. 1435;—*J. Grah. Cat. B. pl.* p. 223.—*T. imbricata*, *Roxb. fl. ind.* 2, p. 120;—*J. Grah. l. c.*—*Commelina cristata*, *L. fl. zeyl.*—*Burm. ind. t.* 7, f. 4.—*Rheed.* 7, t. 58.) © Java. Ceylon. Peninsula of India. Bengal, (Serampore.) &c. Fl. small, pale or dark-blue, R. S.; fr. C. S.

2. *barbata*, D. Don. (*pr. fl. nep.* p. 46;—*Schult. o. c.* p. 1153.—*Tradescantia barbata*, *Spreng. c. p. p.* 138.) 4. Nepal. Fl. small, azure, R. S.; fr. 0.

3. *tuberosa*, Schult. (*l. c.*—*Tradescantia tuberosa*, *Roxb. Corom.* 2, t. 108; *fl. ind.* 2, p. 119;—*Spreng. syst.* 2, p. 115;—*J. Grah. Cat. B. pl.* p. 223.) 4. Coromandel valleys. S. Concan. Fl. small, blue-purple, R. S.; fr. 0.

4. *axillaris*, Schult. (*syst.* 8, p. 1154.—*Tradescantia axillaris*, *L. Mant.*; *Spreng. l. c.*;—*Roxb. Corom.* 2, t. 107; *fl. ind.* 2, p. 118;—*J. Grah. Cat. B. pl.* p. 223.—*Commelina axillaris*, *L. sp.*—*Rheed.* 10, t. 13.) बाघनली *Baghanula*. © Java. Ceylon. Peninsula of India. Bengal, (Serampore.) Fl. largish, deep-blue, R. S.; fr. C. S.

- * *Commelyna avenaeifolia*, J. Grah. © Kandalla Jungle.—*C. Nimmoniana*, J. Grah. © Malabar. Hill.—*C. tuberosa*, L. B. M. 41, t. 1695; 4. Mexico.—*C. gracilis*, Ruiz. and Pav.; B. M. 58, t. 3047. 4. Lima.—*C. africana*, L.; B. M. 35, t. 1431. S. Africa.—*C. cyanea*, R. Br. Tropical N. Holland.—*C. lanceolata*, R. Br. Tropical N. Holland.—*C. ensifolia*, R. Br. Tropical N. Holland.—*C. undulata*, R. Br. Tropical N. Holland.—*Aneilema macrophyllum*, R. Br. Tropical N. Holland.—*A. giganteum*, R. Br. Tropical N. Holland.—*Pollia thyrsoiflora*, Endl. (*Lamprocarpus thyrsoiflorus*, Bl.) Java.—*Callisia monandra*, Schult. (*Tradescantia monandra*, Swz.) St. Domingo.—*Tradescantia geniculata*, Lam. 4. Mexico.—*T. undata*, Humb. and Bonpl.; B. Reg. 17, t. 1403. © Mexico.—*T. latifolia*, Ruiz. and Pav.; B. Cab. t.



1300. © Lima.—*T. subaspera*, Ker. ; B. M. 39, t. 1597. ♀. N. America.—*T. diuretica*, Schult. fil. ♀. Brazil.—*T. Karwinskyana*, Schult. ♀. Mexico.—*T. crassula*, Lk. and Otto. ; B. M. 56, t. 2935. ♀. Brazil.—*T. cirrhifera*, Mart. ♀. Mexico.—*T. rosea*, Vent. ; B. Cab. t. 370. ♀. S. Carolina.—*T. commelinoides*, Schult. ♀. Mexico.—*T. caricifolia*, Hook. ; B. M. 64, t. 3546. Texas.—*Campelia Zanoniana*, Rich. Jamaica.—*C. mollissima*, Bl. ♀. Java.—*Dichorisandra Aubletiana*, Schult. ♀. Guiana.—*Cartouema spicatum*, R. Br. ♀. Tropical N. Holland.

ORDER CCXLV.—BUTOMACEÆ, Lindl. Nat. Syst. p. 355.

Water and marsh plants, by Lindl. referred to 3 genera. Of these, 1 species of *Hydrocleis* is a native of S. America ; 1 of *Limnocharis* a native of the W. Indies ; and 2 of *Butomus*, natives of the E. Indies. One of the latter is also common to Europe and N. Asia. Properties unimportant.

BUTOMUS, Tournef. (*Spreng. syst.* 2, p. 264, No. 1534 ;—*Endl. gen. pl.* 1, p. 129.)

1. *umbellatus*, L. (*Spreng. syst.* 2, p. 273 ;—*E. B.* 10, t. 651.) *Flowering Rush*. ♀. Europe. N. Asia. N. India. Loodiana. Cashmere. Fl. largish, variously shaded with rose-colour, purple and white. Introduced in 1813. Fl. ? Plant acrid, formerly considered deobstruent.
2. *lanceolatus*, Roxb. (*fl. ind.* 2, p. 315 ;—*Royle ill.* p. 401, t. 95, f. 1 ;—*J. Grah. Cat. B. pl.* p. 251.—*B. latifolius*, D. Don. ;—*Spreng. c. p.* p. 157.) ♀. Tank at Chiblee in the Surat district, N. W. Provinces of India, from the Turai of Nepal, as far as Seharanpore. Fl. middle-sized, white, with the sepals pale-green outside, and rose-tipped, R. S. but very rare.

- * *Limnocharis Plumieri* Rich. ; B. M. 52, t. 2525. ♀. W. Indies.—*Hydrocleis Humboldtii*, Rich. (*Limnocharis Humboldtii*, B. M. 60, t. 3248 ;—*B. Reg.* 19, t. 1640.) ♀. S. America.

ORDER CCLVI.—ALISMACEÆ, R. Br.—Lindl. Nat. Syst. p. 355.

THE WATER PLANTAIN.

"All aquatic plants, with a lax tissue, and many with a fleshy rhizoma, which is eatable," (*Agardh.*) by Lindl. referred to 5 genera. Of these, *Spreng. syst.* enumerates about 12 species for N. America ; 6 for Europe ; 6 for S. America and the W. Indies ; 1 for Guinea ; 1 for Madagascar ; 1



for *Dahuria*; 1 for China; and 1 for New Holland. In the E. Indies have been discovered 3 species of *Sagittaria*, (all over India, 1 also common to Europe and N. America); and 7 of *Alisma*, (Deyrah-Dhoon, the Khassya Mountains. Assam. Serampore. Tavoy. Nathpur. Ratangunj. Cheetam. 1 of them also common to Europe.) The rhizoma of several *Alismas* and *Sagittarias* eatable. A species of the latter is cultivated for food in China. The herbage is acrid. (*Agardh*.)

SAGITTARIA, L. (*Spreng. syst.* 2, p. 564, No. 2015;—*Endl. gen. pl.* 1, p. 128.) *Arrow-Head*.

1. *sagittifolia*, L. (*Spreng. syst.* 2, p. 632;—*E. B.* 2, t. 84;—*Gärtn. fr.* 2, p. 21, t. 84, f. 3;—*Roxb. fl. ind.* 3, p. 645.) ছোটে কটে *Choto-kul*.

2. Peninsula of India. Bengal, (Serampore.) Nepal. Europe. N. America. Fl. 9 lines in diameter, pure-white, with a purplish base, Feb., March, and April; fr. April and May.

2. *obtusifolia*, L. (*Spreng. o. c.* p. 633;—*Roxb. o. c.* p. 646;—*J. Grah. Cat. B. pl.* p. 199;—*Rheed.* 11, t. 45.) বড় কটে *Buro-kut*. 2. Comorandel. Concans. Bengal, (Serampore,) &c. Fl. 3 lines long, white, R. and C. S.; fr. C. S.

3. *cordifolia*, *Roxb. (fl. ind.* 3, p. 647.—*Alisma stellatum*, *Hb. Buch. A. ?* *Hamiltonianum*, *Wall. Cat.*) 2 Bengal, (Serampore. Silhet. Assam. Deyrah-Dhoon.) Fl. small, white, R. S.; fr. C. S.

ALISMA, L. (*Spreng. syst.* 2, p. 16, No. 1391;—*Endl. gen. pl.* 1, p. 128.) *Water Plantain*.

1. *Plantago*, L. (*Spreng. syst.* 2, p. 163, excl. syn.;—*R. Br. pr.* p. 342;—*E. B.* 12, t. 837;—*A. plantago aquatica*, *Gärtn. fr.* 2, p. 22, t. 84, f. 4.) 2. Europe. Deyrah-Dhoon. N. Holland. Fl. small, pale rose-coloured, R. S.; fr. 0.

2. *natans*, L. (*Spreng. l. c.*;—*E. B.* 11, t. 775.) 2. Europe. N. America. Introduced in 1820. Fl. ?

3. *ranunculoides*, L. (*Spreng. l. c.*;—*E. B.* 5, t. 326.) 2. Europe. Introduced in 1820. Fl. ?

4. *parnassifolium*, L. (*Spreng. l. c.*) 2. Italy. Introduced in 1825. Fl. ?

5. *intermedium*, *Griff. MSS.* 2. Serampore. Fl. small, white ? R. S.; fr. C. S.

* *Sagittaria natans*, *Michx.* S. Carolina.—*S. lancifolia*, L.; B. M. 43, t. 1792. Jamaica. Cuba.—*S. angustifolia*, *Lindl.*; B. Reg. 14, t. 1141. Essequibo.—*S. acutifolia*, L. Surinam.—*S. sinensis*, *Sims*; B. M. 39, t. 1631. China.—*Alisma cordifolium*, L. S. America.—*A. Bertarii*, *Spreng.* Guadeloupe.—*A. pubescens*, *H. Buch.* Nathpur.—*Actinocarpus minor*, *R. Br.* Port Jackson.—*A. Damasonium*, *R. Br.* (*Alisma Damasonium*, L.; *E. B.* 23, t. 1615.) England. France. Italy. N. Africa.



ORDER CCXLVII.—JUNCACEÆ, AGARDH. Lindl. Nat. Syst. p. 356.

THE RUSH TRIBE.

Herbs, by Lindl. (adding *Prionium*, *Susum* and *Narthecium*) referred to 14 genera. Of these Spreng. syst. enumerates 46 species for Europe; 37 for New Holland; 18 for S. America; 18 for N. America; 3 for Siberia; 3 for N. Africa; 2 for the Straits of Magellan; 2 for the Canaries; 1 for Terra del Fuego, and, adds Lindl. 2 for Melville Island. In S. Africa have been discovered 10 species (*Harvey*); and in the E. Indies 18; viz. 13 of *Juncus*, (Himalayas, 1 from Delhi, 1 from Hazaribagh, several European); 1 of *Luzula*, (Kunawur, Europe, Caucasus, Altai); 3 of *Flagellaria*, (Moluccas, Cochin China, Ceylon, both Peninsulas of India, Bengal, Java; one also a native of New Holland); and 1 of *Susum* (Java.) "Only employed for mechanical purposes, as the Rush, and others, for making the bottoms of chairs, &c. the pith of the same for the wick of common candles. *Juncus effusus* is cultivated in Japan for making floor-mats. (*Thunb.*) The leaves of *Flagellaria* are said to be astringent and vulnerary." (*Lindl.*)

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- * *Juncus inflexus*, L. 2. Wet places of S. Europe.—*J. vaginatus*, R. Br. 2. Port Jackson.—*J. multiflorus*, Desf. 2. S. Europe. N. Africa.—*J. capitatus*, Wey. 2. Europe.—*J. pygmaeus*, Thuill. 2. Spain.—*J. cype-roides*, Laharpe. 2. S. America.—*J. bufonius*, L.; E. B. 12, t. 302. 2. Europe. Delhi.—*J. Tenageja*, Ehrh. 2. Swamps of Italy.—*J. indicus*, Hazaribagh.—*Prionium serratum*, E. Mey. 2. C. G. H.—*Narthecium ossifragum*, Huds.; E. B. 8, t. 535. 2. Turfy places of Europe.

Genera allied to Juncaceæ;—*Endl. gen. pl. 1, p. 131.*

FLAGELLARIA, L. (*Spreng. syst. 2, p. 15, No. 1375*;—*R. Br. pr. p. 264*;—*Endl. L. c.*)

1. *indica*, L. (*Spreng. 2, p. 149*;—*Schult 8, p. 1492*;—*R. Br. l. c.*;—*Gärtn. fr. 1, p. 61, t. 16, f. 9*;—*Red. lil. t. 257*;—*Roxb. fl. ind. 2, p. 154*;—*J. Grak. Cat. B. pl. p. 230*;—*Rheed. 7, t. 53*;—*Rumph. 5, t. 29, f. 1.*) बबूँचंदुर *Bun-chandur*. 5. Tropical New Holland. Moluccas. Cochin China. Ceylon. Both Peninsulas of India. Bengal, (Serampore.) Silhet. Fl. small, white, R. S.; fr. C. S.

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- * *Flagellaria minor*, Bl. 5. Java.—*Susum anthelminthicum*, Bl. 2. Swampy places of Java.—*Xerotes arenaria*, R. Br. 2. Tropical N. Holland.—*X. distans*, R. Br. Tropical N. Holland.—*X. media*, R. Br. 2. Tropical N. Holland.—*X. decomposita*, R. Br. 2. Tropical N. Holland.



ORDER CCXLVIII.—PHILYDRACEÆ, Lindl. Nat. Syst. p. 357.

Herbs, natives of marshes or other wet places, belonging to 1 genus, and 2 species, both belonging to New Holland, and 1 of them also to China and Cochin China. "Properties unknown." (Lindl.)

- * *Philydrum lanuginosum*, Banks. (Garciana cochin-chinensis, Lour.)
Tropical New Holland. S. China. Cochin China.

ORDER CCXLIX.—PANDANACEÆ, Lindl. Nat. Syst. p. 361.

(Pandaneæ, Endl. gen. pl. p. 242.)

Palm-like plants, by Lindl. referred to 2 genera. Of these, Spreng. syst. enumerates 8 species for the Mascarenhas Islands; 2-3 for Madagascar; 2 for New Holland; and 1 for Guinea. In the E. Indies have been found 12 species of *Pandanus*, and 4 of *Freycinetia*. The American species of this order, alluded to by Humb. in Lindl. l. c. p. 362, are unknown to us.

"The seeds of *Pandanus* are eatable. The fruit of several is also an article of food. The leaves are used for thatching and cordage. The immature fruit is reputed emmenagogue. Humb." (Lindl.)

PANDANUS, L. fil. (Spreng. 3, p. 892, No. 3158;—R. Br. pr. p. 341;—Endl. gen. pl. 1, p. 242.)

1. *odoratissimus*, L. fil. (Spreng. syst. 3, p. 897;—Roxb. Corom. 1, t. 94, 95, 96; fl. ind. 3, p. 738, excl. syn. As. res.—Lour. cochin. 2, p. 603;—Rheed. 2, t. 8;—J. Grah. Cat. B. pl. p. 227. —*Athrodactylis spinosa*, Forst. gen. No. 75;—Rheed. 2, t. 1-5;—Rumph. 4, t. 74.) केडी Kea. ♂ Native place uncertain. Cultivated over all the warmer parts of Asia. Fl. small, delightfully fragrant, R. S.; fr. C. S. The fusiform, tough, fibrous roots are used by basket-makers to tie their work with, and on account of their softness, by the natives, as corks, (Roxb.) Matting and package bags are made of them at the Mauritius. Avenues are formed of the shrubs themselves in China, Cochin China and Mauritius, and in the two former countries elephants are fed on them. (Lour. Hardw.) The lower yellow pulpy part of the drupe, is sometimes eaten by the natives during times of scarcity and famine, the same is the case with the white base of the leaves, which is consumed raw or boiled. (Roxb.)
2. *moschatus*, Rumph. (Amb. 4, p. 147, cap. 85;—P. lævis, Lam.;—Spreng. 3, p. 398.—P. inermis, Roxb. fl. ind. 3, p. 744.) ♂ Moluccas. Cochin China. Introduced into H. C. G. in 1810, but had not fl. in 1814.



3. *Leram*, Jones. (P. Millore, *Roxb. H. B.* p. 71.) *Nicobar Bread-fruit*. (As. Res. 3, p. 161.) 5 Nicobar Islands. Introduced into H. C. G., before 1814. Fl. ?
4. *foetidus*, Roxb. (*Jl. ind.* 3, p. 742.) कक़ा क़ाँठे *Kea-Kanta*. 5 Bengal, (Calcutta, Serampore.) Fl. small, almost as offensive as those of *Sterculia foetida*, L.; C. S.; fr. R. S. Only employed for hedges. (*Roxb.*)
5. *furcatus*, Roxb. (*Jl. ind.* 3, p. 744;—*Spreng. syst.* 3, p. 898. excl. syn. Rheed. 2, t. 8.) 5 Pegu. Chittagong. Malabar, &c. Introduced into H. C. G. in 1811. Had not fl. in 1814.
6. *marginatus*, Roxb. (*H. B.* p. 71.) 5 Mauritius. Introduced in H. C. G. in 1811. Had not fl. in 1814.
7. *utilis*, Bory. (*Willd. enum. Diebr. Lexi. Nachtrag*, 5, p. 503.—*Spr. syst.* 3, p. 897.—*P. nudus*, Pet. Th.—*P. odoratissimus*, Jack, not L.) Amboyna. Cochin China. Bourbon. Mauritius.
8. *amaryllifolius*, Roxb. (*Jl. ind.* 3, p. 743.) 5 Amboyna. Introduced into H. C. G. in 1798, but had not fl. in 1814. In the Serampore garden it has been cultivated for about 30 years, without fl.
9. *Candelabrum* ? Pal. Beauv. (*Jl. Owar. and Benin.* 1, p. 37, t. 21, and 22.—*Spr.* p. 898.) Guinea. Royal. Bot. Gard. Ceylon.
10. *edulis*, Pet. Th. (*Spreng. syst.* 3, p. 898.) 5 Madagascar. Fl. small, R. S.; fr. C. S.
11. *drupaceus*, Pet. Th. (*Poir. cycl. suppl.* 1, p. 576, *Spr.* 898.)—Mauritius ♀ fl. May 1840, fr. Sept. to Oct.

* *Pandanus utilis*, Bory. Madagascar.—*P. fascicularis*, Lam. Moluccas.—*P. caricosus*, Rumph. Moluccas.—*P. spiralis*, R. Br. Tropical New Holland.—*P. pedunculatus*, R. Br. Tropical N. Holland.—*P. palustris*, Pet. Th. Mascarenhas Islands.—*P. elegans*, Pet. Th. Mascaranhas Islands.—*P. humilis*, Rumph. Moluccas.

ORDER CCL.—CYCLANTHACEÆ, Lindl. Nat. Syst. p. 362.

Palm-like plants, by Lindl. referred to 3 genera with 11 species, all natives of S. America and the W. Indies. "Buttons are turned from the hard albumen of *Phytelephas*, or the *Tagua* plant. *Humb.*" (*Lindl.*)

* *Carludovica latifolia*, Ruiz. and Pav.; B. Cab. t. 1068. (*Ludovia latifolia*, Pers.; B. M. 56, t. 2950, 51.) 5 Peru.—*C. palmefolia*, Endl. St. Domingo.—*Cyclanthus bipartitus*, Poit. Guiana.—*C. Plumieri*, Poit. Martinico.



Genus allied to Pandanaceæ, which according to Endl. embrace the last-mentioned order.

NIPA, Thunb. (*Spreng. syst.* 3, p. 757;—*Endl. gen. pl.* 1, p. 244.) Contains only one species, viz:—

1. *fruticans*, Thunb. (*Act. holm.* 1782, p. 231;—*Spreng. syst.* 3, p. 772;—*Lam. ill.* 3, t. 897;—*Labill. in mem. mus.* 5, p. 297, t. 21, 22;—*Roxb. fl. ind.* 3, p. 650.—*Nypa*, *Rumph.* 1, t. 16.—*Cocos Nypa*, *Lour.*) *बुधग* *Goolga*. 5 Moluccas. Cochin China. Soonderbuns, &c. Introduced into H. C. G. in 1810. FL?

ORDER CCLI.—ARACEÆ, Schott.

(Aroideæ, Juss.;—*Endl. gen. pl.* p. 232.)

THE ARUM TRIBE.

Herbaceous plants, frequently with a fleshy cormus, or shrubs; stemless or arborescent, or climbing by means of aerial roots," (*Lindl.*) referred by Endl. to 38 genera. Of these, *Spreng. syst.* enumerates 42 species for S. America, Mexico and the W. Indies; 11 for Europe? 6 for N. America; 4 for N. Holland; 1 for Siberia; 1 for China; 3 for Japan; 1 for S. Africa; 1 for Guinea; 1 for N. Africa; 1 for Syria; and 1 for Tauria, and Caucasus. The Indian species, described by *Roxb.* amount to 48. Of additional species *Wallich's* several publications enumerate about 16, *Royle's ill.* 3, and *J. Graham's Cat. B.* pl. p. 4, in all 71; viz. 1 of *Pistia*; 1 of *Ambrosinia*; 3 of *Cryptocoryne*; 4 of *Arisæma*; 1 of *Sauromatum*; 5 of *Typhonium*; 4 of *Pythonium*; 1 of *Amorphophallus*; 1 of *Remusatia*; 9 of *Colocasia*; 1 of *Aglaonema* (*Arum. Lk.*); 3 of *Homalomena* (one of these *Calla occulta*, *Lour.*); 13 of *Scindapsus*; 1 of *Pothos*; 2 of *Lasia*; 1 of *Dracontium*; and 2 of *Acorus*. The remaining 22 species we have not been able to adapt to Endl. and Schott's Araceous synopsis, partly from want of specimens, and partly from the inaccuracy of the descriptions. Acridity prevails in most species of the order, and is in some American ones so concentrated as to make them dangerous poisons. As, however, this principle is abstracted by cooking, drying, washing with water, and even by long cultivation, the fecula redundant in many of their under-ground stems remains, and may be rendered available as an article of diet. This is the case with a great many of our Indian Arums, well known under the common name of *Kuchoo*.

A. ARÆÆ, (*Araceæ*, *Endl. gen. pl.* p. 233.)

a. *Pistivineæ*. (*Pistiaceæ*, *Endl. l. c.*)

PISTIA, L. (*Spreng. syst.* 3, p. 757, No. 3063;—*Endl. l. c.*)

1. *Stratiotes*, L. (*Spreng. syst.* 3, p. 772;—*Jacq. amer.* p. 234, t. 148, ed. pict. t. 225;—*Roxb. fl. ind.* 3, p. 131;—*J. Graham. Cat. B.* pl. p. 200.—*Tala indica*, *Lour.*;—*Rheed.* 11, t. 32;—*Rumph.* 6, t. 74.) *ढेकपात्र*



Takypna. © Swimming on pools of stagnant water in the Moluccas, Cochin China, Sunda Islands, Ceylon, both Peninsulas of India, Bengal. Fl. small, pale-yellow, H. and R. S.; fr. R. and C. S. (Serampore,) &c. extending as far as Saharanpore. Tropical America. In Jamaica, in hot dry weather it impregnates the water with its acrid particles to such a degree, as to give rise to the bloody flux. (*Browne. hist. of Jam.* 330.) Cut into small pieces and mixed with rice, it is given to sucklings, who greedily devour this mixture. The leaves are almost tasteless, but their acidity soon attacks the mouth and lips as much as in *Arum*. (*Rumph.*) The natives make them into a poultice for the piles. (*Ainslie.*)

AMBROSINIA, Bassi. (*Spreng. syst.* 3, p. 757, No. 3062;—*Endl. gen. pl.* 1, p. 233.)

1. *Roxburghiana*, (A. unilocularis, *Roxb. fl. ind.* 3, p. 493.) ♀. Coromandel. Has been introduced into H. C. G.?

b. *Cryptocoryne*, (Cryptocorynæ, Bl.;

Endl. gen. pl. 1, p. 234.)

CRYPTOCORYNE, Fisch. (from Wydler in *Linnaea*, 5, p. 428;—*Endl. l. c.*)

1. *ciliata*, Schott. and Endl. (*Ambrosinia ciliata*, *Roxb. Corom.* 3, t. 262; *fl. ind.* 3, p. 491;—*Spreng. syst.* 3, p. 771.) কেরালী *Keralæe*. ♀. Banks of rivulets, ponds, and wet places in Bengal, (Serampore.) Fl. minute, and fr. R. S. (*Roxb.*)

2. *spiralis*, Schott. and Endl. (*Ambrosinia spiralis*, *Roxb. fl. ind.* 3, p. 492.—*Arum spirale*, *Retz.*;—*Spreng. syst.* 3, p. 768;—*B. M.* 48, t. 2220;—*J. Grah. Cat. B. pl.* p. 228.) ♀. Moist, shady banks of ponds or standing sweet water, or rivers of the coast of Coromandel, of the Deccan, and the Concan. Fl. minute, and fr. R. S. (*Roxb.*)

3. *retrospiralis*, (*Ambrosinia retrospiralis*, *Roxb. fl. ind.* 3, p. 492.) ♀. N. Bengal in moist places. Fl. minute, R. S. (*Roxb.*)

c. *Dracunculina*, Endl. and Schott.

Endl. gen. pl. 1, p. 234.

ARISÆMA, Mart. (*Endl. l. c.*)

1. *triphyllum*, Endl. (*Arum triphyllum*, L.;—*Spreng. syst.* 3, p. 769, excl. syn.;—*B. M.* 24, t. 950, a.) ♀. N. America, from Canada to Carolina. Introduced in 1825. Fl. ? The milk in which the acrid root has been boiled, is said to have cured consumption. (DC.)

2. *Dracontium*, Endl. (*Arum Dracontium*, L.;—*Spreng. l. c.*;—*B. Reg.* 8, t. 668.) ♀. N. America. Introduced in 1825. Fl. ?

TYPHONIUM, Schott. (*Endl. gen. pl.* 1, p. 235.)

1. *flagelliforme*, (*Arum flagelliforme*, *Roxb. fl. ind.* 3, p. 502.) যাস কুছ *Ghas-kuchoo*. ♀. Bengal, (Serampore.) Fl. minute, R. S.

? 2. *divaricatum*, (*Arum divaricatum*, L.;—*Spreng. syst.* 3, p. 768;—*Roxb. fl. ind.* 3, p. 503;—*J. Grah. Cat. B. pl.* p. 228;—*Rheed.* 11, t. 20.) ♀. China. Coromandel Coast. The Concan. Bengal. (Serampore.) Fl. small, R. S.

3. *orizense*, Schott. (*Arum orizense*, Roxb. *fl. ind.* 3, p. 503;—*R. Br. pr.* p. 336;—*Spreng. syst.* 3, p. 769;—*B. Reg.* 6, t. 450;—*B. Repos.* 5, t. 356.—*A. trilobatum*, Lour. not L.) घेत कुहू *Ghet-kuchoo*.
4. New Holland. Cochin China. Both Peninsulas of India. Ceylon, Bengal, (Serampore,) &c. Fl. minute, R. S. the roots are exceedingly acrid, and used by the natives in poultices. (*Roxb.*)
4. *trilobatum*, Schott. (*Arum trilobatum*, L.;—*Spreng. l. c.*;—*Roxb. fl. ind.* 3, p. 505;—*B. M.* 10, t. 339, not Lour.—*Rumph.* 5, t. 110, f. 2.) 4. Moluccas. Fl. minute, R. S.
5. *sylvaticum*, (*Arum sylvaticum*, Roxb. *fl. ind.* 3, p. 511.) 4. Circars. Fl. minute, R. S.

PYTHONIUM, Schott. (*Endl. gen. pl.* 1, p. 236.)

1. *bulbiferum*, Schott. (*Arum bulbiferum*, Roxb. *fl. ind.* 3, p. 510;—*B. M.* 46, t. 2072, and 51, t. 2508;—*Spreng. syst.* 3, p. 770;—*J. Grah. Cat. B. pl.* p. 229.) अम्बल बेला *Umblo-bela*. 4. Peninsula of India. Bengal, (Serampore.) Fl. small, May.
2. *nepalense*, Schott. (*Thomsonia nepalensis*, Wall. *pl. as. rar.* 1, t. 99.) 4. Nepal. Has been introduced into H. C. G. Fl. ?

AMORPHOPHALLUS, Bl. (*in diar. batav.* (1825).—*Endl. gen. pl.* 1, p. 236.)

1. *campanulatus*, (*Arum campanulatum*, Roxb. *H. B.* p. 65;—*Corom.* 3, t. 272; *fl. ind.* 3, p. 509;—*Spreng. syst.* 3, p. 770;—*B. M.* 55, t. 2812;—*J. Grah. Cat. B. pl.* p. 228.—*Arum Rumphii*, *Gaudich.*—*Arum zeylanicum*, *Commel. hort. v.* 1, p. 101, t. 53.—*Candarium Roxburghii*, Schott.—*Rheed.* 11, t. 18, 19;—*Rumph.* 5, t. 112, 113, f. 2.) 4. Moluccas. Ceylon. Both Peninsulas of India, Bengal, (Calcutta, Serampore,) &c. Fl. minute, June. This species, which deserves to be called the *Telinga Potatoe*, is much cultivated in the N. Circars and about Surat, and highly esteemed for the wholesomeness and nourishing quality of the roots. A very rich soil, repeatedly ploughed, suits it best. The small tuberosities found in the large roots are employed for sets, and planted in the manner of potatoes. In twelve months they are reckoned fit to be taken up for use; the larger roots will then weigh from 4—8 or more pounds, and keep well if preserved dry. The natives employ them for food in the manner of the common yam. (*Roxb.*) In the Kainah Zilla, it is planted in May, and yields from 100—250 maunds per beegah. It sells for about a Rupee per maund. (*Kirkland.*)

d. Caladicea, Schott. *Endl. gen. pl.* 1, p. 236.

REMUSATIA, Schott. (*Endl. l. c.*)

1. *vivipara*, Schott. (*Arum viviparum*, Roxb. *fl. ind.* 3, p. 496;—*J. Grah. Cat. B. pl.* p. 228.—*Caladium viviparum*, Nees.—*Rheed.* 12, t. 9.) 4. Both Concans. Mussooree, Nepal. Fl. R. S.

COLOCASIA, Ray. (*Endl. gen. pl.* 1, p. 236.)

1. *antiquorum*, Schott. (*Eucolocasia*.—*Arum Colocasia*, L.; *Spreng. syst.* 3, p. 769;—*Roxb. fl. ind.* 3, p. 494;—*J. Grah. Cat. B. pl.* p.



928.—*A. ægypticum*, *Rumph.* 5, t. 109.) कू Kuchoo. ५. Greece. Asia Minor. Syria. E. Indies. Fl. R. S.

α. गुड़ि कू Goori-kuchoo.

β. आशू कू Ashoo-kuchoo.

These two varieties are cultivated in Lower Bengal, about Calcutta, Serampore, &c. Small offsets from the larger tubers are, like potatoes, planted about the beginning of the rains, in May and June, in a well laboured, friable, rich soil, not subject to inundations. The roots of α. are taken up in Feb. and March; those of β. about the close of the year. (*Roxb.*)

γ. काल कू Kalo-kuchoo. (*Rumph.* 5, t. 110, f. 1.) Leaves and petioles more or less purple-tinged. The roots never swell in the manner of the cultivated varieties, but send out numerous runners. The leaves and petioles are eaten by the natives. (*Roxb.*)

δ. छाड़ कू Char-kuchoo. Disk of the leaves marked with dark-purple or bluish clouds, not cultivated. (*Roxb.*)

ε. बन कू Bun-kuchoo. Leaves uniformly green. Not cultivated, and like δ. seldom eaten by the natives. (*Roxb.*)

2. *nymphæifolia*, Royle. (*Eucolocasia*.—*Arum nymphæifolium*, *Roxb. fl. ind.* 3, p. 495;—*J. Grah. Cat. B. pl.* p. 228.—*Caladium nymphæifolium*, *Vent.*—*Spreng. syst.* 3, p. 771;—*Rheed.* 11, t. 22.) सार कू Sar-kuchoo. ५. Both Concans, Bengal, (Serampore,) &c. Fl. R. S.

3. *esculenta*, Schott. (*Eucolocasia*.—*Arum esculentum*, *L.*;—*Spreng.* 3, p. 771. *Calla calyptрата*, *Roxb. fl. ind.* 3, p. 514.—*Arisarum esculentum*, *Rumph.* 5, t. 111, f. 1.) ५. Jamaica. Brazil. Amboyna. Fl. May. *Schismatoglottis calyptрата*, *Zollet. flor. urget. Is. t. 205-*

4. *indica*, (*Alocasia*.—*Arum indicum*, *Lour.*;—*Roxb. fl. ind.* 3, p. 498.) मान कू Man-kuchoo. ५. Various parts of India. In Bengal it is cultivated about the huts of the natives for its esculent stems and small pendulous tubers, these being very generally eaten by people of all ranks in curries, &c. (*Roxb.*) Fl. Sept. Oct. and Nov.

β. मान गिड़ि Man-giri. Petioles darker-coloured. This as well as α seldom produce ripe seeds.

? 5. *odora*, (*Arum odorum*, *Roxb. fl. ind.* 3, p. 499;—*B. Reg.* 8, t. 641.—*Caladium odoratum*, *Spreng. syst.* 3, p. 770.) ५. Pegu. Fl. very fragrant, Oct. to January; fr. March and April.

6. *fornicata*, (*Arum fornicatum*, *Roxb. fl. ind.* 3, p. 501.) साली कू Salo-kuchoo. ५. Bengal, (Serampore.) Chittagong, &c. Fl. R. S.

7. *cucullata*, Schott. (*Arum cucullatum*, *Lour.*;—*Roxb. fl. ind.* 3, p. 501.—*Caladium cucullatum*, *Pers.*;—*Spreng. syst.* 3, p. 770.) बिश्मन Bishman. ५. Bengal, (Serampore.) Fl. R. S.

HOMALONEMA, Schott. (*Endl. gen. pl.* 1, p. 236.)

1. *aromaticum*, Schott. (*Calla aromatica*, *Roxb. fl. ind.* 3, p. 513.—*Zantedeschia aromatica*, *Spreng. syst.* 3, p. 765.) ५. Chittagong. Fl. C. S.



When cut, it diffuses a pleasant aromatic scent. The medicinal virtues of the root are in high estimation amongst the natives. (*Roxb.*)

- ? 2. *rubescens*, (*Calla rubescens*, *Roxb. fl. ind.* 3, p. 515;—*Dracunculus amboinicus*, *Rumph.* 5, t. 111, f. 2.) 2. Amboyna. Chittagong. Fl. August.

RICHARDIA, Kth. (*Endl. gen. pl.* 1, p. 238.)

1. *athiopica*, Kth. (*Calla athiopica*, *L.*;—*B. M.* 21, t. 832;—*Roxb. H. B. p.* 64.—*Zantedeschia athiopica*, *Spreng. syst.* 3, p. 765.) 2. Fl. C. S.

B. CALLÆ.

(*Callacæe*, *Endl. gen. pl.* 1, p. 239.)

e. Callinæ, (*Callesæ*, *Endl. l. c.*)

CALLA, *L.* (*Endl. l. c.*)

1. *palustris*, *L.* (*Spreng. syst.* 3, p. 765;—*Fl. Dan.* t. 422;—*B. M.* 43, t. 1831.) 2. Swampy places of Europe. Introduced in 1822. Fl. ?

SPINDARSUS, Schott. (*Endl. gen. pl.* 1, p. 239.)

1. *officinalis*, Schott. (*Pothos officinalis*, *Roxb. fl. ind.* 1, p. 431; *ed. Carey*, 1, p. 452;—*Spreng.* 3, p. 766.) গুল্ম শিলা Guj-pippul. 2. Paras. Bengal, (Midnapore, Serampore.) Calicut. Cochin China. On Chappedong. Moulmein. Rangoon. Monghir Mountains. Fl. R. S.; fr. January. At Midnapore it is cultivated for its fruit, which cut into transverse pieces and dried, is an article of some importance in the Hindoo Materia Medica.
2. *Peepla*, *Endl.* (*Pothos Peepla*, *Roxb. fl. ind.* 1, p. 432; *ed. Carey*, 1, p. 454.) 2. Silhet. Fl. April and May.
3. *giganteus*, Schott. (*Pothos giganteus*, *Roxb. fl. ind.* 1, p. 434; *ed. Carey*, 1, p. 455.) 2. Singapore. Penang. Fl. Oct.; fr. 0.
4. *pertusus*, Schott. (*Pothos pertusus*, (*Roxb. fl. ind.* 1, p. 434; *ed. Carey*, 1, p. 455;—*J. Grah. Cat. B. pl.* p. 230;—*Rheed.* 12, t. 21, 22.) 2. Coromandel. S. Concan. Has not fl. here.
5. *pinnatus*, Schott. (*Pothos pinnatus*, *L.*;—*Spreng.* 3, p. 767;—*Roxb. fl. ind.* 1, p. 435; *ed. Carey*, 1, p. 456;—*Rumph.* 5, t. 183, f. 2.) 2. Forests of the Malay countries. In H. C. G. ?
6. *decursivus*, Schott. (*Pothos decursivus*, *Roxb. fl. ind.* 1, p. 436; *ed. Carey*, 1, p. 456;—*Wall. pl. as. rar.* 2, t. 192.) 2. Silhet. Fl. April and May; fr. R. S.
- ? 7. *caudatus*, (*Pothos caudatus*, *Roxb. fl. ind.* 1, p. 436.) 2. Penang. Introduced into H. C. G. in 1798, but had not fl. up to 1814.
- ? 8. *pinnatifidus*, (*Pothos pinnatifidus*, *Roxb. fl. ind.* 1, p. 437.) 2. Introduced into H. C. G. Fl. ?
9. *glaucus*, Schott. (*Pothos glaucus*, *Wall. pl. as. rar.* 2, t. 156.) 2. Paras. Nepal. Khassya Mountains. Has not fl. here.

f. Orontieæ,

(*Orontiaceæ*, *Endl. gen. pl.* 1, p. 239.)

a. Pothoïneæ, Schott. (*Endl. l. c.*)

POTHOS, L. (*Endl. l. c.*)

1. *scandens*, L. (*Spreng. syst.* 3, p. 767 ;—*Roxb. fl. ind.* 1, p. 430 ; *ed. Carey*, 1, p. 451 ;—*J. Grah. Cat. B. pl.* p. 229 ;—*B. Reg.* 16, t. 1337 ;—*Rheed.* 7, t. 40 ;—*Rumph.* 5, t. 184, f. 2.) 4. Paras. Cochin China. Moluccas. Sunda Islands. Ceylon. Both Peninsulas of India. Bengal. Nepal. Fl. April and May ; fr. R. S.

LASIA, Lour. (*Endl. gen. pl.* 1, p. 239.)

1. *Loureiri*, Schott. (*L. aculeata*, Lour.—*Pothos Lasia*, *Roxb. fl. ind.* 1, p. 438 ; *ed. Carey*, 1, p. 458 ;—*Spreng. syst.* 3, p. 767.) কাঁটা কুহু *Kanta-kuchoo*. 4. Cochin China. Penang. Singapore. Bengal, (Serampore.) Silhet. Fl. C. S. ; fr. H. S.
2. *heterophylla*, Schott. (*Pothos heterophyllus*, *Roxb. fl. ind.* 1, p. 437 ; *ed. Carey*, 1, p. 457 ;—*Spreng. syst.* 3, p. 767.) কাঁটা মান *Kanta-man*. 4. Bengal, (Serampore.) C. S., but rare.

β. Dracontinæ. (*Dracontieæ*, Schott.—*Endl. gen. pl.* 1, p. 240.)

DRACONTIUM, L. (*Endl. l. c.*)

1. *polyphyllum*, L. (*Spreng. syst.* 3, p. 766 ;—*R. Br. pr.* p. 337 ;—*B. Reg.* 9, t. 700 ;—*J. Grah. Cat. B. pl.* p. 229, excl. syn. *Rheed.* and *Rumph.*) 4. Tropical N. Holland. S. America. Malabar Hill, Bombay. The Concans. Introduced in 1825. Fl. ? The prepared root is supposed by the natives to possess antispasmodic virtues, and is considered a valuable remedy in asthma. It is also used in hemorrhoids. (*Ainslie*.)

γ. Orontinæ. (*Orontieæ*, Schott. ;—*Endl. gen. pl.* 1, p. 240.)

ORONTIUM, L. (*Spreng. syst.* 2, p. 10, No. 1290 ;—*Endl. l. c.*)

1. *aquaticum*, L. (*Spreng. o. c. p.* 118 ;—*Schult. syst.* 7, p. 171 ;—*Lam. ill. t.* 252, f. 2 ;—*Hook. exot. fl. t.* 19 ;—*B. Cab. t.* 402.) 4. Swampy places in N. America from Canada to Carolina. Introduced in 1822. Fl. ? Acid, but eatable by roasting. (*Lindl.*)

g. Acorææ. (*Acoroidææ*, Schott. ;—*Endl. gen. pl.* 1, p. 240.)

Acoraceæ, *Lindl. Nat.*

Syst. p. 365, excl. *Tupistra* and *Aspidistra*.)

ACORUS, L. (*Spreng. syst.* 2, p. 10, No. 1293 ;—*Endl. l. c.*)

1. *Calamus*, L. (*Spreng. o. c. p.* 118 ;—*Gürt. fr.* 2, p. 27, t. 84, f. 10 ;—*Schult. syst.* 7, p. 173 ;—*E. B.* 5, t. 356 ;—*Roxb. fl. ind.* 2, p. 169 ;—*J. Grah. Cat. B. pl.* p. 230, excl. syn. *Rumph.*—*A. odoratus*, *Lam.*, —*Rheed.* 11, t. 60 ?) শ্বেত বচ *Shwet-bach*. Sweet Flag. 4. Europe. Siberia. N. America. Japan. Common in gardens. Fl. R. S. *Schultes l. c.* is of opinion, that *Rheede's* plant is widely different from that of *Linneus*. The latter remarks, that it is the only native aromatic plant of northern climates. The root powdered might supply the place of foreign spices. It has a strong aromatic smell, and a warm, pungent,

bitterish taste. The flavour is greatly improved by drying. The Turks candy the roots, and regard them as a preservative against contagion. In many counties in England, in which the plant abounds, it was formerly used to strew the floors of houses instead of rushes; a purpose for which its fragrant leaves made it very suitable. The aromatic principle is an essential oil, which can be obtained by distillation. The root has been employed in medicine since the time of Hippocrates. By the moderns it is successfully used in the intermittent fevers, even after bark has failed, and is certainly a very useful addition to Cinchona. It is also a useful adjunct to bitter, and stomachic infusions. Thomson (*Mat. Med.* 134) says, it is too seldom prescribed. (*Lond. enc.* p. 257.)

2. *gramineus*, Ait. (*Spreng. l. c.*;—*Schult. o. c.* p. 174;—*Sm. spicil.* p. 15, t. 17.) ♀. Cultivated in China. Has been cultivated here for more than 14 years, without fl.
3. *terrestris*, Spreng. (syst. 2, p. 118.—*Acorum terrestre*, *Rumph.* 5, 178, t. 72.)

ARUM, Roxb. (*fl. ind.* 3, p. 494.)

1. *rapiforme*, Roxb. (*o. c.* p. 497.) ♀. Pegu. Introduced in 1809, into H. C. G. where it fl. R. S. (*Roxb.*)
2. *montanum*, Roxb. (*l. c.*) ♀. Mountainous forests of N. Circars, where its root is said to be employed to poison tigers. Introduced in 1808, into H. C. G. where it fl. R. S. (*Roxb.*)
3. *gracile*, Roxb. (*o. c.* p. 505;—*J. Grah. Cat. B. pl.* p. 228, excl. syn. *Rumph.*—*Rheed.* 11, t. 21.) ♀. Silhet. Introduced in 1811, into H. C. G. where it fl. H. and R. S. (*Roxb.*)
4. *cuspidatum*, Roxb. (*o. c.* p. 506.) ♀. Penang. Introduced in 1802, into H. C. G. where it fl. R. S. (*Roxb.*)
5. *curvatum*, Roxb. (*l. c.*) ♀. Nepal. Introduced in 1804, into H. C. G. where it fl. R. S. (*Roxb.*)
6. *sessiliflorum*, Roxb. (*o. c.* p. 507.) ♀. Cawnpore. Introduced in 1802, into H. C. G. where it fl. H. S. (*Roxb.*)
7. *lyratum*, Roxb. (*o. c.* p. 508.) ♀. Circar Mountains. Has been introduced into H. C. G.? The roots are eaten by the natives of the Mountains, but require two or three boilings and some particular care in the dressing to render them inoffensive, and nourishing. (*Roxb.*)
8. *margaritiflorum*, Roxb. (*o. c.* p. 512.) ♀. Hindoosthan. Introduced into H. C. G. before 1814, where it fl. May and June. (*Roxb.*)

CALLA, Roxb. (*fl. ind.* 3, p. 513.)

1. *oblongifolia*, Roxb. (*o. c.* p. 516;—*Rumph.* 5, t. 108.) ♀. Moluccas. Introduced in 1798, into H. C. G. where it fl. R. S. (*Roxb.*)
2. *pieta*, Roxb. (*l. c.*) ♀. Sumatra. Introduced into H. C. G. before 1814, and fl. there about the close of the R. S. (*Roxb.*)
3. *virosa*, Roxb. (*o. c.* p. 517.) ♀. Chittagong. Introduced in 1810, into H. C. G. where it fl. Sept. and Oct. (*Roxb.*)



Pernos, Roxb. (*fl. ind.* 1, p. 430.)

1. *tener*, Wall. (*Roxb. fl. ind.*; ed. Carey, 1, p. 454, annot.;—*Spreng. syst.* p. 767.—*P. gracilis*, Roxb. *fl. ind.* 1, p. 433, not Rudge.—*Rumph.* 5, t. 181, f. 2?) 4. Amboyna. Has been introduced into H. C. G.?

* *Arisarum vulgare*, Kth. 4. S. Europe. N. Africa.—*Arisema multicarinatum*, Schott. (*Arum multicarinatum*, Wall.) 4. Nepal.—*A. tortuosum*, Schott. (*Arum tortuosum*, Wall. pl. as. rar. 2, t. 114.) 4. Nepal.—*A. erubescens*, Schott. (*Arum erubescens*, Wall. pl. as. rar. 2, t. 135.) 4. Nepal.—*A. echinatum*, Schott. (*Arum echinatum*, Wall. pl. as. rar. 2, t. 136.) 4. Nepal.—*Biarum tenuifolium*, Schott. (*Arum tenuifolium*, L.; B. M. 42, t. 2282; B. Reg. 6, t. 512.) 4. Morea. Dalmatia.—*B. gramineum*, Schott. (*Arum gramineum*, L.) 4. S. Europe.—*Arum italicum*, Lam; B. M. 50, t. 2432. 4. S. Europe.—*A. maculatum*, L. 4. S. Europe.—*A. pictum*, L. fil. 4. Balearic Islands.—*Sauromatum pedatum*, Schott. (*Arum pedatum*, Fisch.) 4. S. America.—*S. guttatum*, Schott. (*Arum guttatum*, Wall. pl. as. rar. 2, t. 115.) 4. Nepal.—*Dracunculus crinitus*, Schott. (*Arum crinitum*, Ait.) 4. Balearic Islands.—*D. Arum*, Schott. (*Arum Dracunculus*, L.) 4. S. Europe.—*Colocasia macrorrhiza*, Schott. (*Arum macrorrhizum*, L.) 4. Ceylon.—*C. himalensis*, Royle. 4. Himalaya.—*Caladium bicolor*, Vent; B. M. 52, t. 2543. (*Arum bicolor*, Ait.; B. M. 21, t. 820.) 4. Brazil.—*Pellandra virginica*, Schott. (*Arum virginicum*, L.; Hook. exot. fl. t. 182.) 4. N. America.—*Xanthosoma xanthorrhizon*, Schott. (*Arum xanthorrhizon*, Willd.) 4. W. Indies?—*X. sagittæfolium*, Schott. (*Caladium sagittæfolium*, Vent.) 4. W. Indies.—*Acontias helleborifolia*, Schott. (*Arum helleborifolium*, Jacq. 4. W. Indies.—*Syngonium auritum*, Schott. (*Arum auritum*, L.) 4. W. Indies.—*Culcasia scandens*, Beauv. (*Caladium scandens*, Willd.) 4. Guinea.—*Philodendron grandifolium*, Schott. (*Arum grandifolium*, Jacq.; B. M. 53, t. 2643.) 4. Caracas. Has been introduced at Bombay.—*P. pinnatifidum*, Schott. (*Arum pinnatifidum*, Jacq.) 4. Caracas.—*P. tripartitum*, Schott. (*Arum tripartitum*, Jacq.) 4. Caracas.—*P. crassinervium*, Lindl. B. Reg. 23, t. 1918; B. M. 64, t. 3621. 4. S. America?—*Dieffenbachia Seguinum*, Schott. (*Arum Seguinum*, L.; B. M. 52, t. 2606.) 4. W. Indies.—*Aglaonema integrifolium*, Schott. (*Arum integrifolium*, Lk.) 4. Moluccas.—*Homalomena occultum*, Schott. (*Calla occulta*, Lour.) 4. Cochin China.—*Monstera cannaefolia*, Schott. (*Pothos cannaefolius*, Curt.; B. M. 17, t. 603.) 4. Tropical America.—*M. lingulata*, Schott. (*Arum lingulatum*, L.) 4. Jamaica.—*M. Dracontium*, Schott. (*Calla Dracontium*, Meyer.) 4. W. Indies.—*Anthurium macrophyllum*, Schott. (*Pothos macrophyllus*, Swz.; B. M. 55, t. 2801.) 4. W. Indies.—*A. crassinervium*, Schott. (*Pothos crassinervius*, Jacq.; B. M. 57, t. 2987.) 4. S. America.—*A. microphyllum*, Schott. (*Pothos microphyllus*, Hook.; B. M. 56, t. 2953.) 4. Brazil.—*A. coriaceum*,

Schott. (*Pothos coriaceus*, Grah.; Hook. exot. fl. t. 110.) 2. Brazil.—*A. Harrisii*, Schott. (*Pothos Harrisii*, Grah.; Hook. exot. fl. t. 111.) 2. Brazil.—*A. gracile*, Lindl.; B. Reg. 19, t. 1635, (*Pothos gracilis*, Rudge, not Roxb.) 2. Guiana.—*A. pentaphyllum*, Schott. (*Pothos pentaphyllum*, Willd.; B. M. 34, t. 1375.) 2. S. America.—*Spathophyllum lanceifolium*, Schott. (*Dracontium lanceifolium*, Jacq.) 2. Caracas.—*Symplocarpus foetidus*, Nutt.; B. M. 60, t. 3224. (*Pothos foetidus*, Ait.; B. M. 22, t. 836.) 2. N. America.—*Acorus terrestris*, Rumph. 5, t. 72, f. 1. 2. Moluccas. Cochin China.—*Ariopsis peltata*, Nimmo. 2. Bombay.

ORDER CCLII.—LEMNACEÆ, Schleiden.

Comp. gen. and sp. in Mag. Nat. Hist. vol. 6, p. 259.

Endl. gen. pl. 1, p. 232.

THE DUCK-WEED TRIBE.

Minute floating plants, 5 inhabiting Europe, America, and Van Dieman's Land, and 5 discovered in India, viz.:—

LEMNA, L. (*Spreng. syst.* 2, p. 28, No. 125;—*R. Br. pr.* 1, p. 345;—*Endl. gen. pl.* 1, p. 232.) *Duck-weed*.

1. *orbiculata*, Roxb. (*fl. ind.* 3, p. 565.) © Bengal. (Calcutta, Serampore,) &c. Fl. lateral, with a spathe, minute, R. and C. S.
- ? 2. *cruciata*, Roxb. (*v. c. p.* 566.) © Bengal, under the surface of the water in tanks, in most extensive interwoven masses. Has not been found here, and may perhaps belong to the next genus.
3. *obcordata*, Hb. Buch. © Goruckpore.

GRANTIA, Griff. (MSS.* 1838.—*Wolffia*, Horkel. Miscel. ? Schleiden comp. gen. and sp. Lemnaceæ, in Mag. Nat. Hist. vol. 6, p. 259. ?) Named by Mr. W. Griffith, in honour of J. W. Grant, Esq., of the Bengal Civil Service, one of the best microscopical observers of the present day.

1. *microscopica*, Griff. MSS. © Calcutta. Serampore. Fl. most minute, terminal, naked, R. and C. S.
- ? 2. *globosa*, Griff. MSS. (*Lemna globosa*, *Roxb. fl. ind.* 3, p. 565;—*J. Grah. Cat. B. pl.* p. 252.) © Bengal. Serampore. Bombay. Fl. R. and C. S.

* *Flos monandrus, terminalis. Spatha nulla. Anthera unilocularis. Planta minima, claviformis inter Phanerogameas simplicissima. (Griffith.)*

ORDER CCLIII.—TYPHACEÆ, DC. Lindl. Nat. Syst. p. 365;
Endl. gen. pl. 1, p. 241.

Marsh or ditch plants, generally inhabiting Europe and N. America. Of the genus *Sparganium*, one species is found in New Holland, another in India, and a third in Cashmere. The other genus *Typha*, contains 6 species, of which three are found in Europe and N. America, one of these also in Van Dieman's Land and India; two in the W. Indies and S. America; and one in India.

TYPHA, Tournet. (*Spreng. syst.* 3, p. 764, No. 3154;—*R. Br. pr. p.* 338;—*Endl. o. c.*) Cat's Tail.

1. *angustifolia*, L. (*Spreng. o. c. p.* 890;—*E. B.* 21, t. 1456;—*Roxb. fl. ind.* 3, p. 567;—*R. Br. l. c.*—*T. minor*, *Curt. fl. lond. t.* 169, not Sm.) राम होग्ला *Ram-hogla*. ५. Peninsula of India. Bengal, (Serampore.) N. India. Fl. R. S. Leaves used for making mats.
2. *elephantina*, Roxb. (*fl. ind.* 3, p. 566;—*J. Grah. Cat. B. pl. p.* 227.) होग्ला *Hogla*. Elephant Grass. ५. Margins of tanks and beds of rivers throughout India. Fl. R. and C. S. Elephants are fond of this grass. (*Roxb.*) It is of great importance for binding the soil on the banks of the Indus with its long tortuous roots, of which great care is taken, when the culms are cut down to make matting of. They are also tied in bundles, and used as buoys to swim with, like *sedges* (*Sparganium ramosum*, Swz.) in England. (*J. Grah. l. c.*) The pollen of the flowers is abundant in this as well as in the other species, and if a light is applied to it, a flash of fire is produced.

* *Typha minor*, Sm., (*E. B.* 21, t. 1457.) ५. England. France. Germany. —*T. latifolia*, L.; *E. B.* 21, t. 1455. ५. Europe.—*T. truxillensis*, Kth. ५. Peru.—*T. domingensis*, Pers. ५. St. Domingo.—*Sparganium ramosum*, Swz.; *E. B.* 11, t. 744. ५. Europe.—*S. natans*, L.; *E. B.* 4, t. 273. ५. Europe.—*S. simplex*, Swz.) *E. B.* 11, t. 745. ५. Europe.—*S. stoloniferum*, Hb. Buch. ५. Magahur.—*S. carinatum*, Falconer. ५. Cashmere.

ORDER CCLIV.—NAJACEÆ, (NAJADACEÆ, Lindl. Nat.
Syst. p. 366;—Endl. gen. pl. 1, p. 229.)

Water plants, by Lindl. (including *Aponogeton* ? and *Spathium*) referred to 16 genera. Of these, *Spreng. syst.* enumerates 26 species for Europe, of which several are also natives of America, Africa and Asia; 6 for S. America, Mexico and the W. Indies; 6 for N. America; 8 for N. Holland and the South Sea Islands (4 also natives of Europe); 5 of S. Africa; 2 of Arabia; and 1 of Egypt. In the E. Indies have been found 1 species of *Caulinia* ?

4 of *Najas*; 1 of *Ruppia* (Soonderbuns, Griffith.); 1 of *Zannichellia*; 13 of *Potamogeton*; 4 of *Spathium*; and — of *Epigynanthus*. Royle mentions, that Röttl. herb. contains numerous specimens of *Ruppia*, under the name of *Zannichellia indica*. Perhaps this species may be the same with that of the Soonderbuns. With the Cape species of *Aponogeton* we are not acquainted. "Properties unimportant. The root of *Potamogeton natans* is said to be eaten in Siberia. *Zostera*, or Sea-wrack, is a common material for packing, or for stuffing cottager's cushions." (Lindl.)

NAJAS, L. (*R. Br. pr. p.* 345.)

1. *dichotoma*, Roxb. (*fl. ind.* 3, p. 749.) © Bengal. Has been introduced into H. C. G.

? 2. *indica*, Griff. MSS. (*Caulinia indica*, Willd.? *Spreng. syst.* 1, p. 20.—*Fluvialis indica*, Pers. syn. 2, p. 530.) © Tranquebar. Serampore. Fl. R. S.

3. *seminuda*, Griff. MSS. © Serampore. Fl. R. S.

4. *heteromorpha*, Griff. MSS. © Serampore. Fl. R. S.

POTAMOGETON, L. (*Spreng. syst.* 1, p. 375, No. 556;—*R. Br. pr. p.* 343; *Endl. gen. et ph.* 1, p. 231.) Pond-weed.

1. *indicus*, Roxb. (*fl. ind.* 1, p. 452; *ed. Carey*, 1, p. 471;—*Spreng. syst. c. p.* p. 48;—*J. Grah. Cat. B. pl.* p. 200.) © Both Peninsulas of India. Bengal, (Calcutta, Serampore.) Oude, &c. Fl. small, green, Feb. and March; fr. April and May.

2. *tuberosus*, Roxb. (*fl. ind.* 1, p. 452; *ed. Carey*, 1, p. 472;—*Spreng. syst.* 1, p. 499, excl. Roth.;—*J. Grah. Cat. B. pl.* p. 200.) © Peninsula of India. Bengal. (Calcutta, Serampore.) Oude. Nepal. Fl. small, green, Feb. and March; fr. April and May. Much employed in the N. W. Provinces of India in the process of purifying sugar. (Royle.)

SPATHIUM, Lour. (*Endl. gen. pl.* 1, p. 267.—*Aponogeton*, L. partly. Erroneously referred to *Saururaceæ*.)

1. *chinense*, Lour. (*Aponogeton monostachys*, L. fil.;—*Spreng. syst.* 2, p. 465;—*Schult. syst.* 8, p. 1591;—*Lam. ill. t.* 276, f. 1;—*B. Repos. t.* 406;—*Roxb. Corom.* 1, t. 81; *fl. ind.* 2, p. 210;—*J. Grah. Cat. B. pl.* 200.—*Saururus nutans*, L. mant.—*Rheed.* 11, t. 15.)

वेष्ट Ghechoo. 2. S. China. Banks of the Irawaddi. Ceylon. Coromandel. Salsette. Concans. Bengal, (Serampore.) Silhet. Monghir. Fl. small, purplish-white, with blue anthers), R. S.; fr. C. S. The natives are fond of the roots, which are nearly as good as potatoes. (Roxb.)

2. *undulatum*, (*Aponogeton undulatus*, Roxb. *fl. ind.* 2, p. 211.) 2. Bengal. In H. C. G. fl. R. S.; fr. C. S. (Roxb.)

3. *microphyllum*, (*Aponogeton microphyllum*, Roxb. *fl. ind.* 2, p. 211.) 2. Bhootan Mountains. fl. R. S.; fr. C. S. (Roxb.)

* *Spathium*? *crispum* (*Aponogeton crispus*, Hb. Buch.; Thunb.?) Muhuyadahad. Patangunj.—S.? *echinatum*. (*Aponogeton echinatus*, Roxb.) Shallow fresh water all over the Circars.

ORDER CCLV.—TRIGLOCHINACEÆ (JUNCAGINACEÆ, Lindl.
Nat. Syst. p. 367.)

Marshy plants, by Lindl. referred to 4 genera. Of these Spreng. syst. enumerates 5 species for New Holland and Van Diemen's Land; 5 for S. America; 4 for Europe; 3 for N. America; and 1 for the Straits of Magellan. In S. Africa have been discovered 3 species of *Triglochin*, 2 of which are common to Europe, and in the Himalayas, *Triglochin himalense*, which, according to Royle, is scarcely to be distinguished from *T. palustre* of Europe. "Properties unknown." (Lindl.)

* *Triglochin palustre*, L.; E. B. 6, t. 366. ♂. Europe.—*T. Barrelieri*, Loisel. ♀. S. Europe. N. Africa.—*T. striatum*, Ruiz. and Pav. ♀. Inundated places of Peru.—*T. procerum*, R. Br. Tropical N. Holland.—*T. dubium*, R. Br. Tropical N. Holland.—*Scheuchzeria palustris*, L.; E. B. 26, t. 1801. ♀. Swamps of England, &c.—*Lilæa subulata*, Humb. Sides of lakes in New Granada.

ORDER CCLVI.—PANICACEÆ, (GRAMINACEÆ, Lindl. Nat.
Syst. p. 369.)

THE GRASS TRIBE.

This order is exceedingly numerous, and likely to increase in a larger ratio than the other phænogamous plants, so that the future proportion of grasses to the rest of Endogens will perhaps be as 1 to 20, or even perhaps as 1 to 16. Among the grasses there are both land and water-plants, but no marine ones. They occur in every soil, in society with others or alone, the latter in such abundance as entirely to occupy considerable districts. Sand appears to be less favourable to them, but even this has species nearly peculiar to itself. The diffusion of the order has almost no other limits than those of the whole vegetable kingdom. Species of it have been discovered on Spitzbergen, on the mountains of S. Europe, nearly to the snow-line, and on the Andes. The tropical grasses differ from the extra-tropical ones, by their greater size, some (f. ex. the bamboos) being 50-60 feet high; by their larger leaves; by their frequently separate sexes, and lastly by their softer, more downy and elegant flowers. The extra-tropical grasses on the contrary, far surpass the tropical ones in the number of individuals. That compact grassy turf, which, especially in the wilder parts of the temperate zones, in spring and summer composes the green meadows and pastures, is almost entirely wanting in the torrid zone. The grasses here do not grow crowded together, but, like other plants, more dispersed. Even

in the southern parts of Europe, the assimilation to the warmer regions, in this respect, is by no means inconsiderable. *Donax arundinaceus*, by its height, reminds us of the bamboo; while *Saccharum Ravennæ*, *S. Teneriffæ*, *Imperata arundinacea*, *Lagurus ovata*, *Lygeum Spartum*, and the species of *Andropogon*, *Ægilops*, &c., by their separate sexes exhibit tropical characters. The grasses are also less gregarious, and meadows occur seldom in the south than in the north of Europe. (*Extr. from Schouw, in Jameson's philos. journ. April 1825, copied by Lindl.*)

What may be the amount of Indian species of grasses, hitherto discovered, it is impossible for us to state, Nees von Esenbeck's synopsis of Wight's and Royle's grasses not being procurable, and those enumerated in Wall. Cat. still remaining in the hands of R. Brown. Supposing, however, the aggregate of the former to be 200, and the latter, after abstracting common forms, to amount to 100, the sum total of discovered Indian grasses will, on reducing Griffith's gramineous collections, probably be about 1300. The collections stand thus :—

Griffith, 270 from Affganisthan; 150 from the Peninsula of India; 128 from the Khassya Mountains; 100 from Assam; 100 from Serampore; 93 from Mergui; 73 from the Mishmee Hills; and 51 from Bhootan. In all 965, but after abstracting common forms perhaps 800.

Roxb.—217.—*Royle and Wight*.—200?—*Wall. Cat.* 131, reducible perhaps to 100.

As the Indian tropical grasses are abundant, and large in foliage, so do the species which extend along the foot of the Himalayas form a grass jungle sufficiently high to conceal the elephant and rhinoceros, while in ascending, we find many of the same genera and species which are met with in proceeding from the equator to the poles. The grasses found in the plains of India, some of which are confined to the Peninsula, but many of which are as common in the northern as in the southern plains, belong to genera, of some of which a few species ascend the mountains, and are found there at considerable elevations in the rainy season of the year. The majority of these genera are Asiatic, and the greater number of their species are contained in, and some of them confined to India; but some of the genera are as characteristic of the floras of America, New Holland and Africa. In the plains of N. India there are a few species likewise found in European countries, or which belong to genera more like European than Indian forms, f. ex. the common Doob grass, (*Cynodon Dactylon*.) Among the cold weather cultivation of wheat and barley, two European species are very commonly found, viz. *Lolium temulentum*, L. (the only grass, in its normal state of a deleterious nature,) and *Avena fatua*, L. Though many of the Gramineæ found in the Himalayas belong to genera of which the greater number of species inhabit tropical situations, yet it is only in the rainy season that these occur, and the mass of the grasses, like that of the vegetation in general of these mountains, will be found to be analogous to that of European countries; and many of those very species which are most



valued as pasture grasses in England, are found forming the grassy sward of the Himalayas. The plains of India being subject to great heat, with draught at one season and heavy rains at another, cannot be expected to present any pasture grounds resembling those of the best parts of Europe; but the temperature of the cold weather months, especially in the northern provinces, being such as to be most favourable for the cultivation of the same cereal grasses as in Europe, it is not surprising that good grass is produced there, and that many Europeans prepare very excellent hay. Their rapid growth, great height, and subsequent dryness render many of the Indian grasses unfit for pasture, at the end of the year. This the inhabitants of the tracts at the base of the Himalayas, as well as those within these mountains, remedy by yearly burning down the old and dry grass, so as to allow the young blades, which immediately sprout up, to afford fodder for the cattle. But most Europeans in India prefer, or indeed only give their horses, the creeping stems and leaves of the *Dooba grass*, which is by far the most common in every part of India, and moreover flowers through the greater part of the year. In N. India it is a common practice to form lawns and pastures of moderate extent, by planting pieces of the creeping stems of this grass, which yields excellent hay in what is the spring of the year in Europe. It forms indeed three-fourths of the food of the horses and cows in the south of India. (Royle *ill. p.* 415-21.) Cattle are also fed on the grass, whether green or dry, of *Kodu* (*Paspalum scrobiculatum*, L.); *Cheena-ghas* (*Panicum miliaceum*, Willd.); *Jalgantee* (*Panicum Helopus* Trin.); *Kungoo* *Panicum miliare* (*Panicum italicum*, L.); *Burogal-gantee* (*Panicum setigerum*, Retz.); *Chhoto-jalgantee* (*Panicum repens*, Roxb.); *Shama* (*Panicum colonum*, L.); *Damra-shama* (*Panicum frumentaceum*, Roxb.); *Bujura* (*Penicillaria spicata*, Willd.); *Jooar* (*Sorghum vulgare*, Pers.; *Sorghum cernuum*, Willd.; *S. saccharatum*, Pers. Roxb.); *Makurjalee* (*Panicum ciliare*, Retz.); *Kash.* (*Saccharum spontaneum*, L.); *Andropogon Martini*, Roxb.; *Buksa* (*Rottböllia glabra*, Roxb.); *Juwa* (*Hordeum hexastichon*, L.) &c.

The prevalence of particular grains in the zones and continents depends not only on climate, but is determined also by the civilization, industry and traffic of the people, and often by historical events, thus the earth may, according to Schouw, be divided into five grand tracts, distinguished by the prevalence of barley and oats, rye, wheat, maize or rice. The two first extend farthest to the north in Europe, constituting in the northern parts of Norway and Sweden, and in a part of Siberia and Scotland, the principal vegetable nourishment. Rye is the prevailing grain in the South of Norway and Sweden, in part of Siberia, in Denmark, and all the countries bordering on the Baltic. In the latter, another very nutritious grain, *Buck-wheat*, is very frequently cultivated. The rye tract is generally associated with the cultivation of wheat, barley there being chiefly cultivated for the manufacture of beer, and oats for supplying food for horses. The wheat tract comprehends the middle or the south of France,

England, part of Scotland and Germany, Hungary, the Crimea and Caucasus, as also the lands of middle Asia, where agriculture is followed. The next tract, where wheat still abounds, but no longer exclusively furnishes bread, maize and rice becoming frequent, includes Portugal, Spain, part of Mediterranean, France, Italy, Greece, the Canaries, Barbary, Egypt, Nubia, Arabia, Persia and N. India. In China and Japan rice is found to predominate. The cause of this difference between the east and the west of the old continent appears to be in the manners and peculiarities of the people. In N. America, wheat and rye grow as in Europe, but more sparingly. Maize is more reared in the new than in the old continent, and rice predominates in the southern provinces of the United States. In the torrid zone, *Maize* predominates in America, *Rice* in Asia, and both these grains in nearly the same ratio in Africa. The cause of this distribution is, without doubt, historical; for Asia is the native country of rice, and America of maize. In some situations, especially in the neighbourhood of the tropics, wheat is also met with, but always subordinate to maize and rice. In the high lands of S. America, maize grows to the height of 7200 feet above the level of the sea, but only predominates between 3000 and 6000 f. of elevation. Below 3000 it is associated with yams, manihot, batatas and plantains; while, from 6000 to 9260, the European grains abound, wheat in the lower regions, and rye and barley in the higher, along with which *Chenopodium Quino*, *Willd.*, as a nutritious plant must also be mentioned. Potatoes alone are cultivated from 9260 to 12300 feet. In the torrid zone in Africa, plantains, manihot, yams, *Arachis hypogea*, L. and *Sorghum vulgare*, Pers. are added to the maize and rice. To the south of the Capricorn, f. ex. in S. Brazil, Buenos Ayres, Chili, C. G. H., and the temperate zone of New Holland, wheat predominates; barley, however, and rye, make their appearance in the southernmost parts of these countries, and in Van Dieman's Land, and in New Zealand, the European grains are now cultivated with success. In the Islands of the South Sea, grain of every kind disappears, its place being supplied by the Bread-fruit-tree, the Plantain and *Tacca pinatifida*, Forst. Tropical New Holland exhibits no agriculture, the inhabitants living on the produce (Sago) of various palms, and some species of *Arum*. (*Schouw. l. c.*) The Cerealia of India will be mentioned under the several species.

A. PHALARÆE.

(*Phalaridæ*, Nees. ;—*Lindl. Nat. Syst. p. 378.*)

PHALARIS, L. (*Endl. gen. pl. 1, p. 81.*)

1. *aquatica*, Ait. (*Spreng. syst. 1, p. 272.*) ☉ S. Europe. Fl. Feb. and March.
2. *canariensis*, L. (*Spreng. syst. 1, p. 272*;—*E. B. 19, t. 1310.*) Canary-grass. ☉ Canaries. Seeds food for birds.

HOLCUS, L. (*Endl. l. c.*)

1. *mollis*, L. (*Spreng. syst. 1, p. 292*;—*E. B. 17, t. 1170.*) 2f. Meadows of England and S. Europe. Fl. C. S.



2. *lanatus*, L. (*Spreng. l. c.*;—*E. B.* 17, t. 1169;—*fl. Dan.* t. 1181.) ♀.
Meadows of Europe. Fl. C. S.

HIEROCHLOA, Gmel. R. Br. (*Endl. gen. pl.* 1, p. 81.)

1. *borealis*, Röm. and Sch. (*Spreng. syst.* 1, p. 247.—*Holcus odoratus*, L.;—*fl. Dan.* t. 963.) ♀ North and middle Europe. Fl. C. S. An aromatic, sweet-scented grass.

B. PANICER.

Nees.—*Lindl. Nat. Syst.* p. 378.

PASPALUM, L. (*Endl. gen. pl.* 1, p. 82.)

1. *stoloniferum*, Bosc. (*Spreng. syst.* 1, p. 248;—*Roxb. H. B.* p. 7.—*P. racemosum*, Jacq. *ic. rar.* t. 302.—*P. purpureum*, Ruiz. and Pav.—*Milium latifolium*, Cav. *ic.* 3, p. 37, t. 273.) ♀ Peru, where it is cultivated (⊙) because of the excellent fodder it yields. Fl. C. S.

2. *stoloniferum*, L. (*Spreng. syst.* 1, p. 246;—*Roxb. fl. ind.* 1, p. 278; *ed. Carey*, 1, p. 281.) টৈলা Myna. কোদ Kodu. ⊙ Bengal, (Serampore,) &c. Fl. and fr. R. S. Cultivated. The seed is an article of diet with those natives, who inhabit mountains and barren parts of the country. Boiled it is as palatable as rice. (*Roxb.*)

β. *Kora*, Röm. and Sch. (*P. Kora*, Willd. *hort. berol.* t. 74;—*Roxb. fl. ind.* 1, p. 279, excl. syn. Forst.; *ed. Carey*, 1, p. 282.) কোদ Kodu. ⊙ Bengal, (Serampore,) &c. Fl. and fr. R. S. Cattle are very fond of both varieties, whether green or dry.

HELOPUS, Trin. (*Eriochloa*, Kth.;—*Endl. gen. pl.* 1, p. 83.)

1. *annulatus*, Nees. (*Spreng. syst.* 1, p. 246.—*Milium ramosum*, Retz.—*Roxb. fl. ind.* 1, p. 315; *ed. Carey*, 1, p. 317.) চিড়িয়া ঘাস Chiriya-ghas. ♀ Bengal, (Serampore.) Fl. and fr. R. S.

2. *longistylus*, Retz. (*Spreng. syst.* p. 245;—*Roxb. fl. ind.* 1, p. 279; *ed. Carey*, 1, p. 283;—*Rheed.* 12, t. 44.) ♀ Bengal, (Serampore.) Peninsula of India, &c. Fl. and fr.; R. S.

3. *virgatus*, L. (*Spreng. syst.* 1, p. 248;—*Gürt. fr.* 2, p. 1, t. 80, f. 1.—*Sloane.* t. 69, f. 2.) ♀ Jamaica. Fl. and fr. H. S.

4. *longifolius*, Roxb. (*fl. ind.* 1, p. 280; *ed. Carey*, 1, p. 283.) ⊙ Sumatra? In H. C. G. fl. and fr. R. S. (*Roxb.*)

5. *filiculmis*, Nees. (*Milium filiforme*, *Roxb. fl. ind.* 1, p. 314; *ed. Carey*, 1, p. 316; not Lag.) কুঙ্গু জুড়িয়া Kungoo-jooriya. ♀ Bengal, (Serampore.) Fl. and fr. R. S.

6. *paradoxus*, Nees. (*Piptatherum paradoxum*, Beauv.;—Röm. and Sch. 2, p. 328.—*Milium paradoxum*, Schrad.;—*Scop. carn.* No. 83, t. 1;—*Schreb. gram.* 1, p. 50, t. 28, f. 2;—*Host. gram.* 3, p. 16, t. 23.—*Agrostis paradoxa*, L.) ♀ Austria. France. Caucasus. Fl. C. S.

CORIDORHLOA, Nees. (*Edinb. phil. journ.* 1832, July.)

1. *cimicina*, Nees. (*Urochloa cimicina*, Kth.;—*Axonopus cimicinus*, Beauv.; Röm. and Sch. 2, p. 317.—*Panicum cimicinum*, Retz.;—*Roxb. fl. ind.* 1, p. 291; *ed. Carey*, 1, p. 295.—*Milium cimicinum*, L.—*Agrostis cimicina*, Poir.) ⊙ Peninsula of India. Fl. and fr. R. S.

UROCHLOA, Beauv. (*Endl. gen. pl.* 1, p. 83.)

1. *panicoides*, Beauv. (*Milium sanguinale*, Roxb. *fl. ind.* 1, p. 315; *ed. Carey*, 1, p. 296.—*Panicum sanguinale*, *Burm. ind.* t. 10, f. 1.) চিত্রিচিড়িয়া Chitrichirya. © Bengal, (Serampore,) &c. Fl. and fr. R. S.

PANICUM, L. (*Endl. gen. pl.* 1, p. 83.)

1. *fluidans*, Retz. (*Röm. and Sch.* 2, p. 425;—*Roxb. fl. ind.* 1, p. 293; *ed. Carey*, 1, p. 296;—*J. Grah. Cat. B. pl.* p. 237.) পটিনড় Petinur. © Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
2. *flavidum*, Retz. (*Röm. and Sch.* 2, p. 426;—*Spreng. syst.* 1, p. 308.—*P. brizoides*, *Roxb. fl. ind.* 1, p. 292; *ed. Carey*, 1, p. 296; not Retz.) © Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
3. *repens*, Roxb. (*fl. ind.* 1, p. 299; *ed. Carey*, 1, p. 302, scarcely L?) ছোটো জামগাঁঠি Chhoto-jalgantee. © Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
4. *miliaceum*, Willd. (*Röm. and Sch.* 2, p. 434;—*Roxb. fl. ind.* 1, p. 310; *ed. Carey*, 1, p. 312;—*J. Grah. Cat. B. pl.* p. 237.) চীন ঘাস Cheeno-ghas. © Cultivated in India. Fl. R. S.; fr. C. S.
5. *miliare*, Lam. (*Röm. and Sch.* 2, p. 435;—*Roxb. fl. ind.* 1, p. 309; *ed. Carey*, 1, p. 311;—*J. Grah. Cat. B. pl.* p. 237.) © Cultivated in India. Fl. R. S.; fr. C. S.
6. *miliaceoides*, Roxb. (*H. B. p.* 8.) In H. C. G. Fl. R. S.; fr. C. S. (*Roxb.*)
7. *jumentosum*, Pers. (*syn.* 1, p. 83.) ৭. Guinea. Cultivated in Tropical America and India, under the name of Guinea-grass. Fl. and fr. R. and C. S.
8. *acariferum*, Trin. (*Melica latifolia*, *Roxb. fl. ind.* 1, p. 328; *ed. Carey*, 1, p. 330.) ৮. Garrow Hills. Khassya Mountains. Fl. March.
9. *curvatum*, L. (*Röm. and Sch.* 2, p. 442;—*Roxb. fl. ind.* 1, p. 288; *ed. Carey*, 1, p. 289.) © Peninsula of India. Fl. R. S.; fr. C. S. (*Roxb.*)
10. *uliginosum*, Roxb. (*H. B. p.* 8; *fl. ind.* 1, p. 308; *ed. Carey*, 1, p. 310;—*Röm. and Sch.* 2, p. 442.) বড়দল Burundo. © Bengal, (Serampore.) Fl. R. S.; fr. C. S.
11. *paludosum*, Roxb. (*fl. ind.* 1, p. 307; *ed. Carey*, 1, p. 310;—*Schult. Mant.*) বড়খী Burethee. কলসনড় Kulसनur. © Circars. Bengal, (Serampore.) Fl. R. S.; fr. C. S.
12. *trigonum*, Retz. (*Röm. and Sch.* 2, p. 443;—*Roxb. fl. ind.* 1, p. 305; *ed. Carey*, 1, p. 307.) ৮. Bengal, (Serampore.) Fl. R. S.; fr. C. S.
13. *interruptum*, Willd. (*Röm. and Sch.* 2, p. 462;—*Roxb. fl. ind.* 1, p. 286; *ed. Carey*, 1, p. 289.) নড়দল Nurdul. © Bengal, (Serampore.) Fl. R. S.; fr. C. S.
14. *patens*, L. (*Röm. and Sch.* 2, p. 454;—*Roxb. fl. ind.* 1, p. 305; *ed. Carey*, 1, p. 308.) © Bengal, (Serampore.) Fl. R. S.; fr. C. S.



15. *Roxburghii*, Spreng. (*syst.* 1, p. 320.—*P. tenellum*, *Roxb. fl. ind.* 1, p. 306; *ed. Carey*, 1, p. 309;—*J. Grah. Cat. B. pl.* p. 237; not Lam.) জুপি কুন্কা *Joopi-kunka*. © Bengal, (Serampore.) *Fl. R. S.*; fr. C. S.
16. *corymbosum*, Roxb. (*fl. ind.* 1, p. 292; *ed. Carey*, 1, p. 295;—*Spreng. syst.* 1, p. 311.) © Coromandel. In *H. C. G. fl. R. S. (Roxb.)*
17. *serrulatum*, Roxb. (*fl. ind.* 1, p. 307; *ed. Carey*, 1, p. 309;—*Spreng. syst.* 1, p. 311.) © Moist vallies of India. In *H. C. G. fl. R. S. (Roxb.)*
18. *sarmentosum*, Roxb. (*fl. ind.* 1, p. 308; *ed. Carey*, 1, p. 311;—*Spreng. syst.* 1, p. 321.) ৩. Sumatra. In *H. C. G. fl. R. S. (Roxb.)*
19. *asperatum*, Kth. (*P. plicatum*, *Roxb. fl. ind.* 1, p. 311; *ed. Carey*, 1, p. 313; not Lam.) © Sumatra. In *H. C. G. fl. R. S.*; fr. C. S. (*Roxb.*)
20. *nepalense*, Spreng. (*syst.* 1, p. 321.—*P. nervosum*, *Roxb. fl. ind.* 1, p. 311; *ed. Carey*, 1, p. 314; not Lam.) ৩. Nepal. In *H. C. G. fl. R. S.*; fr. C. S. (*Roxb.*)
21. *costatum*, Roxb. (*fl. ind.* 1, p. 312; *ed. Carey*, 1, p. 314;—*Spreng. syst.* 1, p. 311.) © Mauritius. In *H. C. G. fl. R. S.*; fr. C. S. (*Roxb.*)
- (*Digitaria*, Scop.;—*Spreng. syst.* 1, p. 133, No. 283.)
22. *sanguinale*, L. (*E. B.* 12, t. 849.—*Digitaria sanguinalis*, Scop.—*Röm. and Sch.* 2, p. 469.) Polish Millet. © Cultivated in Europe, Asia, and America. *Fl. C. S.*; fr. Feb. Seeds boiled like rice with milk are highly esteemed in Poland and Lithuania.
23. *egyptiacum*, Retz. (*Roxb. fl. ind.* 1, p. 289; *ed. Carey*, 1, p. 293;—*J. Grah. Cat. B. pl.* p. 237.—*P. filiforme*, Jacq. *obs.* 3, p. 8, t. 30.—*Digitaria ægyptiaca*, Willd.;—*Röm. and Sch.* 2, p. 471.) © America, Levant, Egypt, Bengal, (Serampore.) &c. *Fl. R. S.*; fr. C. S.
24. *filiforme*, Roxb. (*fl. ind.* 1, p. 290; *ed. Carey*, 1, p. 203; not L.? © China. *Fl.* throughout the year, but chiefly during R. S. (*Roxb.*)
25. *commutatum*, Nees. (*P. ciliare*, *Roxb. fl. ind.* 1, p. 290; *ed. Carey*, 1, p. 293;—*J. Grah. Cat. B. pl.* p. 237, not Willd.?) মাকুর জালী *Makur-jalee*. © Bengal, (Serampore.) &c. *Fl. R. S.*; fr. C. S. Cattle are very fond of this grass.
26. *lineare*, L. (*Roxb. fl. ind.* 1, p. 291; *ed. Carey*, 1, p. 294; excl. syn. Burm.—*Digitaria linearis*, Pers.;—*Schult.*) © China. *Fl.* throughout the year, but especially during the R. S. (*Roxb.*)
27. *orthum*, (*Digitaria stricta*, Roth.; *Röm. and Sch.* 2, p. 474.) © Bengal, (Serampore.) *Fl.* and fr. R. S.
28. *Helopus*, Trin. (*P. hirsutum*, Kōn.;—*Roxb. fl. ind.* 1, p. 300; *ed. Carey*, 1, p. 303; not Swz.—*P. Königii*, *Spreng. syst.* 1, p. 311.—*Oplismenus* ? *hirsutus*, *Schult.*—*Setaria* ? *hirsuta*, Kth.) জালগাঁজী *Jalgantee*. © Bengal, (Serampore.) &c. *Fl. R. S.*; fr. C. S. Cattle very fond of this grass.

(*Setaria*, Beauv.—*Endl. gen. pl.* 1, p. 85, under *Pennisetum*.)

29. *verticillatum*, L. (*E. B.* 13, t. 874;—*Roxb. fl. ind.* 1, p. 301; *ed. Carey*, 1, p. 304;—*J. Grah. Cat. B. pl.* p. 237.—*Setaria verticillata*, Beauv.;—*Röm. and Sch.* 2, p. 488.) ♀ Europe, Caucasus. N. America. Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
30. *helvolum*, L. (*P. glaucum*, *Roxb. fl. ind.* 1, p. 284; *ed. Carey*, 1, p. 287;—*J. Grah. Cat. B. pl.* p. 237; not L.—*Setaria helvola*, *Röm. and Sch.*—*Pennisetum helvolum*, *R. Br. pr.* 1, p. 195.) পিঙ্গি নাড়ি *Pinginachhi*. ♂ Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
31. *geniculatum*, Horn. (*Setaria geniculata*, *Röm. and Sch.* 2, p. 491.—*Pennisetum geniculatum*, *Jacq.*) ♀ W. Indies. Fl. C. S.
32. *italicum*, L. (*Roxb. fl. ind.* 1, p. 302; *ed. Carey*, 1, p. 305;—*J. Grah. Cat. B. pl.* p. 237.—*Setaria italica*, Beauv.—*Pennisetum italicum*, *R. Br. pr.* 1, p. 195;—*Rumph.* 5, t. 75, f. 2.) কুঙ্গু *Kungoo*. ♂ Cultivated. Fl. R. S.; fr. C. S. Seed an article of diet among the natives.
33. *macrochaetum*, (*Setaria macrochata*, *Spreng. syst.* 1, p. 305.—*Pennisetum macrochaetum*, *Jacq.*) ♂ Bengal, &c. Fl. and fr. C. S.
34. *tomentosum*, *Roxb.* (*fl. ind.* 1, p. 301; *ed. Carey*, 1, p. 303.—*Setaria ? tomentosa*, *Kth.*) ♂ Peninsula of India. In H. C. G. fl. R. S. (*Roxb.*)

(*Echinochloa*, Beauv.)

35. *stagninum*, Retz. (*Roxb. fl. ind.* 1, p. 295; *ed. Carey*, 1, p. 298.—*J. Grah. Cat. B. pl.* p. 237.—*Echinochloa stagnina*, *Röm. and Schult.* 2, p. 477.) দল *Dul*. ♂ Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
36. *Crus corvi*, L. (*Roxb. fl. ind.* 1, p. 296; *ed. Carey*, 1, p. 299;—*J. Grah. Cat. B. pl.* p. 237;—*P. Crus galli*, L.;—*E. B.* 13, t. 876.—*Echinochloa Crus corvi* and *Crus galli*, *Röm. and Sch.* 2, p. 477-78.) ♂ Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
37. *setigerum*, Retz. ? (*Roxb. fl. ind.* 1, p. 299; *ed. Carey*, 1, p. 302.—*Echinochloa setigera*, *Röm. and Sch.* 2, p. 480.) বড় ভোঁতাগাটী *Buro-jalgantee*. ♀ Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S. Cattle are fond of it.
38. *hispidulum*, Retz. (*Röm. and Sch.* 2, p. 430;—*Roxb. fl. ind.* 1, p. 303; *ed. Carey*, 1, p. 306.) বড় শাফা *Buro-shama*. ♂ Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.

OPLISMENUS, Kth. (*Endl. gen. pl.* 1, p. 84.)

1. *lanceolatus*, Kth.—(*Panicum lanceolatum*, Retz.—*Roxb. fl. ind.* 1, p. 294; *ed. Carey*, 1, p. 297.—*Echinochloa lanceolata*, *Röm. and Sch.* 2, p. 476.) ♂ Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
2. *Burmanni*, *Röm. and Sch. (syst.* 2, p. 482.—*Orthopogon Burmanni*, *R. Br. pr.* p. 194, annot.—*Panicum Burmanni*, Retz.;—*Roxb. fl. ind.* 1, p. 295; *ed. Carey*, 1, p. 298;—*J. Grah. Cat. B. pl.* p. 237.—*Panicum hirtellum*, *Burm. ind. t.* 12, f. 1.—*Oplismenus Burmanni*, *Röm. and Sch.* 2, p. 482;—*Rumph.* 6, t. 5, f. 3?) ♂ Bengal, (Serampore,) &c. Fl. and fr. R. S.



3. *colonus*, Kth. (*Panicum colonum*, *L.*; *Röm. and Schult.* 2, p. 424;—*Roxb. fl. ind.* 1, p. 296; *ed. Carey*, 1, p. 299;—*J. Grah. Cat. B. pl.* p. 237.) শামা *Shama*. ⊙ Bengal, (Serampore,) &c. *Fl. R. S.*; fr. *C. S.* Cattle are very fond of it.
4. *frumentaceus*, *Roxb.* (*Panicum frumentaceum*, *Roxb. fl. ind.* 1, p. 304; *ed. Carey*, 1, p. 307;—*J. Grah. Cat. B. pl.* p. 137.) দামড়া শামা *Damra-shama*. ⊙ Bengal, (Serampore,) *Fl. R. S.*; fr. *C. S.* Several varieties of this grass are known to the Hindoo farmers. The seed is wholesome and nourishing, and constitutes an article of diet, particularly among the lower classes of the natives. It yields about fifty-fold in a good soil. Cattle are fond of it. (*Roxb.*)
- ? 5. *strictus*, *Schult.* (*Panicum strictum*, *Roxb. fl. ind.* 1, p. 303; *ed. Carey*, 1, p. 1, p. 306; not *R. Br.* nor of others.—*P. bengalense*, *Spreng. syst.* 1, p. 311.) গাং বেণা *Gang-bena*. ⊙ Bengal. *Fl. R. S.* (*Roxb.*)
- STENOTAPHRUM**, *Trin.* (*Endl. gen. pl.* 1, p. 84.)
1. *dimidiatum*, *W. and A. Schrank.* (*Panicum dimidiatum*, *Retz.*—*Röm. and Sch.* 2, p. 426;—*Roxb. fl. ind.* 1, p. 287; *ed. Carey*, 1, p. 290;—*Burm. ind.* t. 8, f. 3.—*Rothböllia complanata*, *Swz.*) ⊙ Peninsula of India. Mascarenhas Islands. Has been introduced into *H. C. G.*?
- TRACHYS**, *Pers.* (*syn.* 1, p. 85.—*Trachyozus*, *Reichb.*—*Endl. gen. pl.* 1, p. 85.)
1. *muricata*, *Pers.* (*l. c.*; where it is erroneously written “*mucronata*,”—*Cenchrus muricatus*, *L.*—*Schreb. gram.* 2, p. 69, t. 34.—*Panicum squarrosum*, *Retz.*;—*Roxb. Corom.* 3, t. 206; *fl. ind.* 1, p. 288; *ed. Carey*, 1, p. 291. excl. *syn.* *Burm.*;—*J. Grah. Cat. B. pl.* p. 237, excl. *syn.* *P. conjugatum*, *Roxb.*—*Trachystachys muricata*, *Dietr.*) ⊙ Coromandel. Has been introduced into *H. C. G.*?
- PENICILLARIA**, *Swz.* (*Endl. gen. pl.* 1, p. 85.)
1. *spicata*, *Willd.* (*Röm. and Sch.* 2, p. 498.—*Holcus spicatus*, *L.*;—*J. Grah. Cat. B. pl.* p. 238.—*Alopecurus typhoides*, *Gmel.*—*Penisetum typhoideum*, *Pers.*—*Panicum spicatum*, *Delile*;—*Roxb. fl. ind.* 1, p. 283; *ed. Carey*, 1, p. 286.) বজুরা *Bujura*. ⊙ Cultivated in India, especially over the higher lands on the Coast of Coromandel. *Fl. R. S.*; fr. *C. S.* Cattle are fond of the straw, and the grain is a very essential article of food amongst the natives. (*Roxb.*)
- ? 2. *involutrata*, *Schultes.* (*Panicum involutratum*, *Roxb. fl. ind.* 1, p. 284; *ed. Carey*, 1, p. 287.) ⊙ Mountains of Coromandel. In *H. C. G. fl. R. S.*; fr. *C. S.* (*Roxb.*)
- PENNISETUM**, *Rich.* (*Endl. gen. pl.* p. 85.)
1. *barbatum*, *Schult.* (*Panicum barbatura*, *Roxb. fl. ind.* 1, p. 282; *ed. Carey*, 1, p. 285;—*Rumph.* 6, t. 7, f. 2, B.) ⊙ Moluccas. In *H. C. G. fl. R. S.*; fr. *C. S.* (*Roxb.*)
2. *holcoides*, *Schult.* (*Panicum holcoïdes*, *Roxb. fl. ind.* 1, p. 285; *ed. Carey*, 1, p. 288.) শুন্টী ঘাস *Shoanti-ghas*. ⊙ Mountains of India. In *H. C. G. fl. R. S.*; fr. *C. S.*



CENCHRUS, L. (*Endl. gen. pl.* 1, p. 85.)

1. *tribuloides*, Vahl. (*Röm. and Sch.* 2, p. 253.) ⊙ Virginia. Carolina. Fl. R. S.; fr. C. S.

2. *echinatus*, Vahl. (*Röm. and Sch. l. c.*—*Schreb. gram.* p. 9, t. 23, f. 1.—*Gärtn. fr.* 2, t. 8, f. 3.) ⊙ W. Indies. Cumana. Fl. R. S.; fr. C. S.

C. SACCHARÆ, Nees.

Lindl. Nat. Syst. p. 378.

SORGHUM, Pers. (*syn.* 1, p. 101.—*Trachypogon*, Nees.;—*Endl. gen. pl.* 1, p. 108.)

1. *vulgare*, Pers. (*Röm. and Sch.* 2, p. 836.—*S. commune*, Beauv.—*Holcus Sorghum*, L.—*J. Grah. Cat. B. pl.* p. 238, excl. *syn.* Rumph.—*H. Durra*, Forst.—*Andropogon Sorghum*, Brot.—*Roxb. fl. ind.* 1, p. 269; *ed. Carey*, 1, p. 273.) *জৱার Jowar*. ⊙ Arabia. Cultivated in India. Fl. C. S.; fr. H. S. Grain much used for food. The straw is reckoned very nourishing for cattle, and is a substitute for forage for horses, when grass is not obtainable. (*J. Grah.*)

2. *bicolor*, Willd. (*Röm. and Sch.* 2, p. 837.—*Holcus bicolor*, L.—*Andropogon bicolor*, *Roxb. fl. ind.* 1, p. 268; *ed. Carey*, 1, p. 272.) *কাল দেবধান Kalo-debhan*. ⊙ Cultivated in India. Fl. C. S.; fr. H. S. Grain much used for food.

3. *cernuum*, Willd. en. (*Röm. and Sch. l. c.*—*Holcus cernuus*, *Willd. sp.*—*Andropogon cernuus*, *Roxb. fl. ind.* 1, p. 270; *ed. Carey*, 1, p. 273.—*S. halepense*, Pers.—*Andropogon laxus*, *Roxb.*) ♂ Cultivated by the natives of Munipore and other mountainous districts immediately East of Bengal. In H. C. G. fl. C. S. (*Roxb.*)

4. *saccharatum*, Pers. (*Röm. and Sch. l. c.*;—*Host. gram.* 4, t. 4.—*Holcus saccharatus*, *Arduin*.—*Andropogon saccharatus*, *Roxb. fl. ind.* 1, p. 271; *ed. Carey*, 1, p. 274;—*J. Grah. Cat. B. pl.* p. 238;—*Rumph.* 5, t. 75.) *সাদা দেবধান Sada-debhan*. ⊙ Cultivated in India. Fl. C. S.; fr. H. S.

CHRYSOPOGON, Host. (*Andropogon*, Nees.;—*Endl. gen. pl.* 1, p. 108, under *Andropogon*, L.)

1. *acicularis*, Host.? (*Andropogon acicularis*, *Retz*;—*Roxb. fl. ind.* 1, p. 262; *ed. Carey*, 1, p. 266;—*J. Grah. Cat. B. pl.* p. 238.—*Raphis trivalvis*, *Lour.*;—*Rheed.* 12, t. 43;—*Rhumph.* 6, t. 5, f. 1.) *চোর কঁটো Chor-kanta*. 4. Moluccas. Cochin China. Sunda Islands. Ceylon. Both Peninsulas of India. Bengal, (Serampore,) &c. Fl. R. S.; fr. Oct. and Nov.

2. *filiformis*, (*Andropogon filiformis*, *Roxb. fl. ind.* 1, p. 256; *ed. Carey*, 1, p. 260.—*Pollinia filiformis*, *Spreng. syst.* 1, p. 238.) ⊙ Bengal, (Calcutta, Serampore,) &c. Fl. C. S.; fr. H. S.

IMPERATA, Curillo. (*Endl. gen. pl.* 1, p. 107.)

1. *cylindrica*, Beauv. (*I. arundinacea*, *Cyril. ic. rar. fasc.* 2, t. 11;—*Röm. and Sch.* 2, p. 288;—*R. Br. pr.* 1, p. 204.—*Lagurus cylindricus*, L.—*Saccharum cylindricum*, *Lam.*;—*Roxb. fl. ind.* 1, p. 234;



ed. Carey, 1, p. 239;—*J. Grah. Cat. B. pl. p. 239*;—*Rumph. 6, t. 7, f. 2.*) *উলু Ooloo*. ♀. Caucasus, New Holland, Moluccas, Ceylon, Both Peninsulas of India, Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S. In Bengal much used for thatch. (*Roxb.*)

SACCHARUM, L. (*Endl. gen. pl. 1, p. 107.*)

1. *spontaneum*, L. (*Roxb. fl. ind. 1, p. 235*; *ed. Carey*, 1, p. 240.—*S. biflorum, Forsk.*—*Imperata spontanea, Trin.*;—*Röm. and Sch. 2, p. 289.*) *কাশ Kash.* ♀. Arabia, Peninsula of India, Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S. Makes good mats for various purposes, and is used to thatch houses. (*Roxb.*) Buffaloes are fed on this grass.
2. *fusum*, *Roxb.* (*fl. ind. 1, p. 236*; *ed. Carey*, 1, p. 241;—*Spreng. syst. 1, p. 281.*) *পাটী থড়ি Patee-Khoree*. ♀. Bengal, (Serampore.) Fl. R. S.; fr. C. S. The natives make their pens of the culms of this and the next species, and use them also for screens and light fences. (*Roxb.*)
3. *semidecumbens*, *Roxb.* (*fl. ind. 1, p. 236*; *ed. Carey*, 1, p. 241.) *থড়ি Khoree*. ♀. Bengal, (Serampore.) Fl. R. S.; fr. C. S.
4. *officinatum*, L. (*Spreng. syst. 1, p. 281*;—*Roxb. fl. ind. 1, p. 237*; *ed. Carey*, 1, p. 242;—*J. Grah. Cat. B. pl. p. 239*;—*Rumph. 5, t. 74, f. 1.*) *উক Ook Sugar-Cane*. Produces Sugar. Arab, *Sukkur*; Hind. *Jaggery*. ♀. E. and W. Indies, Society Islands. Fl. R. S. The juice of the sugar cane is the best antidote to arsenic. (*Chisholm.*)
5. *sinense*, *Roxb.* (*fl. ind. 1, p. 239*; *ed. Carey*, 1, p. 244;—*S. chinense, Spreng. syst. 1, p. 281.*) ♀. China. Cultivated in India, Fl. R. S.
6. *procerum*, *Roxb.* (*fl. ind. 1, p. 243*; *ed. Carey*, 1, p. 248;—*Spreng. l. c., excl. syn.*) *তঙ্গ Teng.* ♀. Bengal, (Serampore.) Fl. R. S.; fr. C. S. Culms used by the natives for screens and various other economical purposes. (*Roxb.*)
7. *Sara*, *Roxb.* (*fl. ind. 1, p. 244*; *ed. Carey*, 1, p. 249;—*Spreng. syst. 1, p. 281.*) *শুর Shur.* ♀. Bengal, (Serampore.) Fl. R. S.; fr. C. S.
8. *Munja*, *Roxb.* (*fl. ind. 1, p. 246*; *ed. Carey*, 1, p. 250;—*Spreng. l. c.*) ♀. Hindoosthan. In H. C. G. fl. R. S.; fr. H. S. (*Roxb.*)
9. *canaliculatum*, *Roxb.* (*fl. ind. 1, p. 246*; *ed. Carey*, 1, p. 251.) ♀. Bengal, (Serampore.) Fl. R. S.; fr. C. S.
10. *violaceum*, *Tussac.* (*Röm. and Sch. 2, p. 285.*) "*Canne de Hayte.*" *Otaheytye Cane*. ♀. Cultivated in India, &c.

BATRATHERUM, *Nees.* (*Lindl. Nat. Syst. p. 379.*)

1. *lanceolatum*, *Schult.* (*Andropogon lanceolatus, Roxb. fl. ind. 1, p. 257*; *ed. Carey*, 1, p. 262.) ☉ Coromandel. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)

LIPROCERCIS, *Trin.* (*Endl. gen. pl. 1, p. 108.*)

1. *serrata*, *Trin.* (*Andropogon serratus, Retz.*;—*Roxb. fl. ind. 1, p. 253*; *ed. Carey*, 1, p. 257;—*J. Grah. Cat. B. pl. 238*; not *Thunb.*—*A. filiformis, Pers.*;—*Röm. and Sch. 2, p. 811*; not *Roxb.*) *দেতারা Detara*. ☉ Bengal, Concans. Fl. C. S.; fr. H. S. Eaten by cattle. (*Roxb.*)

HETEROPOGON, Pers. (*syn.* 2, p. 533.—*Endl. gen. pl.* 1, p. 108, under *Andropogon*.)

1. *contortus*, Beauv. (*Röm. and Sch.* 2, p. 836.—*H. hirtus*, Pers. *l. c.*—*Andropogon contortus*, L.;—*R. Br. pr.* 1, p. 201;—*Roxb. fl. ind.* 1, p. 253; *ed. Carey*, 1, p. 258;—*J. Grah. Cat. B. pl.* p. 238, excl. *syn.* *Röm. and Sch.*) ⊙ Peninsula of India. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)

2. *tenellus*, Schult. (*Andropogon tenellus*, *Roxb. fl. ind.* 1, p. 254; *ed. Carey*, 1, p. 259.) ⊙ Bengal. Fl. C. S.; fr. H. S.

SPODIOPOGON, Trin. (*Endl. gen. pl.* 1, p. 108, under *Ischæmum*.)

1. *semisagittatus*, (*Ischæmum semisagittatum*, *Roxb. fl. ind.* 1, p. 320; *ed. Carey*, 1, p. 322;—*Spreng. syst.* 1, p. 298.) ⊙ Bengal, (Serampore. Fl. and fr. C. S.)

2. *conjugatus*, (*Ischæmum conjugatum*, *Roxb. fl. ind.* 1, p. 321; *ed. Carey*, 1, p. 323;—*Spreng. syst.* 1, p. 298;—*J. Grah. Cat. B. pl.* p. 239.) ⊙ Bengal, (Serampore.) Peninsula of India. Fl. and fr. C. S.

3. *geniculatus*, (*Ischæmum geniculatum*, *Roxb. fl. ind.* 1, p. 322; *ed. Carey*, 1, p. 324;—*Spreng. syst.* 1, p. 298.) ⊙ Bengal. Fl. and fr. C. S.

VOSSIA, Wall. and Griff. (*Journ. as. soc.* vol. 5, p. 572.)

1. *procera*, Wall. and Griff. (*l. c.* t. 23.—*Ischæmum cuspidatum*, *Roxb. fl. ind.* 1, p. 324; *ed. Carey*, 1, p. 325;—*Kth. agrost.* 1, p. 516.) aquatic. ⊙ Bengal, &c. Fl. and fr. C. S.

ANDROPOGON, L. (*Endl. gen. pl.* 1, p. 108.)

1. *muricatus*, Retz. (*Roxb. fl. ind.* 1, p. 265; *ed. Carey*, 1, p. 269;—*J. Grah. Cat. B. pl.* p. 238.—*Anatherum muricatum*, Beauv.;—*Röm. and Sch.* 2, p. 808.—*Phalaris Zizania*, L.) অমখশ ঘাস *Khuskhus-ghas*. ২. Bengal, Peninsula of India. (Serampore.) Fl. R. S. fr. C. S.; The fragrant roots of this grass are well known all over India, and used for making tatties, covers for palankeens, large fans, &c. The grass is used for thatching bungalows in the Deccan. (*Roxb.*)

2. *cymbarius*, L. (*Anthistiria cymbaria*, *Roxb. fl. ind.* 1, p. 251; *ed. Carey*, 1, p. 255;—*J. Grah. Cat. B. pl.* p. 239.—*Cymbopogon elegans*, *Spreng. syst.* 1, p. 289.) ২. Coromandel Mountains. Fl. and fr. C. S. (*Roxb.*)

3. *prostratus*, L. (*Anthistiria prostrata*, Willd.;—*Roxb. fl. ind.* 1, p. 250; *ed. Carey*, 1, p. 254.—*Cymbopogon grandulosus*, *Spreng. syst.* 1, p. 289.) ⊙ Peninsula of India. In H. C. G. fl. and fr. C. S.

4. *arundinaceus*. (*Anthistiria arundinacea*, *Roxb. fl. ind.* 1, p. 251; *ed. Carey*, 1, p. 256.—*Cymbopogon arundinaceus*, Schult.) ২. Bengal, (Serampore.) Fl. R. S.; fr. C. S.

5. *Schoenanthus*, L. (*Roxb. fl. ind.* 1, p. 274; *ed. Carey*, 1, p. 278;—*Wall. pl. as. rar.* 3, t. 280;—*J. Grah. Cat. B. pl.* p. 238.—*Cymbopogon Schoenanthus*, *Spreng. syst.* 1, c.;—*Rheed.* 12, t. 72.—*Rumph.* 5, t. 72, f. 2.) গন্ধো-বেনা *Gandho-bena*. Lemon-grass. ২. Cultivated in gardens, but very seldom flowering. In the North of

caltratus



Bengal large tracts of waste land are covered with this grass. (*Carey*.) The fresh leaves are much used as a substitute for tea. The white succulent centre of the leaf-bearing culms is often put into curries, to give them an agreeable flavour. (*Roxb.*) The natives of the Moluccas extract a pleasant tasted essential oil from the leaves. (*Carey*.)

6. *Martini*, *Roxb.* (*fl. ind.* 1, p. 277; *ed. Carey*, 1, p. 280.—*A. nardoides*, *Nees*. ?—*A. Calamus aromaticus*, *Royle*. ?) ♀ Central India extending north as far as Delhi, and south to between the Godavery and Nagpore. In H. C. G. fl. R. S.; fr. C. S. This grass has a strong aromatic and pungent taste, so that not only the flesh of the animals (which eat it voraciously) but also the milk and butter, have a very powerful scent of it. (*General Martin*.) It yields the fragrant grass-oil of *Namaur*.
7. *Iwarancusa*, *Blane.* (*Roxb. fl. ind.* 1, p. 275; *ed. Carey*, 1, p. 279.) ♀ Hurdwar. Kheree Pass. Fl. and fr. C. S. Comes remarkably near *A. Schoenanthus* both in habit and taste. (*Roxb.*)
8. *Nardus*, *Röttl.* ? (*Spreng. syst.* 1, p. 287;—*Roxb. H. B.* p. 7.) ♀ Courtallum. Tinnevely. In H. C. G. fl. R. S.; fr. C. S. Ainslie calls this grass ginger, or spice-grass, and says that the natives use its infusion as a stomachic, and occasionally prepare from it an essential oil useful in rheumatism. (*Royle*.) It is not mentioned in *Roxb. fl. ind.* but it is, evident that Dr. Carey, in H. B. 1. c. took it to be *A. Iwarancusa*, Bl. which it perhaps may be.
9. *glaber*, *Roxb.* (*fl. ind.* 1, p. 267; *ed. Carey*, 1, p. 271;—*Spreng. syst.* 1, p. 288. ♀ Elevated parts of Bengal. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)
10. *punctatus*, *Roxb.* (*fl. ind.* 1, p. 264; *ed. Carey*, 1, p. 268;—*Spreng. syst.* 1, p. 288.) ♂ Bengal, (Serampore.) Fl. C. S.; fr. H. S.
11. *Bladhii*, *Retz.* (*Roxb. fl. ind.* 1, p. 259; *ed. Carey*, 1, p. 263;—*Spreng*, 1, p. 286.) *কোরাড়ি Loari*. ♂ Bengal, (Serampore.) Fl. C. S.; fr. H. S.
12. *pertusus*, *Willd.* (*Spreng. syst.* 1, p. 286.—*R. Br. pr.* 1, p. 202;—*Roxb. fl. ind.* 1, p. 258; *ed. Carey*, 1, p. 263—*Holcus pertusus*, *Kön.*; *L. Mant.*) ♂ Bengal, Peninsula of India. New Holland. Fl. C. S.; fr. H. S.
13. *scandens*, *Roxb.* (*fl. ind.* 1, p. 258; *ed. Carey*, 1, p. 262.—*Spreng. syst.* 1, p. 286;—*J. Grah. Cat. B. pl.* p. 238.) ♂ Bengal, Peninsula of India. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)
14. *trispicatus*, *Schult.* (*A. tristachys*, *Roxb. fl. ind.* 1, p. 257; *ed. Carey*, 1, p. 261; not Humb.) ♂ Bengal, (Serampore.) Fl. C. S.; fr. H. S.
15. *Roxburghianus*, *Schult.* (*A. filiformis*, *Roxb. fl. ind.* 1, p. 256; *ed. Carey*, 1, p. 260; not Pers.) ♂ Bengal, (Serampore.) Fl. C. S.; fr. H. S.
16. *conjugatus*, *Roxb.* (*fl. ind.* 1, p. 255; *ed. Carey*, 1, p. 260.—*Saccharum conjugatum*, *Spreng.* 1, p. 283.) ♂ Bengal, (Serampore.) Fl. C. S.; fr. H. S.

17. *binatus*, Retz. (*Roxb. fl. ind.* 1, p. 255; *ed. Carey*, 1, p. 259.) ⊙ Bengal. In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*)

18. *miliiformis*, Schult. (*A. miliaceus*, *Roxb. fl. ind.* 1, p. 272; *ed. Carey*, 1, p. 276; not Forsk.) ⊙ Lucknow. In H. C. G. fl. during the latter part of the R. S. (*Roxb.*)

ANTHISTIRIA, L. (*Endl. gen. pl.* 1, p. 107.)

1. *ciliata*, Retz. (*Gärtn. fr.* 2, p. 465, t. 175;—*Spreng. syst.* 1, p. 54. c. p. 337;—*Roxb. fl. ind.* 1, p. 247; *ed. Carey*, 1, p. 251;—*J. Grah. Cat. B. pl.* p. 239.) ⊙ In H. C. G. fl. C. S.; fr. H. S. (*Roxb.*) This grass grows most abundantly throughout the Concans, and is commonly converted into hay for feeding horses. (*J. Grah.*)

2. *polystachya*, Roxb. (*fl. ind.* 1, p. 248; *ed. Carey*, 1, p. 252;—*Spreng. syst.* 1, p. 291.) ⊙ Bengal. Fl. C. S.; fr. H. S.

3. *scandens*, Roxb. (*fl. ind.* 1, p. 248; *ed. Carey*, 1, p. 253;—*Spreng. syst.* 1, p. 291.) ⊙ Bengal, (Serampore.) Fl. C. S.; fr. H. S.

4. *heterochila*, Roxb. (*fl. ind.* 1, p. 249; *ed. Carey*, 1, p. 253.—*Spreng. syst.* 1, p. 291.) ⊙ Bengal, (Serampore.) Fl. and fr. C. S.

APLUDA, L. (*Endl. gen. pl.* 1, p. 108.)

1. *aristata*, L. (*Spreng. syst.* 1, p. 290;—*Roxb. fl. ind.* 1, p. 324; *ed. Carey*, 1, p. 326;—*J. Grah. Cat. B. pl.* p. 239.) চুই খড়কী *Choon-khurkee*. ⊙ Bengal, (Serampore.) Peninsula of India, &c. Fl. C. S.; fr. H. S.

2. *geniculata*, Roxb. (*fl. ind.* 1, p. 325; *ed. Carey*, 1, p. 327.) ⊙ Bengal, (Serampore.) Fl. C. S.; fr. H. S.

D. ROTTBÖLLER, Nees; *Lindl. Nat. Syst.* p. 378.

ISCHÆMUM, L. (*Endl. gen. pl.* 1, p. 108.)

1. *aristatum*, L. (*Spreng. syst.* 1, p. 297.—*Roxb. fl. ind.* 1, p. 319; *ed. Carey*, 1, p. 321;—*J. Grah. Cat. B. pl.* p. 239.) মেলেনকা *Melencha*. ⊙ Bengal, Peninsula of India. Fl. and fr. C. S.

2. *rugosum*, Salisb. (*Stirp. rar.* 1, t. 1;—*Spreng. syst.* 1, p. 297;—*Roxb. fl. ind.* 1, p. 320; *ed. Carey*, 1, p. 322;—*J. Grah. Cat. B. pl.* p. 239.) ⊙ Bengal, Peninsula of India. Fl. and fr. C. S.

HEMANTHURA, R. Br. (*pr.* 1, p. 207;—*Endl. gen. pl.* 1, p. 105.)

1. *compressa*, R. Br. (*l. c.*—*Rottböllia compressa*, L.;—*Spreng. syst.* 1, p. 299;—*Roxb. Corom.* 2, t. 156; *fl. ind.* 1, p. 354; *ed. Carey*, 1, p. 354;—*J. Grah. Cat. B. pl.* p. 233.) পানী শিড়া *Panic-shira*. ⊙ Borders of tanks, &c. in Bengal and the Peninsula of India.

THYRIDOSTACHYUM, Nees. (*Mnesithea*, *Kth.*;—*Endl. gen. pl.* 1, p. 105.)

1. *perforatum*, Nees. (*Rottböllia perforata*, *Roxb. Corom.* 2, t. 182; *fl. ind.* 1, p. 356; *ed. Carey*, 1, p. 356;—*Spreng. syst.* 1, p. 300;—*J. Grah. Cat. B. pl.* p. 234.) কুর্কী *Kurkkeer*. ⊙ Bengal. Peninsula of India. Fl. R. S.

OPIURUS, Gärtn. (*Endl. gen. pl.* 1, p. 105.)

1. *incurvatus*, Beauv. (*Rottböllia incurvata*, L.;—*Spreng. syst.* 1, p. 299;—*E. B.* 11, t. 760.) ⊙ England. Middle Europe. Fl. C. S.



2. *corymbosus*, Gärtn. (Carpol. 3, p. 4.—R. Br. pr. p. 207.—Rottböllia corymbosa, L. fil.;—Roxb. fl. ind. 1, p. 355; ed. Carey, 1, p. 355; Corom. 2, t. 181.—J. Grah. Cat. B. pl. p. 233.—Ægilops exaltata, Retz.—Rottböllia punctata, Retz.) © Peninsula of India. Tropical New Holland. Fl. R. S.

ROTTBÖLLIA, L. (Endl. gen. pl. 1, p. 105.)

1. *exaltata*, L. (Roxb. Corom. 2, t. 157; fl. ind. 1, p. 354; ed. Carey, 1, p. 354;—Spreng. syst. 1, p. 300.—J. Grah. Cat. B. pl. p. 233;—R. Br. pr. p. 206.—Stegosia cochinchinensis, Lour. বড় ভুটী Buroshoonti. © Bengal, (Serampore.) Peninsula of India. New Holland. Cochin China. Fl. R. S.
2. *glabra*, Roxb. (fl. ind. 1, p. 353; ed. Carey, 1, p. 353;—Spreng. syst. 1, p. 300.) বাক্সা Buksa. © Bengal, (Serampore.) Fl. R. S.; fr. C. S. Cattle are fond of this grass. (Roxb.)

PELTOPHORUS, Beauv. (Manisuris, L.;—Endl. gen. pl. 1, p. 106.)

1. *granularis*, Beauv. (Manisuris granularis, Swz.;—Spreng. syst. 1, p. 301;—Roxb. Corom. 2, t. 118; fl. ind. 1, p. 352; ed. Carey, 1, p. 352;—J. Grah. Cat. B. pl. p. 234.) © Peninsula of India. W. Indies. Tropical America, &c. In H. C. G. fl. R. S.; fr. C. S. (Roxb.)
2. *Myurus*, Beauv. (Manisuris myurus, L.;—Roxb. Corom. 2, t. 117; fl. ind. 1, p. 351; ed. Carey, 1, p. 352;—Spreng. syst. 1, p. 301.) © Coromandel. Fl. R. S.

OROPETIUM, Trin. (Spreng. syst. 1, p. 131, No. 246.)

1. *thomæum*, Trin. (Spreng. syst. 1, p. 139.—Nardus thomæa, L.—Rottböllia thomæa, Willd.;—Roxb. Corom. 2, t. 132; fl. ind. 1, p. 357; ed. Carey, 1, p. 357;—J. Grah. Cat. B. pl. p. 234.—R. pilosa, Willd.) © Peninsula of India, growing on old walls. Fl. R. S.

ZOYSIA, Willd. (Endl. gen. pl. 1, p. 106.)

1. *pungens*, Willd. (Spreng. syst. 1, p. 239;—R. Br. pr. p. 208.—Agrostis Matrella, L.;—Roxb. fl. ind. 1, p. 317; ed. Carey, 1, p. 319;—J. Grah. Cat. B. pl. p. 235.—Matrella juncea, Pers.; excl. Agrostis juncea, Lam.) ২. Bengal, (Serampore.) Peninsula of India. New Holland. C. G. H. Fl. R. S.; fr. C. S.

E. OLYRÆA, Nees;—Lindl. Nat. Syst. p. 378.

ZEAL, L. (Endl. gen. pl. 1, p. 80.)

1. *Mays*, L. (Spreng. syst. 1, p. 238;—Beauv. agrost. p. 136, t. 24, f. 3;—Roxb. fl. ind. 3, p. 568;—J. Grah. Cat. B. pl. p. 240.—Mays, Zea, Gärtn. fr. 1, p. 6, t. 1, f. 9.) मक्का Mukka. भूट Bhoot. Maize. Indian Corn. © Tropical America. Cultivated all over India, &c. Fl. R. and C. S.; fr. C. S.

COIX, L. (Endl. gen. pl. 1, p. 80.)

1. *Lacrima*, L. (Spreng. syst. 1, p. 238.—B. M. 51, t. 2479;—Roxb. fl. ind. 3, p. 568;—J. Grah. Cat. B. pl. p. 240.—Lithagrostis Lacryma Jobi, Tournef.;—Gärtn. fr. 1, p. 7, t. 1, f. 10;—Rheed. 12, t. 70;—

- Rumph.* 5, t. 75, f. 2.) কাঁচ গড়গড় *Kanch-gurgur.* *Job's Tears.* ৩. Moluccas. Sunda Islands. Ceylon. Both Peninsulas of India. Bengal, (Serampore,) &c. Fl. R. S.; fr. C. S.
2. *barbata*, Roxb. (*fl. ind.* 3, p. 569.) কাঁটা গড়গড় *Canta-gurgur.* ৩. Circars. Bengal, (Serampore,) Fl. R. S.; fr. C. S.
3. *gigantea*, Kön. (*Roxb. fl. ind.* 3, p. 570.) ডাঙ্গা গড়গড় *Danga-gurgur.* ৩. Circars. Bengal, (Serampore,) Fl. R. S.; fr. C. S.
4. *aquatica*, Roxb. (*fl. ind.* 3, p. 571.) জল গড়গড় *Jal-gurgur.* ৩. Bengal, (Serampore,) Fl. R. S.; fr. C. S.
5. *heteroclita*, Roxb. (*fl. ind.* 3, p. 572.) ৩. Eastern parts of Bengal. Fl. R. S.; fr. C. S. (*Roxb.*)
6. *pumila*, Roxb. (*fl. ind.* 3, p. 572.) ৩. Mauritius. Fl. R. S.; fr. C. S. (*Roxb.*)
- F. PHLEBÆ*, (Phleoidæ, Nees, ;—*Lindl. Nat. syst.* p. 378.)
- PHLEUM, L. (*Endl. gen. pl.* 1, p. 81.)
1. *Bühmeri*, Wib. (*Spreng. syst.* 1, p. 242.—*Phalaris phleoides*, L.;—*E. B.* 7, t. 459.) ৩. Europe. Fl. C. S.
2. *alpinum*, L. (*Spreng. syst.* 1, p. 241;—*E. B.* 8, t. 519.) ৩. Alps of Europe. Fl. C. S.
3. *Micheli*, All. (*Spreng. syst.* 1, p. 241;—*E. B.* 32, t. 2265.) ৩. England. S. Europe. Fl. C. S.
- HYGROLYZA, Nees. (*Edinb. new philos. journ.* July 1833;—*Endl. gen. pl.* 1, p. 78.)
1. *ciliata*, Nees. (*l. c.*—*Pharus ciliatus*, Retz.—*Leersia ciliata*, Roxb. *fl. ind.* 2, p. 207.) © Bengal, (Serampore.) Fl. Sept. Oct. and Nov.; fr. C. S.
- PEROTIS, Ait. (*R. Br. pr.* p. 172;—*Spreng. syst.* 1, p. 131, No. 247.)
1. *latifolia*, Ait. (*Spreng. syst.* 1, p. 239;—*Roxb. fl. ind.* 1, p. 233; *ed. Carey*, 1, p. 238;—*J. Grah. Cat. B. pl.* p. 237.—*Harvey, gen. of S. African pl.* p. 369.—*Anthoxanthum indicum*, L.—*Saccharum spicatum*, L.—*Agrostis spicæformis*, L.—*Burm. ind.* t. 9, f. 3;—*Rheed.* 12, t. 62.) © Peninsula of India. S. Africa. Fl. R. S.
- G. AGROSTIÆ*, (Agrostideæ, Nees, ;—*Lindl. Nat. syst.* p. 378.)
- CHÆTURUS, Lk. (*Endl. gen. pl.* 1, p. 90.)
1. *fasciculatus*, Lk. (*Röm. and Sch.* 2, p. 324.—*Polypogon fasciculatus*, Pers.—*P. subspicatus*; *Willd.*—*Agrostis articulata*, Brot.) © Spain. Portugal. Fl. Feb.
- POLYPOGON, Desf. (*Endl. gen. pl.* 1, p. 90.)
1. *monspeliensis*, Desf. (*Röm. and Sch.* 2, p. 325.—*Phleum monspeliense*, Kol. *gram.* p. 57; excl. syn.—*Alopecurus monspeliensis*, L.—*Agrostis panicea*, Willd.;—*E. B.* 24, t. 1704.) © England. France. Italy. Spain. Caucasus. Fl. Feb.
2. *maritimus*, DC. (*Cat. horti. monspel.* (1813,) p. 134;—*Röm. and Sch.* 2, p. 325.—*Phleum crinitum*, Roxb. *fl. ind.* 1, p. 313; *ed. Carey*, 1, p. 316.) © N. India. Nepal. Fl. C. S.; fr. H. S.



SPOROBOLUS, R. Br. (*pr.* p. 170 ;—*Endl. gen. pl.* 1, p. 89.)

1. *diander*, R. Br. (*l. c. annot.*—*Agrostis diandra*, Retz. ;—*Röm. and Sch.* 2, p. 367 ;—*Roxb. fl. ind.* 1, p. 317 ; *ed. Carey*, 1, p. 319.—*Vilfa diandra*, Trin.) বেণী যোনি *Bena-yoni*. ☉ Bengal, (Serampore,) &c. Fl. R. S. ; fr. C. S.

2. *tenacissimus*, Beauv. (*Agrostis tenacissima*, Willd. ;—*Röm. and Sch.* 2, p. 369 ;—*Roxb. fl. ind.* 1, p. 316 ; *ed. Carey*, 1, p. 318.—*Vilfa diandra*, H. and B. ; not Trin.) পানী দুর্বা *Panee-doorba*. ☉ Peninsula of India. Bengal, (Serampore.) W. Indies. Fl. R. S. ; fr. C. S.

GASTRIDIMUM, Beauv. (*Endl. gen. pl.* 1, p. 89.)

1. *australe*, Beauv. (*Röm. and Sch.* 2, p. 342.—*Milium lendigerum*, Schreb. ;—*E. B.* 16, t. 1107.—*Agrostis australis*, L.) ☉ Shores of the Mediterranean. Fl. Feb.

AGROSTIS, L. (*Endl. gen. pl.* 1, p. 89.)

1. *stolonifera*, L. (*E. B.* 22, t. 1532 ?) ☉ Greece. S. Europe. N. America. Fl. Feb. and March.
2. *diffusa*, Host. (*Gram.* 4, p. 32, t. 55 ;—*Röm. and Sch.* 2, p. 344.) ☉ Meadows and river banks of Europe. Fl. Feb.

H. STIPES, Nees. (*Lindl. Nat. Syst. p.* 378.)

CHÆTARIA, Beauv. (*Lindl. Nat. Syst. p.* 381.)

1. *Hystrix*, Beauv. (*Aristida Hystrix*, L. ;—*Spreng. syst.* 1, p. 267 ;—*Roxb. fl. ind.* 1, p. 350 ; *ed. Carey*, 1, p. 351 ;—*J. Grah. Cat. B. pl. p.* 285.) ☉ Peninsula of India. Fl. R. S.

I. ORYZÆ, Nees. (*Lindl. Nat. Syst. p.* 378.)

ORYZA, L. (*Endl. gen. pl.* 1, p. 78.)

1. *sativa*, L. (*Mill. ill. t.* 19 ;—*Lam. ill. t.* 264 ;—*Spreng. syst.* 2, p. 136 ;—*Roxb. fl. ind.* 2, p. 200 ;—*J. Grah. Cat. B. pl. p.* 235 ;—*Görtn. fr. 2, p. 5, t. 80, f. 5.*) ধান *Dhan*. Rice. ☉ Cultivated. Fl. R. S. ; fr. C. S.

POTAMOCHLOA, Griff. (*Journ. as. soc. vol.* 5, p. 571.)

1. *Retzii*, Griff. (*l. c. t.* 24.—*Pharus aristatus*, Retz.—*Leersia aristata*, Roxb. *fl. ind.* 2, p. 207 ;—*J. Grah. Cat. B. pl. p.* 235.—*Zizania* ? *aristata*, Kth.—*Hygroryza aristata*, Nees. ; *Edinb. n. philos. journ.* July 1833 ;—*Rheed.* 10, t. 12.) জঙ্গলী দাল *Junglee-dal*. ☉ Margins of tanks, lakes, &c. Bengal, (Serampore.) Peninsula of India. Fl. R. S. ; fr. C. S.

K. PAPPOPHOREÆ, Kth. (*Lindl. Nat. Syst. p.* 378.)

POMMEREULLA, L. fil. (*Spreng. syst.* 1, p. 136, No. 332.)

1. *Cornucopia*, L. (*Spreng. syst.* 1, p. 328 ;—*Roxb. Corom.* 2, t. 131 ; *fl. ind.* 1, p. 331 ; *ed. Carey*, 1, p. 332.) ☉ Coromandel. Has been introduced into H. C. G. ?

L. CHLORIDÆÆ. (*Chloridææ*, Nees. ;—*Lindl. Nat. Syst. p.* 378.)

CHLOERIS, Swz. (*Endl. gen. pl.* 1, p. 93.)

1. *barbata*, Swz. (*Röm. and Sch.* 2, p. 608 ;—*Jacq. ecl. gram. fasc.* 1, p. 10, t. 8 ;—*Roxb. fl. ind.* 1, p. 329 ; *ed. Carey*, 1, p. 331 ;—*J. Grah.*

Cat. B. pl. p. 234.—*Andropogon barbatus*, *L. mant.*—*Rheed. 12, t. 51.*) ♀. Peninsula of India. Bengal, (Serampore,) &c. Fl. and fr. throughout the year.

CYNODON, Rich. (*Endl. gen. pl. 1, p. 92.*)

1. *Dactylon*, Pers. (*Röm. and Sch. 2, p. 400*;—*R. Br. pr. p. 187.*—*Panicum Dactylon*, *L.*;—*E. B. 12, t. 850*;—*Roxb. fl. ind. 1, p. 289*; *ed. Carey, 1, p. 292*;—*J. Græh. Cat. B. pl. p. 236*) दूर्वा *Doorba*, ♀. England. S. Europe. Caucasus. S. Africa. New Holland. Both Peninsulas of India. Bengal, (Serampore,) &c. Fl. and fr. throughout the year. This most valuable grass forms three-fourths of the sole food of horses and cows in India. (*Roxb.*)

2. *filiformis*, (*Cynodon elongatus*, *Trin.*;—*Röm. and Sch. mant.*—*Digitaria elongata*, *Spreng. syst. 1, p. 171.*—*Aira filiformis*, *Kön.*;—*Roxb. fl. ind. 1, p. 326*; *ed. Carey, 1, p. 328*;—*J. Græh. Cat. B. pl. p. 235.*) ছোট পিঁনে নটী *Chhoto-pine-nutee*. ☉ Peninsula of India. Bengal, (Serampore.) Fl. R. S.

MICROCHLOA, R. Br. (*pr. p. 208.*)

1. *setacea*, R. Br. (*l. c.*—*Nardus indica*, *L.*—*Rottbolla setacea*, *Roxb. Corom. 2, t. 132*; *fl. ind. 1, p. 357*; *ed. Carey, 1, p. 357*;—*J. Græh. Cat. B. pl. p. 233.*) ☉ Peninsula of India, on old walls. Fl. R. S.

DACTYLOCTENIUM, Willd. (*Endl. gen. pl. 1, p. 93.*)

1. *egyptiacum*, Beauv. (*Röm. and Sch. 2, p. 583.*—*Cynosurus ægypticus*, *L.*; *Willd. excl. syn. Pluk.*—*Eleusine ægyptiaca Pers.*; *excl. syn. Lam.*;—*Roxb. fl. ind. 1, p. 344*; *ed. Carey, 1, p. 345*;—*J. Græh. Cat. B. pl. p. 235*;—*Rheed. 12, t. 69*;—*Rumph. 6, t. 4, f. 1.*) মাকড় জালী *Makur-jalee*. ☉ Tropical America. Africa. Moluccas. Both Peninsulas of India. Bengal, (Serampore.) Fl. and fr. nearly throughout the year. Cattle are fond of this grass. (*Roxb.*)

ACRACHNE, Wight. and Arn. (*Lindl. Nat. syst. p. 381.*)

1. *verticillata*, W. and A. (*Eleusine verticillata*, *Roxb. fl. ind. 1, p. 346*; *ed. Carey, 1, p. 346*;—*Spreng. syst. 1, p. 351.*) ☉ Peninsula of India. Fl. R. S.

ELEUSINE, Gärtn. (*Endl. gen. pl. 1, p. 93.*)

1. *Coracana*, Gärtn. (*fr. 1, p. 8, t. 1, f. 11*;—*Lam. ill. 1, p. 203, t. 48, f. 1*;—*Röm. and Sch. 2, p. 581*;—*Roxb. fl. ind. 1, p. 342*; *ed. Carey, 1, p. 343*;—*J. Græh. Cat. B. pl. p. 235.*—*Cynosurus Coracanus*, *L.*—*Rheed. 12, t. 78*;—*Rumph. 5, t. 76, f. 2.*) মুরোয়া *Murooa*. ☉ Cultivated. Fl. R. S.; fr. C. S.

2. *stricta*, *Roxb. (fl. ind. 1, p. 343*; *ed. Carey, 1, p. 344.)* Hind. *Rag-gee*. ☉ Cultivated. Fl. R. S.; fr. C. S. This is still more cultivated than the last, and differs from it only in having the spikes straight, being generally of a larger size, and more productive. The great weight of the seed when full grown, bends the spikes down into a horizontal direction. A variety of this grows to a still larger size, with a greater number of straight spikes. (*Roxb.*)



3. *indica*, Gärtn. (fr. 1, p. 8.—*Röm. and Sch.* 2, p. 582, excl. syn. Rheed.;—*Roxb. fl. ind.* 1, p. 345; *ed. Carey*, 1, p. 346;—*J. Grak. Cat. B. pl.* p. 235, excl. syn. Rheed. and Rumph.—*Cynosurus indicus*, L.—*Panicum compressum*, Forsk.,—*Burm. zeyl. t.* 47, f. 1.) माल अंकुर Mal-ankura. © Ceylon. Peninsula of India. Bengal, (Serampore,) &c. Egypt. W. Indies. Fl. and fr. nearly throughout the year.
4. *calycina*, Roxb. (*fl. ind.* 1, p. 346; *ed. Carey*, 1, p. 347;—*Spreng. syst.* 1, p. 351.) © Coromandel. Fl. R. S.; fr. C. S.

LEPTOCHLOA, Beauv. (*Endl. gen. pl.* 1, p. 93.)

1. *domingensis*, Lk. (*Poa domingensis*, Pers.;—*Röm. and Sch.* 2, p. 558.) 4. St. Domingo. Fl. R. S.; fr. C. S.

M. AVENÆ, Nees.;—(*Lindl. Nat. Syst.* p. 378.)

CORYNEPHORUS, Beauv. (*Endl. gen. pl.* 1, p. 95.)

1. *canescens*, Beauv. (*Röm. and Sch.* 2, p. 638.—*Aira canescens*, L.;—*E. B.* 17, t. 1190.) 4. Europe. Fl. C. S.

DESCHAMPRIA, Beauv. (*Endl. gen. pl.* 1, p. 95.)

1. *caespitosa*, Beauv. (*Röm. and Sch.* 2, p. 685.—*Aira caespitosa*, L.;—*E. B.* 21, t. 1453.) 4. Europe. Fl. C. S.

AIRA, L. (*Endl. gen. pl.* 1, p. 96.)

1. *flexuosa*, L. (*Röm. and Sch.* 2, p. 678;—*E. B.* 22, t. 1519.) 4. Europe. America. Fl. R. S.
2. *caryophyllæa*, L. (*Röm. and Sch.* 2, p. 681;—*E. B.* 12, t. 812.) © Europe. Fl. Feb.

LAGURUS, L. (*Endl. gen. pl.* 1, p. 96.)

1. *ovatus*, L. (*Röm. and Sch.* 2, p. 401;—*E. B.* 19, t. 1334.) © S. and W. Europe. Shores of W. Asia. Fl. Feb.

TRisetum, Pers. (*Endl. gen. pl.* 1, p. 96.)

1. *pubescens*, Röm. and Sch. (*syst.* 2, p. 662.—*Avena pubescens*, L.;—*E. B.* 23, t. 1640.) 4. Europe. Fl. C. S.

AVENA, L. (*Endl. gen. pl.* 1, p. 96.)

1. *præcox*, Beauv. (*Röm. and Sch.* 2, p. 667.—*Aira præcox*, L.;—*E. B.* 18, t. 1296.) © Europe. Fl. Feb.
2. *sativa*, L. (*Röm. and Sch.* 2, p. 668;—*Host. gram.* 2, t. 59;—*Roxb. H. B.* p. 9.) Common Oats. © Juan Fernandez? Cultivated. Fl. and fr. C. S.
3. *orientalis*, Schreb. (*Röm. and Sch.* 2, p. 669;—*Host. gram.* 3, t. 44.) © Hungary. Austria. Cultivated. Fl. Feb.
4. *fatua*, L. (*Röm. and Sch.* 2, p. 669;—*E. B.* 31, t. 2221.) © Europe. N. W. India. Fl. Feb. and March.

N. ARUNDÆ, (Arundinæ, Nees.;—*Lindl. Nat. Syst.* p. 378.)

DONAX, Beauv. (*Endl. gen. pl.* 1, p. 91; under Arundo.)

1. *arundinaceus*, Beauv. (*Röm. and Sch.* 2, p. 600.—*Arundo Donax*, L.) β. *versicolor*. (*Arundo versicolor*, Mill. dict. No. 3.) Gardener's garters. 4. France. Italy. Spain. Portugal. Has been cultivated here for many years, without fl.



AMPHIDONAX, Ness. (Lindl. Nat. syst. add. p. 449, No. 79;—Endl. gen. pl. 1, p. 91.)

1. *bengalensis*, Ness. (Lindl. l. c.—*Arundo bengalensis*, Retz.;—Roxb. fl. ind. 1, p. 348; ed. Carey, 1, p. 349.—*Donax bengalensis*, Beauv.;—Röm. and Sch. 2, p. 600.—*Aira bengalensis*, Gmel.) গাঁদ নল Gab-nul. ৭ Bengal, (Serampore.) Fl. R. and C. S.; fr. C. S.

2. *Karka*, Lindl. (Nat. Syst. p. 382.—*Arundo Karka*, Retz.;—Roxb. fl. ind. 1, p. 347; ed. Carey, 1, p. 348;—J. Grah. Cat. B. pl. p. 236.—A. Roxburghii, Kth.—*Trichoon Karka*, Roth.;—Röm. and Sch. 2, p. 382.—*Calamagrostis Karka*, Gmel.) নল Nul. দুরমা Durma. ৭ Peninsula of India. Bengal, (Serampore.) &c. Fl. R. and C. S.; fr. C. S. The common Durma-mats are made of the stalks, split open. Vessels from the port of Calcutta are generally dunnaged with them. (Roxb.)

3. *bifaria*, Lindl. (l. c.—*Arundo bifaria*, Retz.;—Roxb. fl. ind. 1, p. 347; ed. Carey, 1, p. 347.) অনন Unul. ৭ Circars. Bengal, (Serampore.) Fl. R. and C. S.; fr. C. S.

5. *Arundo gigantea*, W. Hamilt. (Roxb. H. B. p. 8.) Introduced into H. C. G. in 1809, where it flowered R. and C. S.; fr. C. S. (Roxb.)

O. TRITICEÆ, Nees.;—(Lindl. Nat. Syst. p. 378.)

HORDEUM, L. (Endl. gen. pl. 1, p. 104.)

1. *vulgare*, L. (Röm. and Sch. 2, t. 791;—Roxb. H. B. p. 9.) Spring Barley. © Native place unknown. Fl. C. S.; fr. Feb. and March.

2. *hexastichon*, L. (Röm. and Sch. l. c.;—Host. gram. 3, t. 35;—Gärtn. fr. 2, p. 10, t. 81, f. 3;—Roxb. fl. ind. 1, p. 358; ed. Carey, 1, p. 358;—J. Grah. Cat. B. pl. p. 234.) যব Juvo. Common Barley. © Native place unknown. Much cultivated in India. Fl. C. S.; fr. Feb. and March.

3. *jubatum*, L. (Röm. and Sch. 2, p. 792.) ♂ N. America. Fl. C. S.

4. *distichon*, L. (Röm. and Sch. 2, p. 793;—Gärtn. fr. 2, p. 10;—Host. gram. 3, t. 36.—*Zeocritum distichon*, Beauv.) © Tartary. Much cultivated in Europe. Fl. C. S.; fr. Feb. and March.

5. *murinum*, L. (Röm. and Sch. l. c.;—E. B. 28, t. 1971.) © Europe. Fl. C. S.

6. *maritimum*, With. (Röm. and Sch. 2, p. 795;—E. B. 17, t. 1205.) © Shores of Europe and W. Asia. Fl. C. S.

LOLIUM, L. (Endl. gen. pl. 1, p. 103.)

1. *temulentum*, L. (Röm. and Sch. 2, p. 749;—E. B. 16, t. 1124.) Bearded Darnel. © Europe. Fl. Feb. and March. The seeds of this grass are reported to be intoxicating to men, beasts, and birds, and even to bring on convulsions and death. (Sm.)

TRITICUM, L. (Endl. gen. pl. 1, p. 103.)

1. *Spelta*, L. (Röm. and Sch. 2, p. 767;—Host. gram. 3, t. 30.) © Native place unknown. Fl. Feb.



2. *vulgare*, Vill. (*Spreng. syst.* 1, p. 323.) *Common Wheat*. ☉ Native place unknown.

α. *æstivum*, (T. *æstivum*, Lag.;—*Röm. and Sch.* 2, p. 761;—*Host. gram.* 3, t. 26;—*Roxb. fl. ind.* 1, p. 359; *ed. Carey*, 1, p. 359;—*J. Grah. Cat. B. pl.* p. 234.) ☉ *Gom. Fl. C. S.*; fr. Feb. and March.

β. *hybernum*, (T. *hybernum*, Lag.;—*Röm. and Sch.* 2, p. 763;—*Host. gram.* 3, t. 26, f. 8;—*Gärtn. fr.* 2, p. 8, t. 81, f. 1;—*Roxb. l. c.*) *Fl. C. S.*; fr. Feb. and March.

Two varieties of α. and as many of β. are cultivated in N. India during the cold season.

3. *campestre*, Kit. (*Röm. and Sch.* 2, p. 769.—*Secale sylvestre*, *Host.* 4, t. 2.) ♂ Hungary. *Fl. Feb.*

ÆGILOPS, L. (*Endl. gen. pl.* 1, p. 104.)

1. *ovatus*, L. (*Röm. and Sch.* 2, p. 771;—*Gärtn. fr.* 2, p. 467, t. 175;—*Host. gram.* 2, t. 5;—*Sibth. and Sm. fl. gr.* 1, p. 74, t. 93.) ☉ ♂ S. Europe. *Fl. Feb. and March.*

2. *triuncialis*, L. (*Röm. and Sch.* 2, p. 772;—*Schreb. gram.* p. 80, t. 10, f. 1.) ☉ S. Europe. *Levant. Fl. Feb. and March.*

SECALE, L. (*Endl. gen. pl.* 1, p. 103.)

1. *cereale*, L. (*Röm. and Sch.* 2, p. 773;—*Gärtn. fr.* 2, p. 9, t. 81, f. 2.) *Rye*. ☉ Native place unknown. *Fl. Feb. and March.*

ELYMUS, L. (*Endl. gen. pl.* 1, p. 103.)

1. *geniculatus*, L. (*Amoen.* 7, p. 192, t. 2, f. 5;—*Röm. and Sch.* 2, p. 774;—*E. B.* 23, t. 1586.) ♀ Shores of England, near Gravesend. *Fl. C. S.*

2. *glaucofolius*, Mühlenb. (*Röm. and Sch.* 2, p. 776.) ♀ Virginia. *Pennsylvania. Fl. C. S.*

P. FESTUCEÆ, Nees.;—(*Lindl. Nat. Syst.* p. 378.)

POA, L. (*Endl. gen. pl.* 1, p. 98, comprehending *Eragrostis*, Beauv.)

1. *nutans*, Kön. (*Röm. and Sch.* 2, p. 568;—*Roxb. fl. ind.* 1, p. 335; *ed. Carey*, 1, p. 336.) ☉ *Coromandel. Bengal, (Serampore,) &c. Fl. R. S.*; fr. C. S.

2. *diarrhena*, Röm. and Sch. (P. diandra, *Roxb. fl. ind.* 1, p. 336; *ed. Carey*, 1, p. 337; not R. Br.) ☉ *Bengal, (Serampore,) &c. Fl. R. S.*; fr. C. S.

3. *viscosa*, Retz. (*Röm. and Sch.* 2, p. 564;—*Roxb. fl. ind.* 1, p. 336; *ed. Carey*, 1, p. 337;—*J. Grah. Cat. B. pl.* p. 236.) ☉ *Bengal, (Serampore,) Peninsula of India, &c.* It is covered with a tenacious resinous substance, having a very pleasant balsamic scent. (*J. Grah.*)

4. *plumosa*, Retz. (*Röm. and Sch.* 2, p. 552.—*Roxb. fl. ind.* 1, p. 337; *ed. Carey*, 1, p. 338;—*J. Grah. Cat. B. pl.* p. 236;—*Rheed.* 12, t. 41;—*Rumph.* 6, t. 4, f. 3.) ☉ *Moluccas. Peninsula of India. Bengal, (Serampore,) &c. Fl. R. S.*; fr. C. S.

5. *elegantula*, Kth. (*Poa elegans*, *Roxb. fl. ind.* 1, p. 330; *ed. Carey*, 1, p. 339; not Poir.) ☉ *Bengal, (Serampore,) &c. Fl. R. S.*; fr. C. S.

6. *unioloides*, Retz. (*Röm. and Sch.* 2, p. 567;—*Roxb. fl. ind.* 1, p. 339; *ed. Carey*, 1, p. 340;—*J. Grah. Cat. B. pl.* p. 236; excl. syn. except *Roxb.*'s.—*Uniola indica*, *Spreng. syst.* 1, p. 349.) কোনী *Konee*. ⊙ Peninsula of India. Bengal, (Serampore.) Fl. and fr. C. S.
7. *Roxburghiana*, Schult. (*P. tortuosa*, *Spreng. syst.* 1, p. 345.—*P. flexuosa*, *Roxb. fl. ind.* 1, p. 339; *ed. Carey*, 1, p. 340, not L.) ⊙ Bengal, (Serampore.) Fl. and fr. C. S.
8. *paniculata*, Roxb. (*fl. ind.* 1, p. 340; *ed. Carey*, 1, p. 341.) ⊙ Bengal, (Serampore.) Fl. and fr. C. S.
9. *gangetica*, Roxb. (*fl. ind.* 1, p. 340; *ed. Carey*, 1, p. 341;—*Spreng. syst.* 1, p. 345.) ⊙ Bengal, (Serampore.) &c. Fl. and fr. C. S.
10. *annua*, L. (*Röm. and Sch.* 2, p. 535;—*E. B.* 24, t. 1720) ⊙ Europe. N. Africa. Caucasus. Fl. C. S.; fr. H. S. This grass and *No.* 12, are almost the only grasses in England that will thrive in grass plats in towns and small confined situations.
11. *pratensis*, L. (*Röm. and Sch.* 2, p. 532;—*E. B.* 15, t. 1073.) ২. Europe. Caucasus. Fl. C. S. One of the best pasture grasses, especially in moist soils.
12. *trivialis*, L. (*Röm. and Sch.* 2, p. 534;—*E. B.* 15, t. 1072.) ২. Europe. Caucasus. Fl. C. S.
13. *nemoralis*, L. (*Röm. and Sch.* 2, p. 545;—*E. B.* 18, t. 1265.) ২. Europe. Fl. C. S.
14. *digitata*, R. Br. (*pr.* p. 182;—*Röm. and Sch.* 2, p. 574.) ⊙ Port Jackson. Fl. C. S.
15. *cylindrica*, Roxb. (*fl. ind.* 1, p. 334; *ed. Carey*, 1, p. 335;—*Spreng. syst.* 1, p. 347.—*Megastachya cylindrica*, *Röm. and Sch. mant.*) ⊙ Canton. In H. C. G. fl. R. S.; fr. C. S. (*Roxb.*)
16. *tenella*, L. (*Roxb. fl. ind.* 1, p. 337; *ed. Carey*, 1, p. 338;—*J. Grah. Cat. B. pl.* p. 236, excl. syn.—*Eragrostis tenella*, *Beauv.*;—*Röm. and Schult.* 2, p. 576.) ⊙ Peninsula of India. Bengal, (Serampore.) Fl. R. S.; fr. C. S.
17. *punctata*, L. (*Röm. and Sch.* 2, p. 568;—*Roxb. fl. ind.* 1, p. 338; *ed. Carey*, 1, p. 339.—*Eragrostis punctata*, *Röm. and Sch. mant.*) টানাজিনিয়া *Tanajiniya*. ⊙ Bengal, (Serampore.) Fl. R. S.; fr. C. S.
18. *multiflora*, Roxb. (*fl. ind.* 1, p. 338; *ed. Carey*, 1, p. 340.—*Eragrostis multiflora*, *Trin.*) ⊙ Bengal, (Serampore.) Fl. R. S.; fr. C. S.
19. *cynosuroides*, Retz. (*Roxb. fl. ind.* 1, p. 333; *ed. Carey*, 1, p. 334;—*J. Grah. Cat. B. pl.* p. excl. syn. Rheed.—*Eragrostis cynosuroides*, *Röm. and Sch.*—*Uniola bipinnata*, *L. sp.* p. 104.—*Briza bipinnata*, *L. amoen. acad.* 4, p. 450.) কুশ *Koosh*. ২. Peninsula of India. Bengal, (Serampore.) Egypt, &c. Fl. R. S.; fr. C. S. Used by the Brahmuns in their religious ceremonies.
20. *chinensis*, Retz. (*Spreng. syst.* 1, p. 338;—*Roxb. fl. ind.* 1, p. 332; *ed. Carey*, 1, p. 333;—*J. Grah. Cat. B. pl.* p. 236.) বড় গিনি নটা



- Buro-pini-nutee*. © Peninsula of India. Bengal, (Serampore.) China.
Fl. R. S.; fr. C. S.
- BRIZA, L. (*Endl. gen. pl.* 1, p. 99.)
1. *maxima*, L. (*Röm. and Sch.* 2, p. 521;—*B. M.* 10, t. 357.) © S. Europe. Fl. C. S.
 2. *geniculata*, Thunb. (*Röm. and Sch.* 2, p. 520.) © C. G. H. Fl. C. S.
 3. *virens*, L. (*Röm. and Sch. l. c.*) © S. France. Spain. Levant. Fl. C. S.
 4. *minor*, L. (*Röm. and Sch.* 2, p. 519;—*E. B.* 19, t. 1316.) © England. S. Europe. Fl. C. S.
- MELICA, L. (*Endl. gen. pl.* 1, p. 100.)
1. *uniflora*, Retz. (*Röm. and Sch.* 2, p. 524;—*E. B.* 15, t. 1058.) 4. Europe. Fl. C. S.
- DACTYLIS, L. (*Endl. gen. pl.* 1, p. 100.)
1. *glaucescens*, Willd. (*Röm. and Sch.* 2, p. 626.) 4. Venice. Fl. C. S.
- LAMARCKIA, Möncb. (*Endl. gen. pl.* 1, p. 101.)
1. *aurea*, Möncb. (*Chrysurus cynosuroides*, Pers.;—*Röm. and Sch.* 2, p. 806.—*Cynosurus aureus*, L.;—*Sm. and Sibth. fl. gr.* 1, p. 62, t. 79;—*Host. gram.* 3, t. 4.) © Italy. S. France. Spain. Fl. C. S.
- CYNOSURUS, L. (*Endl. gen. pl.* p. 100.)
1. *echinatus*, L. (*Pers. syn.* 1, p. 86;—*E. B.* 19, t. 1333.—*Chrysurus echinatus*, Beauv.;—*Röm. and Sch.* 2, p. 806.) © England. S. Europe. Levant. Caucasus. Fl. Feb.
- BRACHYPODIUM, Rom. and Sch. (*syst.* 2, p. 45.)
1. *tenellum*, Rom. and Sch. (*syst.* 2, p. 745.—*Triticum tenellum*, Lam. © S. Europe. Fl. C. S.
- VULPIA, Gmel. Lk.
1. *bromoides*, Lk. (*Mygalurus bromoides*, Lk.—*Festuca bromoides*, L.;—*E. B.* 20, t. 1411;—*Röm. and Sch.* 2, p. 725.) © S. and W. Europe. Fl. Feb. and March.
 2. *Myurus*, Lk. (*Mygalurus caudatus*, Lk.—*Festuca Myurus*, L.;—*Röm. and Sch.* 2, p. 726;—*E. B.* 20, t. 1412.) © Europe. Fl. Feb. and March.
 3. *uniglumis*, Lk. (*Mygalurus uniglumis*, Lk.—*Festuca uniglumis*, Sm.;—*E. B.* 20, t. 1430;—*Röm. and Sch.* 2, p. 728.) © Shores of England and France. Fl. Feb. and March.
- FESTUCA, L. (*Endl. gen. pl.* 1, p. 101.)
1. *ovina*, L. (*Röm. and Sch.* 2, p. 714;—*E. B.* 9, t. 585.) 4. Europe. Fl. C. S.
 2. *flavesvens*, Bellard. (*Röm. and Sch.* 2, p. 722.) 4. Alps of Piedmont. Fl. C. S.
 3. *rubra*, L. (*Röm. and Sch.* 2, p. 724;—*E. B.* 29, t. 2056.) 4. Europe. Fl. C. S.

BROMUS, L. (*Endl. gen. pl.* 1, p. 101.)

1. *secalinus*, L. (*Röm. and Sch.* 2, p. 633 ;—*E. B.* 17, t. 1171.) © Europe. Caucasus. Fl. C. S.
2. *lanceolatus*, Roth. (*Röm. and Sch.* 2, p. 639.) © Canaries. Fl. C. S.
3. *longiflorus*, Willd. (*Röm. and Sch.* 2, p. 645.) 4. Native place unknown. Fl. C. S.
4. *sterilis*, L. (*Röm. and Sch.* 2, p. 647 ;—*E. B.* 15, t. 1030.) © England. S. Europe. Caucasus. Fl. C. S.
5. *matritensis*, L. (*Röm. and Sch.* 2, p. 648.—*B. diandrus*, *Curt.* ;—*E. B.* 14, t. 1006.) © S. Europe. Tauria. N. Africa. Fl. C. S.
6. *maximus*, Desf. (*Röm. and Sch.* 2, p. 652.—*B. matritensis*, *Cav. ic. rar.* VI. p. 67 ; not 4.) © Madrid. Fl. C. S.

Q. *BAMBUSEÆ*, Nees. ; (*Lindl. Nat. syst.* p. 378.)

BESHA, Rheed. (*Endl. gen. pl.* 1, p. 103.)

1. *Rheedii*, Kth. (*Gram.* 141 ;—*Agrost.* 484.—*B. baccifera*, *Kth. syn. pl. aquinoct.* 1, p. 253 ;—*Schult.* 8, p. 1336.—*Melocanna bambusoides*, *Trin.* ;—*Spreng. syst.* 2, p. 113, excl. syn. *Lour.* ;—*J. Grah. Cat. B. pl.* p. 240.—*Bambusa baccifera*, *Roxb. Corom.* 3, t. 243 ; *fl. ind.* 2, p. 197.—*Rheed.* 5, t. 60.) बिष बाँश *Bish-bansh*, 5 Peninsula of India. Chittagong Mountains. Fl. R. S. ; fr. C. S.

DENDROCALAMUS, Nees. (*Lindl. Nat. Syst.* p. 383.—*Endl. gen. pl.* 1, p. 103, *annot.* under *Bambusa*.)

1. *Balcooa*. (*Bambusa Balcooa*, *Roxb. fl. ind.* 2, p. 196.) 5 Bengal. (Serampore.) Fl. R. S. ; but very seldom. On account of its size and strength, it is reckoned by the bamboo workmen the very best sort for building the houses of the natives, for scaffolding, &c., especially after it has been long immersed in water. (*Roxb.*)

a. धुलि बाँश *Dhooli-bansh*. Large variety.

β. बालकू बाँश *Balkoo-bansh*. पंजु बाँश *Puloo-bansh*. Smaller variety.

2. *Tulda*, (*Bambusa Tulda*, *Roxb. fl. ind.* 2, p. 193.) तुलदा बाँश *Tulda-bansh*. 5 Bengal, (Serampore.) Fl. May. This species, the most common in Bengal, is much esteemed by the natives, though considered inferior to No. 1, like which it is treated and used in the same manner. The young thick shoots are, when about two feet high, tender and commonly used for pickle. (*Roxb.*)

β. पीयू बाँश *Peeea-bansh*. A larger variety used chiefly for scaffolding and building the better and larger sorts of native houses. It differs from *Tulda-bansh* by its greater length and thickness of the joints.

γ. बाशिनि बाँश *Bashini-bansh*. Has a larger cavity, and is used chiefly for making baskets.

3. *strictus* (*Bambusa stricta*, *Roxb. Corom.* 1, t. 80 ; *fl. ind.* 2, p. 193 ;—*Schult.* 8, p. 1339.—*Nastus strictus*, *Sm. in Rees' cycl.*) 5 Coromandel. Fl. H. S. Smaller than the other species, but on account of its great strength, solidity and straightness, much more fit for a variety of uses. The natives make staffs to their spears, &c. of it. (*Roxb.*)



BAMBUSA, Schult. (*Endl. gen. pl.* 1, p. 102.)

1. *arundinacea*, Willd. (*Schult. syst.* 8, p. 1340;—*Roxb. Corom.* 1, t. 79; *fl. ind.* 2, p. 191, and *J. Grah. Cut. pl.* p. 239, excl. syn. Rheed.—*Bambos arundinacea*, Retz.—*Arundo Bambos*, L. *sp.* p. 120, partly.—*Nastus arundinaceus*, Sm. in *Rees'. cycl.* excl. syn. Rheed.—*Arundarbor vasaria* s. Bulu Java. *Rumph.* 4, p. 8.) बँशी *Bansh.* 5 Mountains of India. FL. H. S. Use—the same as of the preceding species. In Mysore and S. Concan the seeds are gathered for food by the poorer classes. (*Buch.*)
2. *spinosa*, Roxb. (*fl. ind.* 2, p. 198;—*Schult. syst.* 8, p. 1342.—*Arundo arbor*, L. *zeyl.* p. 47.—A. *Bambos*, L. *spec. in Burm. ind.* p. 30.—Ily, *Rheed.* 1, t. 16.—*Arundarbor spinosa*, *Rumph.* 4, t. 2.) বেহুৰ বাঁশ *Behoor-bansh.* 5 Bengal, (Calcutta, Serampore,) &c. FL. June. Grows to a pretty large size, has a smaller cavity than any of the other bamboos, is strong, and consequently adapted for various purposes. (*Roxb.*)
3. *nana*, Roxb. (*fl. ind.* 2, p. 199.) 5 China. Was introduced into H. C. G. in 1794, but had not fl. up to 1814; makes beautiful close hedges. (*Roxb.*)
4. *gigantea*, Wall. (*Rep.*) L. 5 Burma. Has been cultivated for years in H. C. G. Fl. ?

* *Degraphis arundinacea*, Trin. (*Phalaris arundinacea*, L.; E. B. 6, t. 402.) 4. Europe.—*Anthoxanthum odoratum*, L.; E. B. 9, t. 647. 4. Europe.—*Panicum spectabile*, Nees. A gigantic, tender fodder-grass. Brazil.—*Setaria germanica*, Beauv. 5 S. Europe. Cultivated as food for horses in Germany and Hungary.—*Orthopogon hirtellus*, R. Br. 5 Cultivated as fodder in low and marshy lands of Jamaica.—*Ratzeburgia pulcherrima*, Kth. Wall. pl. as. rar. 3, p. 273. Burma.—*Lygeum Spartum*, L. 4. Spain, used for making ropes, baskets, nets, &c. *Alopecurus pratensis*, L.; E. B. 11, t. 759. 4. Europe. Excellent meadow-grass.—*A. geniculatus*, L.; E. B. 18, t. 1250. 4. Europe.—*Phleum pratense*, L.; E. B. 15, t. 1076. 4. Europe. Good meadow-grass.—*Anmophila arenaria*, Lk. *Arundo arenaria*, L.; E. B. 8, t. 520. 4. Europe. Used to fix shore-sands against winds and tides.—*Glyceria fluitans*, R. Br. (*Poa fluitans*, L.; E. B. 22, t. 1520.) 4. Europe. A floating grass, greedily eaten by horses and cattle.—*Hydrochloa aquatica*, Hartm. (*Poa aquatica*, L.; E. B. 19, t. 1315.) 4. Europe. A good pasture grass forming in England the chief winter's fodder.—*Poa abyssinica*, Ait. 5 Grown as a bread-corn in Abyssinia, and furnishes the *teff* bread, that made from wheat being used only by the superior ranks. The dough is allowed to turn sour, and by generating carbonic gas, answers instead of yeast, it is then baked into circular cakes, which are white, spongy, of a hot disagreeable sourish taste, but light of digestion. The same bread, well



toasted, and infused in water for some days, furnishes the *houz*, or common beer of the country. (*Loud.*)—*Elymus arenarius* L. ; E. B. 24, t. 1672. ♀. Europe. Prevents by its matted roots the shifting of loose sand thrown up by the tides.—*Lolium perenne*, L. ; E. B. 5, t. 315. Rye-grass ♀. © Europe. The annual sort well adapted for producing a bulky crop of hay—*Cenotheca lappacea*, Desv. Coromandel.—*Windsoria quinquefida*, Lindl. ♀. Pennsylvania. A very good fodder grass.

ORDER. CCLVII.—CYPERACEÆ. R. Br.—Lindl. Nat. Syst. p. 384.

THE SEDGE TRIBE.

“ Plants resembling much those of the last tribe in appearance, though essentially distinguished by many important points of structure. Found in marshes, ditches, and running streams, in meadows, and on heaths, in groves and forests, in the blowing sands of the sea-shore, on the tops of mountains, from the Arctic to the Antarctic circle, wherever phænogamous vegetation can exist. Humboldt remarks, that in Lapland Cyperaceæ are equal to Gramineæ, but that thence, from the temperate zone to the equator, in the northern hemisphere, the proportion of Cyperaceæ to Gramineæ very much diminishes. As we approach the line, the character of the order also changes. *Carex*, *Scirpus*, *Schæenus*, and their allies, cease to form the principal mass of the order, their room being usurped by *Cyperus*, *Kyllinga*, *Mariscus*, and the like genera, comparatively unknown in northern regions, or at least not forming any marked feature in the vegetation.” (*Lindl.*)

The number of Indian Cyperaceæ, by Nees von Esenbeck, described from Lindley's, Royle's, Wallich's, and Wight's Herbaria, amount to 233 species, including nearly all Roxburgh's, viz. 54 of *Cyperus* ; 5 of *Papyrus* ; 5 of *Mariscus* ; 5 of *Kyllinga* ; 1 of *Curtisia* ; 1 of *Remirea* ; 1 of *Anosperum* ; 1 of *Hemicarpha* ; 2 of *Lipocarpha* ; 1 of *Hypolytrum* ; 3 of *Fuirena* ; 1 of *Dichostylis* ; 4 of *Abildgaardia* ; 1 of *Chaetocyperus* ; 1 of *Echinolytrum* ; 21 of *Fimbristylis* ; 14 *Trichelostylis* ; 13 of *Isolepis* ; 1 of *Eleogiton* ; 1 of *Malacochate* ; 1 of *Hymenochate* ; 2 of *Eriophorum* ; 7 of *Scirpus* ; 2 of *Eleogenus* ; 3 of *Eleocharis* ; 5 of *Lamnochloa* ; 1 of *Rhynchospora* ; 1 of *Morisia* ; 1 of *Haplostylis* ; 2 of *Cephaloschoenus* ; 13 of *Scleria* ; 1 of *Cobresia* ; 1 of *Cylindropus* ; 2 of *Hypoporum* ; 1 of *Diplocrum* ; 1 of *Triplepis* ; 50 (52 Boott.) of *Carex* ; and 1 of *Uncinia*.—(*Contributions to Indian Botany*, by R. Wight. Lond. 1834, p. 69-129 incl.) Griffith's herbarium comprehends of Cyperaceæ, 80 species from Serampore ; 73 from Affghanistan ; 70 from Mergui ; 50 from Assam ; 30 from the Khassya Mountains ; 22 from the Mishmee Hills ; 20 from Bootan. How many among these may be new forms, we have had no means of ascertaining.



The Cyperaceæ, though so nearly allied to Panicaceæ, differ from them much in utility, inasmuch as the order contains but few plants, which are of any importance, and of these the value depends upon the presence of mucilage and fecula in the roots of a few species, accompanied in others with a little bitterness, and some aromatic principle. (*Royle.*)

A. CYPEREÆ, Nees.

(*Wight's contrib. p. 69.*)

CYPERUS, L. (*Nees in Wight's contrib. l. c.—Endl. gen. pl. 1, p. 119.*)

1. *pygmaeus*, Vahl. (*Röm. and Sch. 2, p. 174;—Rottb. gram. t. 14, f. 4, 5;—Wight's contrib. p. 72.—C. diffusus, Roxb. fl. ind. 1, p. 188; ed. Carey, 1, p. 193; not Vahl.—C. Mullen-pulu, Schult. mant. 2, p. 99.—C. squarrosus, Roxb. fl. ind. 1, p. 190; ed. Carey, 1, p. 194;—J. Grah. Cat. B. pl. p. 231; not Rottb.—Rheed. 12, t. 54.*) जलशुटी *Jalmootee*. © Peninsula of India. Ava. Bengal, (Serampore,) &c. Fl. and fr. R. S.
2. *pumilus*, L. (*Amoen. 4, p. 302, excl. syn. Pluk.;—Röm. and Sch. 2, p. 188; excl. all the syn. except that of L.—Wight's contrib. p. 74;—Roxb. fl. ind. 1, p. 196, and ed. Carey, 1, p. 200? excl. syn.—C. membranaceus, Vahl;—Röm. and Sch. l. c.*) © Peninsula of India. Bengal, (Serampore,) Fl. and fr. S. S.
3. *pulvinatus*, Nees and Mey. (*Wight's contrib. p. 74.—C. punctatus, Roxb. fl. ind. 1, p. 193; ed. Carey, 1, p. 197.—Pluk. t. 191, f. 3; not t. 192, f. 3.*) © Peninsula of India. Bengal, (Serampore,) Fl. and fr. R. S.
4. *sanguinolentus*, Vahl. (*Röm. and Sch. 2, p. 208;—Wight, contrib. p. 75.—C. pumilus, Gärtner fr. 1, p. 9, t. 2, f. 2, excl. syn.—C. cruentus, Roxb. fl. ind. 1, p. 196; ed. Carey, 1, p. 200; excl. syn. Rottb. and Willd.—Retz. obs. 5, p. 13;—J. Grah. Cat. B. pl. p. 231.—C. pumilus, Rottb. gram. p. 29, t. 9, f. 4, excl. syn. L.—C. ater, Vahl;—Röm. and Sch. 2, p. 190.—C. Eragrostis, Vahl. Röm. and Sch. 2, p. 190.*) © Nepal. Nathpur. Bengal, (Serampore,) The Concan. Fl. and fr. R. S.
5. *inundatus*, Roxb. (*fl. ind. 1, p. 201; ed. Carey, 1, p. 205;—Wight, contrib. p. 76.—J. Grah. Cat. B. pl. p. 231, excl. syn. Rheed.—C. procerus, Roxb. fl. ind. 1, p. 203; ed. Carey, 1, p. 206, not Roth.—C. Bacha, Buch.) पट्टी *Patee*. 4. Peninsula of India. Bengal. Fl. R. S.; fr. C. S. Found in great abundance on the low banks of the Hooghly and rivulets near Calcutta, (Serampore,) &c. Where the tide rises high over it, it thrives most luxuriantly, and helps much to bind, and protect the banks from the rapidity of the water. (*Roxb.*)*
6. *compressus*, L. (*Röm. and Sch. 2, p. 182;—Wight, contrib. p. 76;—Rottb. gram. p. 27, t. 9, f. 3;—Roxb. fl. ind. 1, p. 194; ed. Carey, 1, p. 198, excl. syn. Pluk.—J. Grah. Cat. B. pl. p. 231.—C. conglomeratus, Willd. en suppl. p. 5; not sp. pl.—Stoane jam. 1, t. 76, f. 1.—*

- Pluk. t. 417, f. 2.)* ६८] *Chooncha*. ☉ W. Indies. Peninsula of India. Bengal, (Serampore,) &c. Fl. and fr. R. S.
7. *niveus*, Retz. (*Röm. and Sch. 2, p. 169*;—*Wight. contrib. p. 78*;—*Roxb. fl. ind. 1, p. 191*; *ed. Carey, 1, p. 195.*) ☉ Bengal, (Serampore.) Midnapore. Monghir. Kemaon. Fl. R. S.; fr. C. S.
8. *aristatus*, Rottb. (*Gram. p. 23, t. 6, f. 1*;—*Röm. and Sch. 2, p. 221*;—*Wight. contrib. p. 78*;—*Roxb. fl. ind. 1, p. 190*; *ed. Carey, 1, p. 194.*—*Schult. mant. 2, p. 128.*) ☉ Peninsula of India. Bengal, (Serampore,) Fl. and fr. R. S.
9. *angustifolius*, Buch. (*Wight. contrib. p. 79.*) ☉ Bengal, (Serampore.) Fl. and fr. R. S.
10. *castaneus*, Willd. (*Röm. and Sch. 2, p. 177*;—*Wight. contrib. p. 79*;—*Roxb. fl. ind. 1, p. 195*; *ed. Carey, 1, p. 199.*) ☉ Peninsula of India. Bengal, (Serampore.) Fl. and fr. R. S.
11. *articulatus*, L. (*Wight. contrib. p. 80.*)
 a. (*C. articulatus, Vahl.—H. and Kth. nov. gen. and sp. p. 184.*)
 ♀ W. Indies. Peru. Guinea. Mauritius. Peninsula of India. Kamaon.
 β. *niloticus*, (*C. niloticus, Forsk.*;—*Röm. and Sch. 2, p. 164.*—*C. nudus, Roxb. fl. ind. 1, p. 187*; *ed. Carey, 1, p. 191.*—*C. gymnos, Röm. and Sch. mant. 2, p. 97.*) ♀ Peninsula of India. Bengal, (Serampore.) Fl. and fr. R. S.
12. *seminudus*, Roxb. (*fl. ind. 1, p. 187*; *ed. Carey, 1, p. 191*;—*Wight. contrib. p. 80.*—*C. Konigii, Vahl. en. 2, p. 302.*) গোল মেথী *Gol-methee*. ♀ Bengal, (Serampore.) Fl. and fr. R. S.
13. *hexastachyus*, Rottb. (*Wight. contrib. p. 81.*)
 a. *communis*, Nees. (*C. hexastachyus, Spreng.*;—*Rottb. gram. p. 28, t. 14, f. 2.*—*C. rotundus, L.*;—*Roxb. fl. ind. 1, p. 197*; *ed. Carey, 1, p. 201*;—*J. Grah. Cat. B. pl. p. 231*;—*R. Br. pr. p. 216*;—*Rumph. 6, t. 1, f. 1, and t. 1, f. 2.*) মুখ *Mootho*. ♀ Arabia. Ceylon. Peninsula of India. Bengal, (Serampore.) Kemaon. Java. China. Manilla. New Holland. Fl. and fr. R. S. *Roots* tuberous, sold in the bazars, and used by perfumers on account of their fragrance. Cattle eat the grass. Hogs are remarkably fond of the root. In medicine it is used as a tonic and stimulant, and has been employed in the treatment of cholera. (*Hardw.*)
 β. *pendulus*, Nees. (*Wight. contrib. p. 82.*—*C. tuberosus, Roxb. fl. ind. 1, p. 199*; *ed. Carey, 1, p. 203, excl. syn.*) ♀ Bengal, (Serampore,) &c. Fl. and fr. R. S.
14. *pertenuis*, Roxb. (*fl. ind. 1, p. 198*; *ed. Carey, 1, p. 202*;—*Wight. contrib. p. 83.*) নাগুর মুখী *Nagur-moothee*. ♀ Bengal, (Serampore.) Fl. and fr. R. S. *Roots* tuberous, aromatic, employed for perfuming the hair.
15. *exaltatus*, Retz. (*Wight. contrib. p. 34.*—*C. fastigiatus, Rottb. gram. p. 32, t. 7, f. 2*;—*Röm. and Sch. 2, p. 220.*—*C. alopecuroides, Roxb. fl. ind. 1, p. 208*; *ed. Carey, 1, p. 211, excl. syn.*; not Rottb.;—*J. Grah.*



- Cat. B. pl. p. 232, excl. syn.*) 4. Peninsula of India. Bengal, (Serampore.) Fl. and fr. R. S.
16. *Rosburghii*, Nees. (*Wight. contrib. p. 84*.—*C. elatus*, Roxb. *fl. ind. 1, p. 204*; *ed. Carey, 1, p. 207, excl. syn.*;—*J. Grah. Cat. B. pl. p. 232*.) গোল মলুঙ্গা *Got-molunga*. 4. Peninsula of India. Bengal, (Serampore.) Fl. R. S.; fr. C. S.
17. *racemosus*, Retz. (*Röm. and Sch. 2, p. 211*;—*Wight. contrib. p. 85*.—*C. digitatus*, Roxb. *fl. ind. 1, p. 205*; *ed. Carey, 1, p. 209*; not Royle.) 4. Peninsula of India. Penang, Bengal, (Serampore.) Fl. and fr. C. S.
18. *dubius*, Rottb. (*ic. p. 20, t. 4, f. 5*;—*Wight. contrib. p. 85*;—*Roxb. fl. ind. 1, p. 188*; *ed. Carey, 1, p. 192*;—*J. Grah. Cat. B. pl. p. 232*.—*C. kyllingoides Vahl*;—*Röm. and Sch. 2, p. 173*; *excl. syn. Pursh. Rumph. 6. t. 2, f. 1*.) ছোট গাথুরী *Chhoto-gothoobee*. 4. Peninsula of India. Bengal, (Serampore.) Fl. and fr. R. S.
19. *venustus*, R. Br. (*pr. 1, p. 217*;—*Wight. contrib. p. 86*.—*C. alopecuroides Kön.*; in *R. Br.—Rheed. 12, t. 42*.) 4. Peninsula of India. Bengal, (Serampore.) Java. New Holland. Fl. R. S.; fr. C. S.
20. *verticillatus*, Roxb. (*fl. ind. 1, p. 206*; *ed. Carey, 1, p. 209, excl. syn.*;—*Wight. contrib. p. 87*.) বুরীথী *Burethee*. 4. Peninsula of India. Bengal, (Serampore.) Nepal. Fl. and fr. R. S.
21. *Iria*, L. (*Wight. contrib. p. 87*;—*Roxb. fl. ind. 1, p. 201*; *ed. Carey, 1, p. 204*;—*J. Grah. Cat. B. pl. p. 232*.—*C. Santonici, Rottb. gram. p. 41, t. 9, f. 1*.—*Rheed. 12, t. 56*.) বড় চুঁচী *Buro-chhooncha*. 4. Peninsula of India. Bengal, (Serampore.) Nepal. Manilla. Macao. Fl. and fr. R. S.
22. *difformis*, L. (*Wight. contrib. p. 88*;—*Röm. and Sch. 2, p. 193*;—*Mant. 2, p. 110*.—*Rottb. gram. p. 24, t. 9, f. 2*;—*Roxb. fl. ind. 1, p. 195*; *ed. Carey, 1, p. 199*;—*J. Grah. Cat. B. pl. p. 232*.—*C. protractus, Del.*) বেছী *Behooa*. 6. Peninsula of India. Ceylon. Bengal, (Serampore.) New Holland. Mauritius. Egypt. Greece. Lombardy. Manilla. China. Fl. and fr. R. S.
23. *distans*, L. (*Wight. contrib. p. 88*;—*Jacq. ic. rar. 2, t. 299*;—*Röm. and Sch. 2, p. 216*;—*Roxb. fl. ind. 1, p. 207*; *ed. Carey, 1, p. 210*.—*J. Grah. Cat. B. pl. p. 232*.—*C. elatus, Rottb. gram. p. 37, t. 10*.—*C. laxus, Vahl*.—*Röm. and Sch. 2, p. 217*.) পানী মলুঙ্গা *Panee-Mulunga*. 4. Peninsula of India. Bengal, (Serampore.) St. Cruz. Benin. Fl. and fr. R. S.
- PAPYRUS, Lk. (*Nees in Wight. contrib. p. 69*;—*Endl. gen. pl. 1, p. 119*, under *Cyperus*.)
1. *Pangorei*, Nees. (*Wight. contrib. p. 88*.—*Cyperus Pangorei, Rottb. gram. p. 31, t. 7, f. 3*;—*J. Grah. Cat. B. pl. p. 232*; not Roxb.—*C. tegetum, Roxb. fl. ind. 1, p. 208*; *ed. Carey, 1, p. 211*.) মাদুর কাঠী *Madoor-katee*. 4. Peninsula of India. Bengal, (Serampore.) Fl. and fr. R. S. Those elegant, useful, durable, large mats so common

- on the floors of rooms in and about Calcutta, are made of the culm of this plant. When green, they are split into three or four pieces, which on drying contract so much as to bring the margins in contact, or to overlap each other. In this state they are wove. (*Roxb.*)
2. *tegetiformis*, Arn. (*Wight. contrib. p. 89, annot.*—*Cyperus tegetiformis*, *Roxb. H. B. p. 6.*—*C. nudus*, *Roxb. fl. ind. 1, p. 209*, not p. 187; *ed. Carey, 1, p. 212*, not p. 191; excl. the Bengallee name.) কুচকুচিয়া *Kuchkuchiya*. ♀. Bengal, (Serampore.) Fl. and fr. R. S.
 3. *dehiscens*, Nees. (*Wight. contrib. p. 89.*—*Cyperus corymbosus*, *Hb. Heyne*, partly, not *Rottb.*—*C. Pangorei*, *Roxb. fl. ind. 1, p. 202*; *ed. Carey, 1, p. 206*, excl. syn.) চামাটী পাটী *Chumatee-patee*. ♀. Peninsula of India. Bengal, (Serampore) Fl. R. S.; fr. C. S. Very common on the banks of the Hooghly, where it helps much to bind and protect the banks.
- MARISCUS, Vahl. (*Wight. contrib. p. 69*;—*Endl. gen. pl. 1, p. 119*, under *Cyperus*.)
1. *cyperinus*, Vahl. (*Wight. contrib. p. 90*;—*Röm. and Sch. 2, p. 298.*—*M. Sieberianus*, *Nees. in Sieb. herb. maurit. 2, n. 3*, partly.—*Kyllinga cyperina*, *Retz.*—*K. umbellata*, *Roxb. fl. ind. 1, p. 182*; *ed. Carey, 1, p. 186*, excl. syn. *L., Rottb.*, and *Vahl.*—*J. Grah. Cat. B. pl. p. 232.*—*Rheed. 12, t. 63.*) বড় গোথুৱী *Buro-gothoobee*. ♀. Peninsula of India. Bengal, (Serampore.) Mauritius. China. Ascension. Fl. and fr. R. S.
 2. *dilutus*, Nees. (*Wight. contrib. p. 90.*—*Cyperus dilutus*, *Vahl.*;—*Röm. and Sch. 2, p. 214.*—*C. compactus*, *Retz.*;—*Röm. and Sch. 2, p. 165.*—*C. congestus*, *Poir.*—*C. spinulosus*, *Roxb. fl. ind. 1, p. 203*; *ed. Carey, 1, p. 207.*) ♀. Both Peninsulas of India. Bengal, (Serampore.) Fl. and fr. R. S.
- KYLLINGA, L. (*Wight. contrib. p. 69*;—*Endl. gen. pl. 1, p. 119*, under *Cyperus*.)
1. *monocephala*, L. (*Wight. contrib. p. 91*;—*Röm. and Sch. 2, p. 236*;—*Roxb. fl. ind. 1, p. 180*; *ed. Carey, 1, p. 185*;—*Rottb. gram. p. 13, t. 4, f. 4*;—*J. Grah. Cat. B. pl. p. 232.*—*Thrycocepholon nemorale*, *Forst.*—*Rheed. 12, t. 53*;—*Rumph. 6, t. 8, f. 2.*) শ্বেত গোথুৱী *Shwet-gothoobee*. ♀. Both Peninsulas of India. Bengal, (Serampore.) Nepal. Moluccas. China. New Holland. Roots fragrant and aromatic. Fl. and fr. R. S.
 2. *triceps*, L. (*Wight. contrib. p. 91*;—*Rottb. gram. p. 14, t. 6*;—*Röm. and Sch. 2, p. 238*, with most syn.—*Roxb. fl. ind. 1, p. 181*; *ed. Carey, 1, p. 186*;—*J. Grah. Cat. B. pl. p. 232*;—*Rheed. 12, t. 52.*) ♀. Both Peninsulas of India. Bengal, (Serampore.) Fl. and fr. R. S.
- COURTOISIA, Nees. (*Wight. contrib. p. 69.*—*Endl. gen. pl. 1, p. 119*, under *Cyperus*.)
1. *cyperoides*, Nees. (*Wight. contrib. p. 92.*—*Kyllinga cyperoides*, *Roxb. fl. ind. 1, p. 182*; *ed. Carey, 1, p. 187*;—*J. Grah. Cat. B. pl. p. 232.*) ©? Peninsula of India. Has been introduced in H. C. G.?

*B. HYPOLYTREÆ*, Nees.

(Wight. contrib. p. 69.)

ANOSPORUM, Nees. (Wight. contrib. p. 70;—*Endl. gen. pl.* 1, p. 117.)

1. *monocephalum*, Nees. (Wight. contrib. 92.—*Cyperus* *monocephalus*, Roxb. fl. ind. 1, p. 188; ed. Carey, 1, p. 193;—*J. Grak. Cat. B. pl.* p. 232.) গোথুৰী *Gothoobee*. © Bengal, (Serampore.) Fl. and fr. R. S.

C. SCIRPEÆ, Nees.

(Wight. contrib. p. 70.)

ABILDGAARDIA, Vahl. (Wight. contrib. p. 70;—*Endl. gen. pl.* 1, p. 119, under *Cyperus*.)

1. *Rottbolkiana*, Nees. (Wight. contrib. p. 95.—*Cyperus* *monastachyus*, Rottb. gram. p. 18, t. 13, f. 3.—*Scirpus* *schoenoides*, Kön;—Roxb. fl. ind. 1, p. 221; ed. Carey, 1, p. 223, excl. syn. Retz.) মুড়মুড়ি *Moormoori*. © Bengal, (Serampore.) Peninsula of India. Fl. and fr. R. S.

FIMBRISTYLIS, Vahl. (Wight. contrib. p. 70;—*Endl. gen. pl.* 1, p. 117.)

1. *schoenoides*, Vahl. (Wight. contrib. p. 97;—*Röm. and Sch.* 2, p. 93.—*Scirpus* *bispicatus*, Kön;—Roxb. fl. ind. 1, p. 220; ed. Carey, 1, p. 223.) কেশুরী মলঙ্গা *Keshuree-mulunga*. © Peninsula of India. Bengal, (Serampore.) Fl. and fr. R. S.

2. *ferruginea*, Vahl. (Wight. contrib. p. 97.—*Scirpus* *tristachyos*, Roxb. fl. ind. 1, p. 221; ed. Carey, 1, p. 224; excl. syn.) © Bengal, (Serampore.) Fl. and fr. R. S.

3. *Royeniana*, Nees. (Wight. contrib. p. 99.)

β. *microstachya*, Nees. (o. c. p. 100.—*F. glauca*, Vahl.;—*Röm. and Sch.* 2, p. 96.—*Scirpus* *diphyllus*, Roxb. ? fl. ind. 1, p. 227; ed. Carey, 1, p. 230, excl. syn.) তালনরু *Talnuroo*. © Soonderbuns. Fl. and fr. R. S.

γ. *procumbens*, Nees. (o. c. p. 99.—*Scirpus* *miliaceus*, Roxb. fl. ind. 1, p. 227; ed. Carey, 1, p. 231, excl. syn.) © Bengal, (Serampore.) Fl. and fr. R. S.

4. *pallescens*, Nees. (Wight. contrib. p. 101.—*Scirpus* *dichotomus*, Rottb. gram. p. 57, t. 13, f. 1.—*S. dichotomus*, β. *villosus*, *Röm. and Sch.* 2, p. 95.—*S. bisumbellatus*, Forsk.—*S. pallescens*, Roxb. ? fl. ind. 1, p. 229; ed. Carey, 1, p. 233.) © Fl. and fr. R. S.

5. *estivalis*, Vahl. (Wight. contrib. p. 102;—*Röm. and Sch.* 2, p. 596.—*Scirpus* *estivalis*, Retz.—Roxb. fl. ind. 1, p. 227; ed. Carey, 1, p. 230, excl. observ. Wall.) © Bengal, (Serampore.) Peninsula of India. Ceylon. Nepal. Banks of the Irawaddy.

TRICHELOSTYLIS, Lestiboudois. (Wight. contrib. p. 70;—*Endl. gen. pl.* 1, p. 118, under *Fimbristylis*.)

1. *tenella*, Nees. (Wight. contrib. p. 103.—*Scirpus* *tenellus*, Roxb. fl. ind. 1, p. 225; ed. Carey, 1, p. 227.) © Bengal, (Serampore.) Peninsula of India. Fl. and fr. R. S.

2. *complanata*, Nees. (*Wight. contrib. l. c.*)
 - a. One leaf of the involucre equalling the umbel. (*Scirpus complanatus*, Vahl.;—*Röm. and Sch.* 2, p. 119; *mant.* 2, p. 56, under *Fimbristylis autumnalis*.)
 - β. One or other of the involucral leaves longer than the umbel. (*Fimbristylis complanata*, *Lk. hort. ber.* 1, p. 292, excl. most syn. *Isolepis Willdenowii*, *Röm. and Sch.* 2, p. 120.—*Scirpus anceps*, *Willd. bert. mag.* 2, p. 288. *t.* 8, *f.* 2.—*Cyperus complanatus*, *Willd.* excl. syn. *Retz.*)
 - γ. Involucre shorter than the umbel. (*Fimbristylis autumnalis*, var. *indica*, *Roth. nov. sp. pl.* 1, p. 26.—*Scirpus complanatus*, *Retz.*;—*Roxb. fl. ind.* 1, p. 226; *ed. Carey*, 1, p. 228, excl. syn. Vahl.;—*J. Grah. Cat. B. pl.* p. 233.—*Scirpus anceps*, *Roxb. fl. ind.* 1, p. 230; *ed. Carey*, 1, p. 234.) *করাটিয়া যবানী Kuratiya-yuvanee*. © Bengal, (Serampore.) Fl. and fr. R. S.
 3. *miliacea*, Nees. (*Wight. contrib. p.* 103.—*Fimbristylis miliacea*, Vahl.;—*Röm. and Sch.* 2, p. 93; *mant.* 2, p. 63, (excl. syn. *Roxb.*) and p. 475; *mant.* 3, p. 530.—*F. bengalensis*, *Röm. and Sch.* 2, p. 94; *mant.* 3, p. 530.—*Scirpus miliaceus*, *Rottb. gram.* p. 57, *t.* 5, *f.* 2;—*Burm. fl. ind. t.* 9, *f.* 2.—*Scirpus bengalensis*, *Pers.*—*S. tetragonus*, *Poir*;—*Röm. and Sch.* 2, p. 138;—*Roxb. fl. ind.* 1, p. 228; *ed. Carey*, 1, p. 232, partly;—*J. Grah. Cat. B. pl.* p. 233.) *বড় যবানী Buro-yuvanee*. © Bengal, (Serampore.) Fl. and fr. R. S.
 4. *tetragona*, Nees. (*Wight. contrib. p.* 104.—*Scirpus tetragonus*, *Roxb. fl. ind.* 1, p. 228; *ed. Carey*, 1, p. 232, partly.) © Bengal, (Serampore.) Fl. and fr. R. S.
 5. *quinquangularis*, Nees. (*Wight. contrib. p.* 104.—*Scirpus quinquangularis*, Vahl.;—*Röm. and Sch.* 2, p. 145;—*Roxb. fl. ind.* 1, p. 229; *ed. Carey*, 1, p. 233.) © Bengal, (Serampore.) Fl. and fr. R. S.
- ISOLEPIS, R. Br. (*Wight. contrib. p.* 70;—*Endl. gen. pl.* 1, p. 118.)
1. *squarrosa*, Vahl. (*En.* 2, p. 259;—*Wight. contrib. p.* 106;—*Röm. and Sch.* 2, p. 111.—*Scirpus squarrosus*, *L.*—*Rottb. gram.* p. 49, *t.* 1, *f.* 5;—*Roxb. fl. ind.* 1, p. 222; *ed. Carey*, 1, p. 224;—*J. Grah. Cat. B. pl.* p. 233.—*S. chinensis*, *Osb. iter.* p. 220;—*Rheed.* 12, *t.* 38.) *ছুই মূড়মুড়ি Chhoonchoo-moormoori*. © Bengal, (Serampore.) Fl. and fr. R. S.
 2. *setacea*, R. Br. (*pr.* p. 222;—*Wight. contrib. p.* 107.—*Scirpus setaceus*, *L.*;—*Sm. E. B.* 24, *t.* 1693;—*Host. gram. austr.* 3, p. 44, *t.* 65.) © Bengal, (Serampore.) Nepal. New Holland. Europe. Fl. and fr. C. S.
 3. *supina*, R. Br. (*o. c.* p. 221;—*Wight. contrib. p.* 107;—*Scirpus supinus*, *L.*;—*Schrad. fl. germ.* 1, p. 38, *t.* 1, *f.* 1;—*Host. gram. austr.* 3, *t.* 64;—*Roxb. fl. ind.* 1, p. 217; *ed. Carey*, 1, p. 119;—*S. lateralis*, *Retz. obs.* 4, p. 12, and 5, p. 16.) © Bengal, (Serampore.) &c. Nepal. New Holland. Europe. Fl. and fr. R. S.



4. *prolongata*, Nees. (*Wight. contrib. p. 108*;—*Scirpus prolongatus*, Poir.;—*Röm. and Sch. 2, p. 131*.—*S. subarticulatus*, Roxb. *fl. ind. 1, p. 215*; *ed. Carey, 1, p. 217*.) © Bengal, (Serampore.) Peninsula of India, Nepal, &c. Fl. and fr. R. S.
5. *articulata*, Nees. (*Wight. contrib. p. 108*.—*Scirpus articulatus*, L.;—*Rottb. gram. p. 45*;—*Roxb. fl. ind. 1, p. 214*; *ed. Carey, 1, p. 217*;—*J. Grah. Cat. B. pl. p. 233*.—*S. fistulosus*, Forst?) গুটপাটি চৈতক। *Putputi-chencika*. © Bengal, (Serampore.) &c. Fl. and fr. R. S.
6. *incurvata*, Nees. (*Wight. contrib. p. 108*;—*Scirpus incurvatus*, Roxb. *fl. ind. 1, p. 214*; *ed. Carey, 1, p. 216*.—*S. articulatus*, β . *tenuis*, Roth. *nov. pl. sp. p. 26*.) © Bengal, (Serampore.) Fl. and fr. R. S.
- HYMENOCHÆTE, Beauv. (*Wight. contrib. p. 71*;—*Endl. gen. pl. 1, p. 118*, under *Scirpus*.)
1. *grossa*, Nees. (*Wight. contrib. p. 110*;—*Scirpus grossus*, Retz.;—*Röm. and Sch. 2, p. 141*;—*Roxb. fl. ind. 1, p. 231*; *ed. Carey, 1, p. 236*;—*J. Grah. Cat. B. pl. p. 233*.) বড় কেশোয়ী। *Buro-keshooreya*. ৩. Bengal, (Serampore.) Fl. and fr. R. S.
- SCIRPUS, L. (*Wight. contrib. p. 71*;—*Endl. gen. pl. 1, p. 118*.)
1. *junciformis*, Nees. (*Wight. contrib. p. 112*;—*S. juncoides*, Roxb. *fl. ind. 1, p. 216*; *ed. Carey, 1, p. 218*.) © Bengal, (Serampore.) &c. Fl. and fr. R. S.
2. *Kysoor*, Roxb. (*fl. ind. 1, p. 230*; *ed. Carey, 1, p. 235*;—*J. Grah. Cat. B. pl. p. 133*.) কেশার। *Keshar*. ৩. Bengal, (Serampore.) &c. Fl. and fr. R. S.
- ELEOGENUS, Nees. (*Wight. contrib. p. 71*.—*Endl. gen. pl. 1, p. 118*, under *Scirpus*.)
1. *capitatus*, Nees. (*Wight. contrib. p. 112*.—*Eleocharis capitata*, R. Br. *pr. p. 225*;—*Röm. and Sch. 2, p. 153*.—*Scirpus capitatus*, Willd.;—*Humb. and Kth. nov. gen. and sp. pl. 1, p. 181*;—*Roxb. fl. ind. 1, p. 215*; *ed. Carey, 1, p. 218*.—*S. caribæus*, *Rottb. gram. p. 46, t. 15, f. 3*.) © Bengal, (Serampore.) Peninsula of India. New Holland. Rio Janeiro, &c. Fl. and fr. R. S.
- LIMNOCHLOA, Beauv. (*Wight. contrib. p. 71*;—*Endl. gen. pl. 1, p. 118*, under *Scirpus*.)
1. *plantaginea*, Nees. (*Wight. contrib. p. 114*.—*Scirpus plantagineus*, *Rottb. gram. p. 45, t. 15, f. 2*;—*Roxb. fl. ind. 1, p. 212*; *ed. Carey, 1, p. 214*.—*Eleocharis plantaginea*, *Röm. and Sch. 2, p. 150*.) চৈতক। *Chenchka*. ৩. Bengal, (Serampore.) Peninsula of India. Ceylon. Fl. and fr. R. S.
- β . *bulbifera*, Nees. (*Scirpus tuberosus*, Roxb. *fl. ind. 1, p. 210*; *ed. Carey, 1, p. 213*.) ৩. China. Fl. Sept., in H. C. G. (Roxb.) Root tuberous, eatable, both raw and boiled.
2. *tumida*, Nees. (*Wight. contrib. p. 114*.—*Scirpus tumidus*, Roxb. *fl. ind. 1, p. 212*; *ed. Carey, 1, p. 215*.) ৩. Bengal, (Serampore.) Peninsula of India. Fl. and fr. R. S.



3. *acutangula*, Nees. (*Wight. contrib. p.* 114.—*Scirpus acutangulus*, Roxb. *fl. ind.* 1, p. 213; *ed. Carey*, 1, p. 216.) 4. Bengal, (Serampore.) Peninsula of India. Fl. and fr. R. S.

D. SCLERIAÆ, Nees.

(*Wight. contrib. p.* 71.)

SCLERIA, Berg. (*Wight. contrib. l. c. and p.* 116;—*Endl. gen. pl.* 1, p. 112.)

1. *lithosperma*, Willd. (*Wight. contrib. p.* 117;—*Roxb. fl. ind.* 3, p. 574;—*J. Grah. Cat. B. pl.* p. 233.—*S. tenuis*, Retz. *obs.* 4, p. 13.—*Willd.*—*Scirpus lithospermus*, L.—*Rheed.* 12, t. 48.) 2. Bengal, (Serampore.) Peninsula of India. Ceylon. Fl. and fr. R. S.
2. *tessellata*, Willd. (*Wight. contrib. p.* 118.—*Scleria biflora*, Roxb. *fl. ind.* 3, p. 573.) 3. Bengal, (Serampore.) Peninsula of India. Ceylon. Nepal. Fl. and fr. R. S.

E. CARICEÆ, Nees.

(*Wight. contrib. p.* 72.)

CAREX, Mich. (*Wight. contrib. l. c. and p.* 119-20;—*Endl. gen. pl.* 1, p. 110.)

1. *cyperoides*, L. (*Spreng. syst.* 3, p. 808, No. 23.) 4. Siberia. Introduced in 1817.
2. *stellulata*, Gooden. (*Spreng. o. c. p.* 809, No. 45;—*E. B.* 12, t. 806.) 4. Europe. Introduced in 1817.
3. *foena*, Willd. (*Spreng. o. c. p.* 810, No. 49.) 4. N. America. Introduced in 1820.
4. *muricata*, L. (*Spreng. o. c. No.* 51;—*E. B.* 16, t. 1097.) 4. Europe. Introduced in 1817.
5. *ovalis*, Gooden. (*E. B.* 5, t. 306.) 4. Europe. Introduced in 1820.
6. *arenaria*, L. (*Spreng. syst.* 3, p. 812, No. 69;—*E. B.* 13, t. 928.) 4. Introduced in 1820.
7. *vilpina*, L. (*Spreng. o. c. p.* 813, No. 82;—*E. B.* 5, t. 307.) 4. Europe. Introduced in 1817.
8. *alpina*, Swz. (*Spreng. o. c. p.* 815, No. 112.) 4. Lapland. Introduced in 1820.
9. *Oderi*, Ehrh. (*Spreng. o. c. p.* 819, under *C. flava*.—*E. B.* 25, t. 1773.) 4. Europe. Introduced in 1817.
10. *pendula*, Gooden. (*Spreng. o. c. p.* 824, under *C. maxima*.—*E. B.* 33, t. 2315.) 4. Europe. Introduced in 1820.
11. *riparia*, Gooden. (*Spreng. o. c. p.* 828, No. 252;—*E. B.* 9, t. 579.) 4. Europe. Introduced in 1820.

* *Cyperus pleuranthus*, Nees. Coromandel.—*C. tortuosus*, Roxb. Circars.—*C. polystachyus*, Rottb. Peninsula of India. N. Holland, &c.—*C. alopecuroides*, Rottb. not Roxb. Himalayas.—*C. pectiniformis*, Röm. and Sch. Coromandel.—*C. Haspan*, Rottb. Peninsula of India, &c.—*C. bulbosus*, Vahl. Coromandel.—*C. tenuiflorus*, Rottb. (*C. incurvatus*, Roxb.) Peninsula of India.—*C. procerus*, Roth. (*C. tenuiflorus*



Roxb.) Peninsula of India.—*C. canescens*, Vahl. excl. syn. Rheed. Peninsula of India.—*Papyrus elatus*, Nees. Ceylon.—*Remirea Wightiana*, Wall. Peninsula of India.—*Hemicarpha Isolepis*, Nees. Peninsula of India.—*Lipocarpa levigata*, Nees. Peninsula of India.—*L. triceps*, Nees. Coromandel.—*Hypolytrum giganteum*, Wall. Both Peninsulas of India.—*Fuirena ciliaris*, Roxb. Coromandel, &c.—*F. pentagona*, W. and A. Peninsula of India.—*Dichostylis Micheliana*, Nees. Nepal. Asia Minor. South Europe.—*Abildgaardia tristachya*, Vahl. Peninsula of India.—*Chatocyperus Linnocharis*, Nees. Coromandel.—*Echinolytrum dipsaceum*, Desv. Peninsula of India.—*Fimbristylis argentea*, Vahl. Peninsula of India.—*Isolepis barbata*, R. Br. Peninsula of India. Nepal, &c.—*Eleogiton curvulus*, Nees. Peninsula of India.—*Malacochaete pectinata*, Nees. Peninsula of India.—*Eriophorum arundinaceum*, Wall. Penang.—*E. comosum*, Wall. Nepal.—*Rhynchospora chinensis*, Nees. and Meyen. China. Nepal.—*Morisia Wallichii*, Nees. Nepal.—*Haplostylis Meyenii*, Nees. China. Ceylon.—*Cephaloschoenus articulatus*, Nees. Peninsula of India.—*Hypoporum pergracile*, Nees. Silhet.—*Corbesia laxa*, Nees. Nepal.—*Trilepis Royleana*, Nees. Himalayas.—*Carex indica*, Willd. Nepal.—*Uncinia Nepalensis*, Nees. Himalayas.—*U. jamaicensis*, Pers. Jamaica.

ORDER CCLVIII.—DESVAXIACEÆ, Lindl. Nat. Syst. p. 386.

Small herbs, by Lindl. referred to 2 genera of 12 species, all natives of New Holland and Van Diemen's Land. Properties unknown.

- * *Desvauxa exserta*, R. Br. Tropical New Holland.—*D. Banksii*, R. Br. Tropical New Holland.—*D. pusilla*, R. Br. Tropical New Holland.

ORDER CCLIX.—RESTIACEÆ, R. Br.—Lindl. Nat. Syst. p. 386.

Herbs or undershrubs, by Nees von Essenbeck referred to 18, by Lindl. to 19 genera. Of these, according to R. Br., Harvey and Spreng., 60 species are natives of S. Africa; 47 of New Holland and Van Diemen's Land; 1 of S. America, (*Lyginia montividentis*, Spreng.); and 1 of Tranquebar. (*Restio articulatus*, Retz: Spreng.) The latter is not mentioned by either Roxb., Wall. or Royle. "Properties none, except that the tough wiry stems of some species are manufactured into baskets and brooms." (Lindl.) *Restio tectorum*, Thunb. is employed at the C. G. H., both in town and country, for thatching, and sometimes whole huts are



built of it. A roof thatched with it will last twenty or thirty years, and it is said would last much longer, if the S. E. wind did not blow dirt into it, which causes it to rot. It seems well worthy of introduction into India, where the thatch is of so perishable a nature." (Royle.) It has been introduced in Dapoozee, where it is much used for thatching houses. (Dr. Lush.)

ELEGIA, Thunb. (Endl. gen. pl. 1, p. 122.)

1. *juncea*, Thunb. (Spreng. syst. 1, p. 362.—*E. thyrsifera*, Pers. syn. 2, p. 607.—*Restio thyrsifer*, Rottb. enc. bot. 6, p. 177;—*Lam. ill. t. 804.*) 2. C. G. H. Fl. C. S. fr. 0.

WILDENOWIA, Thunb. (Endl. gen. pl. 1, p. 121.)

1. *teres*, Thunb. (Spreng. syst. 1, p. 188.—*Thunb. in act. holm.* 1790, p. 28, t. 2, f. 2;—*J. Grah. Cat. B. pl. p. 231.*) 2. C. G. H. Used for making brooms. Fl. C. S.; but rarely.

- * *Leptocarpus elatior*, R. Br. Tropical N. Holland.—*L. ramosus*, R. Br. Tropical New Holland.—*L. spathaceus*, R. Br. Tropical New Holland.—*Restio tropicus*, R. Br. Tropical New Holland.

SUB-ORDER.—ERIOCAULONEÆ, L. C. Rich., Lindl. Nat. Syst. p. 387.

Herbs, by Lindl. (excl. *Leucocephala*, Roxb.) referred to 3 or 5 genera. Of these, according to Spreng. syst. 14 are natives of S. America; 11 of New Holland; 5 of N. America; 1 of the Mascarenhas Islands; 1 of Madagascar; and 1 of Scotland. In the E. Indies have been discovered 19 species of *Eriocaulon*, 17 of which are described by Martius in Wall. pl. rar. 3, p. 27-29; (Bengal, Peninsula of India, Moulmein, Tavoy, Monghir, Assam, Khasya Mountains, Nepal); 1 (*E. quadrangulare*, Lour.) in Cochin China; and 1 (*E. Sollyanum*, Royle) in Cashmere. "Properties unknown." (Lindl.)

ERIOCAULON, Gronov. (Endl. gen. pl. 1, p. 123;—*Mart. l. c.*)

1. *quingangularis*, L. (*Mart. o. c. p. 28*;—*Röm. and Sch. 2, p. 862*;—*Burm. fl. ind. p. 30*;—*J. Grah. Cat. B. pl. p. 230*;—*Leucocephala graminifolia*, Roxb. fl. ind. 3, p. 612.) 3. Gooree, 3. Bengal, (Serampore.) Peninsula of India. Fl. and fr. R. S.
2. *sexangularis*, L. (*Mart. l. c.*;—*Burm. fl. ind. p. 30, t. 9, f. 4*;—*Röm. and Sch. 2, p. 863*;—*J. Grah. Cat. B. pl. p. 231*.—*E. minimum*, Lam.—*Leucocephala spathacea*, Roxb. fl. ind. 3, p. 613.) 3. Bengal, (Serampore.) Peninsula of India. Fl. and fr. R. S.
3. *argenteum*, Mart. (l. c.) 3. Bengal, (Serampore,) &c. Fl. and fr. R. S.
4. *setaceum* L. (*Mart. o. c. p. 29*;—*Röm. and Sch. 2, p. 863*;—*J. Grah. Cat. B. pl. p. 230*;—*Rheed. 12, t. 68.*) 3. Bengal, (Serampore.) Peninsula of India, Ceylon, &c. Fl. and fr. R. S.



5. *melaleucum*, Mart. ? (*o. c. p.* 29.) ⊙ Bengal, (Serampore.) Fl. and fr. R. S.

Besides these, 7 other species have been collected in the neighbourhood of Serampore, by the native gardeners attached to the garden. They have all flowered and seeded, but are as yet undetermined.

* *Eriocaulon pallidum*, R. Br. Tropical New Holland.—*E. fistulosum*, R. Br. Tropical New Holland.—*E. deustum*, R. Br. Tropical New Holland.—*E. Wallichianum*, Mart. (Wall. pl. as. rar. 3, t. 249.) Tavoy.—*E. Brownianum*, Mart. (Wall. pl. as. rar. 3, t. 248.) Silhet. Kandalla.—*E. cristatum*, Mart. Khassya Mountains.—*Tonina fluviatilis*, Aubl. Guiana.

ORDER CCLX.—XYRIDACEÆ, Lindl. Nat. Syst. p. 388.

Herbs, by Lindl. referred to two genera. Of these, R. Br., Harvey, and Spreng. enumerate 15 for New Holland and Van Diemen's Land, of which one also is common to India; 7 for S. America; 5 for N. America; 1 for Sierra Leona; 1 for S. Africa; and 1 for Madagascar. In the E. Indies, have been discovered 6 species of *Xyris*, 5 of which are described by Martius in Wall. pl. as. rar. 3, p. 29 and 30; and one (*X. anceps*, Lam.), according to Spreng. a native of Malabar. Properties unimportant.

XYRIS, L. (*Endl. gen. pl.* 1, p. 124;—*Mart. o. c. p.* 29.)

1. *indica*, L. (*Mart. o. c. p.* 30;—*Roxb. fl. ind.* 1, p. 179; *ed. Carey*, 1, p. 183;—*J. Grab. Cat. B. pl.* p. 223;—*Rheed.* 9, t. 71.) दाबीदूबी *Dabee-doobee*. ⊙ Bengal, (Serampore.) S. Concan. Coromandel. Fl. Nov. and Dec.; fr. January and Feb. "The natives of Bengal esteem it a plant of great value, because they think it an easy, speedy, and certain cure for the troublesome eruption called ring-worms." (*Hon'ble. John Hyde in a letter to Roxb.*) "This accords with what Rheed. says of it, vol. 9, p. 139. Foliorum succus cum aceto mixtus impetigini resistit. Folia cum radice oleo incocta, contra lepram sumuntur." (*Roxb.*)

* *Xyris pauciflora*, Willd. 4. Both Peninsulas of India. Silhet. Nepal. Tropical New Holland.—*X. schoenoides*, Mart. Nepal.—*X. lappacea*, Heyne. Coromandel.—*X. robusta*, Mart. Silhet.—*X. complanata*, R. Br. Tropical New Holland.—*X. scabra*, R. Br. Tropical New Holland.—*X. laevis*, R. Br. Tropical New Holland.—*X. denticulata*, R. Br. Tropical New Holland.—*Abolboda pulchella*, Humb. Banks of the Orinocco.—*A. imberbis*, Humb. Guiana.



CSL

392 RAFFLESACEÆ—CYTINACEÆ—BALANOPHORACEÆ—CYNOMORIACEÆ.

CLASS 4TH.

RHIZANTHÆ.

Lindl. Nat. Syst. p. 389.

ORDER CCLXI.—RAFFLESACEÆ, Endl.;—Lindl. Nat. Syst. p. 392.

Stemless parasitical plants, by Lindl. referred to 4 genera; "natives of the E. Indies, and probably all astringent." (*Endl.*)

ORDER CCLXII.—CYTINACEÆ, Lindl. Nat. Syst. p. 392.

Parasitical herbaceous plants, by Lindl. referred to 5 genera. Of these, Spreng. enumerates 3 species from S. Africa; 1 from S. Europe. *Apodanthes*, Poit. is probably a native of Guiana. Properties unimportant.

ORDER CCLXIII.—BALANOPHORACEÆ, Lindl. Nat. Syst.

Leafless parasitical plants, by Lindl. referred to 4 genera. Of these, Spreng. enumerates 3 species for S. America and the W. Indies, and 1 for the New Hebrides. In the E. Indies, according to Wall. Cat., have been discovered 4 species of *Balanophora*, viz. *B. dioica*, R. Br. (*B. elongata*, Bl. ?) Nepal, Java?; *B. indica*, Wall. Peninsula of India; *B. typhina*, Wall. Prome. Taong-Dong, and *B. gigantea*, Wall. which, perhaps, may form a new genus, *Sarcocordylis*, Wall. Taong-Dong. "Properties unknown." (*Lindl.*)

ORDER CCLXIV.—CYNOMORIACEÆ, Lindl. Nat. Syst. p. 394.

Leafless parasitical plants, by Lindl. referred to 3 genera. Properties unimportant.



CLASS 5TH.

ACROGENÆ.

Lindl. Nat. Syst. p. 395, or Flowerless Plants.

A. FILICALES, Lindl. Nat. Syst. p. 397.—Filices of others.

THE FERN FAMILY.

Leafy plants, producing a rhizoma, which creeps below or upon the surface of the earth, or rises into the air like the trunk of a tree. (Lindl.) They differ much from all living plants, and come nearest to the flowering classes by Cycadaceæ. They prevail chiefly where there is a certain degree of moisture; hence they are abundant in insular situations, in the forests of tropical countries, as well as on the mountains of northern latitudes. In the E. Indies they have been found in the greatest abundance in the Malayan Peninsula, the Khassya Mountains, the Mishmee Hills, Bootan, Nepal, the Himalayas, Mergui, and the west coast of the Peninsula of India. In Royle's collection there are about 80 species, obtained mostly from the tract of the Himalayas, between the Ganges and Sutlej rivers, and only 1 species from the plains of India, that is *Asplenium radiatum*, Sws., which is found at Saharunpore and Delhi. The only other fern Royle found in the plains was *Cheilanthes farinosa*, Kaulf; but even this only near the Rajmahl hills, where there are also a few other species. About Serampore have been discovered only 20 species, growing in ditches, on old walls, trees, &c. although moisture here is considerable throughout the greater part of the year. Wall. Cat. excluding exotics, contains about 430 species, viz. 22 of *Acrostichum*; 95 of *Polypodium*; 2 of *Hemionitis*; 12 of *Grammitis*; 2 of *Antrophyum*; 5 of *Meniscium*; 2 of *Tenitis*; 3 of *Notholena*; 1 of *Matonia*; 62 of *Aspidium*, 58 of *Asplenium*; 1 of *Allantodia*; 34 of *Pteris*; 7 of *Cheilanthes*; 1 of *Cryptogramma*; 18 of *Lindsea*; 3 of *Vittaria*; 9 of *Adiantum*; 1 of *Woodwardia*; 2 of *Blechnum*; 8 of *Lomaria*; 3 of *Cyathea*; 1 of *Sphaeropteris*; 9 of *Alsophila*; 3 of *Dicksonia*; 30 of *Davallia*; 3 of *Gleichenia*; 1 of *Ceratopteris*; 8 of *Hymenophyllum*; 5 of *Trichomanes*; 3 of *Osmunda*; 1 of *Angiopteris*; 1 of *Schizæa*; 7 of *Lygodium*; 1 of *Ophioglossum*; 1 of *Helminthostachys*; 2 of *Botrychium*; 1 of *Actinostachys*; and 2 of *Arthrobotrys*.—Many of these are natives of the Indian Archipelago, but by far the greater part have been collected on the Malayan Peninsula, the Khassya Mountains, Nepal, and the Himalayas.

The properties of the fern-family are upon the whole unimportant.

Lindley thinking it not inexpedient to consider ferns as a collection of genera equivalent to the alliances of Flowering Plants, has divided them into the following natural orders: *Polypodiaceæ*, *Gleicheniaceæ*, *Osmundaceæ*, *Danæaceæ*, and *Ophioglossaceæ*.

ORDER CCLXV.—POLYPODIACEÆ, R. Br.—Lindl. Nat. Syst. p. 400.

ACROSTICHUM, L. (*Endl. gen. pl.* 1, p. 59.)

1. *emarginatum*, Roxb. (*H. B.* p. 75.) ♀. Bengal. Introduced into H. C. G. in 1796. Fl. ? (*Roxb.*)

POLYPODIUM, L. (*Endl. gen. pl.* 1, p. 60.)

1. *pertusum*, Roxb. (*H. B.* p. 75.—*Niphobolus pertusus*, *Spreng. syst.* 4, p. 44.) ♀. Soonderbuns. Fl. R. S.
2. *glabrum*, Roxb. (*H. B.* p. 75.) চিতুয়া বোড়া *Chitooa-bora*, ♀. Paras. Bengal. (Serampore.) Fl. R. S.
3. *quercifolium*, L. (*Spreng. syst.* 4, p. 49;—*R. Br. pr.* p. 147;—*Roxb. H. B.* p. 75;—*J. Grah. Cat. B. pl.* p. 241;—*Rheed.* 12, t. 11;—*Rumph.* 6, t. 36.) গুরুড় *Guroor*, ♀. Paras. Bengal. (Serampore.) Peninsula of India. Moluccas. New Holland, &c. Fl. R. S.
4. *proliferum*, Roxb. (*H. B.* (1814,) p. 75; not Kaulf.) দাপু *Dapoo*, ♀. Bengal. (Serampore.) Khassya Mountains. Oude. Nepal. Fl. R. S.
5. *excavatum*, Roxb. (*H. B.* (1814,) p. 75; not Bory.—*Rumph.* 6, t. 35, f. 1.) ♀. Moluccas. (*Roxb.*) Fl. ?
6. *semisagittatum*, Roxb. (*H. B.* p. 75.) ♀. Soonderbuns. Has been introduced into H. C. G. (*Roxb.*) Fl. ?
7. *mucronatum*, Roxb. (*H. B.* 75.) ♀. Silhet. Introduced into H. C. G. in 1811. (*Roxb.*) Fl. ?
8. *lucidum*, Roxb. (*H. B.* p. 75.) ♀. Nepal. Introduced into H. C. G. by Buch. (*Roxb.*) Fl. ?
9. *tenerum*, Roxb. (*H. B.* p. 75.) ♀. Silhet. Introduced into H. C. G. in 1811. (*Roxb.*) Fl. ?
10. *Phyllitidis*, L. (*Spreng. syst.* 4, p. 47;—*Roxb. H. B.* p. 75.) ♀. Chittagong. Introduced into H. C. G. by Buch. (*Roxb.*) Fl. ?
11. *sophoroides*, Roxb. (*H. B.* p. 75.) ♀. Moluccas. Introduced into H. C. G. in 1798. Fl. R. S. (*Roxb.*)

HEMIONITIS, L. (*Endl. gen. pl.* 1, p. 59.)

1. *cordifolia*, Roxb. (*H. B.* p. 75.—*H. cordata*, *Hook. and Grev. ic. filic.* 1, t. 64.) চাকুলিয়া *Chakoolya*, ♀. Bengal. (Serampore.) Rangoon. Fl. R. S.

NOTHOLENA, R. Br. (*Endl. gen. pl.* 1, p. 60.)

1. *piloselloides*, Kaulf. (*Spreng. syst.* 4, p. 42.—*Pteris piloselloides*, L.;—*Roxb. H. B.* p. 75;—*Rheed.* 12, t. 29.) ♀. Paras. Bengal. (Serampore.) Chittagong. Penang. Singapore. Tenasserim. Khassya Mountains. Courtallum. Fl. R. S.

ASPIDIUM, L. (*Endl. gen. pl.* 1, p. 62.)

1. *unitum*, Swz. (*Spreng. syst.* 4, p. 103, excl. syn.—*Polypodium unitum*, *Roxb. H. B.* p. 75.) পানকাকুল *Pankakool*, ♀. Bengal. (Serampore.) Fl. R. S.
2. *flagelliferum*, Wall. (*Cat.*—*Polypodium flagelliferum*, *Roxb. H. B.* p. 75.) ♀. Bengal. Fl. R. S.

ASPLENIUM, L. (*Endl. gen. pl. 1, p. 61.*)

1. *Nidus*, L. (*Spreng. syst. 4, p. 80*;—*R. Br. pr. p. 150*;—*Roxb. H. B. p. 75*;—*B. M. 58, t. 3101.*) ♀. Paras. Amboyna. Introduced into H. C. G. in 1798. (*Roxb.*) Fl. ?
2. *bipinnatum*, Roxb. (*H. B. p. 75.*) ♂ Introduced into H. C. G. in 1798. (*Roxb.*) Fl. ?

PTERIS, L. (*Endl. gen. pl. 1, p. 61.*)

1. *graminifolia*, Roxb. (*H. B. p. 75.*) ♀. Paras. Silhet. Introduced into H. C. G. in 1811. (*Roxb.*) Fl. ?
2. *angustifolia*, Swz. (*Roxb. H. B. p. 75.*)—*Tænitis angustifolia*, *Spreng. syst. 4, p. 42.* ♀. Paras. Soonderbuns. Introduced into H. C. G. in 1796. Fl. R. S. (*Roxb.*)
3. *vittata*, L. (*Spreng. syst. 4, p. 71*;—*Roxb. H. B. p. 75.*) ♀. Soonderbuns. Introduced into H. C. G. in 1795. Fl. R. S. (*Roxb.*)
4. *amplectens*, Wall. (*Cat.*—*P. amplexicaulis*, *Roxb. H. B. p. 75.*) ♀. Bengal. Banks of the Irawaddi. Mountains of Ava. Fl. R. S. (*Roxb.*)
5. *dimidiata*, Willd. (*Spreng. syst. 4, p. 73*;—*Roxb. H. B. p. 75.*) ♀. Silhet. Introduced into H. C. G. in 1811. Fl. R. S. (*Roxb.*)
6. *esculenta*, Forst. (*Spreng. syst. 4, p. 77*;—*R. Br. pr. p. 154*;—*Roxb. H. B. p. 75.*) ♀. New Holland. Van Diemen's Land. Introduced into H. C. G. in 1811. (*Roxb.*) Fl. ?

CHEILANTHERA, SWZ. (*Endl. gen. pl. 1, p. 60.*)

1. *farinosa*, Kaulf. (*Hook. and Grev. ic. filic. 2, t. 134.*—*C. dealbata*, Don, not Pursh.) ♀. Khassya Mountains. Fl. C. S.

LINDSAYA, Sm. (*Endl. gen. pl. 1, p. 62.*)

1. *odorata*, Roxb. (*H. B. p. 76.*) ♀. Garrow Hills. Fl. R. S. (*Roxb.*)

ADIANTUM, L. (*Endl. gen. pl. 1, p. 61.*)

1. *lunulatum*, N. L. Burm. (*Spreng. syst. 4, p. 110*;—*Hook. and Grev. 1, t. 104*;—*J. Grah. Cat. B. pl. p. 242.*—*Pteris lunulata*, Retz.;—*Roxb. H. B. p. 75*;—*Rheed. 12, t. 40.*) काली बाँध *Kalee-jhamp.* ♀. Bengal, (old walls about Serampore.) Peninsula of India. Nepal. Java. Philippines. Mexico. Brazil. Fl. C. S.
2. *caudatum*, L. (*Spreng. syst. 4, p. 111*;—*Roxb. H. B. p. 76.*) ♀. E. Indies. Introduced into H. C. G. by H. T. Colebrooke. (*Roxb.*) Fl. ?

LOMARIA, Willd. (*Endl. gen. pl. 1, p. 61.*)

1. *scandens*, Willd. (*Spreng. syst. 4, p. 64*;—*J. Grah. Cat. B. pl. p. 241*, excl. syn. Rumph and Burm.—*Pteris scandens*, *Roxb. H. B. p. 75.*) ♀. Both Peninsulas of India. Khassya Mountains. Moluccas. Fl. R. S. (*Roxb.*)

SPHEROPTERIS, Bernh. (*Endl. gen. pl. 1, p. 63.*)

1. *barbata*, Wall. (*pl. as. rar. 1, t. 48.*) ♀. Nepal. Has been introduced into H. C. G. ?

DAYALLIA, Sm. (*Endl. gen. pl. 1, p. 63.*)

1. *parallela*, Wall. (*Cat.*—*D. multiflora*, *Roxb. H. B. p. 75.*) ♀. Bengal, (Serampore.) Fl. R. S.



- 2 *pilosa*, Roxb. (*H. B. p. 75.*) ♀ Bengal. Has been introduced into H. C. G. (*Roxb.*) Fl. ?
3 *angustifolia*, Roxb. (*H. B. p. 75.*) ♀, New South Wales. Has been introduced into H. C. G. (*Roxb.*) Fl. ?

* *Acrostichum flagelliferum*, Wall. (Hook. and Grev. 1, t. 23.—Rheed. 12, t. 19.) Khassya Mountains. Chappedong, Peninsula of India.—*A. aureum*, L. Penang. Singapore. Æstuaries of the Hooghly.—*Polypodium Horsfieldii*, R. Br. Mountains of Penang.—*P. tridactylum*, Wall. Khassya Mountains.—*P. Wallichii*, R. Br. (Hook. and Grev. 2, t. 168-9.—*Hemionitis hastata*, R. Br. Courtallum.—*Antrophyum reticulatum*, Kaulf. Penang.—*Meniscium triphyllum*, Swz. Khassya Mountains. Singapore.—*Tenitis blechnoides*, Swz. Penang. Tavoy.—*Aspidium alatum*, Wall. (Hook. and Grev. 2, t. 84.) Khassya Mountains.—*A. coadunatum*, Wall. (Hook. and Grev. 2, t. 202.) Khassya Mountains.—*Asplenium multicaule*, Wall. Khassya Mountains.—*A. fraxinifolium*, Wall. Penang.—*Allantodia Brunoniana*, Wall. pl. as. rar. 1, t. 52. Mahableshwur.—*Pteris semipinnata*, L. Khassya Mountains.—*P. longifolia*, L. Banks of the Irawaddi.—*Cheilanthes micrantha*, Wall. Khassya Mountains.—*Vittaria elongata*, Swz. Soonderbuns.—*Blechnum orientale*, L. Singapore.—*Davallia tenuifolia*, Swz. Khassya Mountains.—*D. pedata*, Sm. Khassya Mountains.

ORDER CCLXVI.—GLEICHENIACEÆ, Lindl. Nat. Syst. p. 401.

CERATOPTERIS, Brongn. (*Endl. gen. pl. 1, p. 64.*)

1. *C. thalictroides*, Brongn. (*Pteris succulenta*, Roxb. *H. H. p. 75.*) ♀ Bengal. Fl. R. S. (*Roxb.*)

* *Gleichenia Hermannii*, R. Br. (Hook. and Grev. 1, t. 14.—Rumph. 6, t. 38.) ♀ Ceylon. Nepal. New Holland. Khassya Mountains, &c.—*Hymenophyllum serpens*, Wall. Khassya Mountains.—*Trichomanes rigidum*, Wall. Singapore.

ORDER CCLXVII.—OSMUNDACEÆ, R. Br.—Lindl. Nat. Syst. p. 402.

LYGODIUM, Swz. (*Endl. gen. pl. 1, p. 65.*)

1. *microphyllum*, R. Br. (*pr. p. 162*;—*Ugena microphylla*, Cav. *ic. 6, p. 76, t. 595, f. 2.*) ♀ Khassya Mountains. Fl. R. S.



2. *circinatum*, Swz. (*Spreng. syst.* 4, p. 29;—*Rumph.* 6, t. 33.) ৩. ৷ Khassya Mountains. Fl. C. S.
3. *flexuosum*, Swz. (*Spreng. syst.* 4, p. 29;—*J. Grah. Cat. B. pl.* p. 242.—*Ophioglossum flexuosum*, L.;—*Roxb. H. B.* p. 75;—*Rheed.* 12, t. 32.) ঝুঁকুড়া *Bhootraj*. ৩. ৷ Bengal, (Serampore.) Peninsula of India. Fl. R. S.
4. *longifolium*, Swz. (Khassya Mountains.)

* *Lygodium pinnatifidum*, Swz. ৩. ৷ The Ghauts and Concans. Mahableshwur.—*L. dichotomum*, Swz. Penang. Singapore.—*L. japonicum*, Swz. Khassya Mountains, &c.—*Schizaea dichotoma*, Swz. Singapore.

ORDER CCLXVIII.—DANÆACEÆ, Agardh.;—Lindl. Nat. Syst. p. 402.

- * *Danæa alata*, Sm. W. Indies.—*D. nodosa*, Sm. W. Indies.—*D. simplicifolia*, Rudg. Guiana.—*Marattia alata*, Sm. Jamaica.—*M. fraxinea*, Sm. Mauritius.—*Kaulfussia assamica*, Griff. Upper Assam.

ORDER CCLXIX.—OPHIOGLOSSACEÆ, Lindl. Nat. Syst. p. 402.

OPHIOGLOSSUM, L. (*Endl. gen. pl.* 1, p. 66.)

1. *reticulatum*, L. (*Sp. pl.* p. 1518;—*Spreng. syst.* 4, p. 22;—*Hook and Grev.* 1, t. 20.—*O. cordatum* and *reticulatum*, *Plum. fil.* p. 141, t. 164.—*O. cordifolium*, *Roxb. H. B.* p. 75.) ঝুঁকুড়া *Ekteer*, ৩. Bengal, (Serampore.) Mauritius. Bourbon. St. Domingo. Jamaica. Guiana. Fl. R. S.
2. *filiforme*, Roxb. (*H. B.* p. 75;—*Rheed.* 12, t. 34.) ৩. ৷ Bengal. Peninsula of India. (Serampore.) Fl. R. S.
3. *pendulum*, L. (*Spreng. syst.* 4, p. 22;—*J. Grah. Cat. B. pl.* p. 243;—*Hook. and Grev.* 1, t. 19;—*Rumph.* 6, t. 37, f. 3.) ৩. Paras. Moluccas. Mauritius. Khassya Mountains. Fl. R. S.

HELMINTHOSTACHYS, Kaulf. (*Endl. gen. pl.* 1, p. 66.)

1. *laciniata*, (H. dulcis, Kaulf.;—*Spreng. syst.* 4, p. 22.—*Ophioglossum laciniatum*, *Rumph.* 6, t. 68, f. 3.—*Botrychium ceilanicum*, Swz.;—*J. Grah. Cat. B. pl.* p. 243.—*Osmunda ceilanica*, L.;—*Roxb. H. B.* p. 75.) ঝুঁকুড়া *Ekteer*, ৩. Bengal, (Serampore.) Peninsula of India. Moluccas. Fl. R. S.

Ophioglossum moluccanum, Schlecht. (*Hook. and Grev.* p. 45.—*Rumph.* 6, t. 68, f. 2.) Moluccas. Mauritius. Peninsula of India.



B. Lycopodales, Lindl. Nat. Syst. p. 402.

ORDER CCLXX.—LYCOPODIACEÆ, DC. :—Lindl. Nat. Syst.
p. 403.

THE CLUB-MOSS TRIBE.

Usually moss-like plants, with creeping stems and imbricated leaves, or stemless plants, with erect subulate leaves, and a solid cormus. (*Lindl.*) They are most abundant in damp hot situations in the tropics, but are also natives of even the north of Europe, where whole tracts are found covered with *Lycopodium alpinum* and *selaginoides*, L. The genera usually included in the order are *Lycopodium*, *Psilotum*, and *Isoetes*. Of the first of these, Wall. Cat. enumerates 30 species, chiefly discovered in Nepal, the Khassya Mountains, the Neelgherries, Courtallum, Penang, and Singapore; of the second, 2 (Nepal, Singapore); and of the third, only 1, (Peninsula of India.)

The thecæ of *Lycopodium* contain an inodorous powder, which is used externally to cover excoriations, especially of new-born children. The powder is very inflammable, and used in fireworks. A decoction of *L. clavatum* and *L. Selago*, L. excites vomiting. The latter is prescribed in Russia as a purgative and emetic, but only in small doses, as it otherwise brings on convulsions.

LYCOPODIUM, L. (*Endl. gen. pl. 1, p. 69.*)

1. *Hookeri*, Wall. (*Hook. and Grev. 2, t. 85.*) ♀. Nepal. Fl. R. S.
2. *Wildenowii*, Desv. (*Spreng. syst. 4, p. 19.*—*L. plumosum, Roxb. H. B. p. 75*; not L.) ♀. Paras. Penang. Fl. R. S.
3. *cernuum*, L. (*Spreng. syst. 4, p. 15*;—*J. Grak. Cat. B. pl. p. 243*;—*excl. syn.*) ♀. Penang. Singapore. Concan. Khassya Mountains. Fl. R. S.
4. *Phlegmaria*, L. (*Spreng. syst. 4, p. 12*;—*Roxb. H. B. p. 75*;—*J. Grak. Cat. B. pl. p. 243*;—*Rheed. 12, t. 14*;—*Rumph. 6, t. 41, f. 1.*)
সীতাহার Seetahar. ♀. Paras. Bengal, (Serampore.) Soonderbuns. Penang. Singapore. Khassya Mountains. The Ghauts. S. Concan. Fl. R. S.
5. *imbricatum*, Roxb. (*H. B. p. 75.*) হাতাজোড়া Hatajora. ♀. Bengal, (Serampore.) Fl. R. S.
6. *aristatum*, Roxb. (*H. B. (1814.) p. 75*; not Humb.—*Dill. musc. t. 66, f. 7.*) ♀. Paras. China. Introduced in H. C. G. in 1812. (*Roxb.*) Fl. ?

ISOETES, L. (*Endl. gen. pl. 1, p. 69.*)

1. *capsularis*, Roxb. (*H. B. p. 75.*) ♀. Bengal, (Serampore.) Fl. C. S.
Is this identical with *I. coromandelina*, L., and *I. indica*, Hb. Russ. ?

* *Lycopodium canaliculatum*, L. The Concan.—*L. complanatum*, L. Courtallum. Dindygul.—*L. ornithopodioides*, L. Courtallum.—*L. palidum*, Hook and Grev. Courtallum.—*L. circinnale*, L. Behar.—*L.*



tenellum, Desv. Mussooree. Khassya Mountains.—*L. subulifolium*, Hook. and Grev. Nepal.—*L. pulcherrimum*, Hook. and Grev. Nepal.—*L. serratum*, Thunb. Nepal.—*L. Hamiltonii*, Spreng. (*L. obtusifolium*, Buch.) Nepal.—*Psilotum triquetrum*, Swz. Mauritius. Nepal.—*Isoetes lacustris*, L.; E. B. 16, t. 1084. Europe.

ORDER CCLXXI.—MARSILEACEÆ, R. Br.;—Lindl. Nat. Syst.
p. 404.

THE PEPPERWORT TRIBE.

Creeping plants, by Lindl. referred to 2 genera, both of which are inhabitants of ditches or inundated places, in various parts of the world. They do not appear to be affected by climate so much as by situation, whence they have been detected in various parts of Europe, Asia, Africa, America and New Holland, chiefly, however, in temperate latitudes. Properties unknown. (Lindl.) One of the genera, *Pilularia*, contains but a single species: *P. globulifera*, L.; E. B. 8, t. 521. The other, *Marsilea*, has several representatives. In India there appear, according to Royle, to be three distinct species: *M. aegyptiaca*, Willd., which is found in the Peninsula of India, as well as in Egypt, and which appears to be *M. erosa*, Willd.;—*M. coromandelina*, N. L. Burm.; (*M. minuta*, Lam.) a species apparently peculiar to the most southern part of the Indian Peninsula; and

MARSILEA, L. (*Endl. gen. pl.* 1, p. 68.)

1. *quadrifolia*, L. (*Spreng. syst.* 4, p. 8;—*Roxb. H. B.* p. 75;—*J. Grah. Cat. B. pl.* p. 243.) সুবর্ণি শাক *Soosni-shak*. 4. Europe. N. Africa. Mascarenhas Islands. New Holland. Bengal, (Serampore.) Peninsula of India. Fl. C. S.

- * *M. hirsuta*, R. Br. Tropical New Holland.—*M. biloba*, Willd. S. Africa.

ORDER CCLXXII.—SALVINIACEÆ, Bartl.;—Lindl. Nat. Syst.
p. 405.

Floating plants with rooting stems, by Lindl. referred to 2 genera. Of *Azolla*, 1 species has been found in S. America, down even to the Straits of Magellan; 1 in Portorico; 1 in Carolina and Canada; 2 in New Holland and Van Diemen's Land, and 1 to the eastward of Bengal, and in Behar. The latter, according to Royle, appears to be nearly allied to, if not identical with, *A. pinnata*, R. Br. The second genus, *Salvinia*, has



CSL

SALVINIACEÆ—BRYACEÆ.

1 species in Europe and N. America; 2 in S. America; 1 in Cuba; and 4 in the E. Indies, one of which is also common to Europe and N. America.

SALVINIA, Mich. (*Endl. gen. pl.* 1, p. 67.)

1. *imbricata*, Roxb. (*H. B. p.* 75.) পাণা *Pana*. © Bengal. In H. C. G. fl. R. S. (*Roxb.*)

2. *cucullata*, Roxb. (*l. c.*) ইন্দুর কানী পাণা *Indoor-kanee-pana*. © Bengal, (Calcutta.) In H. C. G. fl. R. S. (*Roxb.*)

3. *verticillata*, Roxb. (*l. c.*) উলকি পাণা *Oolki-pana*. © Bengal. In H. C. G. fl. R. S. (*Roxb.*)

* *Salvinia natans*, All. © Europe. N. America. Goruckpore. Cashmere. — *Azolla pinnata*, R. Br. Port Jackson. — *A. rubra*, R. Br. Port Jackson. Van Diemen's Land.

C. Muscales, *Lindl. Nat. Syst.* p. 406.

ORDER CCLXXIII.—BRYACEÆ, *Lindl. Nat. Syst.* p. 407.

(Musci, Juss.)

THE MOSS TRIBÆ.

Erect or creeping, terrestrial or aquatic, cellular plants, (*Lindl.*) abundant only in temperate climates, though also found within the tropics. From India, (especially Nepal) Dr. Hooker has according to Wall. Cat. examined and named 109 species, viz. 5 of *Gymnostomum*; 1 of *Grimmia*; 1 of *Orthodon*; 2 of *Orthotrichum*; 1 of *Schlotheimia*; 4 of *Syrphopodon*; 1 of *Calymperes*; 1 of *Zygodon*; 4 of *Didymodon*; 6 of *Dicranum*; 1 of *Trematodon*; 4 of *Tortula*; 16 of *Bryum*; 2 of *Brachymerium*; 1 of *Funaria*; 1 of *Bartramia*; 6 of *Polytrichum*; 1 of *Lyellia*; 3 of *Fissidens*; 17 of *Hypnum*; 7 of *Leskea*; 18 of *Neckera*; 2 of *Hookera*; and 4 of *Pterogonium*. In Royle's collection are about 55 species, almost all from Mussooree, several of which are identical with those of Wall. Cat. During a journey into Upper Assam, in 1835 and 1836. Mr. W. Griffith collected, chiefly on the Khassya Hills, 143 species of Musci, by himself, fully described in *M'Clelland's Journal of Natural History, Calcutta*, 1842, Nos. 8 and 9, and forming about $\frac{1}{4}$ th of the whole number (1,324) contained in Bridel's *Bryologia universalis*. "Some idea," says the author, "may be formed of the probable great number of species that remain to be found, when I mention, that the whole of the Hill collection was formed between the 8th October and the 20th of November, and that the most interesting portions of the Hills to the eastward of the route mentioned were not visited." Of the 143 species, 1 belongs to *Sphagnum*; 6 to *Polytrichum*; 1 to *Diphyscium*; 7 to



Gymnostomum; 1 to *Orthodon*; 5 to *Orthotrichum*; 1 to *Schlotheimia*; 3 to *Weissia*; 3 to *Barbula*; 3 to *Grimmia*; 2 to *Trematodon*; 13 to *Dicranum*; 10 to *Fissidens*; 4 to *Didymodon*; 2 to *Fumaria*; 3 to *Bartramia*; 3 to *Brachymenium*; 7 to *Bryum*; 4 to *Pterogonium*; 20 to *Neckera*; 1 to *Daltonia*; 1 of *Anhymenium* (a new genus); 3 of *Pleuropus* (a new genus); 4 of *Hookera*; 7 of *Leskia*; and 28 of *Hypnum*. According to the abstract, given in the Proceedings of the Linnean Society, before which latter Mr. Griffith's paper was read, his "collection contains *Sphagnum obtusifolium*, *Polytrichum urnigerum*, and aloïdes, *Weissia Templetoni*, *Dicranum scoparium*, and glaucum, *Bartramia fontana*, and several others familiar to the European muscologist; but the far greater number of the species, have not been previously described." Properties insignificant.

BARBULA, Hedw. (*Endl. gen. pl.* 1, p. 52.)

1. *indica*, Brid. (*Bryol. univers.* 1, p. 544;—*Griff. o. c.* p. 490.—*Tortula indica*, Hook. *musc. exot.* p. 7, 135.) 2. Serampore. Fl. R. S.

FISSIDENS, Hedw.

1. *bryoides*, Hedw. (*Griff. o. c.* p. 502.—*Hypnum bryoides*, L.;—*E. B.* 9, t. 625.) 2. Serampore. Fl. R. S.

ORDER CCLXXIV—MARCHANTIACEÆ, Lindl. Nat. Syst. p. 412.

(Hepaticæ, Juss.)

THE LIVER-WORT TRIBE.

Plants growing on the earth or trees, in damp places, all over the world, except where excessive dryness prevails. In India they are but imperfectly known, so that out of 237 species enumerated by Sprengel only 25 Indian ones have been named by Lehmann, according to Wall, Cat., viz. 5 of *Marchantia*; 1 of *Grimaldia*; 2 of *Plagiochasma*; 4 of *Fimbriaria*; 1 of *Dumortiera*; 1 of *Riccia*; 10 of *Jungermannia*; and 1 of *Blandovia*; all, with 4 exceptions, natives of Nepal, and the Khassya Mountains.—Royle adds to the above *Marchantia polymorpha*, L. and *Jungermannia scorpioides*, Nees.—Griffith's collection of Marchantiaceæ on the Khassya Hills and in Assam amounts to 48 species. Properties "unknown." (*Lindl.*)

-
- * *Marchantia polymorpha*, L. Europe. Himalayas.—*M. androgyna*, L. Europe. Nepal.



D. Charales, Lindl. Nat. Syst. p. 441.

ORDER CCLXXV.—CHARACEÆ, Rich. and Kth.;—Lindl. Nat.
Syst. p. 415.

Aquatic plants, always submersed, referred to 3 genera. Of these have been discovered in India about 13 species of *Chara*. Properties unknown.

CHARA, L. (*Endl. gen. pl. 1, p. 7.*)

1. *verticillata*, Roxb. (*fl. ind. 3, p. 563.*) ⊙ Bengal, (Serampore.) Fl. C. and H. S.
2. *involucrata*, Roxb. (*l. c. p. 565.*) ⊙ Bengal, (Serampore, Calcutta.) Fl. C. and H. S.
3. *furcata*, Roxb. (*fl. ind. 3, p. 564.*) ⊙ Bengal, (Serampore, Calcutta.) Fl. R. S.

* *Chara foetida*, Buch. Bangri.—*C. spiralis*, Buch. Bangri.—*C. hispida*, L. (E. B. 7, t. 463.) Europe. India.—*C. polyclados*, D. Don. Nepal.—*C. zeylanica*, Willd. Tranquebar.—*C. setosa*, Willd. Peninsula of India.—*C. corallina*, Willd. Peninsula of India.—*C. filamentosa*, Rottl. Peninsula of India.—*C. foliolosa*, Rottl. Peninsula of India.—*C. polyphylla*, Rottl. Peninsula of India.

E. Fungales, Lindl. Nat. Syst. p. 418.

ORDER CCLXXVI.—AGARICACEÆ, (FUNGACEÆ, Lindl. Nat.
Syst. p. 419.)

THE MUSHROOM TRIBE.

Mushrooms, Puff Balls and Mildews are found growing in the earth, or upon decayed animal or vegetable substances, and scarcely ever upon living bodies of either kingdom, in which respect they differ from Lichens, which commonly grow upon the living bark of trees. They are as remarkable for the rapidity of their growth, which frequently takes place during the night, as for their perishable nature and the short space of time (only a few hours,) that some of them require to vegetate in, and to attain perfection. Their geographical distribution is but little understood; in fact, the *Fungi* themselves of most countries, are but little known, from the difficulty of preserving specimens; so that in many instances, if not completely examined, and described, or drawn on the spot, it is in vain to remedy the deficiency from the contents of an herbarium. Those of tropical countries are almost unknown; only 25 are enumerated by Humboldt and Bonpland from S. America, and only 10 (and these European species) by R. Brown, as found in New Holland. None are mentioned in Roxburgh's *flor. ind.*



or in Wall. ? Cat., and in Royle's collection there are only about 40 species from the Himalayas. These have been examined by D. Don., who finds as in Lichens, that the majority have the closest resemblance to European species, but, from the perishable nature of the specimens, their identification is difficult. (Royle.)

"Fungi are important either as food or as poison, or as parasites destructive to the plants upon which they grow. As food, the most valuable are *Agaricus campestris*, or common mushroom, the various species of *Helvella* or Morel, and *Tuber* or Truffle.—It is necessary to exercise the utmost care in employing Fungi as food. L. C. Richard, though no one was better acquainted with the distinctions of Fungi, would never eat any except such as had been raised in gardens in mushroom beds." (Lindl.)

AGARICUS, L. (Endl. gen. pl. 1, p. 40.)

1. *campestris*, L. (Spreng. syst. 4, p. 446.—Grev. cryp. fl. 161.—*A. edulis*, Bull. champ. t. 134 and 514.) © Serampore, &c.

LYCOPERDON, L. (Spreng. syst. 4, p. 378, No. 3500.) Puff Ball.

1. *pratense*, Pers. (Spreng. syst. 4, p. 523 ;—Bull. herb. 435. 2.) © Serampore.

ORDER CCLXXVII.—PARMELIACEÆ, (LICHENACEÆ, Lindl.
Nat. Syst. p. 426.)

THE LICHEN TRIBE.

Perennial plants, often spreading over the surface of the earth, or rocks or trees in dry places, in the form of a lobed and foliaceous, or hard and crustaceous, or leprous substance, called a Thallus. (Lindl.) Feé estimates the number actually known either in herbaria or in books, at 2,400. It has been remarked that the same species are found in very different parts of the world, and that the lichens of Europe, for example, differ little from those of N. America. This is observed, says Royle, in a very remarkable manner, in the comparatively few lichens collected by him in the Himalayas, almost the whole of which are pronounced by D. Don, who has examined them, to be identical with European species. Rozeb. passes over this order entirely, and Wall. enumerates only 4 species, borrowed from Buch.'s Herbarium. The amount of Lichens in Griffith's Collection we do not know, but judging from his botanical completeness generally, it must be considerable. Among Royle's Lichens are mentioned *Usnea florida*, Ach. (Lichen floridus, L. ;—E. B. 13, t. 872.)—*U. barbata*, Ach. (Lichen barbatus, L. ;—E. B. 4, t. 258, f. 2.)—*Borreria ciliaris*, Ach. (Lichen ciliaris, L. ;—E. B. 19, t. 1352.)—*B. furfuracea*, Ach. (Lichen furfuraceus, L. ;—E. B. 14, t. 984.)—*Rocella fuciformis*, Ach. (Lichen fuciformis, L. ;—E. B. 11, t. 728.)—*Ramalina farinacea*, Ach. (Lichen farinaceus, L. ;—E. B. 13, t.



889.)—*Gyrophora murina*, Ach. ? (Lichen murinus, Ach. ;—E. B. 35, t. 2486.)—*Peltidea canina*, Ach. (Lichen caninus, L. ;—E. B. 32, t. 2299.)—*Parmelia perlata* ; Ach. (Lichen perlatus, L. ;—E. B. 5 t. 341.)—*P. caperata*, Ach. (Lichen caperatus, L. ;—E. B. 10, t. 654.)—*P. physodes*, Ach. (Lichen physodes, L. ;—E. B. 2, t. 126.)—*Sticta pulmonaria*, Ach. (Lichen pulmonarius, L. ;—E. B. 8, t. 572.)—*S. scrobiculata*, Ach. (Lichen scrobiculatus, L. ;—E. B. 7, t. 497.)—*Stereocaulon paschale*, Ach. (Lichen paschalis, L. ;—E. B. 4, t. 282.) &c.

Lichens have been remarked by DC. to possess two distinct classes of characters, the one rendering them fit for being employed as dyes after maceration in urine, the other making them nutritive and medicinally useful to men. Of those used in dyeing, the principal crustaceous kinds are *Lecanora Parella*, Ach. (E. B. 11, t. 727. Orseille de terre, or Perelle d'Auvergne of the French.)—*L. tartarea*, Ach. (E. B. 3, t. 156. When sold to the Dyers, it appears in form of a purple powder, called Cudbear, a corruption of Cuthbert, the name of its inventor.)—*I. Hæmatomma*, Ach. (E. B. 7, t. 486.)—*L. atra*, Ach. (E. B. 14, t. 949.)—*Variolaria lactea*, Ach. (E. B. 34, t. 2410.)—*Urceolaria scruposa*, Ach. (E. B. 4, t. 266.)—*U. cinerea*, Ach. (E. B. 25, t. 1751.)—*Isidium Westringii*, Ach. (E. B. 31, t. 2204.)—*Lepraria chlorina*, Ach. ;—E. B. 29, t. 2038. Of the foliaceous species : *Parmelia saxatilis*, Ach. (E. B. 9, t. 603.)—*P. omphalodes*, Ach. (E. B. 9, t. 604.)—*P. encausta*, Ach. (E. B. 29, t. 2049.)—*P. conspersa*, Ach. (E. B. 30, t. 2097.)—*P. parietina*, Ach. (E. B. 3, t. 194.)—*Sticta pulmonaria*, Ach. (E. B. 8, t. 572.)—*Solorina crocea*, Ach. (E. B. 7, t. 498.)—*Gyrophora deusta*, Ach. ; E. B. 35, t. 2483.—*G. pustulata*, Ach. (E. B. 18, t. 1283) ;—but the most important are : *Roccella tinctoria*, Ach. (E. B. 3, t. 211.) and *R. fuciformis*, Ach. (E. B. 11, t. 728.) the dye of which is so largely used by manufacturers under the name of Orchall, or Archill, or Orseille des Canaries. The nutritive properties of Lichens probably depend upon the presence of an amylaceous substance analogous to gelatine, which, according to Berzelius, exists in the form of pure starch or amylaceous fibre, to the amount of 80-8 per cent. in *Cetraria islandica*, Ach. (E. B. 19, t. 1330.) which is the common Iceland Moss. Other Mosses, f. ex. *Cetraria nivalis*, Ach. (E. B. 28, t. 1994.)—*Sticta pulmonaria*, Ach. and *Alectoria usneoides*, Ach. will all answer the same purpose. The Reindeer Moss, which forms the winter food of that animal, is *Cladonia rangiferina*, Hoffm. (E. B. 3, t. 173.) *Borrera* ? *Ashneh*, Royle, by the Natives called Chulcheleera, is commonly employed as a dye in India. (Lindl. and Royle.)



ORDER CCLXXVIII.—FUCACEÆ, (ALGACEÆ, Lindl. Nat. Syst.
p. 430.—Algæ, Juss.)

THE SEA-WEED TRIBE.

Of these leafless, flowerless water-plants, Wall. Cat. only enumerates, 2 Indian species, borrowed from Buch. Herb. Royle mentions none, but says, that Röttler's Herb. contains a few species of *Conferva*, collected from the neighbourhood of Tranquebar. A general account of this order will be found in Lindl. l. c.

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INDICES.

The words in Capitals, denote the Natural Families. The words in Small Capitals, represent the Genera. The names in Roman, have reference to the Species. The names printed in *Italic*, indicate the Varieties.



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