



Bodleian Libraries

UNIVERSITY OF OXFORD

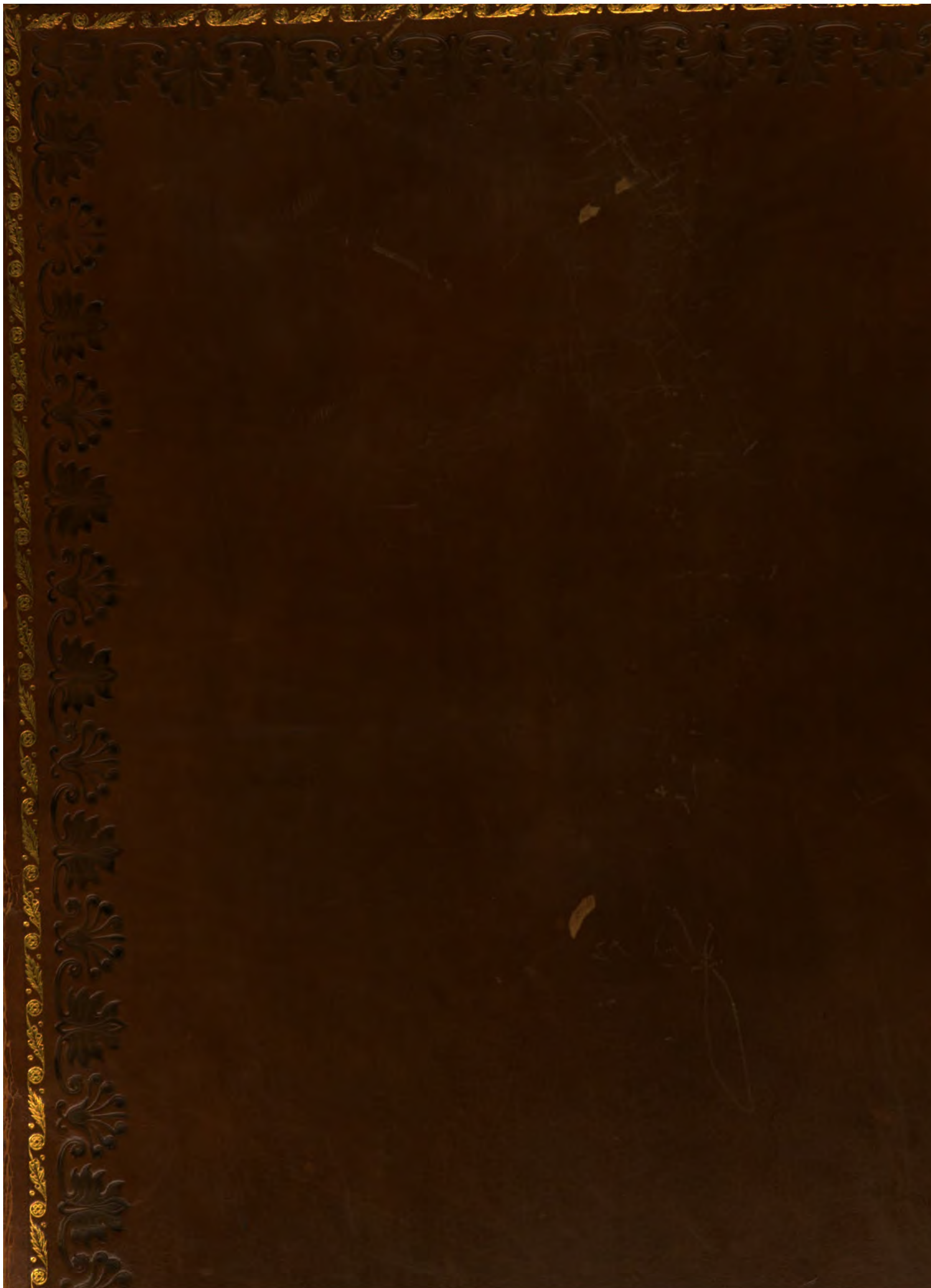
This book is part of the collection held by the Bodleian Libraries and scanned by Google, Inc. for the Google Books Library Project.

For more information see:

<http://www.bodleian.ox.ac.uk/dbooks>



This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 2.0 UK: England & Wales (CC BY-NC-SA 2.0) licence.



G. 68. B. 3



E. BIBL. RADCL.

~~6~~
~~B. 1~~

8.
C. 351.
C. 102.

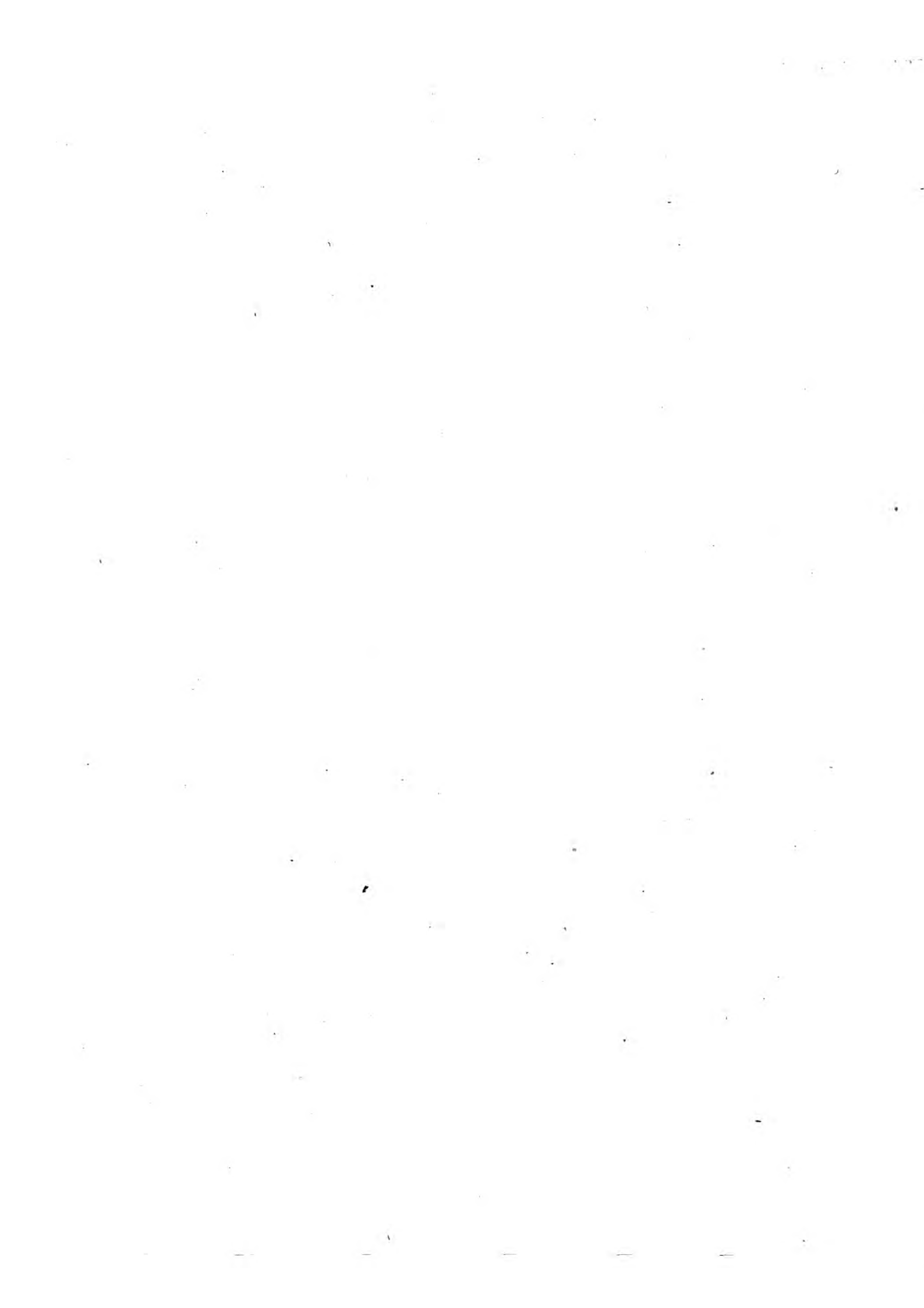
~~B. B. 1. 4~~

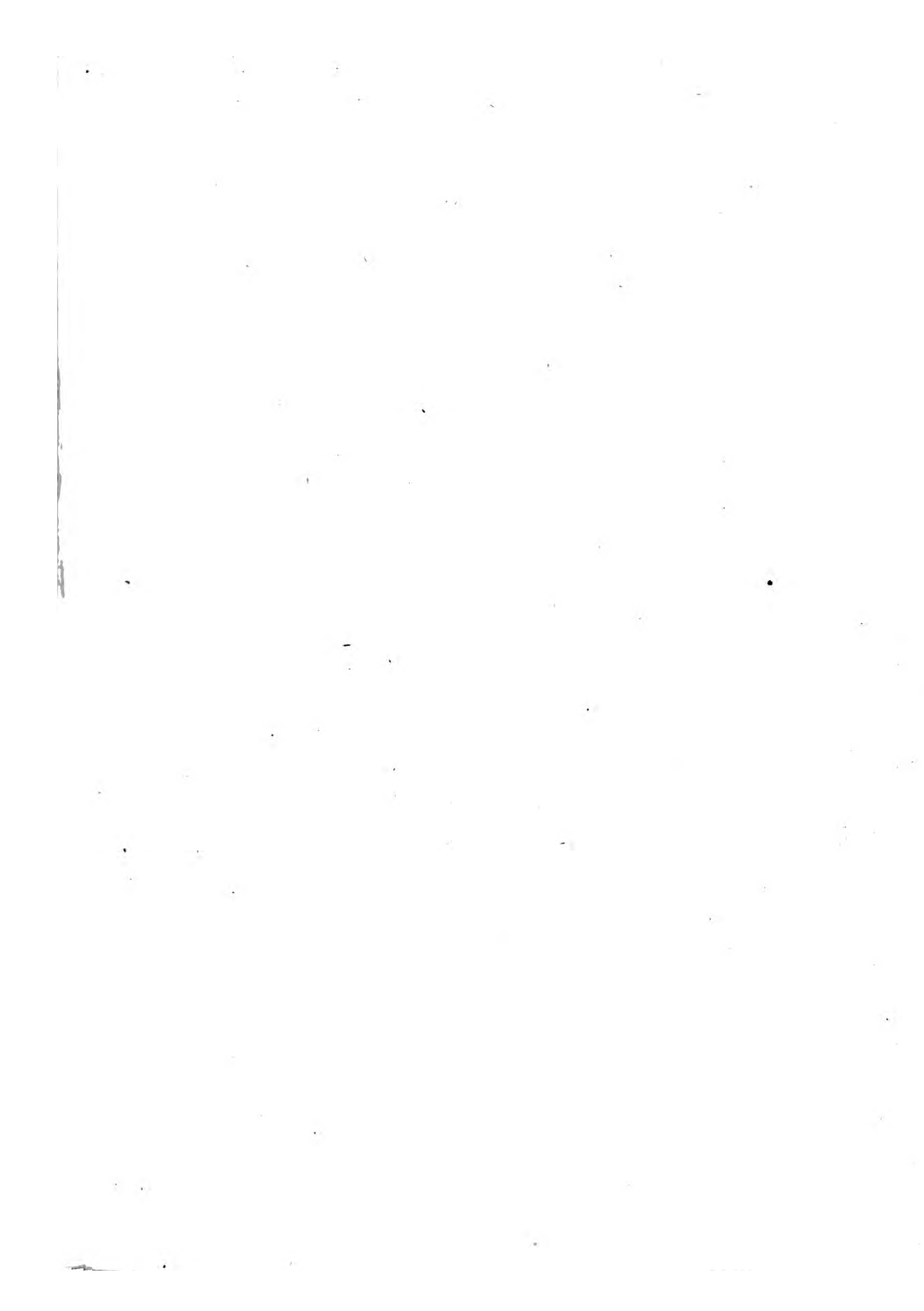
~~3~~

~~70. 2~~

C. R. J. 1/5-6









Vol. V.

Of the
Botanists Repository

Comprising,

Colour'd Engravings

of

New and Rare Plants

ONLY

With Botanical Descriptions &c.

in

Latin and English.

after the

Linnæan System,

by

H. Andrews

Botanical Painter & Engraver 1785



I N D E X

TO THE PLANTS CONTAINED IN VOL. V.

| | | | | | |
|-----------|---|---|-------|--------|------------|
| Plate 289 | <i>Protea cordata</i> | Heart-shape-leaved <i>Protea</i> | G. H. | Shrub. | March. |
| 290 | <i>Aponogeton distachyon</i> | Broad-leaved <i>Aponogeton</i> | H. H. | Aquat. | AllSummer |
| 291 | <i>Senecio pseudo-China</i> | China-root <i>Groundsel</i> | H. H. | Herb. | July. |
| 292 | <i>Geranium undulatum</i> | Waved-flowered <i>Geranium</i> | G. H. | Herb. | June. |
| 293 | <i>Lachnæa purpurea</i> | Purple-flowered <i>Lachnæa</i> | G. H. | Shrub. | July. |
| 294 | <i>Protea candicans</i> | Hoary-leaved <i>Protea</i> | G. H. | Shrub. | August. |
| 295 | <i>Paffiflora aurantia</i> | Norfolk Island <i>Paffion-Flower</i> | G. H. | Shrub. | July. |
| 296 | <i>Lachenalia rosea</i> | Rose-coloured <i>Lachenalia</i> | G. H. | Bulb. | May. |
| 297 | <i>Nymphæa odorata</i> | Sweet-scented <i>Water-Lily</i> | H. H. | Aquat. | AllSummer |
| 298 | <i>Anthericum odoratum</i> | Ribbed-leaved <i>Anthericum</i> | G. H. | Bulb. | August. |
| 299 | <i>Lachenalia reflexa</i> | Reflexed-flowered <i>Lachenalia</i> | G. H. | Bulb. | June. |
| 300 | <i>Geranium oxalidifolium</i> | Wood-Sorrel-leaved <i>Geranium</i> | G. H. | Herb. | July. |
| 301 | <i>Protea grandiflora</i> . <i>Var. fol. und.</i> | Large flowered <i>Protea</i> . <i>Waved-leaved Var.</i> | G. H. | Shrub. | May. |
| 302 | <i>Lachenalia fragrans</i> | Sweet-scented <i>Lachenalia</i> | G. H. | Bulb. | March. |
| 303 | <i>Geranium barbatum</i> | Bearded-leaved <i>Geranium</i> | G. H. | Herb. | July. |
| 304 | <i>Daviesia ulicifolia</i> | Furze-leaved <i>Daviesia</i> | G. H. | Shrub. | May. |
| 305 | <i>Geranium coronillæfolium</i> | Coronilla-leaved <i>Geranium</i> | G. H. | Herb. | July. |
| 306 | <i>Aletris fragrans</i> | Sweet-scented <i>Aletris</i> | H. H. | Shrub. | May. |
| 307 | <i>Protea globosa</i> | Globe-flowered <i>Protea</i> | G. H. | Shrub. | May. |
| 308 | <i>Crotolaria verrucosa</i> | Blue-flowered <i>Crotolaria</i> | H. H. | Ann. | May. |
| 309 | <i>Pultenæa villosa</i> | Hairy <i>Pultenæa</i> | G. H. | Shrub. | June. |
| 310 | <i>Stachys coccinea</i> | Scarlet <i>Clownheal</i> | G. H. | Herb. | July. |
| 311 | <i>Geranium pinnatum</i> | Winged-leaved <i>Geranium</i> | G. H. | Herb. | May. |
| 312 | <i>Styphelia viridis</i> | Green-flowered <i>Styphelia</i> | G. H. | Shrub. | April. |
| 313 | <i>Justicia lucida</i> | Shining-leaved <i>Justicia</i> | H. H. | Shrub. | August. |
| 314 | <i>Itea spinosa</i> | Thorny <i>Tea</i> | G. H. | Shrub. | September. |
| 315 | <i>Orchis bicornis</i> | Two-horned <i>Orchis</i> | H. H. | Herb. | September. |
| 316 | <i>Olea apetala</i> | Petalless <i>Olive</i> | G. H. | Shrub. | March. |
| 317 | <i>Geranium undulatum</i> . <i>Minor</i> | Waved-flowered <i>Geranium</i> . <i>Lesser Var.</i> | G. H. | Herb. | July. |
| 318 | <i>Hæmanthus multiflorus</i> | Many-flowered <i>Blood-Flower</i> | H. H. | Bulb. | June. |
| 319 | <i>Vicia galegifolia</i> | Goat's-Rue-leaved <i>Vetch</i> | G. H. | Herb. | August. |
| 320 | <i>Pultenæa elicifolia</i> | Holly-leaved <i>Pultenæa</i> | G. H. | Shrub. | June. |
| 321 | <i>Arethufa plicata</i> | Plaited-leaved <i>Arethufa</i> | H. H. | Herb. | July. |
| 322 | <i>Pitcairnia latifolia</i> | Broad-leaved <i>Pitcairnia</i> | H. H. | Herb. | July. |
| 323 | <i>Geranium barbatum</i> . <i>Var. Minor</i> | Bearded-leaved <i>Geranium</i> . <i>Lesser Var.</i> | G. H. | Herb. | July. |
| 324 | <i>Magnolia purpurea</i> | Purple-flowered <i>Magnolia</i> | H. H. | Shrub. | June. |
| 325 | <i>Codon Royeni</i> | Prickly <i>Codon</i> | G. H. | Bienn. | August. |
| 326 | <i>Pharnaceum lineare</i> . <i>Fl. alb.</i> | Linear-leaved <i>Pharnaceum</i> | G. H. | Shrub. | July. |
| 327 | <i>Xeranthemum argenteum</i> | Silvery <i>Everlasting-Flower</i> | G. H. | Shrub. | April. |
| 328 | <i>Geranium bubonifolium</i> | Macedonian- <i>Parley-leaved Geranium</i> | G. H. | Herb. | June. |
| 329 | <i>Pharnaceum lineare</i> | Linear-leaved <i>Pharnaceum</i> . <i>White Var.</i> | G. H. | Shrub. | July. |
| 330 | <i>Nymphæa stellata</i> | Starr'd <i>Water-Lily</i> | H. H. | Aquat. | August. |
| 331 | <i>Xylophylla falcata</i> | Cymitar-shaped-leaved <i>Xylophylla</i> | H. H. | Shrub. | August. |
| 332 | <i>Protea anemonifolia</i> | Anemomy-leaved <i>Protea</i> | G. H. | Shrub. | August. |
| 333 | <i>Sagittaria lancifolia</i> | Lance-leaved <i>Arrowhead</i> | H. H. | Aquat. | July. |
| 334 | <i>Struthiola tomentosa</i> | Downy-leaved <i>Struthiola</i> | G. H. | Shrub. | August. |
| 335 | <i>Gladiolus pyramidatus</i> | Pyramidal-spiked <i>Gladiolus</i> | G. H. | Bulb. | August. |
| 336 | <i>Anchufa capensis</i> | Cape <i>Alkanet</i> | G. H. | Shrub. | July. |
| 337 | <i>Protea triternata</i> | Cluster-headed <i>Protea</i> | G. H. | Shrub. | July. |
| 338 | <i>Geranium coronopifolium</i> | Buck's-horn-leaved <i>Geranium</i> | G. H. | Bienn. | August. |
| 339 | <i>Lobelia coronopifolia</i> | Buck's-horn-leaved <i>Lobelia</i> | G. H. | Bienn. | August. |
| 340 | <i>Lobelia gracilis</i> | Slender-stemmed <i>Lobelia</i> | G. H. | Ann. | August. |
| 341 | <i>Phaeolus Caracalla</i> | Snail-Flower <i>Kidney-Bean</i> | H. H. | Shrub. | August. |
| 342 | <i>Cobbea scandens</i> | Climbing <i>Cobbea</i> | G. H. | Shrub. | October. |
| 343 | <i>Blandfordia cordata</i> | Heart-shape-leaved <i>Blandfordia</i> | G. H. | Herb. | June. |
| 344 | <i>Epidendrum ensifolium</i> | Sword-shaped-leaved <i>Epidendrum</i> | H. H. | Shrub. | September. |
| 345 | <i>Hyacinthus corymbosus</i> | Linear-leaved <i>Cape-Hyacinth</i> | G. H. | Bulb. | October. |
| 346 | <i>Cafuarina stricta</i> | Upright <i>Cafuarina</i> | G. H. | Shrub. | November. |
| 347 | <i>Sophora capensis</i> | Vetch-leaved <i>Sophora</i> | G. H. | Shrub. | August. |
| 348 | <i>Schotia speciosa</i> | Lentifcus-leaved <i>Schotia</i> | H. H. | Shrub. | October. |
| 349 | <i>Protea decumbens</i> | Slender-stemmed <i>Protea</i> | G. H. | Shrub. | July. |
| 353 | <i>Lachenalia pustulata</i> | Rough-leaved <i>Lachenalia</i> | G. H. | Bulb. | December. |
| 351 | <i>Pultenæa rubiæfolia</i> | Madder-leaved <i>Pultenæa</i> | G. H. | Shrub. | July. |
| 352 | <i>Helonias bullata</i> | Spear-leaved <i>Helonias</i> | Har. | Herb. | June. |
| 353 | <i>Aspalathus crassifolius</i> | Thick-leaved <i>Aspalathus</i> | G. H. | Shrub. | July. |
| 354 | <i>Geranium revolutum</i> | Reflex floral-leaved <i>Geranium</i> | G. H. | Herb. | July. |
| 355 | <i>Leca pinnata</i> | Winged-leaved <i>Leca</i> | H. H. | Herb. | August. |
| 356 | <i>Arum orixensis</i> | Orixian <i>Cuckow-pint</i> | H. H. | Herb. | October. |
| 357 | <i>Arctotis paradoxa</i> | Chamomile-leaved <i>Arctotis</i> | G. H. | Bienn. | August. |
| 358 | <i>Amaryllis brasiliensis</i> | Brazilian <i>Lily-Daffodil</i> | H. H. | Bulb. | October. |
| 359 | <i>Tagetes lucida</i> | Sweet Chili <i>Marygold</i> | G. H. | Herb. | August. |
| 360 | <i>Renealmia nutans</i> | Drooping-flowered <i>Renealmia</i> | H. H. | Herb. | July. |

ERRATA.

- Plate 297, Clafs. Pro Poliandria, lege, *Polyandria*.
 299, Sp. Ch. lin. 2. pro equalis, lege, *æqualis*.
 301, Sp. Ch. lin. ntt. pro cristatæ, lege, *cristatæ*.
 309, Eff. Gen. Ch. lin. 1, pro quinquedentatis, lege, *quinquedentatus*.
 310, Plate, for Stæches, read, *Stachys*. Calyx lin 3, pro denticulis, lege, *denticulis*.
 315, Pointal. lin. 1, put (.) after top-shaped.
 3. 4, Pericarpium, lin. 2, pro mucronato, lege, *mucronato*.
 316, Title, for Petal-lefs, read, *Petalless*.
 323, Sp. Ch. lin. 1, poft, inequaliter, dele (,) .
 325, Calyx, lin. 2, pro duodecem, lege, *duodecim*. Description, lin. 2, for, vegetating, read, *vegitating*.
 326, Sp. Ch. pro inequalibus, lege, *inæqualibus*.
 329, Effen. Ch. lin. 3, direction for V. V. put *Vol. V.*
 331, Gen. Ch. Pointal, lin. 2, after *three*, for, *short*, read, *spreading, two-cleft*.
 337, Sp. Ch. lin. 3, pro bracteis, lege, *bracteatis*.
 341, Plate, for Phaseolis, read, *Phaseolus*.
 342, Descrip. lin. 4, for, East Indies, read, *Chili, South America*.
 345, Plate, for, Corymbofa, read, *Corymbosus*.
 346, Descrip. lin. 8, for, has, like this, read, *have like this*.
 347, Chives, lin. 2, after, length of, leave out (,) .
 350, Effen. Ch. lin. 1, dele, *petalis tribus infera*.
 353, Title, pro crassifolius, lege, *crassifolia*.

Alphabetical Index to the 1st. 2d. 3d. 4th. and 5th. Volume of the Botanist's Repository.

| | Pl. | vol. | | Pl. | vol. | | Pl. | vol. | | Pl. | vol. |
|-----------------------------|-----|------|----------------------------|-----|------|-------------------------------|-----|------|--------------------------|-----|------|
| Aizoon canariense | 201 | 3 | Ferraria pavonia | 178 | 3 | Houffonia coccinea | 106 | 2 | Perfoonia latifolia | 21 | |
| Aletris fragrans | 306 | 5 | viridiflora | 285 | 4 | Hyacinthus corymbosus | 345 | 5 | linearis | 34 | |
| farmentosa | 54 | 1 | Fuchsia lycioides | 120 | 2 | Hypoxis linearis | 171 | 3 | Pharmaceum lineare | 33 | |
| Allium gracile | 107 | 2 | Galaxia grandiflora | 164 | 3 | obliqua | 195 | 3 | fl. alb. | 33 | |
| Amaryllis Brasiliensis | 358 | 5 | ovata | 94 | 2 | stellata | 101 | 2 | Phaeolus Caracalla | 34 | |
| Fothergillia | 163 | 3 | Gardenia tubiflora | 183 | 3 | fl. alb. | 236 | 4 | Physalis prostrata | 7 | |
| radiata | 95 | 2 | Gaultheria procumbens | 116 | 2 | Iris longifolia | 45 | 1 | Pitcairnia latifolia | 33 | |
| reticulata | 179 | 3 | Gentiana purpurea | 117 | 2 | Itea spinosa | 314 | 5 | fulphurea | 24 | |
| Anchufa capensis | 336 | 5 | Geranium afragalifolium | 190 | 3 | Ixia ariflata | 87 | 2 | Pittoporum coriaceum | 15 | |
| Anemone palmata | 172 | 3 | barbatum | 303 | 5 | bulbifera | 48 | 1 | Platylodium lanceolatum | 1 | |
| Anthericum costatum | 298 | 5 | barbatum minor | 323 | 5 | bulbocodium | 170 | 3 | ovatum | 26 | |
| Anthyllis erinacea | 15 | 1 | bubonifolium | 328 | 5 | capitata ovat. | 68 | 1 | scolopendrum | 19 | |
| Antholyza Æthiopica | 210 | 3 | ciliatum | 247 | 4 | fl. aur. | 50 | 1 | Pogonia debilis | 21 | |
| fulgens | 192 | 3 | coronillæfolium | 305 | 5 | fl. al. fun. nig. | 159 | 3 | glabra | 28 | |
| ringens | 32 | 1 | coronopifolium | 338 | 5 | stellata | 232 | 4 | Primula Cortusifolides | 30 | |
| spicata | 56 | 1 | cortusæfolium | 121 | 2 | cinnamomea | 44 | 1 | Protea anemonifolia | 33 | |
| tubulosa | 174 | 3 | crassifolium | 136 | 2 | columnaris | 203 | 3 | candicans | 29 | |
| Aponogeton distachyon | 290 | 5 | echinatum | 158 | 3 | verfic. | 211 | 3 | cordata | 28 | |
| Arctotis paradoxa | 357 | 5 | elegans | 28 | 1 | latifol. | 213 | 3 | cynaroides | 28 | |
| Arethufa plicata | 321 | 5 | fragile | 37 | 1 | grandiflo. | 250 | 4 | decumbens | 34 | |
| Aristea cyanea | 10 | 1 | grandiflorum | 12 | 1 | orispifolia fl. cærul. | 35 | 1 | formosa | 1 | |
| major | 160 | 3 | incifum | 67 | 1 | crocata nig. mac. | 134 | 2 | globosa | 30 | |
| Arum orixensis | 356 | 5 | incrassatum | 246 | 4 | fistulosa | 59 | 1 | glomerata | 26 | |
| Asclepias gigantea | 271 | 4 | laciniatum | 131 | 2 | maculata | 196 | 3 | grandiflora fol. und. | 30 | |
| Afpalathus crassifolius | 353 | 5 | flo. purp. | 204 | 3 | min. fl. pur. | 256 | 4 | lagopus | 24 | |
| After dentatus | 61 | 1 | bicolor | 269 | 4 | polyftachia | 155 | 3 | longifolia nigra | 13 | |
| reflexus | 93 | 2 | lineare | 193 | 3 | incar. | 128 | 2 | ferr. purp. | 13 | |
| Atragene Austriaca | 80 | 3 | melananthum | 209 | 3 | punctata | 177 | 3 | cono turb. | 14 | |
| capensis | 9 | 1 | oxalidifolium | 300 | 5 | puffilla | 245 | 4 | pinifolia | 7 | |
| Azalea Pontica | 16 | 1 | pisum | 168 | 3 | reflexa | 14 | 1 | pulchella | 27 | |
| Bankfia ericifolia | 156 | 3 | pilofum | 259 | 4 | speciosa | 186 | 3 | speciosa latifolia | 11 | |
| præmorfa | 258 | 4 | pinnatum | 311 | 5 | spicata | 29 | 1 | nigra | 10 | |
| serrata | 82 | 2 | præmorfum | 150 | 3 | Ixora Pavetta virid. nig. | 76 | 2 | fol. glab. | 27 | |
| Baurea rubioides | 198 | 3 | procumbens | 254 | 4 | Jafminum gracile | 127 | 2 | spicata | 23 | |
| Bignonia Leucoxydon | 43 | 1 | punctatum | 60 | 1 | Jatropha panduræfolia | 267 | 4 | triternata | 33 | |
| pandorana | 86 | 2 | quinquevulnerum | 114 | 2 | Justicia lucida | 313 | 5 | umbellata | 24 | |
| Blandfordia cordata | 343 | 5 | radiatum | 222 | 4 | Lachenalia fragrans | 302 | 5 | Pforalea aculeata | 14 | |
| Borbonia cordata | 31 | 1 | reflexum | 224 | 4 | pendula | 41 | 1 | Pultenæa dapnoides | 9 | |
| Boronia pinnata | 58 | 1 | reniforme | 108 | 2 | purpureo cærul. | 257 | 4 | ilicifolia | 32 | |
| Brunfelsia undulata | 167 | 3 | revolutum | 354 | 5 | puffulata | 350 | 5 | rubiefolia | 33 | |
| Buchnera foetida | 80 | 2 | roseum | 173 | 3 | quadricolor | 148 | 3 | villosa | 30 | |
| pedunculata | 84 | 2 | selinum | 239 | 4 | reflexa | 299 | 5 | Punica granatum fl. alb. | 9 | |
| Camellia japonica, alb. pl. | 25 | 1 | spathulatum | 152 | 3 | rofea | 296 | 5 | Renealmia nutans | 36 | |
| japonica, pl. vg. to. | 91 | 2 | curviflo. | 282 | 4 | Lachnæa eriocephala | 104 | 2 | Rhododendron Dauricum | 3 | |
| japonica, rub. pl. | 199 | 3 | tomentofum | 115 | 2 | purpurea | 293 | 5 | punctatum | 3 | |
| Cameraria latifolia | 201 | 4 | undulatum | 292 | 5 | Lambertia formosa longi flor. | 69 | 1 | Roëlia decurrens | 23 | |
| Casuarina stricta | 346 | 5 | minor | 317 | 5 | Lætopetalum ferrugineum | 208 | 3 | Sagittaria lancifolia | 33 | |
| Cerbera Ahouai | 231 | 4 | Gladiolus alatus | 8 | 1 | Leea pinnata | 355 | 5 | Samyda ferrulata | 20 | |
| undulata | 130 | 2 | abbreviatus | 166 | 3 | Limonia trifoliata | 143 | 2 | Senecio pfeudo China | 29 | |
| Chelone campanuloides | 40 | 1 | blandus | 99 | 2 | Lobelia coronopifolia | 339 | 5 | Septas capensis | 9 | |
| Ruëloides | 34 | 1 | campanulatus | 188 | 3 | gracilis | 340 | 5 | Schotia speciosa | 34 | |
| Chiococca racemosa | 284 | 4 | carneus | 240 | 4 | pinifolia | 273 | 4 | Sophora capensis | 34 | |
| Chrysanthemum tricolor | 109 | 2 | crispus | 142 | 2 | Magnolia fuscata | 229 | 4 | Sowerbia juncea | 8 | |
| Cineraria aurita | 24 | 1 | cupidatus | 147 | 3 | pumila | 226 | 4 | Sprengelia incarnata | | |
| Clematis viorna | 71 | 1 | pet. crisp. | 219 | 4 | purpurea | 324 | 5 | Stachys coccinea | 31 | |
| Clusia flava | 223 | 4 | galeatus | 122 | 2 | Mahernia odorata | 85 | 2 | Struthiola ciliata | 14 | |
| Cobbea scandens | 342 | 5 | gramineus | 62 | 1 | Malpighia crassifolia | 47 | 1 | fl. rub. | 14 | |
| Codon Royeni | 325 | 5 | grandiflorus | 118 | 2 | Malva divaricata | 182 | 3 | imbricata | 11 | |
| Cordia febestena | 157 | 3 | longiflorus | 5 | 1 | reflexa | 135 | 2 | ovat. | 11 | |
| Cortufa Mathioli | 1 | 1 | nanus | 137 | 2 | Maffonia scabra | 230 | 4 | tomentofa | 33 | |
| Cortæa alba | 17 | 1 | orchidiflorus | 241 | 4 | violacea | 46 | 1 | Styphelia parviflora | 7 | |
| Crassula odoratiffima | 26 | 1 | plicatus | 268 | 4 | Melaleuca coronata | 278 | 4 | triflora | 28 | |
| Cratæa Capparoides | 176 | 3 | polyftachius | 66 | 4 | ericæfolia | 175 | 3 | viridis | 31 | |
| Crinum giganteum | 169 | 3 | præcox flo. rub. | 38 | 1 | hypericifolia | 200 | 3 | Tagetas lucida | 35 | |
| fpirale | 92 | 2 | pyramidatus | 335 | 5 | Melanthium viride | 233 | 4 | Talinum patens | 25 | |
| Crowea faligna | 79 | 2 | ringens cin. odor. | 27 | 1 | Mesembryanthemum glabrum | 57 | 1 | Thunbergia fragrans | 12 | |
| Crotolaria verrucosa | 308 | 5 | multiflo. | 227 | 4 | Metrosidera hirsuta | 281 | 4 | Uftera scandens | 6 | |
| Cyanella capensis | 141 | 2 | undul. | 275 | 4 | Mimofa difcolor | 235 | 4 | Vaccinium amænum | 13 | |
| Cyrtanthus obliquus | 265 | 4 | roseus | 11 | 1 | longifolia | 207 | 3 | arctotaphyllus | 3 | |
| Cytifus tomentofus | 237 | 4 | striatus | 111 | 2 | ftriéta | 276 | 4 | crassifolium | 10 | |
| Daphne Pontica | 73 | 2 | verficolor | 19 | 1 | Monfonia filia | 53 | 1 | dumofum | 11 | |
| Daviesia ulicifolia | 304 | 5 | Gloriofa fuperba | 129 | 2 | Moræa Northiana | 255 | 4 | formofum | 9 | |
| Diofma latifolia | 33 | 1 | Gnidia lævigata | 89 | 2 | tricolor | 83 | 2 | frondofum | 14 | |
| Dodonæa triquetra | 230 | 4 | oppofetifolia | 225 | 4 | Mufa coccinea | 47 | 1 | parviflorum | 12 | |
| Dracena borealis | 206 | 3 | pinifolia | 52 | 1 | Neotia speciofa | 3 | 1 | flaminium | 26 | |
| Echites fubereéta | 187 | 3 | fimplex | 70 | 1 | Nymphæa cærulea | 197 | 3 | virgatum | 18 | |
| Echium argenteum | 154 | 3 | Goodenia calendulacea | 22 | 1 | ordorata | 297 | 5 | Verbafeum ferrugineum | 5 | |
| ferociffimum | 39 | 1 | ovat. | 68 | 1 | stellata | 330 | 5 | Vercia crenata | 2 | |
| glaucofhyllum | 165 | 3 | Hæmanthus multiflorus | 318 | 5 | Olea apetala | 316 | 5 | Vicia galegifolia | 31 | |
| grandiflorum | 20 | 1 | Hebenfretia aurea | 252 | 4 | Ophrys lilifolia | 65 | 1 | Viola pedata | 3 | |
| Embothrium buxifolium | 218 | 4 | Heliconia pittacorum | 124 | 2 | Orchis bicornis | 315 | 5 | Wetteringia rofmarinacea | 21 | |
| lineare | 272 | 4 | Helonias bullata | 352 | 5 | cilialis | 42 | 1 | Wurmbea capensis β | 22 | |
| falignum | 215 | 3 | Hemerocallis alba | 194 | 3 | Ornithogalum lacteum | 274 | 4 | Xeranthemum argenteum | 32 | |
| sericeum | 100 | 2 | cærulea | 6 | 1 | odoratum | 260 | 4 | fasciculatum | 24 | |
| Epidendrum cochleatum | 13 | 1 | graminea | 244 | 4 | Pæonia albiflora | 64 | 1 | fl. alb. | 27 | |
| enifolium | 344 | 5 | Hermannia pulverata | 161 | 3 | Paffiflora aurantia | 295 | 5 | speciofiffimum | 3 | |
| finenfe | 216 | 3 | Hibbertia volubilis | 126 | 2 | maliformis | 217 | 4 | fpirale | 23 | |
| Epigæa repens | 102 | 2 | Hibifcus mutabilis fl. pl. | 228 | 4 | Pergularia minor | 184 | 3 | Xylophylla falcata | 33 | |
| Eranthemum pulchellum | 88 | 2 | Paterfonius | 286 | 4 | odoratiffima | 185 | 3 | Zinnia verticillata | 18 | |
| Falkia repens | 257 | 4 | Hillia longiflora | 145 | 3 | Perfoonia lanceolata | 74 | 2 | violacea | 5 | |

I N D E X

TO THE PLANTS CONTAINED IN VOL. VI.

| | | | | |
|-----------|--|---|-------------|----------|
| Plate 361 | <i>Sansevieria carnea</i> | Flesh-coloured Sansevieria | G. H. Herb | March |
| 362 | <i>Crocus biflorus</i> | Yellow-bottomed white Crocus | Hard. Bulb | February |
| 363 | <i>Polygala stipulacea</i> | Stipuled Milkwort | G. H. Shrub | March |
| 364 | <i>Iris pavonia</i> | Peacock Iris | G. H. Bulb | April |
| 365 | <i>Scilla siberica</i> | Siberian Squill | Hard. Bulb | February |
| 366 | <i>Geranium barbatum. Var. undulatum.</i> | Bearded-leaved Geranium. <i>Var. waved-petaled.</i> | G. H. Herb | Septem. |
| 367 | <i>Anagallis grandiflora</i> | Great-flowered Pimpernel | G. H. Ann. | April |
| 368 | <i>Melanthium Massoniaefolium</i> | Massonia-leaved Melanthium | G. H. Bulb | March |
| 369 | <i>Eucomis purpureocaulis</i> | Purple-stalked Eucomis | G. H. Bulb | March |
| 370 | <i>Polygala teretifolia</i> | Cylindric-leaved Milkwort | G. H. Shrub | April |
| 371 | <i>Polygala alopecuroides</i> | Fox-tail Milkwort | G. H. Shrub | April |
| 372 | <i>Mimosa purpurea</i> | Soldier-bush Mimosa | H. H. Shrub | April |
| 373 | <i>Pæonia suffruticosa</i> | Shrubby Pæony | G. H. Shrub | April |
| 374 | <i>Xeranthemum proliferum</i> | Proliferous Eternal-flower | G. H. Shrub | May |
| 375 | <i>Xeranthemum bracteatum</i> | Waved-leaved Eternal-flower | Hard. Ann. | Septem. |
| 376 | <i>Neottia minor</i> | The Lesser Neottia | H. H. Herb | March |
| 377 | <i>Allium Chamæ-Moly</i> | The Dwarf Moly | G. H. Bulb | February |
| 378 | <i>Geranium fissifolium</i> | Cloven-leaved Geranium | G. H. Herb | Septem. |
| 379 | <i>Rhododendron ponticum. Var. deciduum.</i> | Deciduous purple Rhododendron | Hard. Shrub | May |
| 380 | <i>Achyranthes porrigens</i> | Divaricating Achyranthes | H. H. Shrub | May |
| 381 | <i>Sarracenia flava</i> | Yellow side-saddle Flower | G. H. Herb | June |
| 382 | <i>Liparia villosa</i> | Concave-leaved Liparia | G. H. Shrub | May |
| 383 | <i>Pittosporum undulatum</i> | Waved-leaved Pittosporum | G. H. Shrub | May |
| 384 | <i>Xeranthemum variegatum</i> | Variiegated Eternal-flower | G. H. Shrub | May |
| 385 | <i>Campanula laciniata</i> | Ragwort-leaved Bell-flower | Hard. Herb | July |
| 386 | <i>Anthericum pugioniforme</i> | Dagger-leaved Anthericum | Hard. Bulb | Septem. |
| 387 | <i>Xeranthemum rigidum</i> | Rigid-leaved Eternal-flower | G. H. Shrub | May |
| 388 | <i>Mesembryanthemum inclaudentis</i> | Unclosing-flowered Fig-marygold | G. H. Shrub | July |
| 389 | <i>Dombeya Erythroxylo</i> | Saint Helena Red-wood | H. H. Shrub | June |
| 390 | <i>Amaryllis spectabilis</i> | Waved-leaved Amaryllis | H. H. Bulb | July |
| 391 | <i>Nymphaea Lotus</i> | The Egyptian Lotus | H. H. Herb | July |
| 392 | <i>Ixia columnaris. Var. angustifolia.</i> | Narrow-leaved Columnar-chived Ixia | G. H. Bulb | June |
| 393 | <i>Fumaria formosa</i> | Beautiful Fumitory | Hard. Herb | June |
| 394 | <i>Mimosa Linifolia</i> | Flax-leaved Mimosa | G. H. Shrub | May |
| 395 | <i>Anthericum paniculatum</i> | Panicled Anthericum | G. H. Herb | July |
| 396 | <i>Campanula versicolor</i> | Various-coloured Bell-flower | Hard. Herb | July |
| 397 | <i>Stewartia marilandica</i> | Maryland Stewartia | Hard. Shrub | August |
| 398 | <i>Wachendorfia villosa</i> | Villous Wachendorfia | G. H. Herb | June |
| 399 | <i>Commelina tuberosa</i> | Tuberous-rooted Commelina | H. H. Herb | Septem. |
| 400 | <i>Eucalyptus resinifera</i> | Resinous Eucalyptus | G. H. Shrub | July |
| 401 | <i>Serratula spicata</i> | Spiked-flowered Saw-wort | Hard. Herb | July |
| 402 | <i>Clematis florida</i> | Large-flowered Virgin's Bower | Hard. Shrub | July |
| 403 | <i>Ipomea grandiflora</i> | Great-flowered Ipomea | H. H. Ann. | Septem. |
| 404 | <i>Morea miniata</i> | Red-lead-coloured Morea | G. H. Bulb | April |
| 405 | <i>Primula dentiflora</i> | Toothed-flowered Primrose | Hard. Herb | Septem. |
| 406 | <i>Aponogeton monostachyon</i> | Simple-spiked Aponogeton | H. H. Herb | July |
| 407 | <i>Calendula dentata</i> | Toothed-leaved Marygold | G. H. Shrub | July |
| 408 | <i>Dahlia pinnata</i> | Pinnated-leaved Dahlia | G. H. Herb | Septem. |
| 409 | <i>Protea Scolymus</i> | Smooth-leaved Protea | G. H. Shrub | May |
| 410 | <i>Cynanchum undatum</i> | Waved Cynanchum | H. H. Shrub | July |
| 411 | <i>Psoralea spicata</i> | Spiked-flowered Psoralea | G. H. Shrub | July |
| 412 | <i>Calendula viscosa</i> | Viscous Marygold | G. H. Shrub | October |
| 413 | <i>Geranium hymenodes</i> | Ternate-leaved Geranium | G. H. Herb | May |
| 414 | <i>Crassula obliqua</i> | Oblique-leaved Crassula | H. H. Shrub | October |
| 415 | <i>Cantua Coronopifolia</i> | Coronopus-leaved Cantua | H. H. Herb | Novem. |
| 416 | <i>Salvia Chamædrifolia</i> | Germander-leaved Sage | G. H. Shrub | July |
| 417 | <i>Crotolaria pulchella</i> | Ternate large-flowered Crotolaria | G. H. Shrub | July |
| 418 | <i>Gentiana Catesbæi</i> | Catesby's Gentian | Hard. Herb | October |
| 419 | <i>Genista lusitanica</i> | Portugal Genista | Hard. Shrub | March |
| 420 | <i>Geranium floribundum</i> | Tuberous many-flowered Geranium | G. H. Herb | July |
| 421 | <i>Renealmia calcarata</i> | Upright-flowering Renealmia | H. H. Herb | Septem. |
| 422 | <i>Crotolaria juncea</i> | Rushy-stalked Crotolaria | H. H. Ann. | August |
| 423 | <i>Geranium luteum</i> | Dwarf yellow-flowered Geranium | G. H. Herb | Septem. |
| 424 | <i>Polygala micrantha</i> | Small-flowered Milkwort | G. H. Shrub | April |
| 425 | <i>Mangifera indica</i> | Indian Mango-tree | H. H. Shrub | Decem. |
| 426 | <i>Limodorum Tankervilleæ</i> | Chinese Limodorum | H. H. Herb | Decem. |
| 427 | <i>Gompholobium maculatum</i> | Maculated Air Pod | G. H. Shrub | July |
| 428 | <i>Elychrisum Stæhelina</i> | Stæhelina-like Eternal-flower | G. H. Shrub | Decem. |
| 429 | <i>Casulea axillaris</i> | Axillary-flowered Casulea | H. H. Herb | August |
| 430 | <i>Ricinus armatus</i> | Prickly-capsuled Ricinus | G. H. Bien. | October |
| 431 | <i>Protea incurva</i> | Incurved-leaved Protea | G. H. Shrub | June |
| 432 | <i>Strelitzia Reginae</i> | The Queen's Strelitzia | H. H. Herb | August |

ERRATA ET CORRIGENDA IN VOL. VI.

- Plate 361, line 20, for brevioribus, read *breviora*.
 ——— 21, for antheris, read *antheras*.
 362, — 7, after longissimo add *partim*, and after long add *and partly*.
 ——— 11, after cochleariformibus, add *circumscissis*.
 ——— 16, for antheris, read *antheras*.
 ——— after line 21, add 4. *The Seed-bud and Pointal*.
 365, — 21, for antheris, read *antheras*.
 375, — 19, for the Pointal, &c. read *one of the Scales of the Empalement*.
 ——— 10, for prinnate, read *pinnate*.
 378, — 8, from the bottom, for Erodium, read *Pelargonium*.
 383, After the Specific Character, add *P. undulatum, Vent. Pl. nouv. 76*.
 389, line 25, for retuse, read *undulatum retusa*.
 390, — 20, after tubulosi, add *ante anthesin inflati*.
 395, — 18, after is, read *a new species*.
 396, — 24, for and, read *it*.
 397, — 13, strike out the letter *l*.
 399, — 4, from the bottom, for double, read *but half*.
 404, — 9, for Monadelphia, read *Monadelphia*.
 ——— 22, for east, read *least*.
 405, — 22, for affords, read *afford*.
 410, — 11, after waved, add *and*.
 ——— 27, for known, read *unknown*.
 415, — 22, for 4 read 3.
 417, — 10, strike out the *two hyphens* and the *comma* between them.
 418, — 7, from bottom, for purple read *blue*.
 420, — 19, for Erodium, read *Pelargonium*.
 424, — 27, for compensates, read *compensate*.
 426, — 16, after plant, add 5.

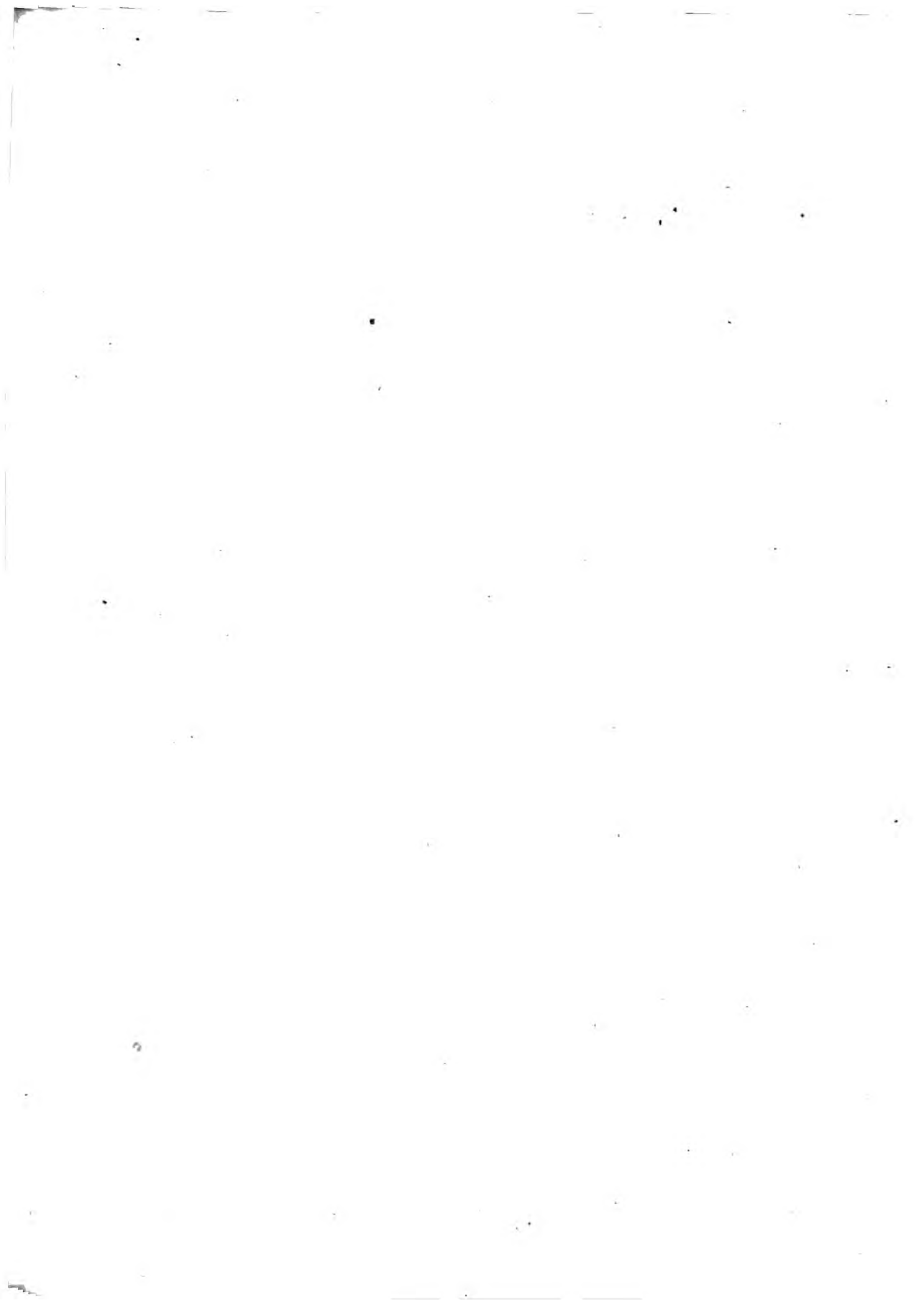


PLATE CCLXXXIX.

PROTEA CORDATA.

Heart-shape-leaved Protea.

CLASS IV. ORDER I.

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|--|
| COROLLA 4-fida, seu 4-petala. Antheræ lineares, infertæ petalis infra apicem. Calyx, proprius, nullus. Semina folitaria. | | BLOSSOM four-cleft or four petals. Tips linear, inferted into the petals below the ends. Cup, proper, none. Seeds solitary. See PROTEA FORMOSA, Pl. XVII. Vol. I. |
|--|--|--|

SPECIFIC CHARACTER.

Protea foliis cordatis. || *Protea* with heart-shaped leaves.

REFERENCE TO THE PLATE.

1. A Floret before the petals have separated, natural size.
2. The same, magnified, after the bursting of the petals.
2. The Pointal and Seed-bud, natural size.

THE Heart-shape-leaved *Protea* was introduced to Britain in the year 1792, from the Cape of Good Hope, by Messrs. Lee and Kennedy; at whose nursery it is now, this present month of March, 1803, in flower for the first time in this country. The plant is only found on the mountains of that part of the Cape called Hottentots Holland; the stem, in its native state, laying on the ground, seldom more than a foot in length, and the flowers proceeding from it near its base. It is rather delicate, should be kept in a very airy part of the green-house, and planted in a light loamy soil. It is propagated by cuttings, made in the month of April, and kept under a common hand-glass, the pot being plunged in a shady border.

Of this *Protea* there is a good figure in Thunberg's *Differtatio de Protea*, Upsal, quarto edition, 1781, Plate 5, fig. 1.



Protea cordata

Painted from the original
by H. Schomburgk & C. Thunberg



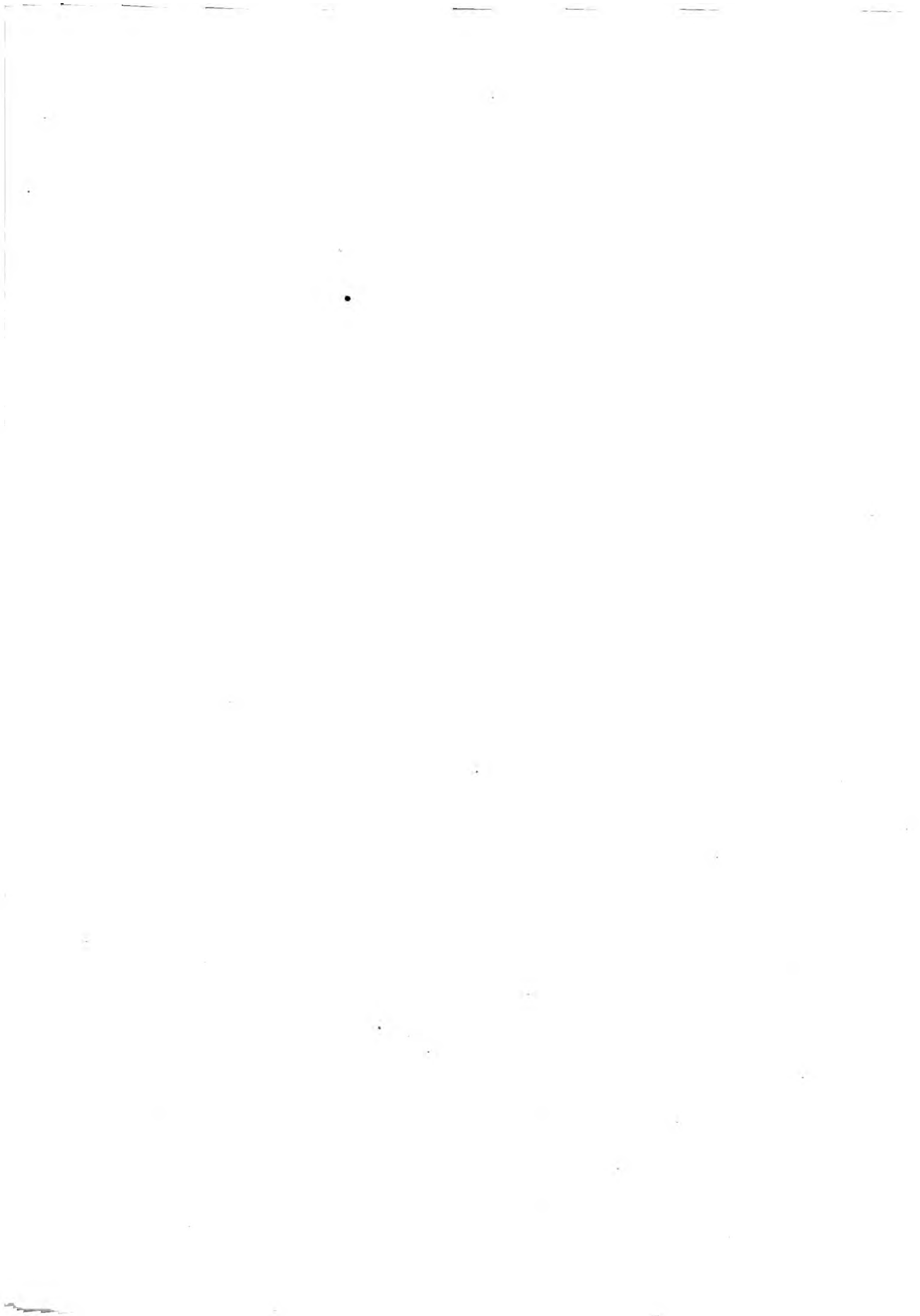


PLATE CCXC.

A P O N O G E T O N D I S T A C H Y O N .

Broad-leaved Aponogeton.

CLASS XI. ORDER IV.

DODECANDRIA TETRAGYNIA. Twelve Chives. Four Pointals.

GENERIC CHARACTER.

CALYX nullus, nisi squama spathacea exter-
num latus floris cingens, simplex, sessilis,
ovata, obtusa, integra, erecta, glabra, co-
lorata.

COROLLA nulla.

STAMINA. Filamenta undecim ad novemdecim,
superioribus floribus pauciora, intra spa-
tham et capsulas inserta, subulata, glabra,
alba, spatha multoties breviora. Antheræ
erectæ, bifidæ.

PISTILLA. Germina plerumque quatuor, raro
tria seu quinque. Styli nulli. Stigmata
subulata, incurvata.

PERICARPIUM. Capsulæ quatuor, rarius tres
seu quinque, ovatæ, subulato-acutæ, exte-
riore latere gibbæ, interiore planæ, glabræ,
unilocularis.

SEMINA, in quacumque capsula tria, basi cap-
sula affixa, sessilia, obovata, obtusissima,
sub-compressa, glabra.

EMPALEMENT none, except a sheathing scale
surrounding the outer side of the flower,
simple, fitting close, egg shaped, obtuse,
entire, upright, smooth, coloured.

BLOSSOM none.

CHIVES. Threads eleven to nineteen, in the
upper flowers fewer, inserted between the
spathe and the capsules, awl-shaped,
smooth, white, much shorter than the
spathe. Tips upright, two-cleft.

POINTALS. Seed-buds often four, seldom three
or five. Shafts none. Summits awl-shaped,
turned inwards.

SEED-VESSEL. Capsules four, seldom three or
five, egg-shaped, pointed, awl-shaped, un-
equally swelled on the outside, flat on the
inner, smoothed, one-celled.

SEEDS in each capsule three, fixed to the base of
it, fitting close, inversely egg-shaped, very
blunt, rather flattish, smooth.

SPECIFIC CHARACTER.

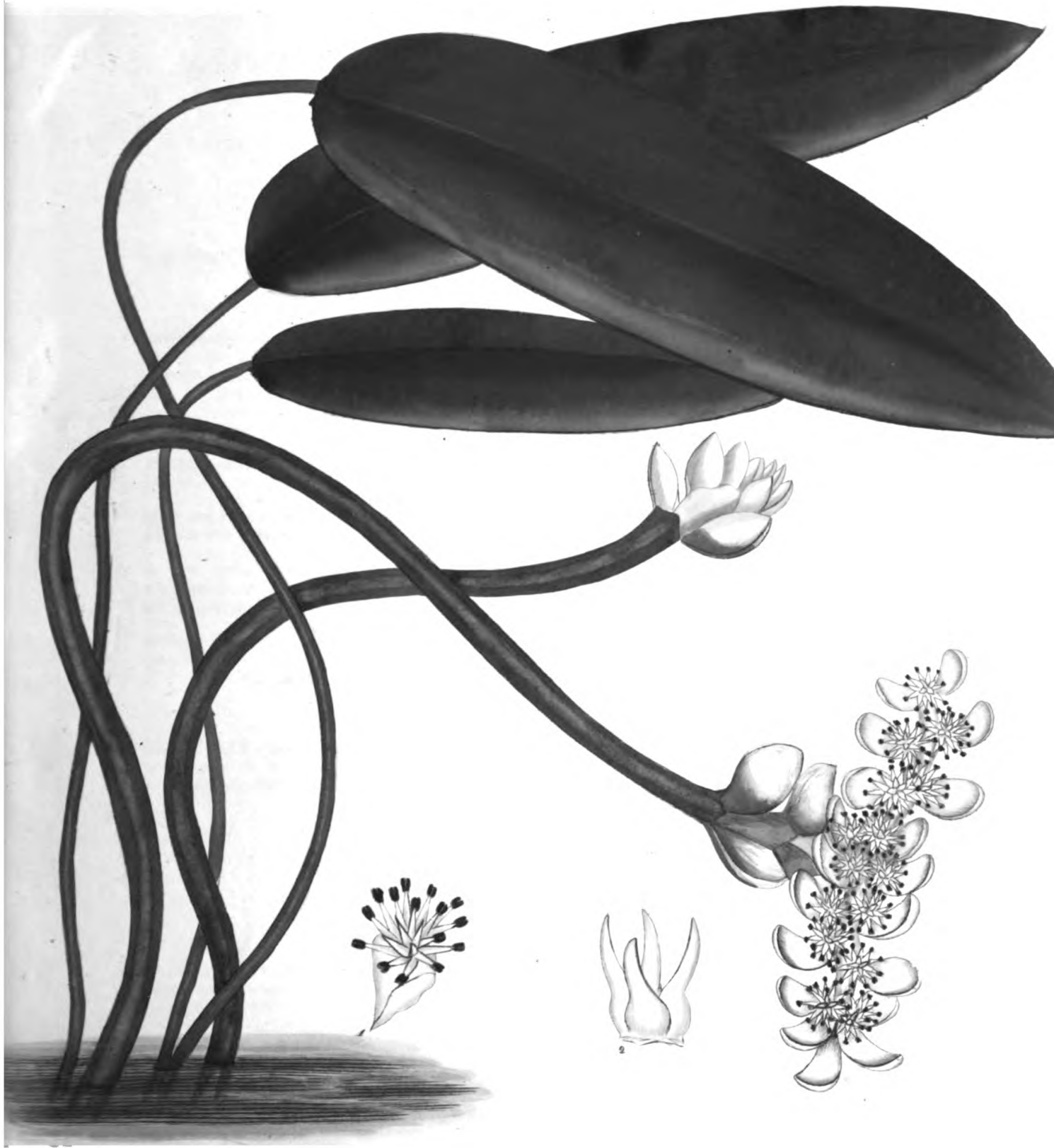
Aponogeton spica bifida; foliis elliptico-lanceo-
latis, natantibus; bracteis integris; flori-
bus polyandris.

Aponogeton with a two-branched spike; leaves
elliptically lance-shaped, floating; floral
leaves entire; flowers with many chives.

REFERENCE TO THE PLATE.

1. A Floret, with its floral leaf, magnified.
2. The Seed-buds and Summits, magnified.

THIS Genus of Plants in the Catalogue of the Kew Garden, is placed to the Class Heptandria, and perhaps, with as much propriety as where it now stands in Thunberg, Schreber, &c. for the number of chives in almost every floret differs in this, and all the other species, from six to twenty. It is there said to have been introduced to us in 1788 from the Cape of Good Hope by Mr. F. Masson. It is found near Cape Town in most of the brooks; is very sweet scented, and flowers from April till November. As an aquatic it is very desirable for those who cultivate those plants, the fragrance of the flowers being nearly equal to our *Nymphæa alba*, or White Water Lily; and this, added to the contrasted effect of the deep brown antheræ upon the pure white floral leaves, which indeed have the appearance of blossoms, give the whole an indescribable trait of beauty, peculiar to itself. Our figure was taken from a plant in the Hibbertian collection.



Sponogeton distachyon



PLATE CCXCI.
SENECIO PSEUDO-CHINA.
China-root Groundsel.

CLASS XIX. ORDER II.

SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous Pointals.

GENERIC CHARACTER.

| | |
|---|---|
| <p>CALYX. Communis calyculatus, conicus, truncatus; squamis subulatis, plurimis, in cylindrum superne contractum, parallelis, contiguis, æqualibus, paucioribus basin imbricatim tegentibus, apicibus emortuis.</p> <p>COROLLA. Composita, calyce altior; Corollulæ hermaphroditæ tubulosæ, numerosæ in disco; Femineæ ligulatæ in radio (si quæ adfint). <i>Propria</i> hermaphroditi infundibuliformis; limbo reflexo, quinquefido. <i>Femineis</i> (si quæ) oblonga, obsolete tridentata.</p> <p>STAMINA. Hermaphroditis; filamenta quinque, capillaria, minima. Anthera cylindracea, tubulosa.</p> <p>PISTILLUM utrisque; germen ovatum. Stylus filiformis, longitudine staminum. Stigmata duo, oblonga, revoluta.</p> <p>PERICARPIUM nullum. Calyx conico-connivens.</p> <p>SEMINA hermaphroditis solitaria, ovata. Pappus crinitus, longus. Femineis similima hermaphroditis.</p> <p>RECEPTACULUM nudum, planum.</p> | <p>EMPALEMENT. Common, double, conical, appearing cut off; scales awl-shaped, numerous, contracted above into a cylinder, parallel, contiguous, equal, the base tiled by a few scales, dead at the ends.</p> <p>BLOSSOM. Compound, taller than the cup; Hermaphrodite florets tubular, numerous in the disk; Female florets (if there are any) tongue-shaped in the circumference. <i>Hermaphrodite florets</i> funnel shaped, border reflexed, five-cleft. <i>Female florets</i> (if any) oblong, obscurely three-toothed.</p> <p>CHIVES. Of the hermaphrodite florets; five threads, hair-like, very small. Tips forming a tubular cylinder.</p> <p>POINTAL in either; Seed-bud egg shaped. Shaft thread-shaped, the length of the chives. Summits two, oblong, rolled back.</p> <p>SEED-VESSEL none. Empalement closing into a cone.</p> <p>SEEDS of hermaphrodite florets solitary, egg-shaped. Feather hairy, long. Females like the hermaphrodites.</p> <p>RECEPTACLE naked, flat.</p> |
|---|---|

SPECIFIC CHARACTER.

| | |
|--|---|
| <p>Senecio foliis sinuatis, integris, discoloribus; corollis purpureis; radice tuberosa.</p> | <p>Groundsel with obtusely indented leaves entire and two-coloured; blossoms purple; root tuberous.</p> |
|--|---|

REFERENCE TO THE PLATE.

1. The Cup.
2. A Female floret, of the ray or circumference.
3. A Pointal of the female floret magnified.
4. An Hermaphrodite floret of the disk or centre.
5. The Chives and Pointal of an Hermaphrodite floret, magnified.

THE roots of this plant were received at the same time with the double Camellias, China Roses, &c. from China, by the late J. Slater, Esq. of Laytonstone, Essex; we have, nevertheless, good reason to believe it was known formerly in our gardens; but has been certainly lost, for many years, to us. It is said to have been cultivated by James Sherrard, M. D. in 1732, as copied from Dellinens's Hortus Elthamensis, into the Kew Catalogue. Miller speaks of it as flowering freely, and perfecting its seeds; whereas, in the Hort. Kew. they omit its time of flowering, which, had it ever flowered there, would certainly have been noted. Our drawing was taken in the month of July last year, 1802, from a plant in the Hibbertian Collection, the first and only time we have ever seen it flower in England. It is propagated by the roots, which are large and fleshy; the plant is herbaceous, and should have but little water during the winter months, as the roots are very subject to rot; they are imported from India as a drug, under the name of China-root. Must be kept in the hot-house, and planted in rich earth.



Senecio

U.S. DEPARTMENT OF THE INTERIOR

Geological Survey

Water Resources Division
Washington, D.C.

Report of Investigations

Public

1977

U.S. Geological Survey, Chicago, Ill., &
U.S. Geological Survey, Denver, Colo.



Amisio Pseudo-China

collected at the ...
by the ...



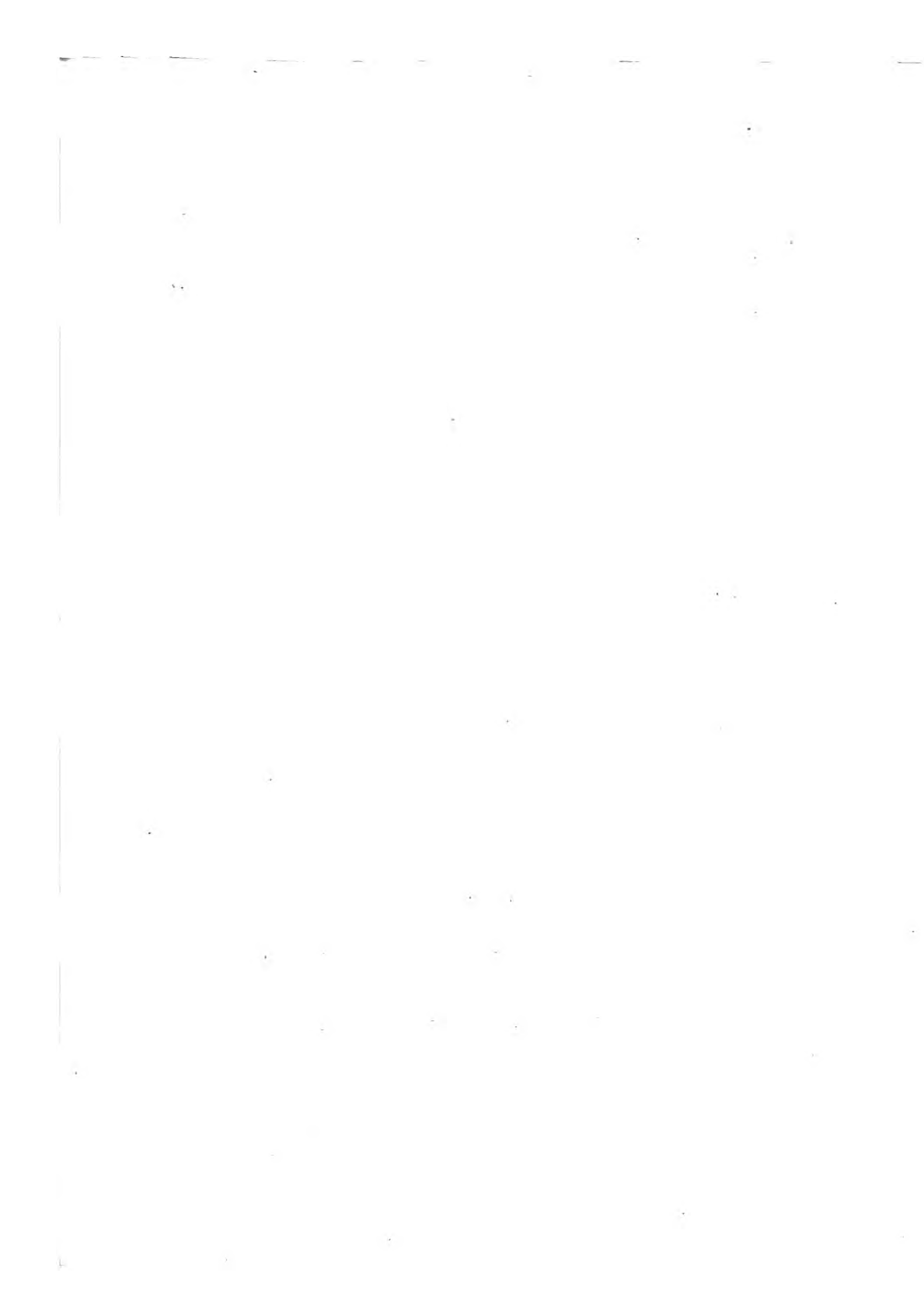


PLATE CCXCII.

GERANIUM UNDULATUM.

Waved-flowered Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus rotatus, penta-coccus. || ONE POINTAL. Five Summits. Fruit furnished with long awns, five dry berries.

SPECIFIC CHARACTER.

Geranium foliis lanceolatis ciliatis, sub-integris; petalis sub-æqualibus, sub-linearibus, undulatis; floribus umbellatis, pentandris; radice tuberosa. || Geranium with lance-shaped flowers, fringed nearly intire; petals almost equal, nearly linear, waved; flowers grow in umbels, five fertile chives; root tuberous.

REFERENCE TO THE PLATE.

1. The Empalement cut open, to shew its tubular structure.
2. The Chives and Pointal, natural size.
3. The Chives, magnified and cut open.
4. The Pointal and Seed-bud, magnified.

THIS tuberous rooted Geranium, from the Cape of Good Hope, has some affinity with the *G. spathulatum*, as to the shape of the leaves; but the whole habit of the plant is so totally different, that we could not, with any degree of propriety, consider it as a variety of that species. Our figure was taken from a plant in the Hibbertian collection, to which it was introduced in the year 1800, by Mr. Niven. It flowers in June, and may be propagated by the root. The treatment is the same as that required for the rest, of this division, of the Genus.



Geranium Undulatum

From the Herb. de Paris by the
of M. Adrien & Ponceau del.



PLATE CCXCIII.

LACHNÆA PURPUREA.

Purple-flowered Lachnæa.

CLASS VIII. ORDER I.

OCTANDRIA MONOGYNIA. Eight Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX nullus. Corolla quadrifida; limbo in-æquali. Semen unum, sub-baccatum. || CUP none. Blossom four-cleft; border unequal. One seed, like a berry.
See LACHNÆA ERIOCEPHALA, Pl. CIV. Vol. II.

SPECIFIC CHARACTER.

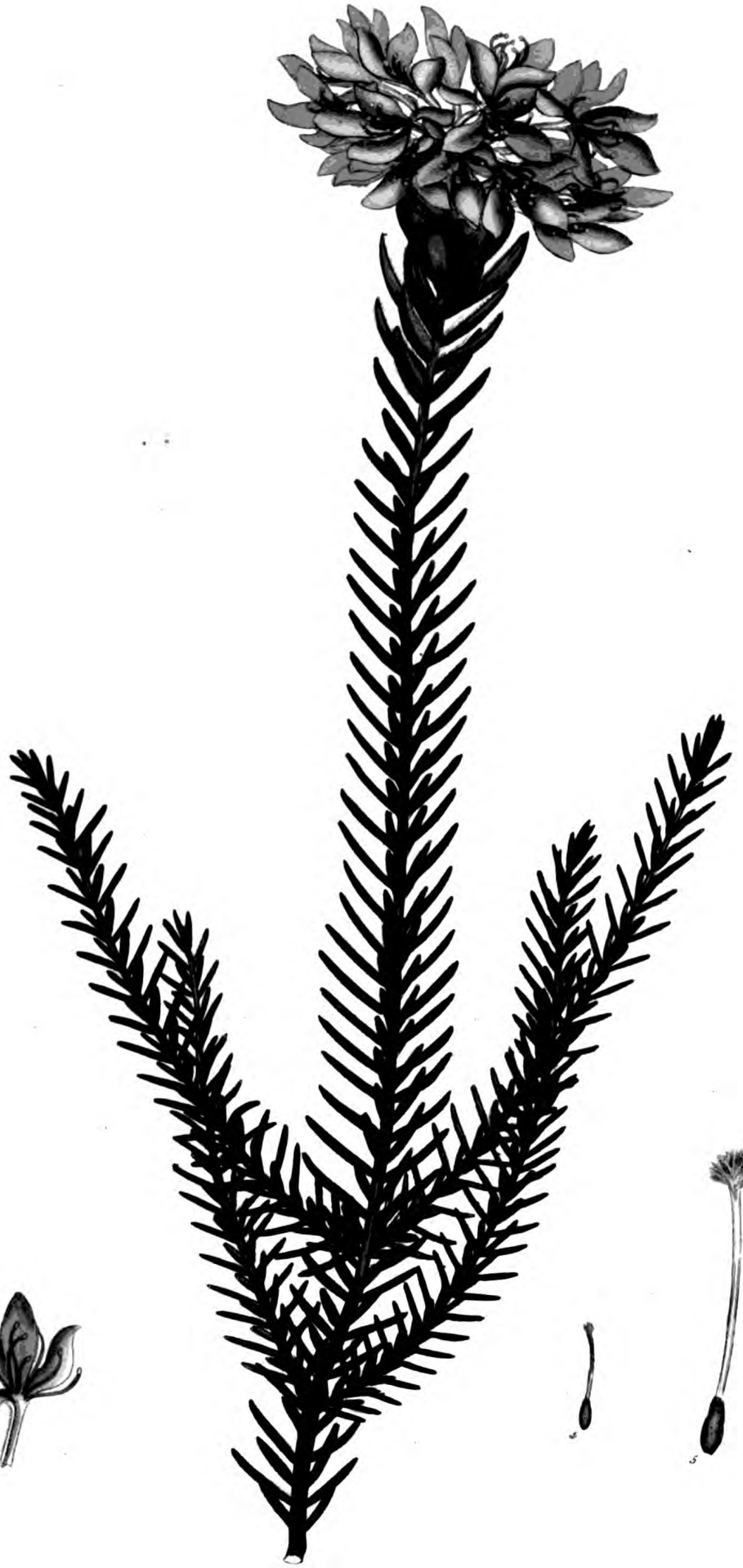
Lachnæa capitulis solitariis; corollis glabris, purpureis; foliis trigonis, obtusis, quadrifariam imbricatis. || Lachnæa with solitary heads of flowers; blossoms smooth, purple; leaves three-sided, obtuse, tiled in four-rows.

REFERENCE TO THE PLATE.

1. One of the floral Leaves, which surround the head of flowers at the base.
2. A Flower complete.
3. A Blossom cut open, the lower part cut off, to show the insertion of the Chives at the mouth.
4. The Pointal, natural size.
5. The same magnified.

THIS most singular genus of plants, in external appearance so resembling passerina, yet so perfectly distinct in the parts of fructification, is certainly amongst the handsomest of the natural order in which it ranks. The long slender chives which extend nearly to the length of the border of the blossom, independent of the singular retrofraction of one of its segments, give it a character, we think, decidedly sufficient on which to have formed the Genus. This is the third species known; it was introduced to the Hibbertian collection, in 1800, by Mr. Niven, from the Cape of Good Hope. It is a very delicate plant, subject to be destroyed by damps, flowers in July, and may be increased by cuttings. It thrives best in a mixture of light sand and loam.

Thunberg, in his Prod. Plant. Cap. has referred the whole genus to Passerina.



Lachnaceae purpurea

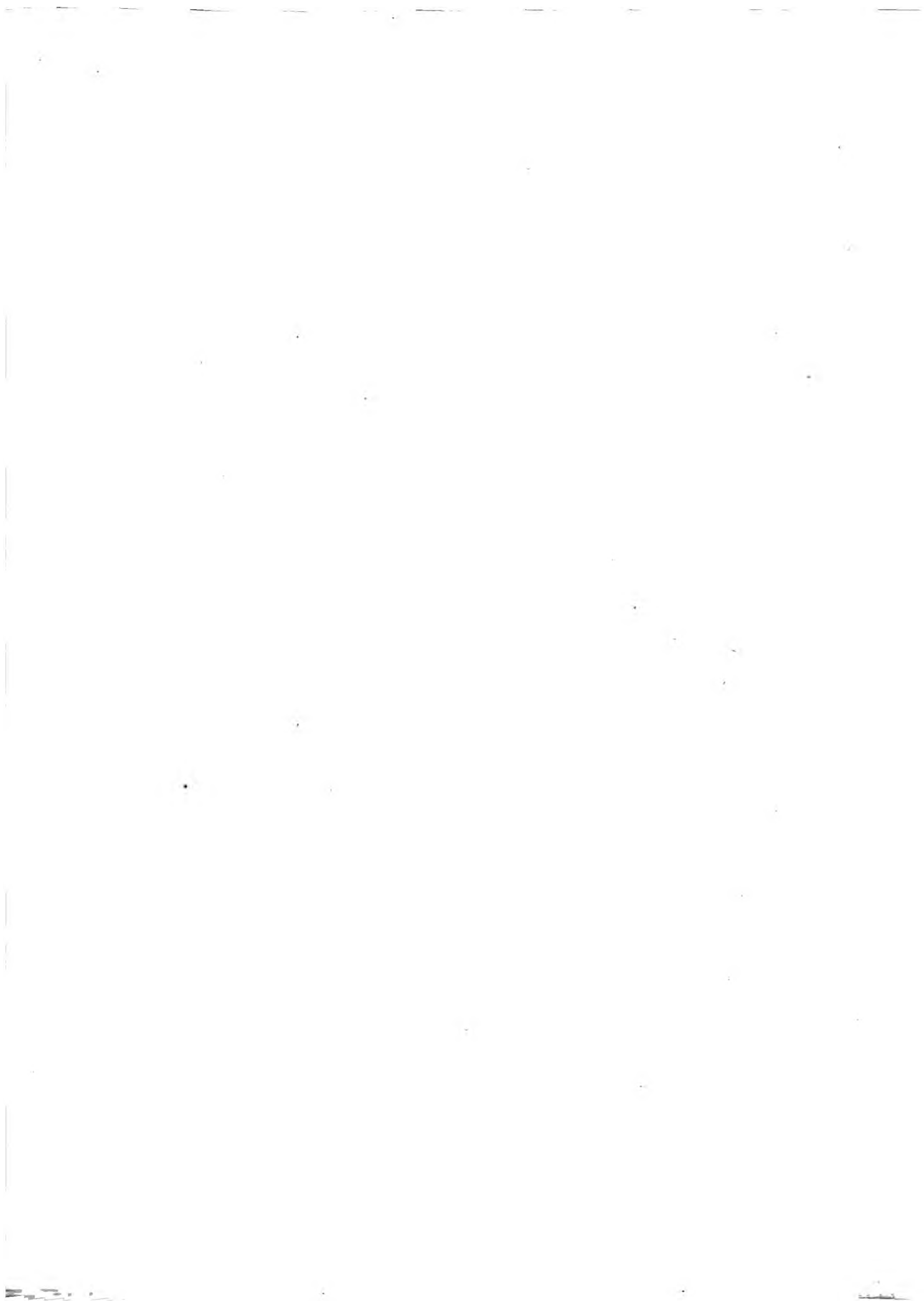


PLATE CCXCIV.

PROTEA CANDICANS.

Hoary-leaved Protea.

CLASS IV. ORDER I.

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | |
|---|---|
| COROLLA 4-fida, seu 4-petala. Antheræ lineares, insertæ petalis infra apicem. Calyx proprius, nullus. Semina solitaria. | BLOSSOM 4-cleft, or 4 petals. Tips linear, inserted into the petals below the point. Cup, proper, none. Seeds solitary. |
|---|---|

See *PROTEA FORMOSA*, Pl. XVII. Vol. I.

SPECIFIC CHARACTER.

| | |
|---|--|
| <i>Protea</i> foliis apicibus tridentatis, elliptico-lanceolatis, obliquis, candidiffimis; capitulis terminalibus; calyx imbricatus, squamis acutis; corollis luteis. | <i>Protea</i> with leaves three-toothed at the ends, elliptically-lance-shaped, oblique and very hoary; heads of flowers terminal; cup tiled, scales pointed, blossoms yellow. |
|---|--|

REFERENCE TO THE PLATE.

1. A Floret, the petals separated, natural size.
2. One of the Petals magnified.
3. The Pointal, and Seed-bud, natural size, the Summit detached, magnified.
4. The Empalement, natural size.

OUR present plant is one of the rarest *Proteas* at this time in England; as, we believe, there has never been but one importation of the seeds from the Cape, and no one species of this numerous genus is with more difficulty propagated by cuttings. Its lower leaves are apt to suffer much from damps in winter; in consequence, the stem becomes bare till near the top; the plant grows about three feet high, and flowers in August, or September. Our figure was taken from the Hibbertian collection, where it flowered, in 1802, for the first time in Britain. We owe its introduction to Messrs. Lee and Kennedy, Hammersmith, about the year 1790. We have our doubts of this plant being the *P. tomentosa* of Thunberg; for although he, in his description of that species, comes nigh many of the characters of *P. candicans*, yet his determining the leaves to be linear, and downy, and our having drawings, taken from two other species, approaching this in habit, yet nigher affined to *P. tomentosa*, we have retained his specific title for one of them, the other yet unnamed; which will both be given in due course.



Protea candidans



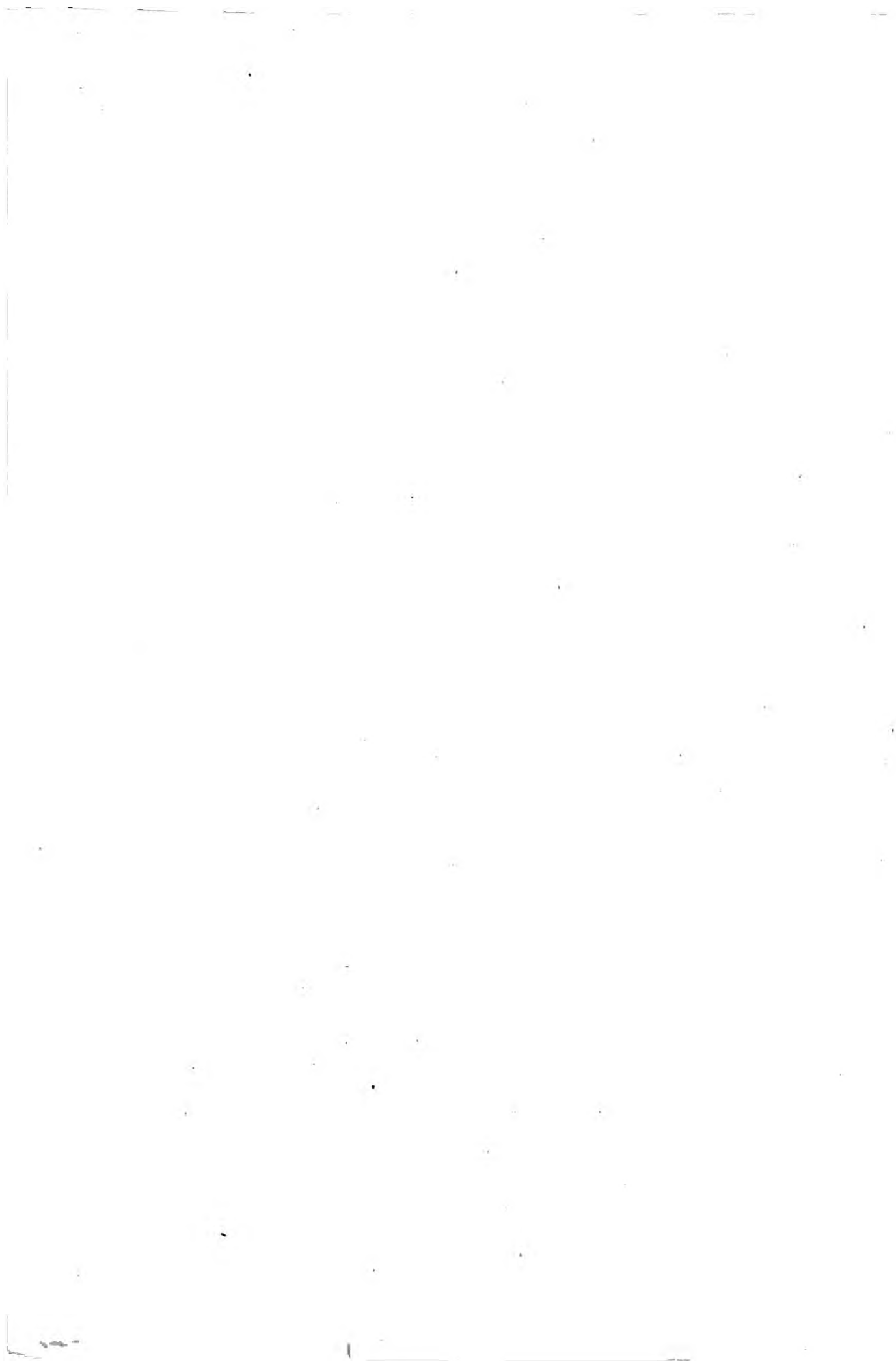


PLATE CCXCV.

PASSIFLORA AURANTIA.

Norfolk Island Passion-Flower.

CLASS XX. ORDER IV.

GYNANDRIA PENTANDRIA. Chives on the Pointal. Five Chives.

ESSENTIAL GENERIC CHARACTER.

TRIGYNA. Calyx 5-phyllus. Petala 5. Nectarium corona. Bacca pedicellata.

THREE styles. Cup 5-leaved. Petals 5. Honey-cup forming a crown. Berry standing on a foot-stalk.

See Pl. CCVII. PASSIFLORA MALIFORMIS. Vol. IV.

SPECIFIC CHARACTER.

Passiflora foliis trilobis, lobis oblongis obtusis, medio longiore; petiolis biglandulosis; nectario cylindraceo, denticulato; corolla aurantia.

Passion-Flower with three-lobed leaves; lobes oblong, obtuse, the middle one the longest; foot-stalks with two glands; honey-cup cylindrical and toothletted; blossom orange-coloured.

REFERENCE TO THE PLATE.

1. Exhibits the half of a flower as cut perpendicularly through the middle, with the whole of the Pointal and Chives in their place.

THIS species of Passion Flower, from Norfolk Island, was introduced to Britain in the year 1792, and was first raised, from seeds, at the Hammer-smith Nurseries. It is a greenhouse plant, loving heat and drought, thrives in a light sandy soil, and is readily increased by cuttings; which should be placed in the heat of the bark-bed in the hothouse, or cucumber hot-bed, in the month of April.

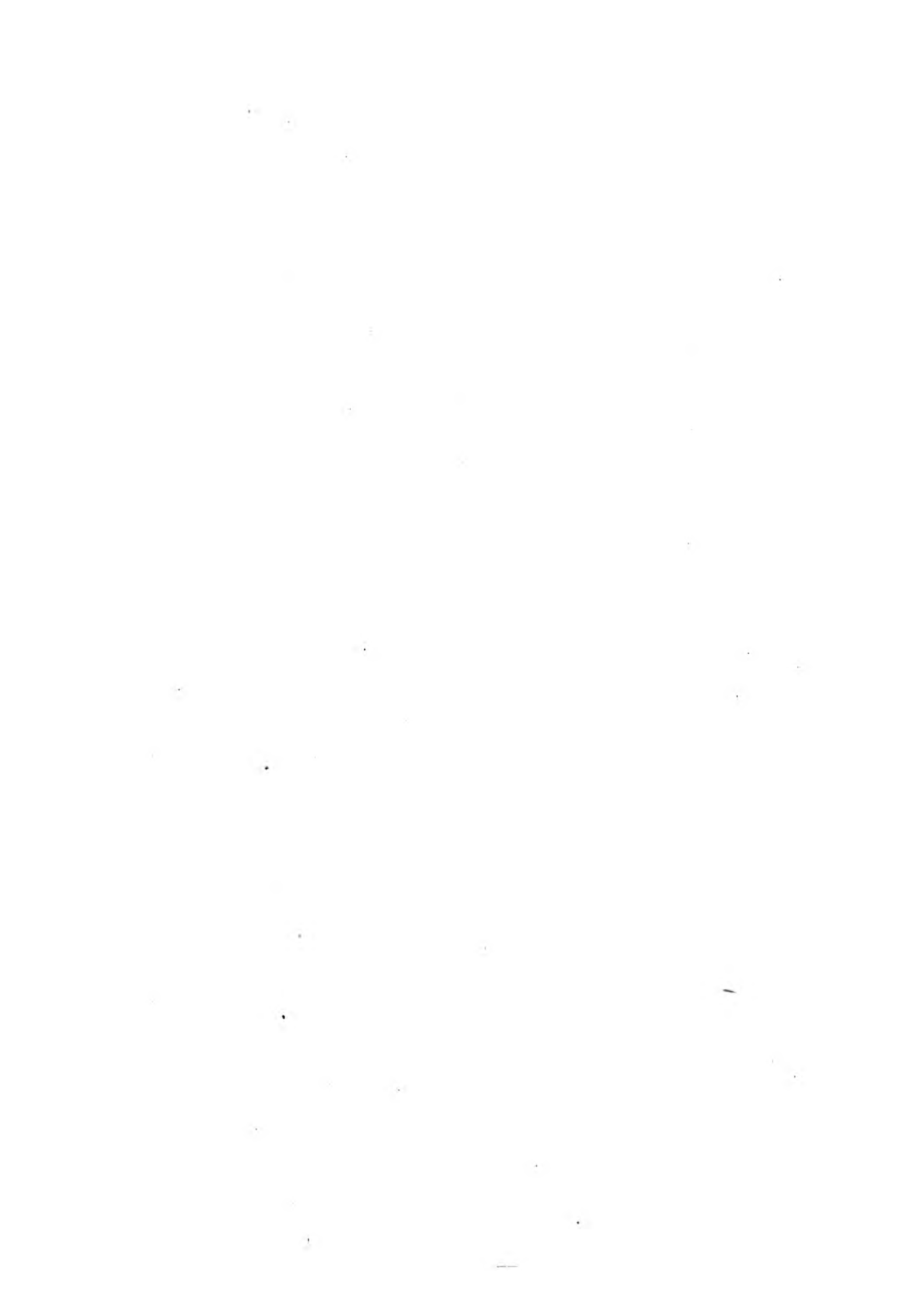
In the young state of the plant, the leaves are less harsh, appear rather scolloped than lobed, and much resemble in shape those of the Maiden-hair Fern, or *Adiantum Capillus-veneris*; whence the trivial name, *adiantifolia*, which it bears in most collections. But, as there can be no doubt of our present plant being that designed by Forster, in his *Prod. flor. insul. austral.* No. 326; of Cavanilles in his *Dissertationes classis Monadelphicæ*, Diff. 10. p. 457; and as lastly quoted by Willdenow, in his new *Sp. Plant.* Tom. 3, Part 1, p. 620; we have, without hesitation, adopted the specific title it there bears. As an addition to the very few handsome climbing plants fit to decorate the trellis-work of our modern greenhouses, or conservatories, this plant must be considered as a great acquisition; as the growth is rapid, the foliage of a fine green, and the flowering abundant.

Our figure was taken from a plant in the conservatory of the Hibbertian collection, Clapham common.



Passiflora aurantia

Painted by ...
Engraved by ...



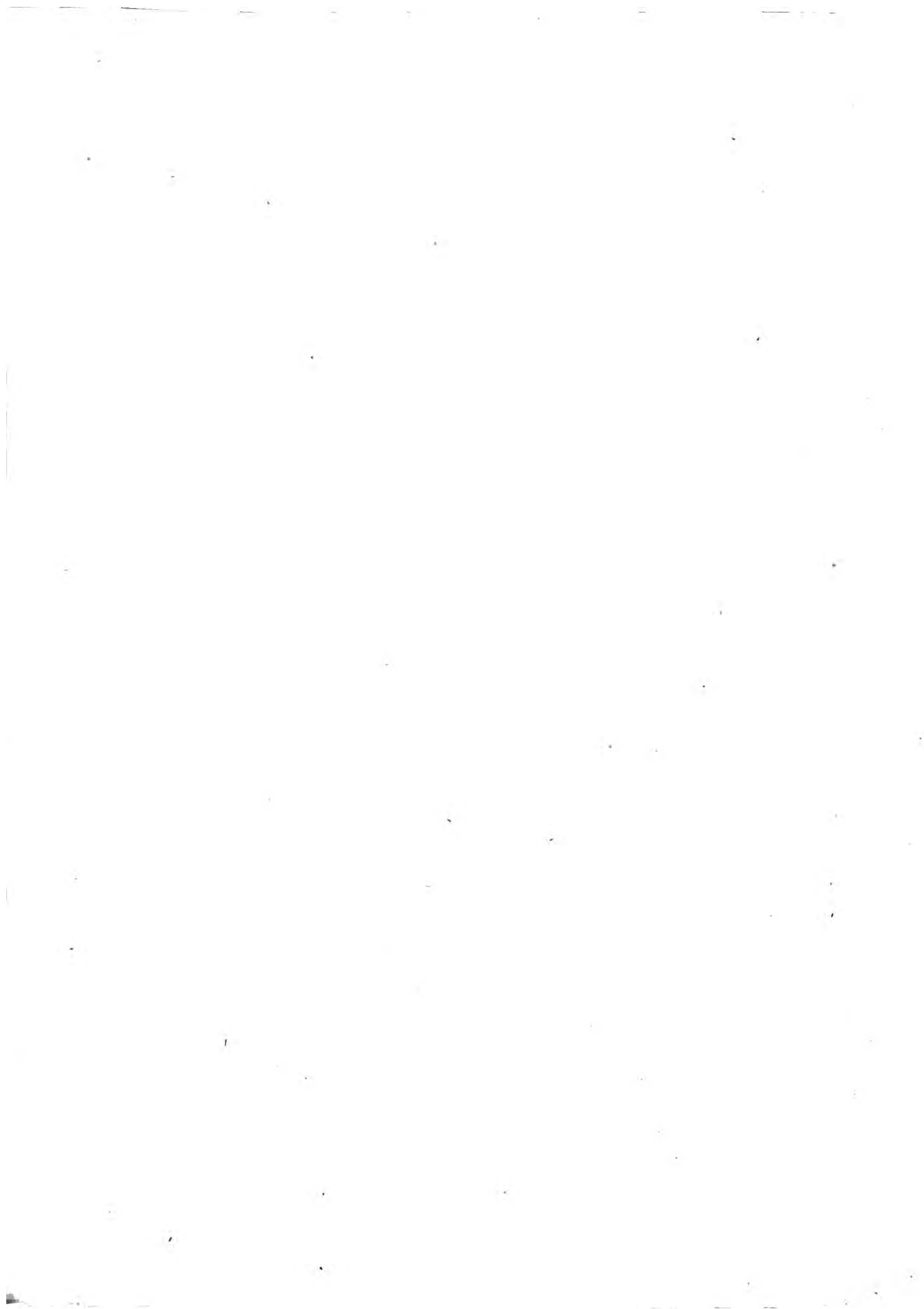


PLATE CCXCVI.

LACHENALIA ROSEA.

Rose-coloured Lachenalia.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 6-partita, infera; petalis tribus interioribus longioribus. Stamina erecta. Capsula subovata, trialata. Semina globosa.

Blossom 6-divided, beneath; the three inner petals the longest. Chives erect. Capsule nearly egg-shaped, three-winged. Seeds globular.

See LACHENALIA PENDULA, Pl. XLI. Vol. I.

SPECIFIC CHARACTER.

Lachenalia foliis binis, lanceolato-linearibus, obtusis; petalis interioribus longioribus; scapo lævi filiforme; corollis roseis.

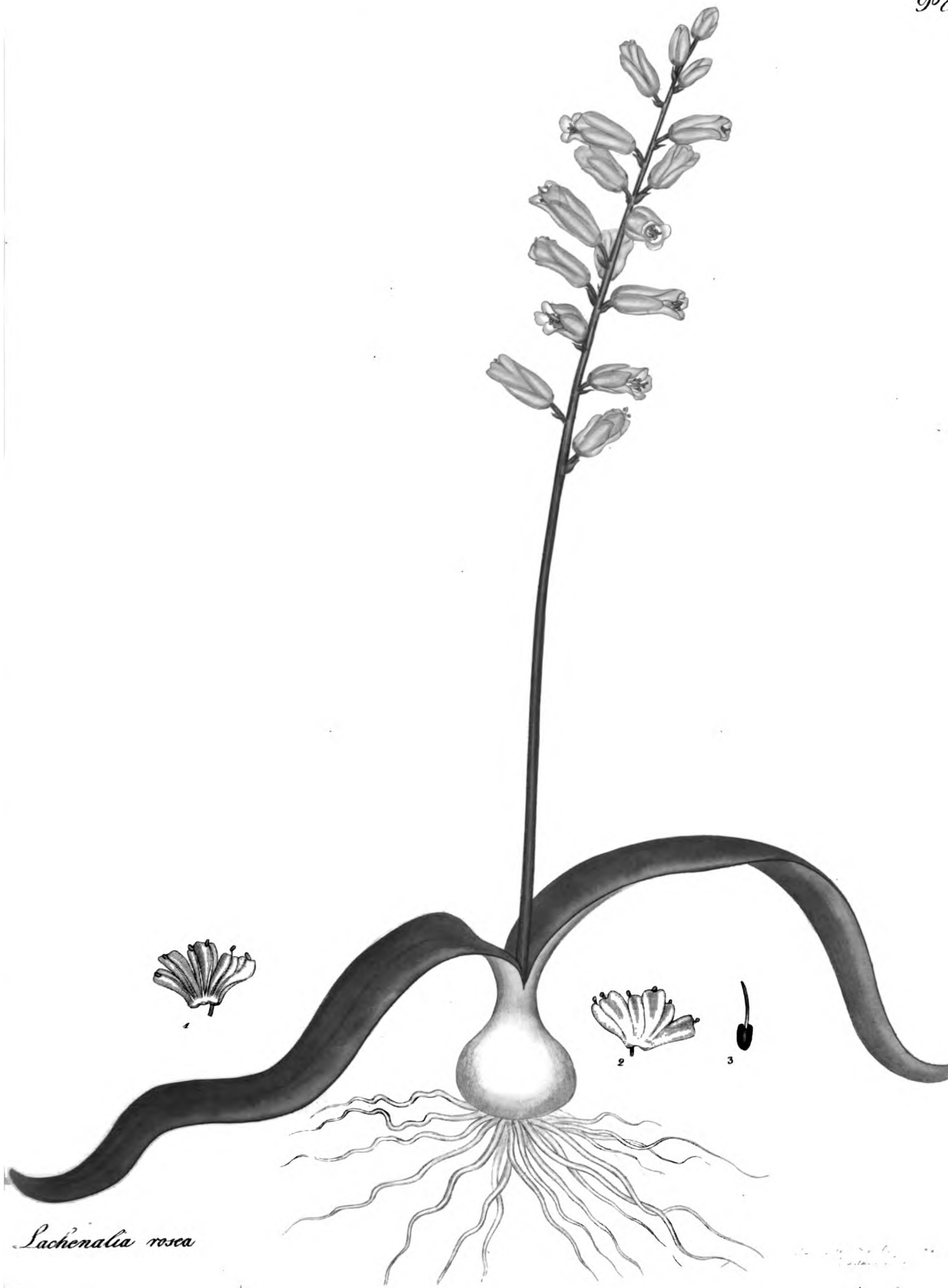
Lachenalia with two leaves between, lance and linear-shaped, obtuse; the inner petals the longest; flower-stem smooth and thread-shaped; blossoms rose-coloured.

REFERENCE TO THE PLATE.

1. A Blossom cut open, shewn from the inside, the Chives in their place.
2. The same, shewn from the outside.
3. The Seed-bud and Pointal, natural size.

THIS plant we believe to be perfectly new to Britain, and in no other collection, at present, than that of G. Hibbert, Esq. Clapham; where the drawing of our figure was taken in May, 1802; and to which it had been added, the preceding year, by Mr. Niven, from the Cape of Good Hope.

It is a tender bulb, and rather impatient of moisture; increases by the bulb; should not be removed from its pot but to give it fresh earth, and is fond of a light, loamy soil. It is without scent.



Satchenalia rosea

Satchenalia rosea
Lindl. Bot. Beechey.



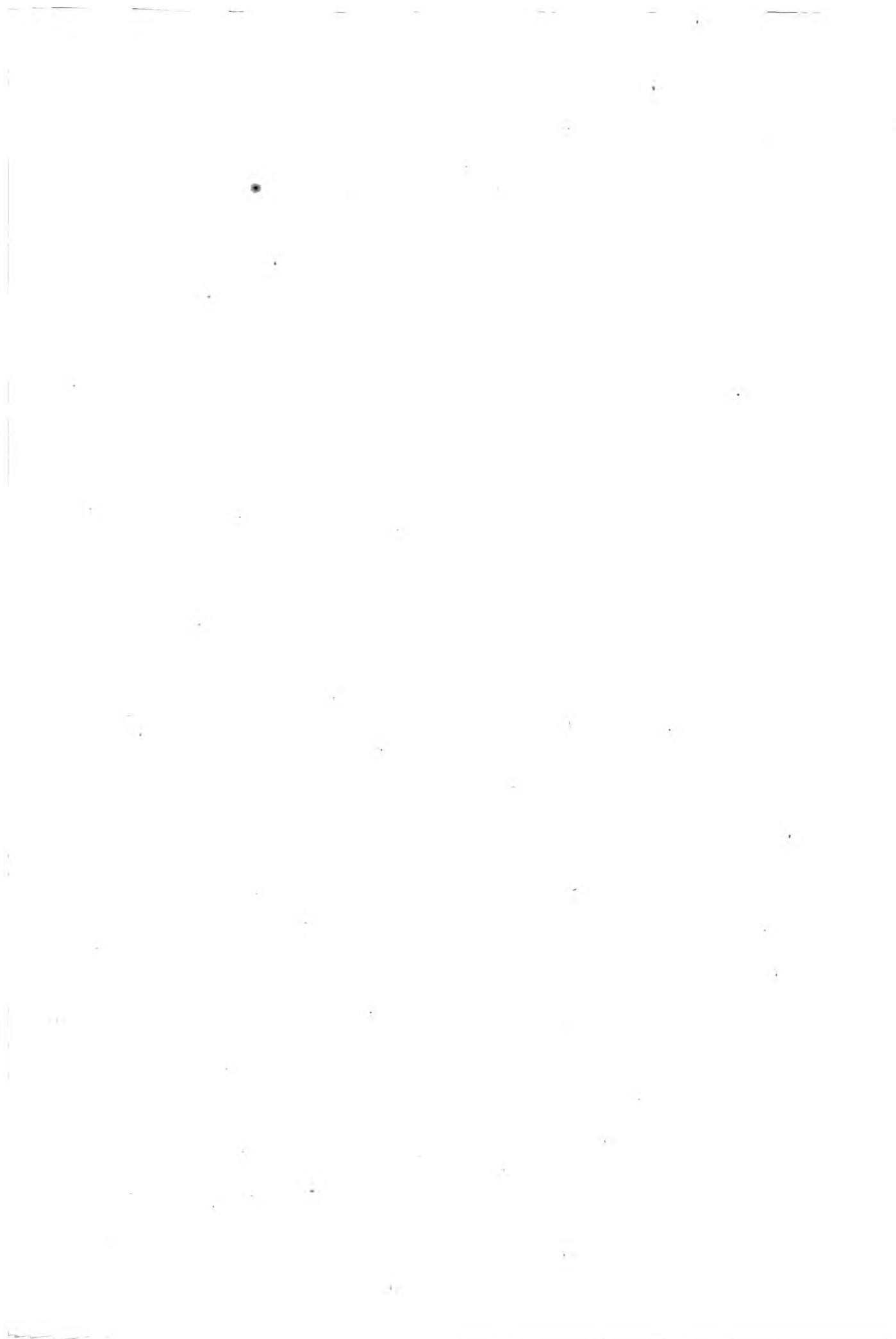


PLATE CCXCVII.

N Y M P H Æ A O D O R A T A .

Sweet-scented Water-Lily.

CLASS XIII. ORDER I.

POLIANDRIA MONOGYNIA. Many Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX 4, 5, seu 6-phyllus. Corolla polypetala.
Bacca multi-ocularis, truncata.

Cup 4, 5, or 6-leaved. Blossom many petals.
Berry many-celled, appearing cut off at top.
See *NYPHÆA CÆRULEA*, Pl. CCXCVII. Vol. III.

SPECIFIC CHARACTER.

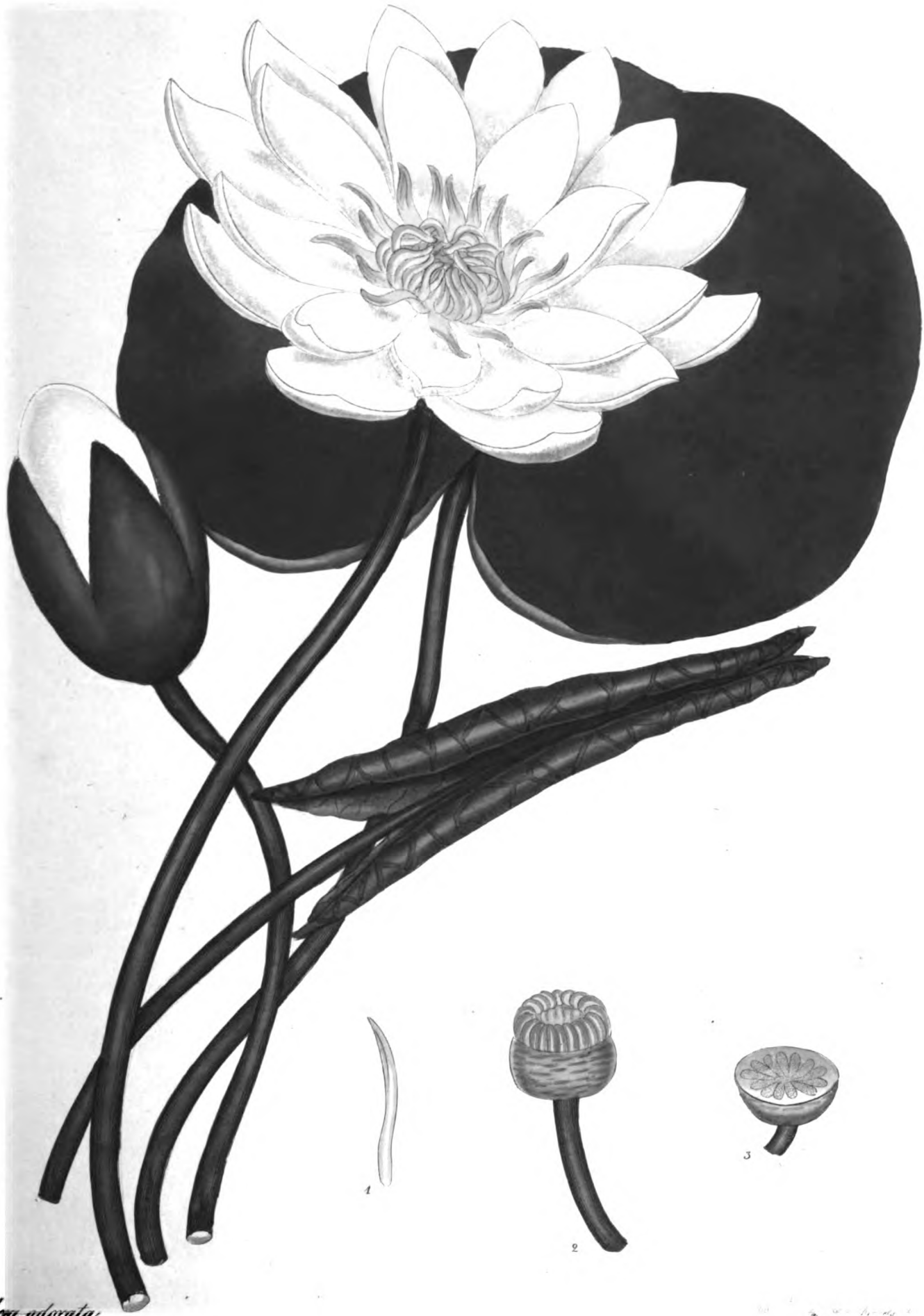
Nymphæa foliis subrotundis, integris emarginatis, lobis divaricatis, obtusissimis, margine parum incurvatis; calyce tetraphyllo; flore albo.

Water Lily with almost round leaves, entire, and notched at the end; lobes straddling, very obtuse, and turned up slightly at the edge; cup four-leaved; flower white.

REFERENCE TO THE PLATE.

1. A Chive.
2. The Seed-bud and Summits.
3. The Seed-bud cut transversely.

THIS species of Water-Lily we should consider rather as a variety, than as a distinct species; it has every character of our common white Water-Lily, except the size and hardness; it has the same powerful fragrance, but will not stand the severity of our winters. It is a native of Carolina and Virginia, North America; was introduced to us in the year 1786, by William Hamilton, Esq. of Philadelphia, and flowers during the summer months, if kept in the hot-house. Requires the same treatment as the blue species from the Cape of Good Hope. May be increased from the seed, or from the root. Our drawing was taken from a plant in the Clapham collection.



Nymphaea odorata

Bot. Mag. London
 1844
 1845
 1846
 1847
 1848
 1849
 1850
 1851
 1852
 1853
 1854
 1855
 1856
 1857
 1858
 1859
 1860
 1861
 1862
 1863
 1864
 1865
 1866
 1867
 1868
 1869
 1870
 1871
 1872
 1873
 1874
 1875
 1876
 1877
 1878
 1879
 1880
 1881
 1882
 1883
 1884
 1885
 1886
 1887
 1888
 1889
 1890
 1891
 1892
 1893
 1894
 1895
 1896
 1897
 1898
 1899
 1900

1 1111 1 1

PLATE CCXCVIII.

ANTHERICUM COSTATUM.

Ribbed-leaved Anthericum.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

GENERIC CHARACTER.

CALYX, nullus.
COROLLA. Petala sex, oblonga, obtusa, patentissima.
STAMINA. Filamenta sex, subulata, erecta. Antheræ parvæ, incumbentes, quadrifurcæ.
PISTILLUM. Germen obsolete trigonum. Stylus simplex, longitudine staminum. Stigma obtusum, trigonum.
PERICARPIUM. Capsula ovata, glabra, trifurca, trilocularis, trivalvis.
SEMINA numerosa, angulata.

EMPALEMENT, none.
BLOSSOM. Six petals, oblong, blunt, spreading very much.
CHIVES. Six threads, awl-shaped, upright. Tips small, laying on the threads, four-furrowed.
POINTAL. Seed-bud bluntly three-sided. Shaft simple, the length of the chives. Summit blunt, and three-cornered.
SEED-VESSEL. Capsule egg-shaped, smooth, three-furrowed, three-valved.
SEEDS numerous, angulated.

SPECIFIC CHARACTER.

Anthericum foliis hirsutis, planis, costatis, lineari-ensiformibus, supra medium reflexis; scapo simplici, glabro; floribus albis; radice bulboso.

Anthericum with hairy, flat, leaves, ribbed, lineari-sword-shaped, turned back from the middle; flower-stem simple, smooth; flowers white, root bulbous.

REFERENCE TO THE PLATE.

1. The Chives and Pointal, magnified.
2. The Seed-bud, Shaft, and Summit, magnified.
3. The half of the Seed-bud cut transversely, magnified.

It is much to be lamented that we, as yet, have not discovered a mode of treatment by which many of the species of *Albuca*, *Ornithogalum*, *Anthericum*, &c. from the Cape, might be induced to flower with us, after the first year from their importation; since many of them never produce more than a few leaves afterwards; and this plant, we fear, is amongst the number. It makes a very handsome and sweet bunch of flowers, which have considerable duration, not less than a month from their first expansion. We can say little as to the propagation and culture; as it has not as yet increased, nor has it produced any flowers since our drawing was made, in August 1801. We think it is only in the Hibbertian Collection, to which it was introduced by Mr. Niven, in 1800, from the Cape of Good Hope.



Anthericum costatum

Anthericum costatum L. f. *Bot. Beech.* t. 1. p. 10. f. 1. 1753.

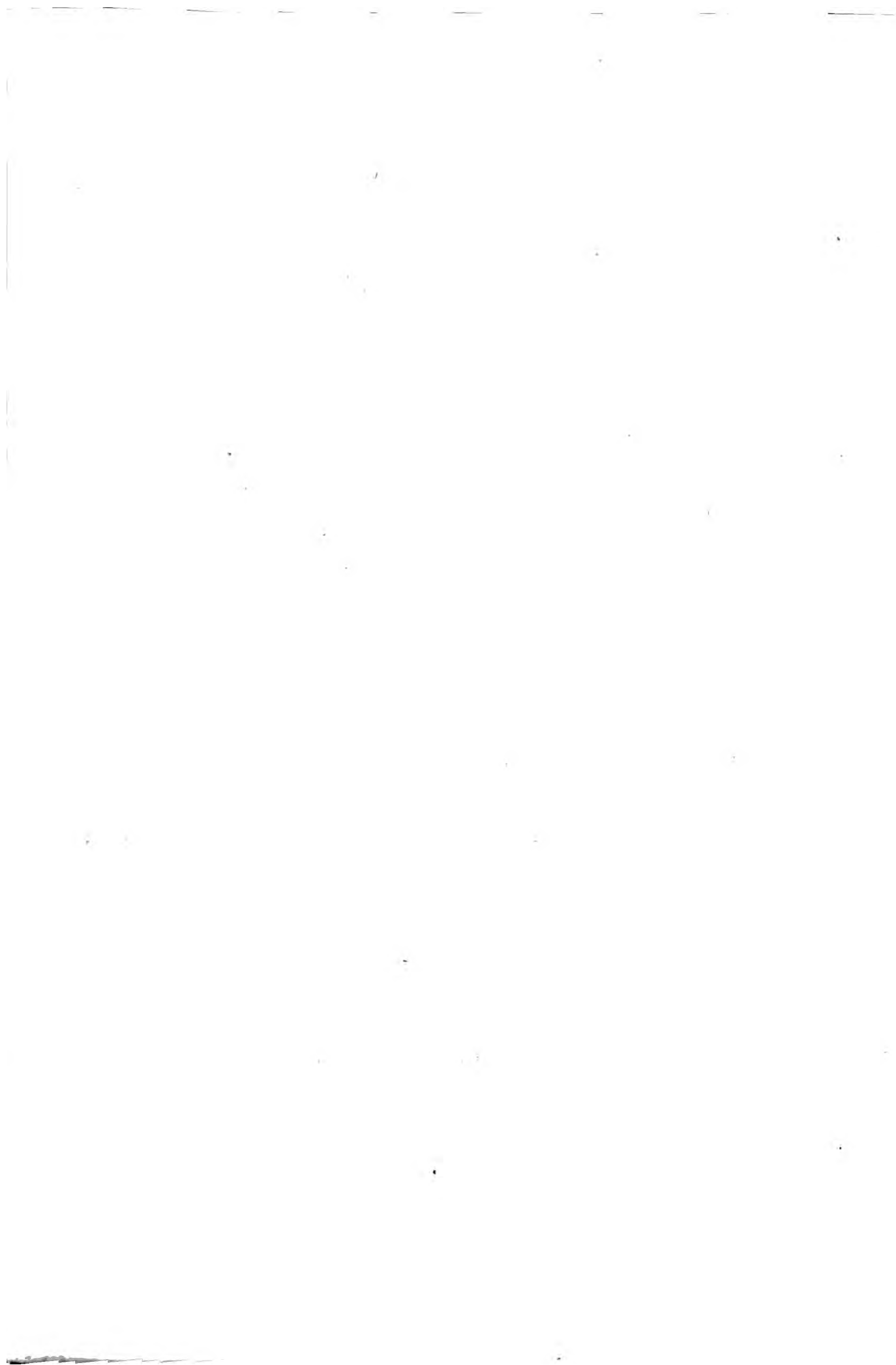


PLATE CCXCIX.

LACHENALIA REFLEXA.

Reflexed-flowered Lachenalia.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 6-partita, infera; petalis tribus interioribus longioribus. Stamina erecta. Capsula subovata, trialata. Semina globosa.

BLOSSOM 6-divided, beneath; the three inner petals the longest. Chives erect. Capsule nearly egg-shaped, three-winged. Seeds globular.

See LACHENALIA PENDULA, Pl. XLI. Vol. I.

SPECIFIC CHARACTER.

Lachenalia foliis ovato-lanceolatis, plurimis; petalis equalibus, acutis, reflexis, rubro punctatis; germine pedicellato, subgloboso.

Lachenalia with leaves between egg and lance-shaped, numerous; petals equal, pointed, reflexed, and dotted with red spots; seed-bud with a foot-stalk, and roundish.

REFERENCE TO THE PLATE.

1. One of the Petals, which are divided to the base, with its chive.
2. The Seed-bud, Shaft, and Summit, natural size.
3. The same, magnified.

THIS curious Lachenalia, for such it must be considered, though in many parts widely different from its congeners, is a native of the Cape of Good Hope, and was received from thence in the year 1798, by J. Vere, Esq. of Kenfington Gore; in whose collection, we believe, it is only to be found, and where our drawing was taken in the month of June 1801. It is a tender bulb, and requires a considerable degree of heat to make it flower, and does not appear to have any tendency to increase, although, Mr. Anderson informs us, he has tried it in various situations and soils to that end.



Cachenalia reflexa

Drawn at the Bot. ...
by H. A. ...



PLATE CCC.

GERANIUM OXALIDIFOLIUM.

Wood-Sorrel-leaved Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus rotatus, penta-coccus. || ONE POINTAL. Five Summits. Fruit furnished with long awns, five dry berries.

SPECIFIC CHARACTER.

Geranium foliis ternatis, foliolis ovatis, obtusis, ciliatis; floribus pentandris; radice tuberosa. || Geranium with leaves composed of three leaflets, which are egg-shaped, obtuse, and fringed; flowers with five fertile chives; root tuberous.

REFERENCE TO THE PLATE.

1. The Empalement of a flower cut open, to shew its tubular structure.
2. The Chives and Pointal, natural size.
3. The Chives spread open, magnified.
4. The Pointal, natural size.
5. The same, magnified.

THE species of Geranium here figured, is of the same character, in all points of view, as most of the tuberous species lately introduced from the Cape by G. Hibbert, Esq. in whose collection, at Clapham, it is only to be found, at present; and where our drawing was taken, in July 1802.



Geranium oxalidifolium

Handwritten text, likely a signature or date, located in the bottom right corner.

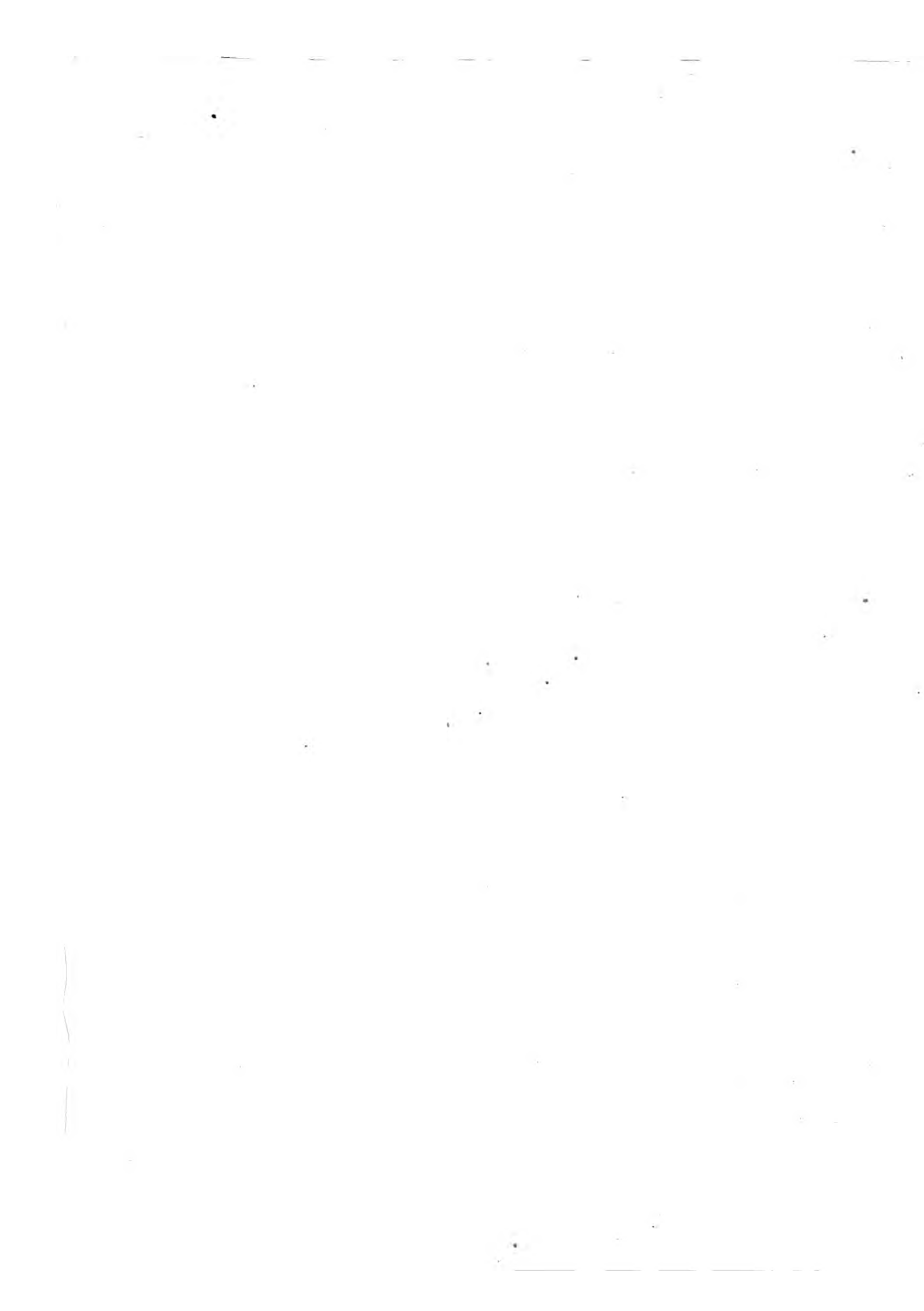


PLATE CCCI.

PROTEA GRANDIFLORA. *Var. foliis undulatis.*

Large-flowered Protea. Waved-leaved Var.

CLASS IV. ORDER I.

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 4-fida, seu 4-petala. Antheræ lineares, infertæ petalis infra apicem. Calyx proprius nullus. Semina folitaria.

BLOSSOM 4-cleft, or 4 petals. Tips linear, inserted into the petals below the end. Cup proper, none. Seeds solitary.

See PROTEA FORMOSA, Pl. XVII. Vol. I.

SPECIFIC CHARACTER.

Protea foliis lanceolatis glaberrimis, utrinque acuminatis, marginibus subcallofis, parum undulatis; squamæ calycinæ lanceolatæ erectæ, interiores pilis longissimis nigris cristatæ.

Protea with lance-shaped leaves, smooth, tapered to both ends, rather thickened at the edges, and a little waved; the scales of the empalement are lance-shaped and upright, the inner ones crested, with very long black hairs.

REFERENCE TO THE PLATE.

1. A Flower complete, as it stands on the receptacle of the common cup.
2. The same, with one of the petals detached, to shew the situation of the chives near the ends.
3. The Pointal, complete.

THE round tufts of long hair which terminate the inner scales of the cup, in this Protea, and its varieties, constitute its principal, distinguishing specific character from *P. speciosa*; whose scales are fringed at the summits, and to which our present plant is nearest allied. It is, without doubt, one of the handsomest of this fine tribe of plants; not only in the beauty of the blossom, but for its general habit; as it does not grow above three feet high, very bushy, and producing its flowers at the age of three or four years. It is increased by cuttings only, as are most of the species of this extensive genus, none of them perfecting their seeds in this climate, or producing roots by laying the branches. Our drawing was made from a plant in the Hibbertian collection, to which it was introduced in 1800, by Mr. Niven, from the Cape of Good Hope, in the month of May, 1802.



Protea grandiflora, Var. *foliis undulatis*

Pub. in the Bot. Beechey Exped. to the Pacific Ocean, by Dr. Andrews & Meyer.

PLATE CCCII.

LACHENALIA FRAGRANS.

Sweet-scented Lachenalia.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 6-petala, infera; petalis tribus interioribus longioribus. Stamina erecta. Capsula subovata trialata. Semina globosa.

BLOSSOM six petals, beneath; the three inner petals the longest. Chives erect. Capsule nearly egg-shaped, three-winged. Seeds globular.

SPECIFIC CHARACTER.

Lachenalia foliis geminis, ovato-oblongis, humi adpressis; corollis campanulatis pedunculatis horizontalibus; petalis sub-æqualibus; scapo erecto.

Lachenalia with one pair of leaves, oblong-egg-shaped, laying on the ground; blossoms bell-shaped with foot-stalks, growing horizontally; petals nearly equal; flower-stem upright.

REFERENCE TO THE PLATE.

1. A Blossom with the Chives in their place, one of the tips detached and magnified.
2. The Seed-bud, Shaft and Summit.
3. The same, magnified.
4. The Seed-bud, cut transversely, magnified.

THE extreme fragrance of this plant, amply compensates for its want of beauty; it retains its sweetness through the whole period of its flowering, which is of near a month's continuance. There is a species of this genus, much resembling our plant in flower, but nothing in the leaf; it is known by the name of *L. patens*, and has been frequently sold for this, but its scent is quite different, and it flowers much earlier; that is to say, in the month of March, but the *L. fragrans* does not produce its blossoms till May. It is a very hardy greenhouse bulb, and requires no particular management to make it flower; this, however, it does not do, but once in two years; not even appearing in foliage, but in the second year from its flowering. Our figure was made at the Hammer-smith-Nursery, to which it was introduced, from the Cape of Good Hope, in the year 1798.



Lachenalia fragrans

Lachenalia fragrans
L. fr.

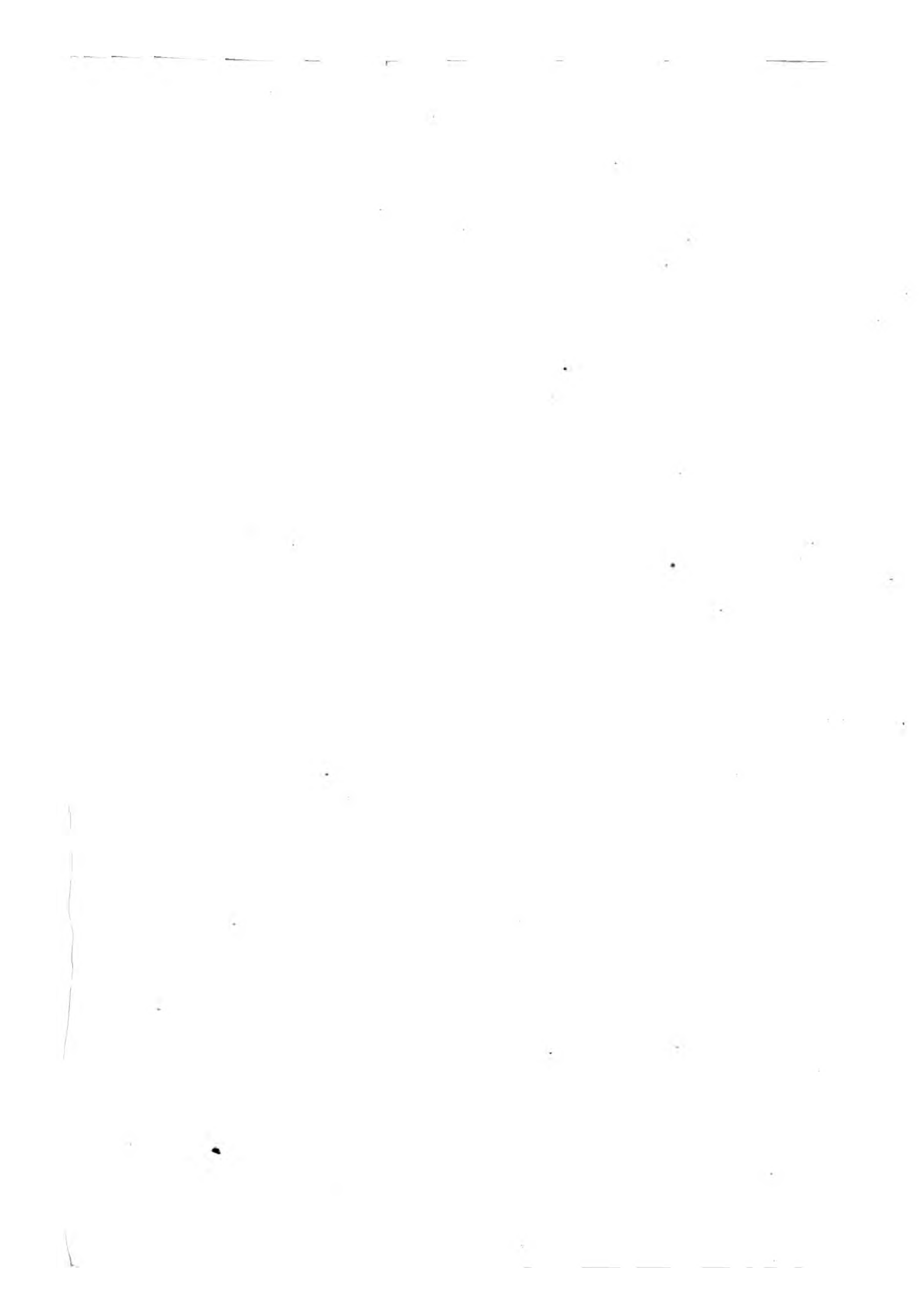


PLATE CCCIII.

GERANIUM BARBATUM.

Bearded-leaved Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Chives united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus rotatus, penta-coccus.

|| ONE POINTAL. Five Summits. Fruit furnished with long awns, five dry berries.

SPECIFIC CHARACTER.

Geranium foliis pinnatis; foliolis inequaliter dentatis barbatis; floribus umbellatis; staminibus quinque fertilibus, binis longioribus reflexis; scapo polytachio; radice tuberosa.

|| Geranium with winged leaves; leaflets unequally toothed and bearded; flowers grow in umbels; five fertile chives, the two longest reflexed; flower-stem branched; root tuberous.

REFERENCE TO THE PLATE.

1. The cup, natural size, cut open.
2. The Chives and Pointal, natural size.
3. The Chives cut and spread open, magnified.
4. The Pointal and Seed-bud, magnified.

THE singular bearded termination, on each tooth, of the leaflets of this species of Geranium, has induced us to give it a distinct specific title; although, in many other respects, it approaches very near two or three others, already figured, by us, of this long genus. It is from the same country with the other tuberous species, and introduced to the Hibbertian collection in 1800, where our drawing was made in July 1802.



Geranium barbatum

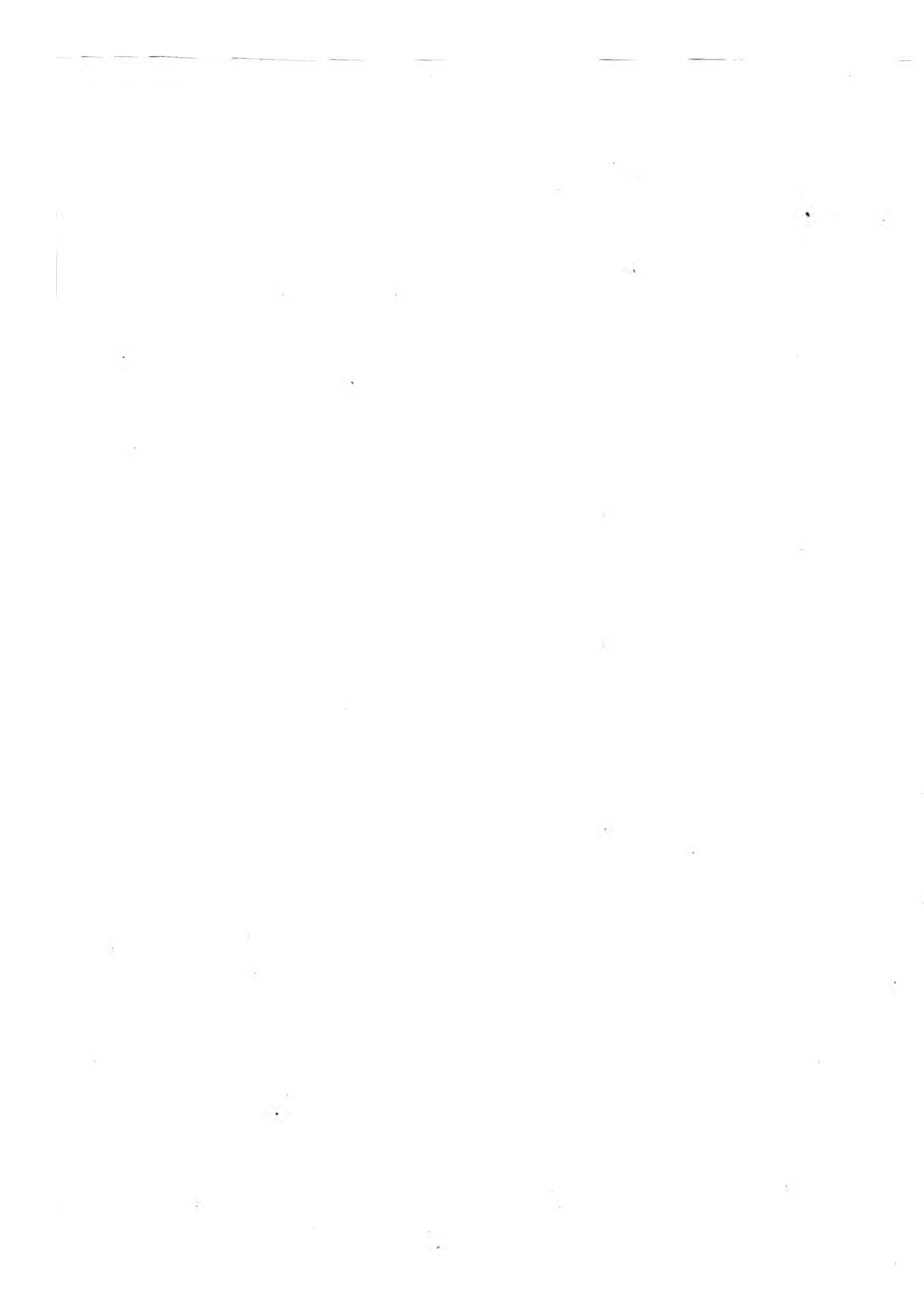


PLATE CCCIV.

DAVIESIA ULICIFOLIA.

Furze-leaved Daviesia.

CLASS X. ORDER I.

DECANDRIA MONOGYNIA. Ten Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, campanulatum quinquedentatum; laciniis equalibus erectis.

COROLLA papilionacea, pentapetala.
Vexillum cordatum erectum.
Alæ oblongæ, vexillo duplo breviores.

Carina dipetala, alis paulo longiora.

STAMINA. Filamenta decem, distincta, affurgentia, longitudine carinæ. Antheræ simplices minimæ.

PISTILLUM. Germen ovato-oblongum. Stylus subulatus, magnitudine et situ staminum. Stigma acutum.

PERICARPIUM. Capsula triangularis, compressa, acuta, unilocularis, bivalvis.

SEMEN unum, reniforme.

EMPALEMENT. Cup one-leaf, bell-shaped, five-toothed; segments equal, upright.

BLOSSOM butterfly-shaped, five-petalled.

Standard heart-shaped, upright.

Wings oblong, half the length of the standard.

Keel two petals, a little shorter than the wings.

CHIVES. Threads ten, distinct, turned upwards, the length of the keel. Tips simple, very small.

POINTAL. Seed-bud oblong egg-shaped. Shaft awl-shaped, of the same size and station as the chives. Summit pointed.

SEED-VESSEL. Capsule triangular, flat, sharp pointed, one cell, two valves.

SEED one, kidney-shaped.

SPECIFIC CHARACTER.

Daviesia foliis lanceolatis, rigidis pungentibus; floribus axillaribus spicatis.

Daviesia with lance-shaped leaves, harsh and pricking; flowers grow from the insertion of the leaves in spikes.

REFERENCE TO THE PLATE.

1. The Empalement of the flower, natural size.
2. The Empalement magnified.
3. The Standard, or upper petal of the blossom.
4. One of the Wings of the blossom.
5. The two petals of the Keel.
6. The Chives, magnified.
7. The Pointal.
8. A ripe Seed-vessel.

THIS division of the butterfly flowered plants, from New Holland, was among the first genera which were raised from the seeds of that country, in Britain. And though we have possessed the plants so long, and both species, or rather the two varieties, perfect their seeds with us; yet are the plants very scarce, few of them are to be met with, and seldom more than a plant, or two, is to be found in any collection. The *Daviesias* grow about a foot and a half high, and when in flower make a very pretty appearance, as nearly the whole bush is covered with blossoms. They are rather tender, and are impatient of wet, which is, perhaps, the greatest enemy many of the plants from that country have to encounter with us. It flowers about April or May; is increased by seeds, or cuttings; should be kept in a small pot, comparatively with what may be used for the same sized plants, and planted in sandy peat. Our drawing was made from the Hibbertian collection, in the month of May 1802.



Davissia ulicifolia

PLATE CCCV.

GERANIUM CORONILLÆFOLIUM.

Coronilla-leaved Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus rotatus, penta-coccus. || ONE POINTAL. Five Summits. Fruit furnished with long awns, five dry berries.

SPECIFIC CHARACTER.

Geranium foliis impari pinnatis, bijugis; foliolis obovatis glabris; floribus umbellatis pentandris; radice tuberosa. || Geranium with leaves that are winged, with an odd one and two yoked; leaflets inversely egg-shaped, and smooth; flowers grow in umbels, with five fertile chives; root tuberos.

REFERENCE TO THE PLATE.

1. The Cup cut open, to shew its tubular structure.
2. The Chives and Pointal, natural size.
3. The Chives cut and spread open, magnified.
4. The Pointal and Seed-bud, magnified.

THE drawing of this Geranium was taken at Clapham in the month of July, 1802, from a plant in the Hibbertian collection, where, we believe, it is only to be met with, and to which it was introduced, in 1801, from the Cape of Good Hope. It has no particular character, in its appearance, from which we might be led to think any other treatment or mode of culture was necessary for this plant, different from the rest of its congeners.



Geranium coronellaefolium

Geranium coronellaefolium
L. f. Bot. Beechey.

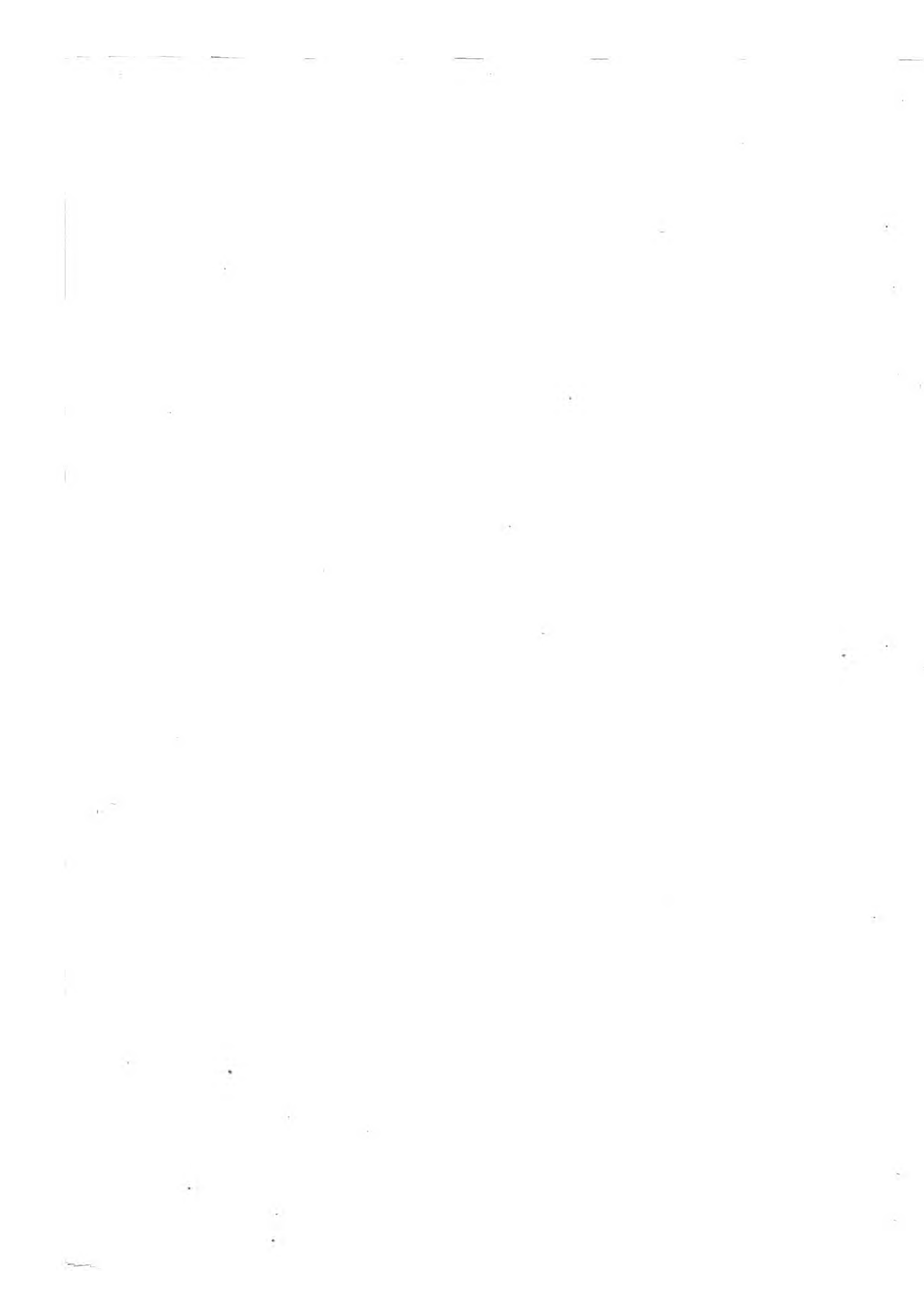


PLATE CCCVI.

ALETRIS FRAGRANS.

Sweet-scented Aletris.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA infundibuliformis, rugosa. Stamina
inferta laciniarum basi. Capsula trilocu-
laris.

BLOSSOM funnel-shaped, wrinkled. Chives in-
fert into the base of the segments. Cap-
sule three-celled.

See ALETRIS SARMENTOSA, Pl. LIV.

SPECIFIC CHARACTER.

Aletris caulescens; foliis lanceolatis, laxis; flo-
ribus albicantibus, fragrantissimis.

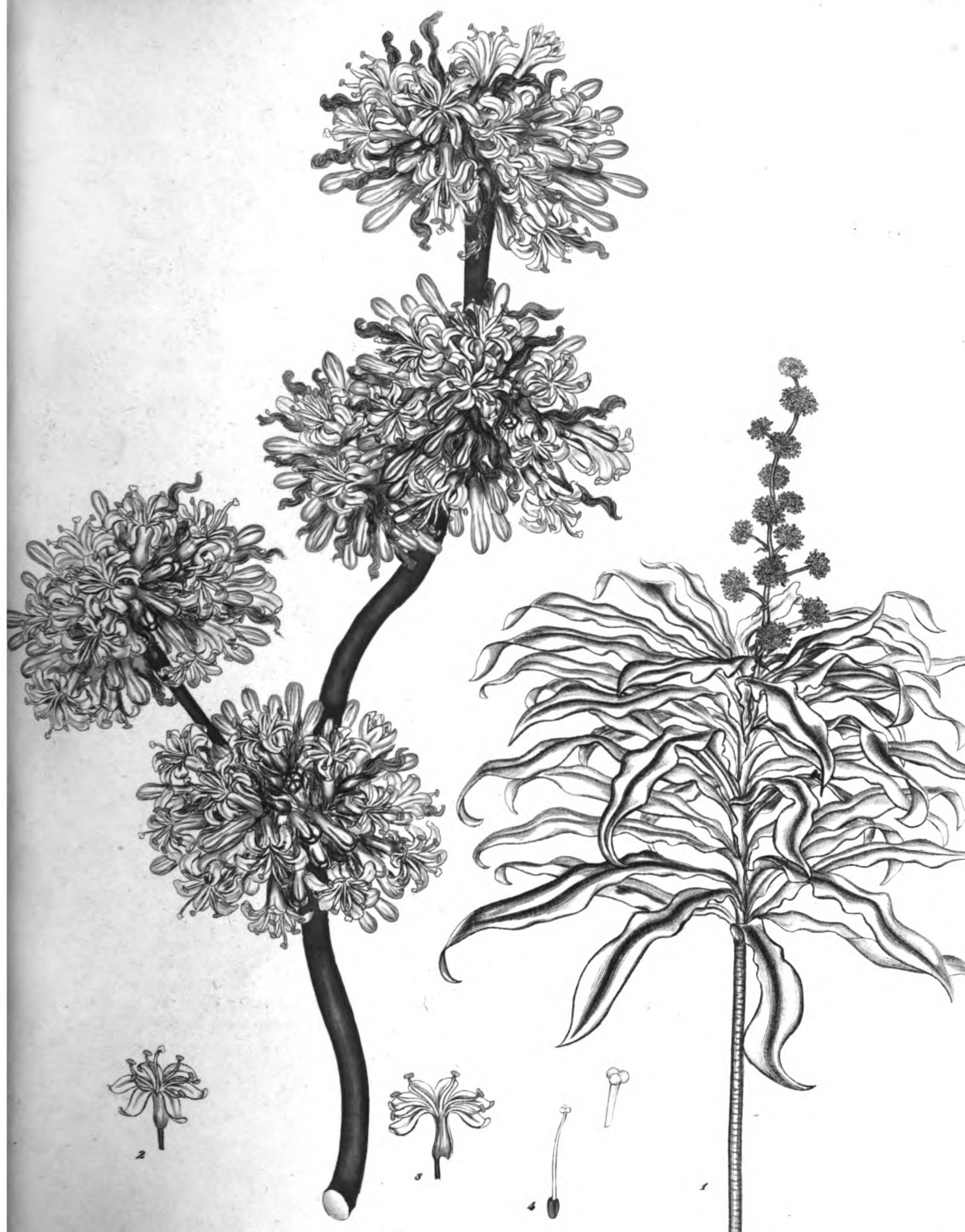
Aletris with a woody stem; leaves lance-shaped,
loose; flowers whitish, very sweet-scented.

REFERENCE TO THE PLATE.

1. A miniature representation of the whole plant.
2. A flower complete, natural size.
3. The blossom cut open, with the Chives in their place.
4. The Seed-bud, Shaft and Pointal; the summit detached, magnified.

THE Sweet-scented Aletris, from the great height it attains before it flowers, which is, from 9 to 12 feet, and nearly two-thirds of the length of the stem, without leaves; takes off much from the merit of this grand plant as cultivated in our colder regions. It is a native of Africa, and must be kept in the hot-house, in the bark-bed, to have it blossom. The flowers are extremely fragrant, open in the evening and close again with the first rays of the morning sun. It is propagated either by suckers, which it sometimes produces, or by cutting off small portions from the roots; which will become plants in about three months, if placed in the heat of a strong hot-bed; these are likewise very sweet-scented, having the flavour of orris-root, or violets. Our figure was taken from a plant in the collection of J. Vere, Esq. Kensington Gore, this present month of May, 1803.

A schism has arisen on the subject of this genus among modern botanists; from whom we must, however, exclude the celebrated author of Miller's New Gardeners' Dictionary; who, in this instance, has preserved the genus entire. Three genera have, as usual, been made out of one; the Cape species are denominated *Veltheimias*; those known under the names of *A. zeylanica* and *A. guineensis*, are termed *Sansevieras*; *A. farinosa* and *A. fragrans* being the only remnants of the original genus. Such are the happy effects, of modern scrutiny, upon the works of the antiquated Linnæus! and such might be the answer of these illuminati, which poor Gradus, in the farce of *Who's the Dupe*, gives to his mistress, when questioned upon the utility of his labours; alas, how else should our merit be discovered, but by elancing from the old track of plain sense and nature.



Helianthus fragrans.

By J. A. Smith del. J. B. Schumacher sculp.





PLATE CCCVII.

PROTEA GLOBOSA.

Globe-flowered Protea.

CLASS IV. ORDER I.

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 4-fida, seu 4-petala. Antheræ lineares, infertæ petalis infra apicem. Calyx proprius nullus. Semina folitaria.

BLOSSOM 4-cleft, or 4 petals. Tips linear, inferted into the petals below the end. Cup proper, none. Seeds solitary.

See *PROTEA FORMOSA*, Pl. XVII. Vol. I.

SPECIFIC CHARACTER.

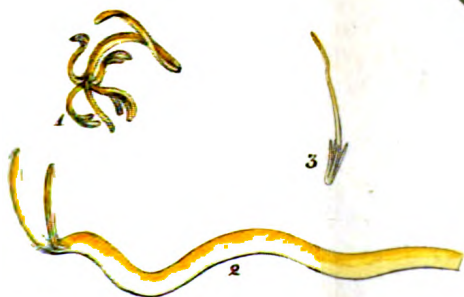
Protea foliis elliptico-lanceolatis, apicibus callosis; capitulo globofo, terminali; foliolis calycinis ovatis, reflexis; floribus luteis.

Protea with elliptically-lance-shaped leaves, callos at the ends; head of flowers globular and terminal; leaflets of the cup egg-shaped, turned back; flowers yellow.

REFERENCE TO THE PLATE.

1. A Flower complete, natural size.
2. One of the Petals of a blossom, with its chive, magnified.
3. The Pointal, and Seed-bud, natural size.
4. The same, magnified.
5. The common Empalement.

THIS species of *Protea*, though it does not stand among the foremost of its congeners in competition for beauty; yet, has its merits, and those of no small moment, as a hardy green-house plant; for it rarely misses flowering, in the month of May, annually, and its blossoms continue in perfection at least two months. It is seldom hurt by cold or wet, if not exposed to either in the extreme. Is easily propagated from cuttings, made in the month of May, or June; by the same mode as has been described for the increasing the preceding species of the Genus, already figured in this work. We owe the first introduction of this plant to Messrs. Lee and Kennedy, Hammermith, who raised it from seeds, in the year 1786, received from the Cape of Good Hope. Our figure was made from a plant in the Hibbertian collection.



Protea glabrosa





PLATE CCCVIII.
CROTOLARIA VERRUCOSA.
Blue-flowered Crotoparia.

CLASS XVII. ORDER IV.

DIADELPHIA DECANDRIA. Threads in two sets. Ten Chives.

GENERIC CHARACTER.

CALYX. Perianthium tripartitum, magnum, corolla paulo brevius; laciniis duabus superioribus lanceolatis, vexillo incumbentibus; tertia lanceolata, concava, carinam fulcimente, trifida.

COROLLA papilionacea.
Vexillum cordatum, acutum, magnum, lateribus depressum.
Alæ ovatae, vexillo dimidio breviores.

Carina acuminata, longitudine alarum.

STAMINA. Filamenta decem, connata, affurgentia, linea dorsali fissâ basi que hiante. Antheræ simplices.

PISTILLUM. Germen oblongum, reflexum, hirsutum. Stylus simplex, infractus, affurgens. Stigma obtusum.

PERICARPIUM. Legumen breve, turgidum, uniloculare, bivalve, pedicellatum.

SEMEN aliquot, globosa-reniformia.

EMPALEMENT. Cup three-parted, large, rather shorter than the blossom; the two superior segments lance-shaped, laying on the standard; the third lance-shaped, concave, supporting the keel, three-cleft.

BLOSSOM butterfly-shaped.
Standard heart-shaped, acute, large, depressed on the sides.
Wings egg-shaped, half the length of the standard.
Keel tapered, the length of the wings.

CHIVES. Ten threads, united, turned upwards, with a split line on the back, and gaping at the base. Tips simple.

POINTAL. Seed-bud oblong, reflexed, hairy. Shaft simple, bent inwards at an angle, turned upwards. Summit obtuse.

SEED-VESSEL. Pod short, turgid, one-celled, two valved, with a fruit-stalk.

SEEDS a few of a rounded kidney-shape.

SPECIFIC CHARACTER.

Crotolaria foliis simplicibus, ovatis, retusis; stipulis lunatis, declinatis; racemo terminali; ramis tetragonis.

Crotolaria with simple leaves, egg-shaped, dented at the ends; leaf-pros half-moon-shaped, turned downwards; bunch of flowers terminal; branches four-sided.

REFERENCE TO THE PLATE.

1. The Empalement.
2. The Standard.
3. One of the Wings.
4. The two petals of the Keel.
5. The Chives.
6. The Pointal and Seed-bud, the Summit detached, magnified.
7. A half ripe Seed-vessel.
8. The same laid open.

THIS handsome annual is an old inhabitant of our hot-houses, for it has been cultivated so long ago as the year 1731, by Mr. Miller; but from its character as an annual, our summers not proving always congenial to the perfecting its seeds, it has at intervals been lost to us. It is a native of the East Indies, and, in general, good seed may be procured by keeping the plants constantly in a hot-bed or hot-house; but the best method is to raise them on a strong hot-bed, keeping them there till in flower, and then transferring them to the hot-house or dry-stove, to perfect their seeds. Our drawing was taken from a fine specimen, communicated by the Hon. W. H. Irby, from his select collection at the Parsonage, Farnham Royal, Bucks. Flowers in May or June, and ripens its seeds in August or September.



Centelaria verrucosa

Centelaria verrucosa (L.) DC. var. *verrucosa* (L.) DC.



PLATE CCCIX.
PULTENÆA VILLOSA.
Hairy Pultenæa.

CLASS X. ORDER I.

DECANDRIA MONOGYNIA. Ten Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX quinquentatis, utrinque appendiculatus. Corolla papilionacea, alis vexillo brevioribus. Legumen uniloculare, dispersum.

CUP five-toothed, with a hanging prop on each side. Blossom butterfly-shaped, the wings shorter than the standard. A one-celled pod, two seeded.

SPECIFIC CHARACTER.

Pultenæa foliis oblongis, villosis; floribus axillaribus, solitariis, spicatis; caule villosa; calycibus inappendiculatis.

Pultenæa with oblong, hairy leaves; flowers grow from the infertion of the leaves, solitary, and in spikes; stem hairy; cup without props.

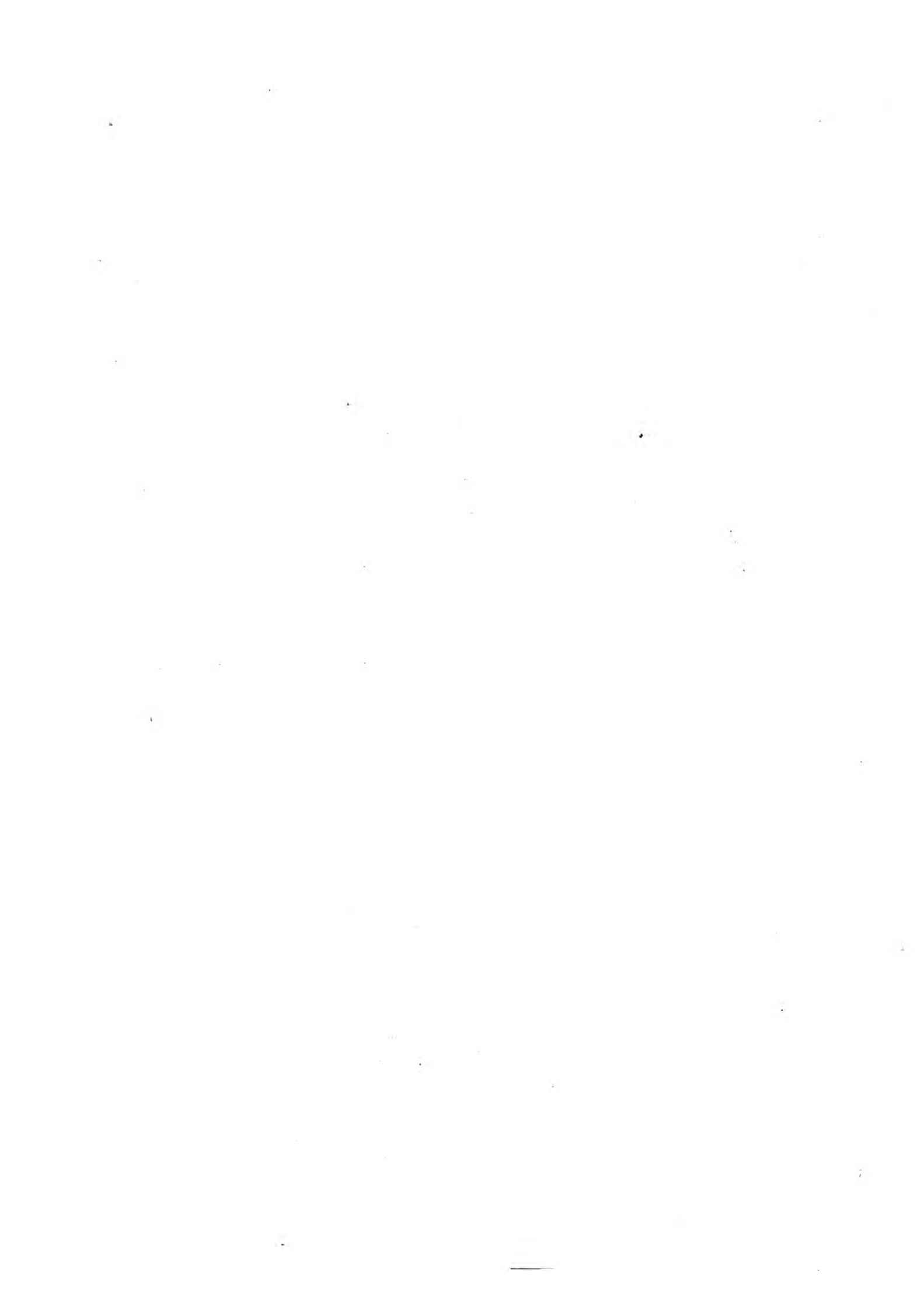
REFERENCE TO THE PLATE.

1. A Leaf.
2. The Cup, natural size.
3. The Standard of the blossom.
4. One of the Wings of the blossom.
5. The two Leaves of the keel.
6. The Empalement, Chives, and Pointal, magnified.
7. The Seed-bud, Shaft, and Summit, magnified.

WHERE to place the limits to the various new genera of this very extended natural order of plants, with butterfly blossoms, from New Holland, appears a task of some difficulty with our modern botanists; for, no sooner have we formed an essential character for a genus, than immediately we are struck with the appearance of new plants, whose whole habits assimilate with our newly constructed family, but in the principal and pointed essential character. In such predicament stands our present subject, it wants the appendicula to the cup, yet has it been placed, by Willdenow, &c. to *Pultenæa*; and with good reason, we presume, for if every difference of this nature was taken up, on which to form new genera, nearly every plant from that country would furnish grounds for new names; and, to say the truth, we think they are, already, sufficiently extended. The *Pultenæas* are all rather impatient of wet, and although they are not frequently killed by too much moisture, yet they become unprofitably, by losing all their lower leaves. This species grows to the height of about three feet; and, when in flower, makes a very handsome appearance. It perfects its seeds, and may be increased by cuttings, which should be put in about the beginning of April. A mixture of sandy peat three parts, and one fourth part of loam, is the best soil to grow it in. It was amongst the first plants which were raised from Botany Bay seeds in this country. Our figure was made at the Hammer-smith nursery, in 1801.



Pultenea villosa



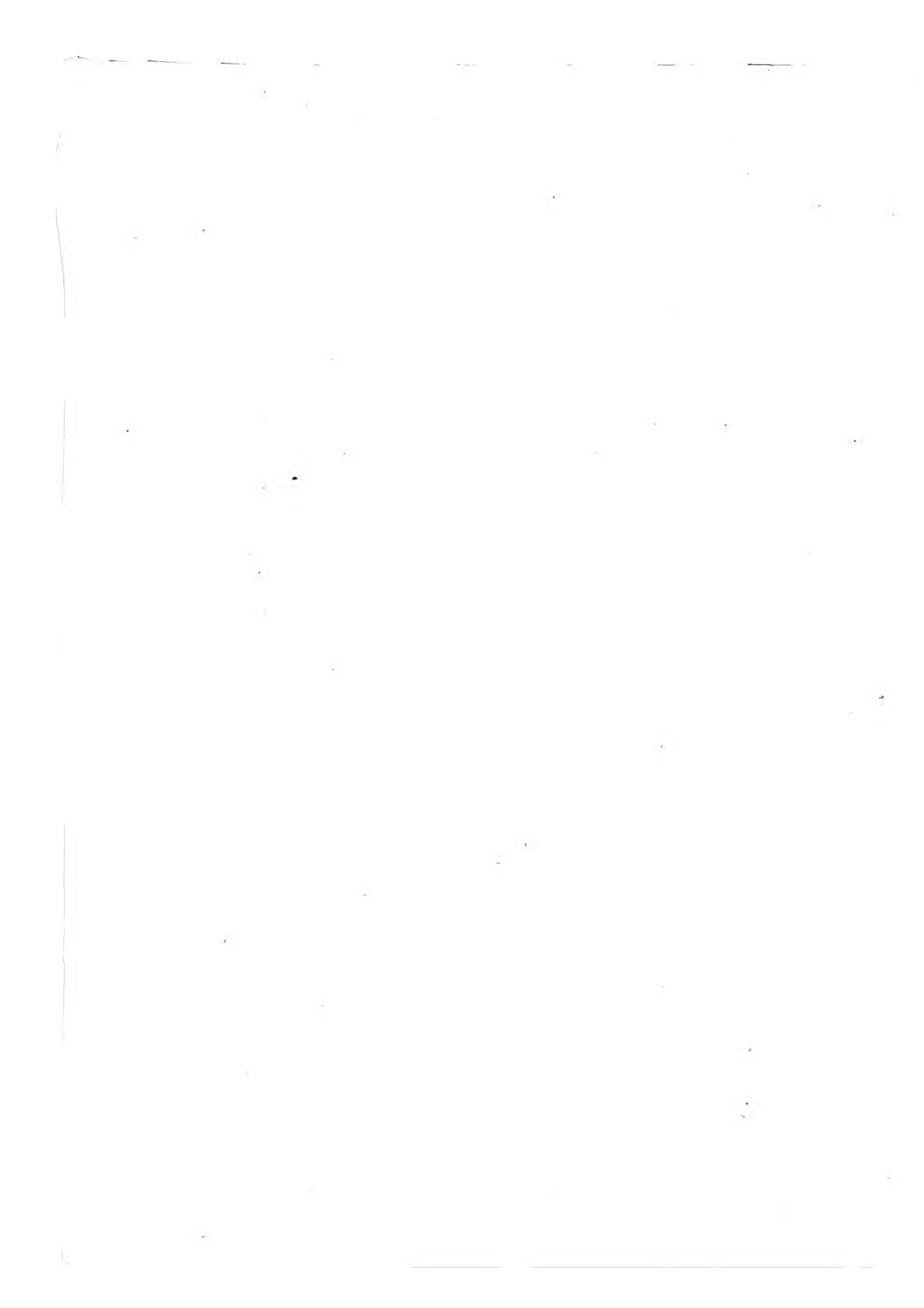


PLATE CCCX.

STACHYS COCCINEA.

Scarlet Clownheal.

CLASS XIV. ORDER I.

DIDYNAMIA GYMNOSPERMIA. Two Chives longer. Seed naked.

GENERIC CHARACTER.

| | |
|--|---|
| CALYX. Perianthium monophyllum, tubulatum, angulatum, semiquinquefidum, acuminatum, persistens; denticulis acuminatis, subulatis, subinæquale. | EMPALEMENT. Cup one-leaf, tubular, angular, five shallow clefts, taper, permanent; toothlets taper, awl-shaped, nearly equal. |
| COROLLA monopetala, ringens; tubus brevissimus; faux oblonga, ad basin deorsum gibba; <i>labium superius</i> erectum, subovatum, fornicatum, sæpe emarginatum; <i>labium inferius</i> majus, trifidum lateribus reflexum; <i>lacina intermedia</i> maxima, emarginata, replicata. | BLOSSOM one petal, gaping; tube very short; mouth oblong, hunched downwards towards the base; <i>upper lip</i> upright, rather egg-shaped, arched, often notched at the end; <i>lower lip</i> large, three-cleft, side ones reflexed; the <i>middle segment</i> , which is the largest, notched at the end, and folded back. |
| STAMINA. Filamenta quatuor, quorum duo breviora, subulata, ad latera faucis recurvata. Antheræ simplices. | CHIVES. Four threads, of which two are shorter, awl-shaped, bent to the sides of the mouth. Tips simple. |
| PISTILLUM. Germen quadripartitum. Stylus filiformis, situ et longitudine staminum. Stigma bifidum, acutum. | POINTAL. Seed-bud with four divisions. Shaft thread-shaped, of the length and situation of the chives. Summit cloven, sharp-pointed. |
| PERICARPIUM nullum. Calyx vix mutatus. | SEED-VESSEL none. The cup scarce changed. |
| SEMINA quatuor, ovata, angulata. | SEEDS four, egg-shaped, angular. |

SPECIFIC CHARACTER.

| | |
|--|---|
| Stachys verticillis sexfloris; foliis ovato-oblongis, basi cordatis, crenatis; floribus coccineis. | Clownheal with six flowered whorls; leaves oblong-egg-shaped, heart-shaped at the base, scalloped; flowers scarlet. |
|--|---|

REFERENCE TO THE PLATE.

1. The Cup, natural size.
2. The Blossom cut open, with the chives in their place.
3. The Seed-buds and Pointal, the summit detached, magnified.
4. The Seed-buds, magnified.

ALTHOUGH this species of Stachys must be considered as an herbaceous plant, yet the stem, if kept in the green-house, may be preserved; and therefore, as it is too tender to bear our winters, in the open ground, we must confine it to that station. It is a native of South America; is easily propagated by cuttings; flowers in the month of July, or August, and thrives in rich mould. The figure was taken from a plant in the collection of J. Vere, Esq. Kensington Gore, where, we believe, it flowered for the first time in Britain.



Stachys coccinica

Stachys coccinica L.
Linn. Sp. Pl. 1033. t. 212. f. 1.

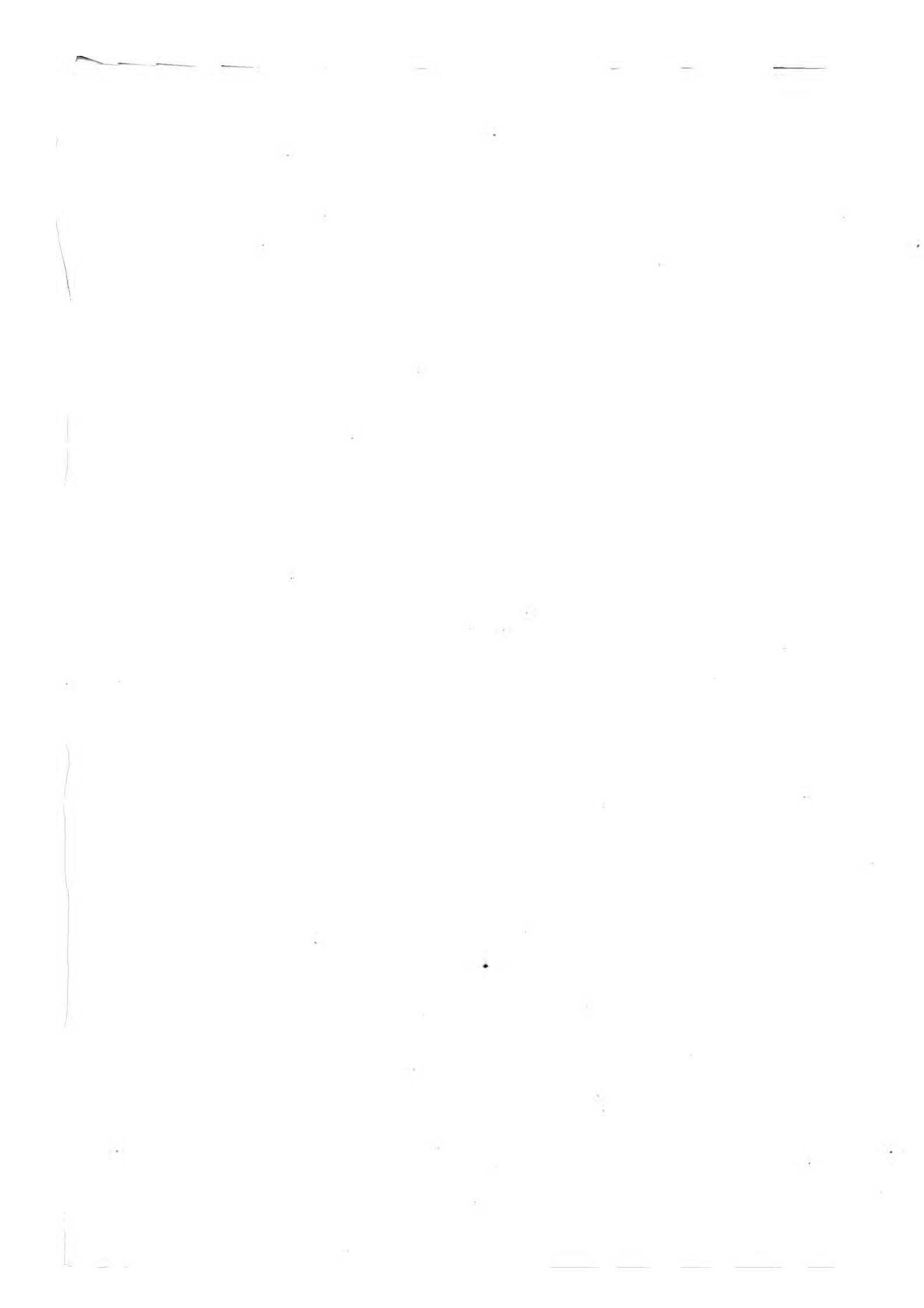


PLATE CCCXI.

GERANIUM PINNATUM.

Winged-leaved Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus rotatus, penta-coccus. || ONE POINTAL. Five Summits. Fruit furnished with long awns, five dry berries.

SPECIFIC CHARACTER.

Geranium foliis pinnatis; foliis subrotundovatis, hirsutis; floribus flavis, staminibus quinque fertilibus; scapo polytachio; radice tuberosa. || Geranium with winged leaves; leaflets rather round-egg-shaped, and hairy; flowers yellow; five fertile chives; flower-stem branched; root tuberous.

REFERENCE TO THE PLATE.

1. A Flower-cup, natural size, cut open.
2. The Chives and Pointal, natural size.
3. The Chives cut and spread open, magnified.
4. The Pointal and Seed-bud, magnified.

THE specific title of this plant, originally, belonged to a species which is, now, confounded amongst the numerous varieties of *Geranium lacerum*. And, indeed, the present plant is taken as a synonym, by Willdenow, with *G. atragalifolium*, of which we have given a figure in a preceding number. This was among the first of the tuberous kind of *Geraniums* known to our gardens. Mr. F. Masson, according to the Kew Catalogue, first introduced it to the Kew Gardens in 1788. It has nothing particular in its character to require a different treatment from the rest of the tuberous species. Our drawing was made from a plant in the Hammermith Collection, in March 1801.



Geranium pinnatum

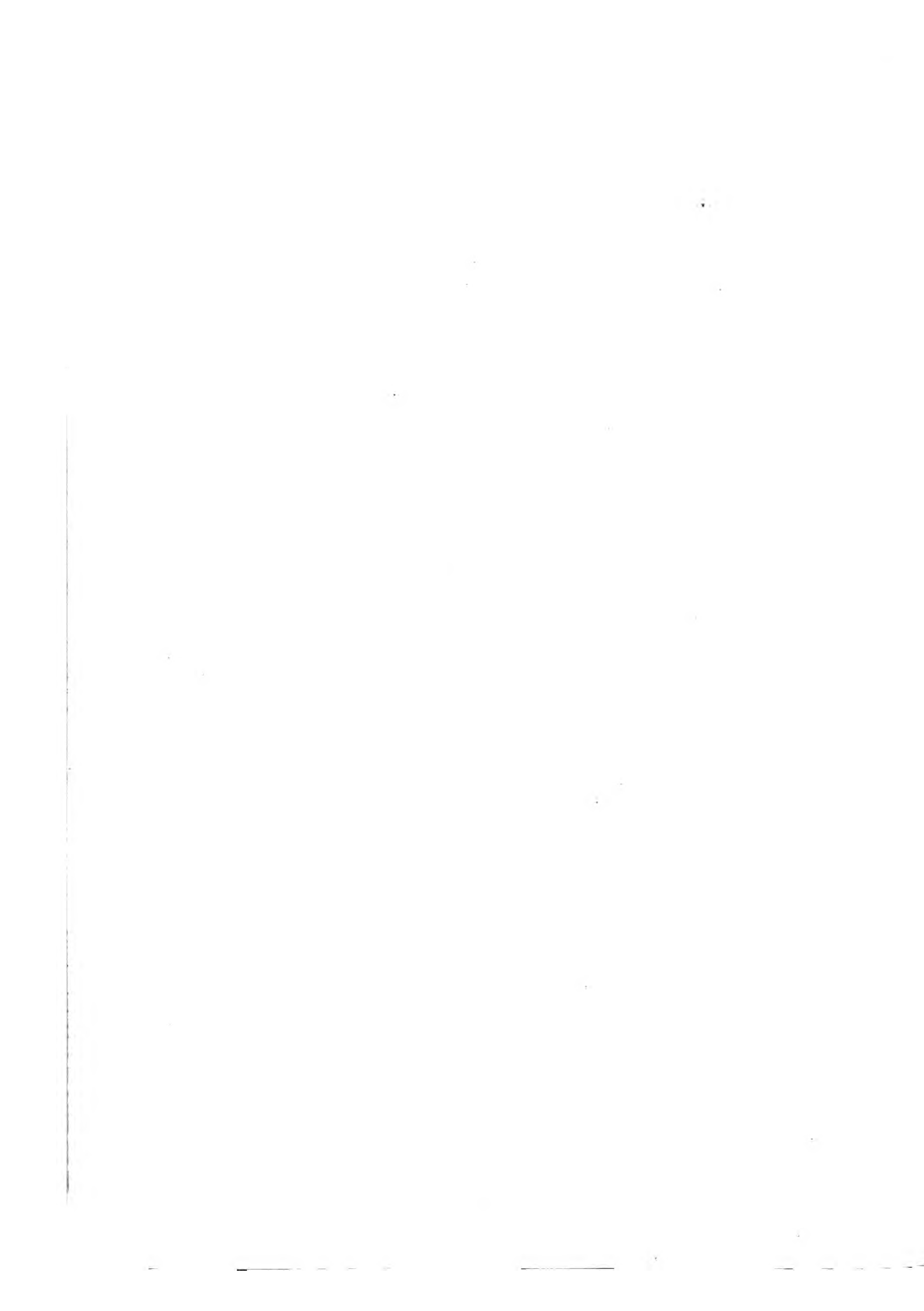




PLATE CCCXII.

STYPHELIA VIRIDIS.

Green-flowered Styphelia.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX imbricatus. Corolla tubulosa. Stamina fauci inferta. Drupa quinque-locularis. Semina bina.

CUP tiled. Blossom tubular. Chives inferted into the mouth of the blossom. A pulpy berry with five cells. Seeds by twos.

See STYPHELIA TRIFLORA. Pl. LXXII. Vol. I.

SPECIFIC CHARACTER.

Styphelia foliis utrinque acuminatis, obliquis, acutis, glaberrimis; floribus axillaribus, folitariis, viridibus.

Styphelia with leaves tapered to both ends, oblique, pointed, very smooth; flowers grow from the infertion of the leaves, solitary and green.

REFERENCE TO THE PLATE.

1. The Cup of a flower, natural size.
2. A Blossom, with the Chives in their place, cut open.
3. The Seed-bud, Shaft, and Summit, the Summit magnified.

Few of the plants from New Holland have excited more admiration than the *Styphelias*; the *S. tubiflora* figured in the New Holland botany of Dr. Smith, the *S. triflora* given in the first Vol. of this work, our present plant, together with the numerous other species already known from dried specimens, lead us to conjecture that the genus is as copious as any, *Bankfia* not excepted, from that country. This plant grows to the height of two feet, or more; the flowers nearly covering the branches. It is rather delicate, requiring but little water, in the winter months; as it is certain to perish, if kept wet any considerable time. Is propagated by cuttings, and must be kept in a small pot, proportional to the size of the plant, in very sandy peat earth. Our figure was taken from a plant in the Hibbertian collection, in the month of April, 1803. All the plants, at present in Britain, of this species of *Styphelia*, are the offspring of one solitary seed, received by Messrs. Lee and Kennedy from New Holland, in the year 1791.



Styphelia viridis

Publ. in *Icones Florae Australis* Part. 1
by St. Andrew & Thunberg

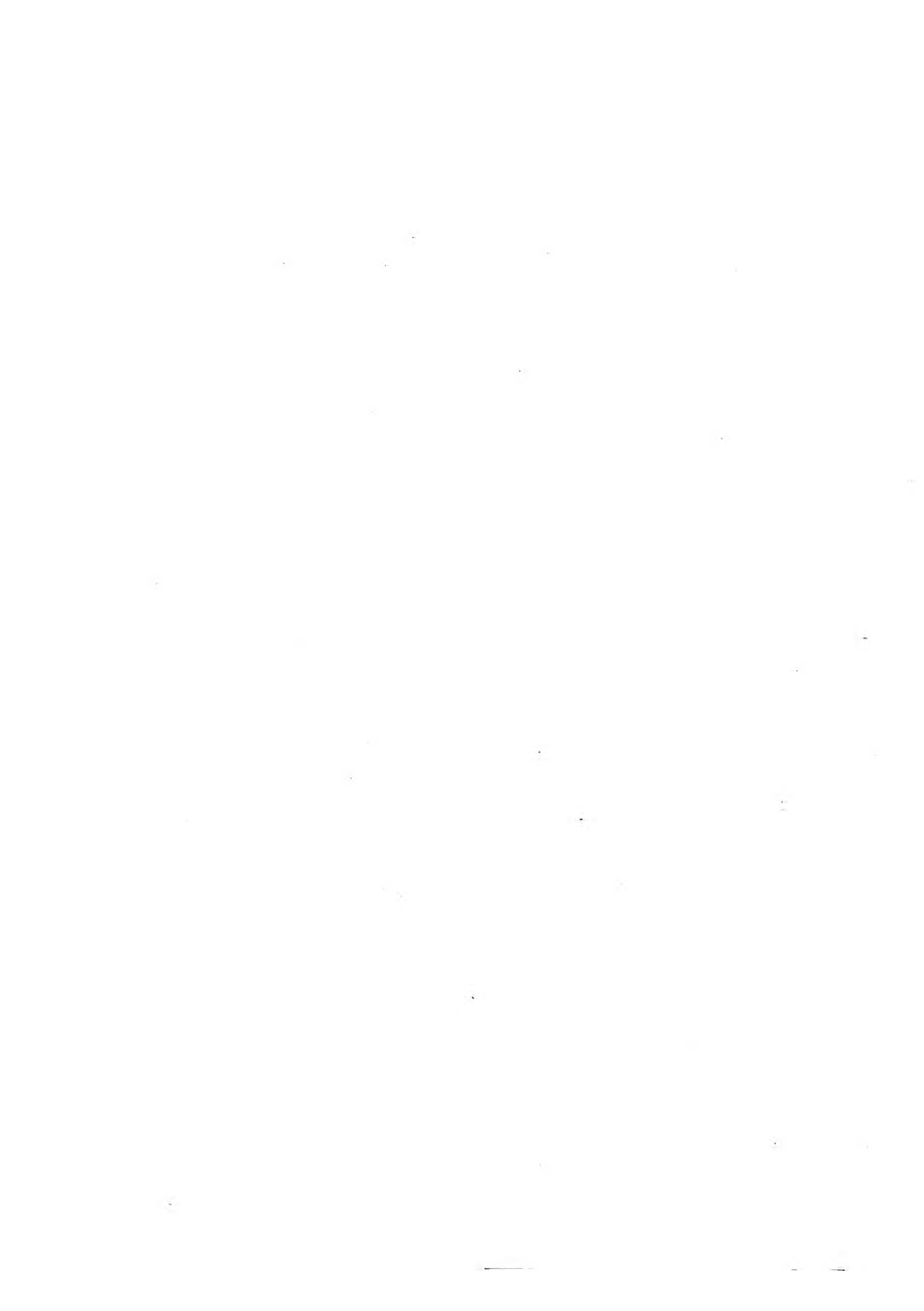


PLATE CCCXIII.
JUSTICIA LUCIDA.
Shining-leaved Justicia.

CLASS II. ORDER I.

DIANDRIA MONOGYNIA. Two Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, minimum, quinquepartitum, acutum, erectum, angustum.

COROLLA monopetala, ringens; tubus gibbus; limbus bilabiatus, labium superius oblongum, emarginatum, labium inferius ejusdem longitudinis, reflexum, trifidum.

STAMINA. Filamenta duo, subulata, sub labio superiore recondita. Antheræ erectæ, ad basin bifidæ.

PISTILLUM. Germen turbinatum. Stylus filiformis, longitudine et situ staminum. Stigma simplex.

PERICARPIMUM. Capsula oblonga, obtusa, basi angustata, bilocularis, bivalvis; dissepimento valvulis contrario, ungue elastico dehiscentis.

SEMINA subrotunda.

EMPALEMENT. Cup one-leaf, very small, five-divided, pointed, erect, narrow.

BLOSSOM one petal, gaping; tube hunched; border two-lipped; the upper lip oblong, notched at the end; the under lip of the same length, reflexed, and three-cleft.

CHIVES. Two threads, awl-shaped, hid under the upper lip. Tips upright, two-cleft at the base.

POINTAL. Seed-bud top-shaped. Shaft thread-shaped, the length and situation of the chives. Summit simple.

SEED-VESSEL. Capsule oblong, obtuse, narrowed at the base, two-celled, two valved; the partition opposite to the valves splitting from an elastic claw.

SEEDS roundish.

SPECIFIC CHARACTER.

Justicia spicis terminalibus; floribus subcapitatis; foliis ellipticis, nervosis, bullatis, lucidis; corollis bilabiatis, labio superiore lanceolato; caule fruticoso, glabro.

Justicia with terminal spikes; flowers grow nearly in heads; leaves elliptic, nerved, blistered, and shining; blossoms two-lipped, the upper lip lance-shaped; stem shrubby, smooth.

REFERENCE TO THE PLATE.

1. A Blossom cut open, with the Chives in their place.
2. The Cup and Pointal.
3. An unripe Seed.

Most of the species of this genus of plants have hitherto been considered of little value in our collections, as few of them have woody stems, and from that character have a weedy appearance. This plant however is an exception, and is well worthy a place in collections where ornament only, not variety, is studied. It grows to the height of three feet, flowers in the month of August, is easily increased from cuttings, and may be kept in the hot-house, out of the bark-bed. The *Justicia coccinea* and this plant approach in the appearance of their flowers and habit; but the leaves differ much as well as many other minuter parts. It is a native of the East Indies, and was introduced about the year 1794. Our figure was taken from a plant in the Collection of G. Hibbert, Esq. Clapham Common.



Justicia lucida

... August ...

PLANNING AND
EVALUATION OF CURRICULUM

Shirley M. Gage

PART I

CHAPTER I

Introduction

The curriculum is the plan of instruction in a school or system of schools. It is the selection of content, the organization of that content, and the selection of methods and materials for the instruction. The curriculum is the heart of the school system, and it is the responsibility of the curriculum committee to develop and maintain a curriculum that is relevant, effective, and equitable for all students.

CHAPTER II

The curriculum committee is the body responsible for the development and maintenance of the curriculum. It is composed of representatives from the school community, including teachers, parents, and administrators. The curriculum committee should be organized in a way that allows for the participation of all stakeholders in the curriculum process.

CHAPTER III

The curriculum committee should be organized in a way that allows for the participation of all stakeholders in the curriculum process. This includes teachers, parents, and administrators. The curriculum committee should be organized in a way that allows for the participation of all stakeholders in the curriculum process.

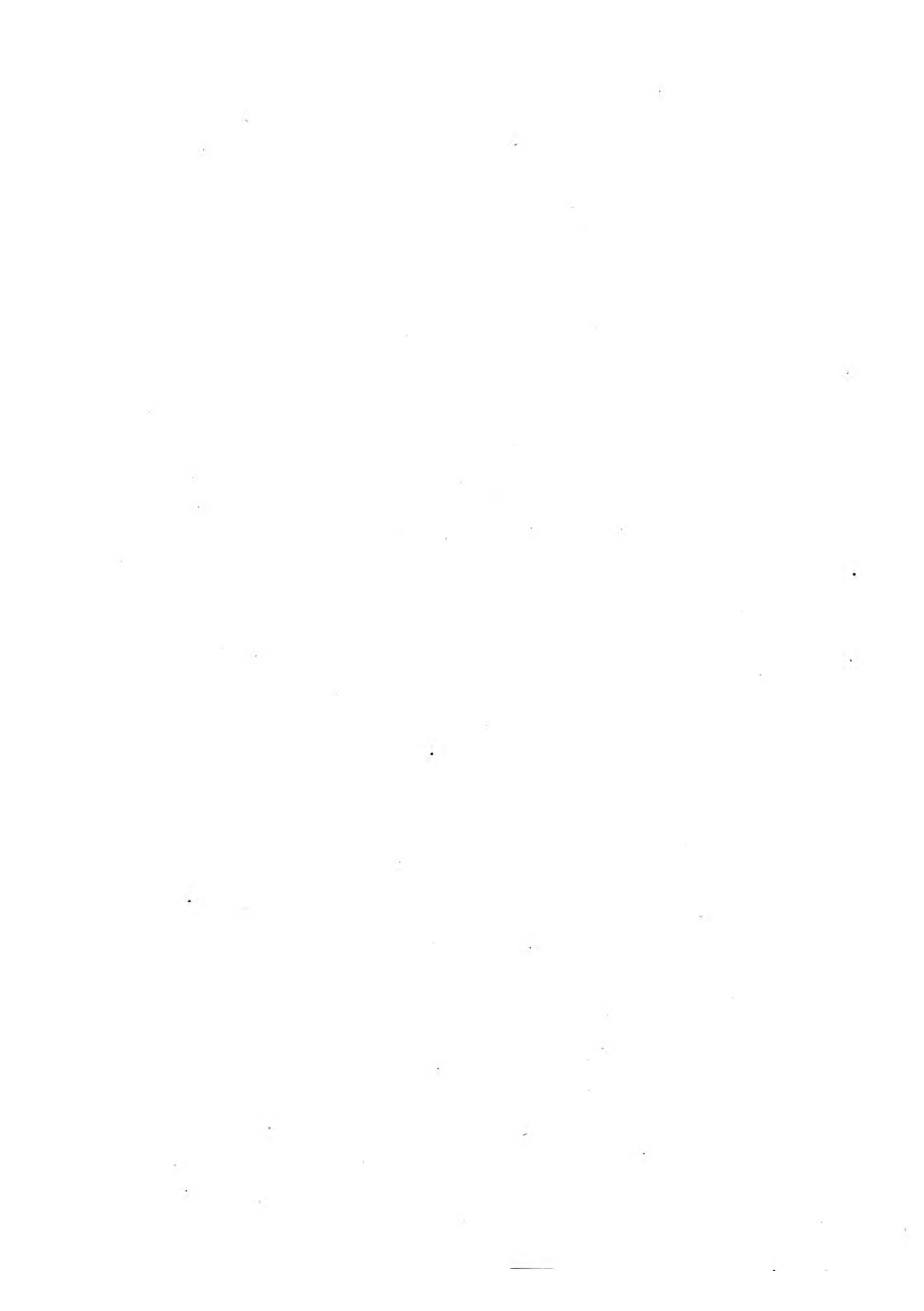
CHAPTER IV

The curriculum committee should be organized in a way that allows for the participation of all stakeholders in the curriculum process. This includes teachers, parents, and administrators. The curriculum committee should be organized in a way that allows for the participation of all stakeholders in the curriculum process.



Justicia lucida

Justicia lucida (L.) Rostk & Schmidt
Pl. Ind. Ind. 1815, t. 1, p. 10, f. 10.



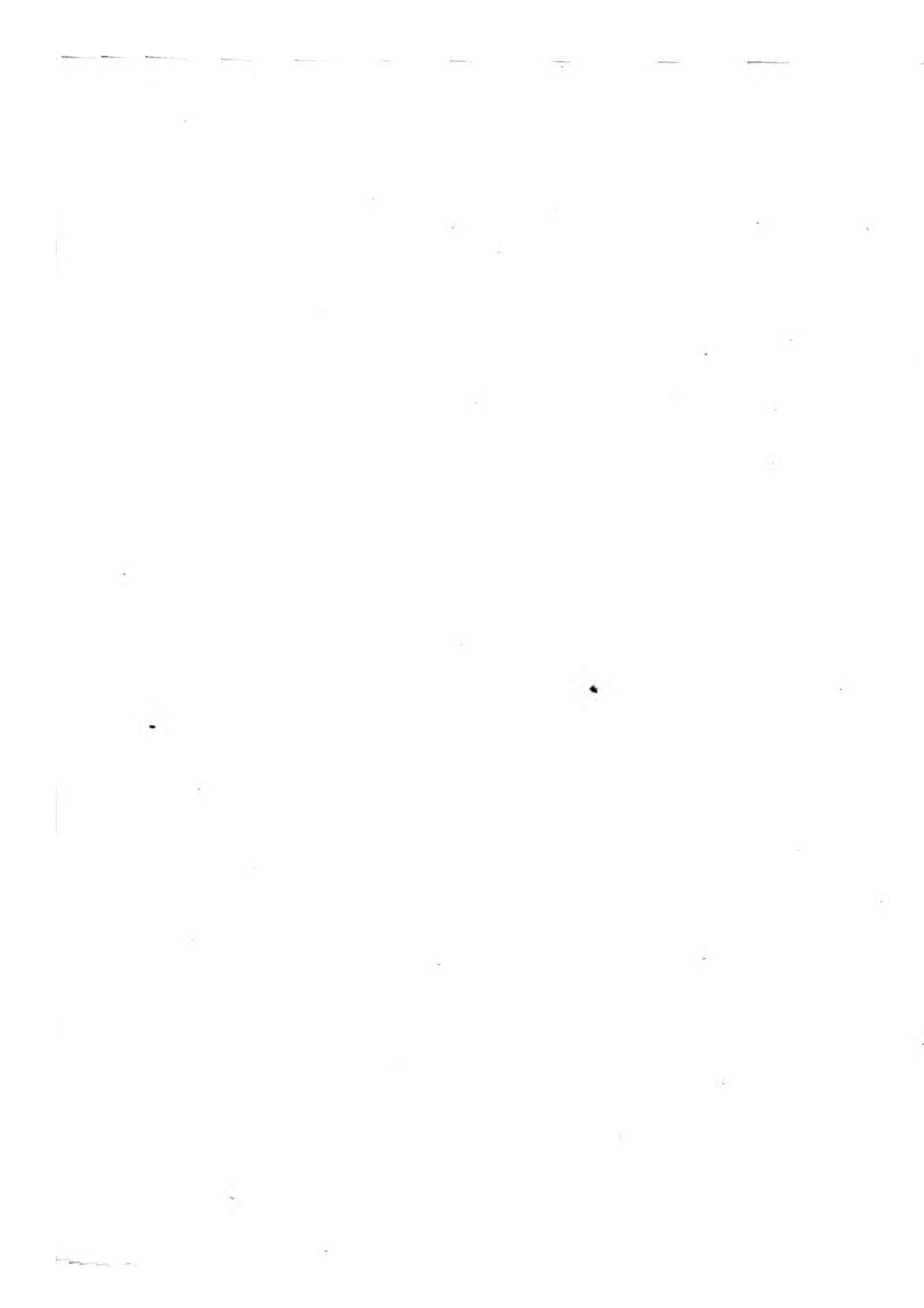


PLATE CCCXIV.

ITEA SPINOSA.

Thorny Itea.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, quinquefidum, erectum, acuminatum, minimum, persistens, laciniis acutis, coloratis.

COROLLA. Petala quinque, lanceolata, longa, calyci inserta.

STAMINA. Filamenta quinque, subulata, erecta, longitudine corollæ, calyci inserta. Antheræ subrotundæ, incumbentes.

PISTILLUM. Germen ovatum. Stylus cylindraceus, persistens, longitudine staminum. Stigma obtusum.

PERICARPIUM. Capsula ovata calyce multoties longior, stylo mucronato, unilocularis, bivalvis ex duabus coalita apice dehiscens.

SEMINA numerosa, minima, oblonga, nitida.

EMPALEMENT. Cup one-leaf, five-cleft, upright, tapered, very small, remaining, segments pointed, coloured.

BLOSSOM. Petals five, lance-shaped, long, inserted into the cup.

CHIVES. Five threads, awl-shaped, upright, the length of the blossom, inserted into the cup. Tips roundish, laying on the threads.

POINTAL. Seed-bud egg-shaped. Shaft cylindrical, permanent, the length of the chives. Summit obtuse.

SEED-VESSEL. Capsule egg-shaped, much longer than the cup, tapering into the shaft, one-celled, two-valved of two joined, splitting at top.

SEEDS numerous, very small, oblong, shining.

SPECIFIC CHARACTER.

Itea foliis cuneiformibus, emarginatis; spinis axillaribus.

Itea with wedge-shaped leaves, notched at the end; spines grow at the insertion of the leaves.

REFERENCE TO THE PLATE.

1. The Empalement, magnified.
2. A Flower complete, magnified.
3. The Chives and Pointal, magnified; part of the cup and the petals taken away, to show the insertion of the Chives into the cup.
4. The Pointal, magnified.

THIS plant is a native of New Holland, and was introduced from thence by the Right Honourable the Marchioness of Rockingham, at the same time with the *Bauera rubioides* of this work; and from a specimen communicated by her Ladyship in September, 1801, our drawing was taken. It is a hardy green-house plant, continuing in flower from August till December; makes a very bushy handsome shrub, especially when planted in a conservatory. Is easily propagated by cuttings, made in the month of April, and kept on a gentle heat until they are rooted. It thrives most in sandy peat, with a small mixture of sandy loam.



tea spinosa

1842

PLATE CCCXV.

ORCHIS BICORNIS.

Two-horned Orchis.

CLASS XX. ORDER I.

GYNANDRIA DIANDRIA. Chives on the Pointal. Two Chives.

ESSENTIAL GENERIC CHARACTER.

NECTARIUM corniforme pone florem.

|| HONEY-CUP like a horn behind the flower.
See ORCHIS CILIARIS, Pl. XLII. Vol.-I.

SPECIFIC CHARACTER.

Orchis bulbis indivisis; corollis galea bicalcarata; labio quinque-partito.

|| Orchis with undivided bulbs; helmet of the bloom two-spurred, lip five-parted.

REFERENCE TO THE PLATE.

1. A Flower, natural size.
2. The same, magnified, with the front petals cut away to expose the parts of fructification, one of the chives being liberated from its cell.

THIS singular little Orchis was first introduced to us, from the Cape of Good Hope, by Mr. F. Maffon, in 1787, but has been lost to our gardens since near that time till last year, when we had the pleasure of seeing it again in the collection of T. Evans, Esq. Stepney; but we much fear, without a fresh supply of roots, it will again soon stand but as a name in our catalogues. It is a very tender and delicate plant; and, like nearly the whole of this natural order, difficult to propagate or preserve in a cultivated state; wherefore we cannot pretend to recommend any particular method. The bulb which flowered at Stepney was planted in sandy peat, and appeared in good health. It flowers in September, loses its leaves soon after flowering, and is extremely fragrant.



Cretus bicornis

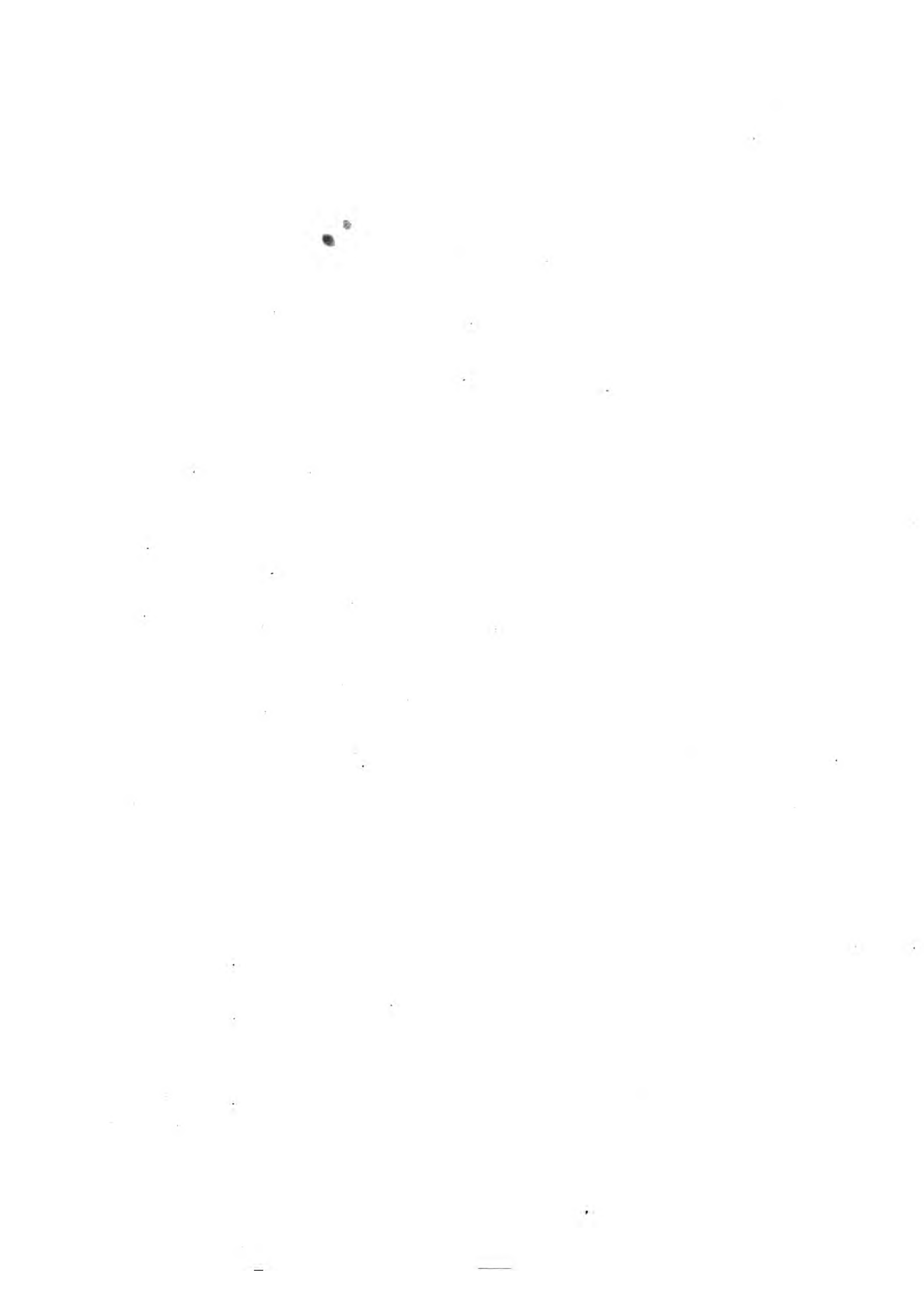


PLATE CCCXVI.

OLEA APETALA.

Petal-less Olive.

CLASS II. ORDER I.

DIANDRIA MONOGYNIA. Two Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, tubulatum, parvum; ore quadridentato, erecto, deciduum.
COROLLA monopetala, infundibuliformis; tubus cylindraceus, longitudine calycis; limbus quadripartitus, planus; laciniis subovatis.
STAMINA. Filamenta duo, opposita, subulata, brevia. Antheræ erectæ.
PISTILLUM. Germen subrotundum. Stylus simplex, brevissimus. Stigma bifidum, crassiusculum; laciniis emarginatis.
PERICARPIUM. Drupa subovata, glabra, unilocularis.
SEMEN. Nux ovato-oblonga, rugosa.

EMPALEMENT. Cup one-leafed, tubular, small; mouth four-toothed, erect, deciduous.

BLOSSOM one petal, funnel-shaped; tube cylindrical, the length of the cup; border four-divided, flat; segments nearly egg-shaped.

CHIVES. Two threads, opposite, awl-shaped, short. Tips upright.

POINTAL. Seed-bud roundish. Shaft simple, very short. Summit two-cleft, thickish; clefts notched at the ends.

SEED-VESSEL. A pulpy berry, rather egg-shaped, smooth, one-celled.

SEED. A nut oblong-egg-shaped, rough.

SPECIFIC CHARACTER.

Olea foliis ellipticis, floribus racemosis, apetalis.

Olive, with elliptically-shaped leaves, flowers in long bunches without petals.

REFERENCE TO THE PLATE.

1. A Flower expanded, magnified.
2. The same with the Chives exposed, magnified.
3. The Seed-bud, Shaft, and Summit, magnified.
4. A half ripe Berry.
5. The same cut transversely.

OUR present figure represents a plant a native of New Holland and New Zealand, in the Pacific Ocean; but, we have great reason to think, it has been referred, rather rashly, to the genus under which it is here named; and that it possesses a distinctive character sufficient on which to have formed a new one. We have, nevertheless, as usual, taken it up under the title it is in general known by, as published by Vahl, in his *Symbolæ Botanicae*, Part III. p. 3, and quoted from him into Willdenow's *Sp. Plant.* p. 46, and thence into Professor Martyn's ed. of Miller's *Dict.* article *Olea*, 5. Whether the fruit of this plant will ever turn to account, when cultivated, as an article of food, time must evince; but, certainly, it bears an appearance of much hope. It is a strong woody growing shrub, forming itself into a handsome round-headed plant; and, when in full flower, has a very pretty appearance, having all the necessary qualities of such plants as are fit for planting out in a conservatory. It is propagated by cuttings; should be planted in sandy peat earth, mixed with a small portion of loam; producing its flowers about February or March. Our drawing was made from a plant in the HammerSmith Collection, to which it was first added in the year 1791; having been raised from seeds communicated to Messrs. Lee and Kennedy by Colonel Paterfon.



Nea apetala

Publ. in the Bot. Beechey, p. 176
by H. A. Pursh, N. S. P. 1845, p. 176

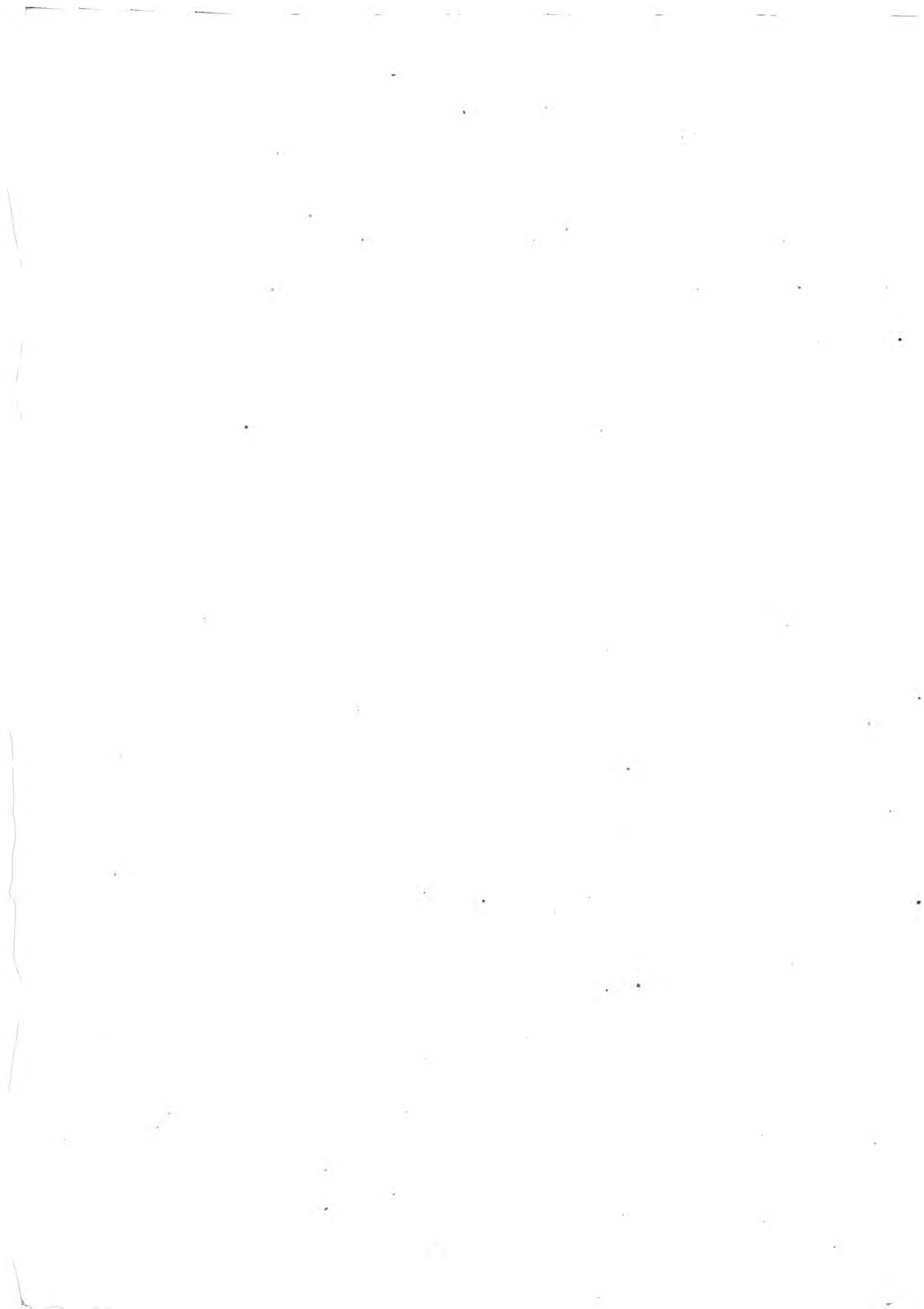


PLATE CCCXVII.

GERANIUM UNDULATUM. *Var. Minor.*

Waved-flowered Geranium. Lesser Var.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus rotatus, penta-coccus.

ONE POINTAL. Five Summits. Fruit furnished with long awns, five dry berries.

See GERANIUM GRANDIFLORUM, Pl. XII. Vol. I.

SPECIFIC CHARACTER.

Geranium foliis radicalibus lanceolatis, integerrimis, petiolis longitudine foliorum; petalis cuneiformibus, equalibus, undulatis; floribus pentandris; radice tuberosa.

Geranium with the root leaves lance-shaped, quite entire; foot-stalks the length of the leaves; petals wedge-shaped, equal, waved; flowers with five fertile chives; root tuberous.

REFERENCE TO THE PLATE.

1. The Empalement cut open, natural size.
2. The Chives cut and spread open, magnified.
3. The Seed-bud, Shaft, and Summits.

THIS very handsome tuberous Geranium, and which we have rather placed as a variety than a species, might perhaps by some have been considered as sufficiently distinct to have formed a species; but, indeed, much difficulty arises in the determining, amongst this variable tribe, where to fix determinate specific character. Our present figure was taken from the Hibbertian Collection, where as yet the plant is only to be seen in Britain. It flowers in June or July; does not perfect its seeds, nor has the appearance of easily propagating from the root; the usual method with this link of the Geranium family. It thrives in sandy peat and leaf mould.



Geranium undulatum. Var. *minor*

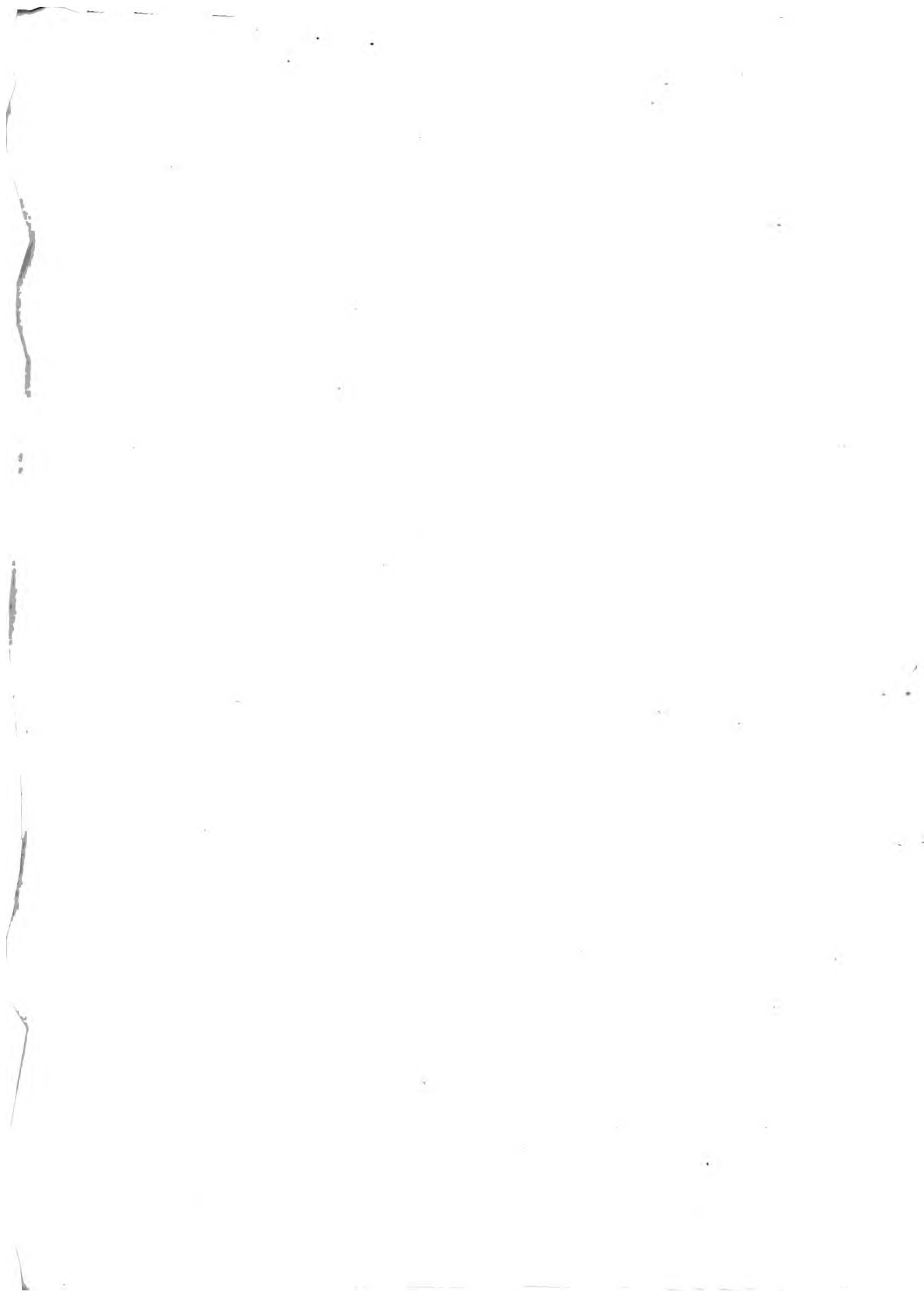


PLATE CCCXVIII.

HÆMANTHUS MULTIFLORUS.

Many-flowered Blood-Flower.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Involucrum hexaphyllum, maximum, umbelluliferum; foliis erectis, oblongis, persistentibus.

COROLLA monopetala, erecta, sexpartita; laciniis erectis, linearibus; tubo brevissimo, angulato.

STAMINA. Filamenta sex, subulata, tubo corollæ inserta, corolla longiora. Antheræ incumbentes, oblongæ.

PISTILLUM. Germen inferum. Stylus simplex, longitudine staminum. Stigma simplex.

PERICARPIUM. Bacca subrotunda, trilocularis.

SEMINA solitaria, triquetra.

EMPALEMENT. Fence six-leaved, large, bearing a small umbel; leaflets upright, oblong, permanent.

BLOSSOM one petal, upright, six-parted; segments upright, linear; tube very short, angular.

CHIVES. Threads six, awl-shaped, inserted into the tube of the blossom, longer than the blossom. Tips laying on the threads, oblong.

POINTAL. Seed-bud beneath. Shaft simple, the length of the chives. Summit simple.

SEED-VESSEL. Berry roundish, three-celled.

SEEDS solitary, three-fided.

SPECIFIC CHARACTER.

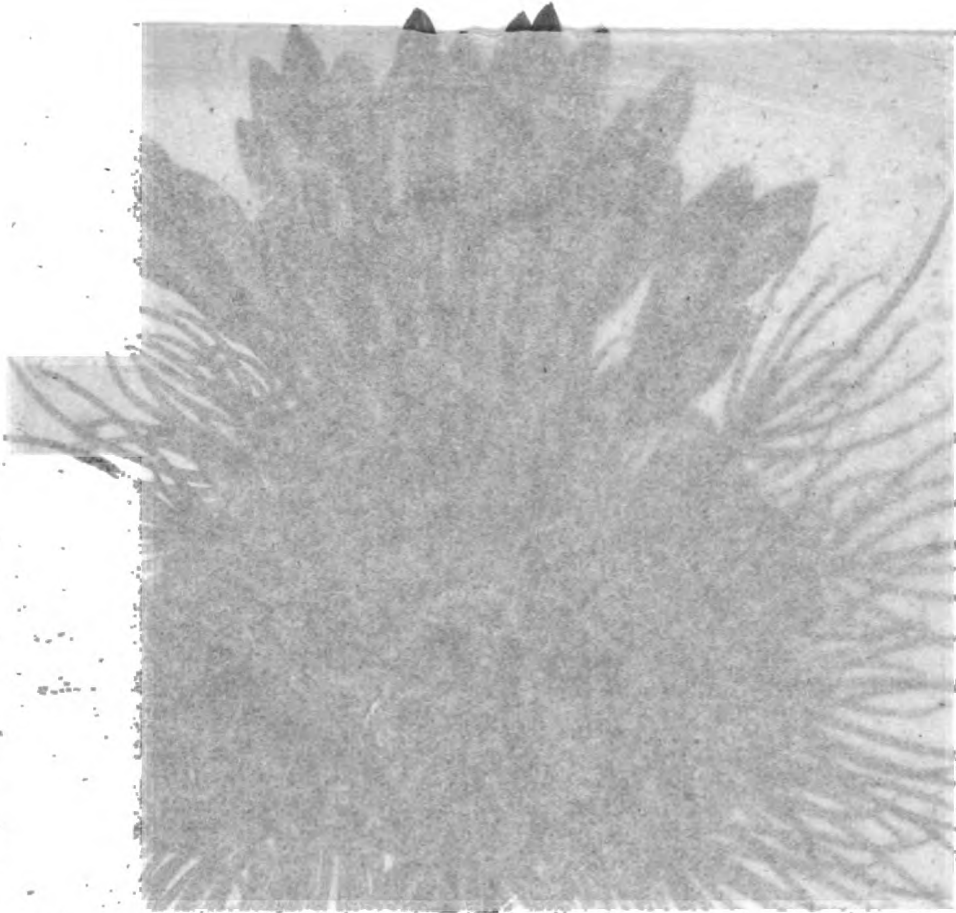
Hæmanthus foliis plicatis, undulatis, erectis, lato-lanceolatis; umbella globosa; floribus confertis; petalis patentibus; scapo ad basin maculato.

Blood flower with plaited leaves, waved, upright and broad-lance shaped; umbel globular; flowers crowded; petals spreading; flower-stem spotted at the base.

REFERENCE TO THE PLATE.

1. The Leaves and part of the Flower-Stem, in miniature.
2. A Flower, complete, natural size.
3. The Seed-bud, Shaft, and Summit.
4. A Seed-bud, cut transversely.
5. The embryo of a Seed.

THIS plant is said to have been in our European gardens so long ago as the year 1603: having, at that time, been sent to Paris by the younger Robin from Guinea. But however this may be, as yet there is no figure of the plant by which it may be known from many of this beautiful tribe, except the one by the late Mr. Nodder. We are indebted for its last introduction to the honourable the Sierra Leone Company, who received, in 1792, the roots of this plant, amongst many others, from that settlement; which were by them presented to Messrs. Lee and Kennedy, at Hammersmith. Our figure was taken in June from a plant in flower this present year, 1803, in the collection of J. Vere, Esq. Kensington Gore, where, from the particular management of Mr. Anderson, the same root has flowered several times; a circumstance that but rarely happens with these bulbs after the first year from importation. As a native of so hot a clime it must be kept in the bark bed of the hot-house; and, when the plant is not in flower, should be watered but sparingly. We as yet are unacquainted with any mode by which it may be propagated. It flourishes most in rich mould. Our figure represents the plant in a small specimen, as the head of flowers is frequently, in this country, of three times the size.



Hemantus multiflorus

MURDERERS

Blindfolded

L. BROWN

THEY WERE CHASED ONE BY ONE

They were chased one by one
Through the dark, cold, silent night
The wind whistled through the trees
As they fled in terror and flight
The moon shone pale and ghostly
On the faces of the fugitives
The ground was wet with dew
And the shadows were long and deep
The hunters were close behind them
And the air was thick with fear
The first to fall was the tallest
The second was the strongest
The third was the bravest
The fourth was the most cunning
The fifth was the most desperate
The sixth was the most desperate
The seventh was the most desperate
The eighth was the most desperate

THEY WERE CHASED

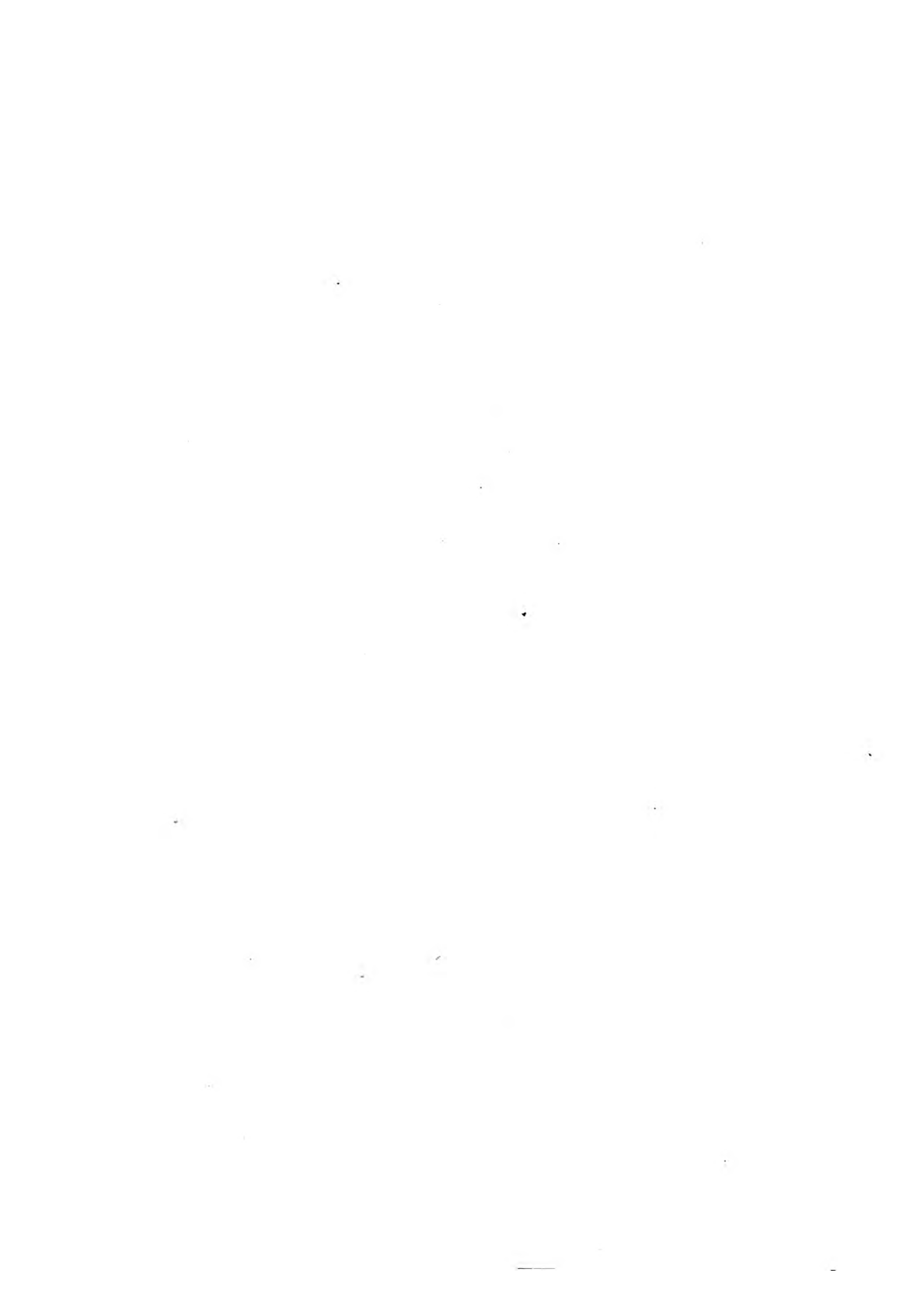
They were chased one by one
Through the dark, cold, silent night
The wind whistled through the trees
As they fled in terror and flight
The moon shone pale and ghostly
On the faces of the fugitives
The ground was wet with dew
And the shadows were long and deep
The hunters were close behind them
And the air was thick with fear
The first to fall was the tallest
The second was the strongest
The third was the bravest
The fourth was the most cunning
The fifth was the most desperate
The sixth was the most desperate
The seventh was the most desperate
The eighth was the most desperate

They were chased one by one
Through the dark, cold, silent night
The wind whistled through the trees
As they fled in terror and flight
The moon shone pale and ghostly
On the faces of the fugitives
The ground was wet with dew
And the shadows were long and deep
The hunters were close behind them
And the air was thick with fear
The first to fall was the tallest
The second was the strongest
The third was the bravest
The fourth was the most cunning
The fifth was the most desperate
The sixth was the most desperate
The seventh was the most desperate
The eighth was the most desperate



Chromanthus multiflorus

Pl. 310. Chromanthus multiflorus.



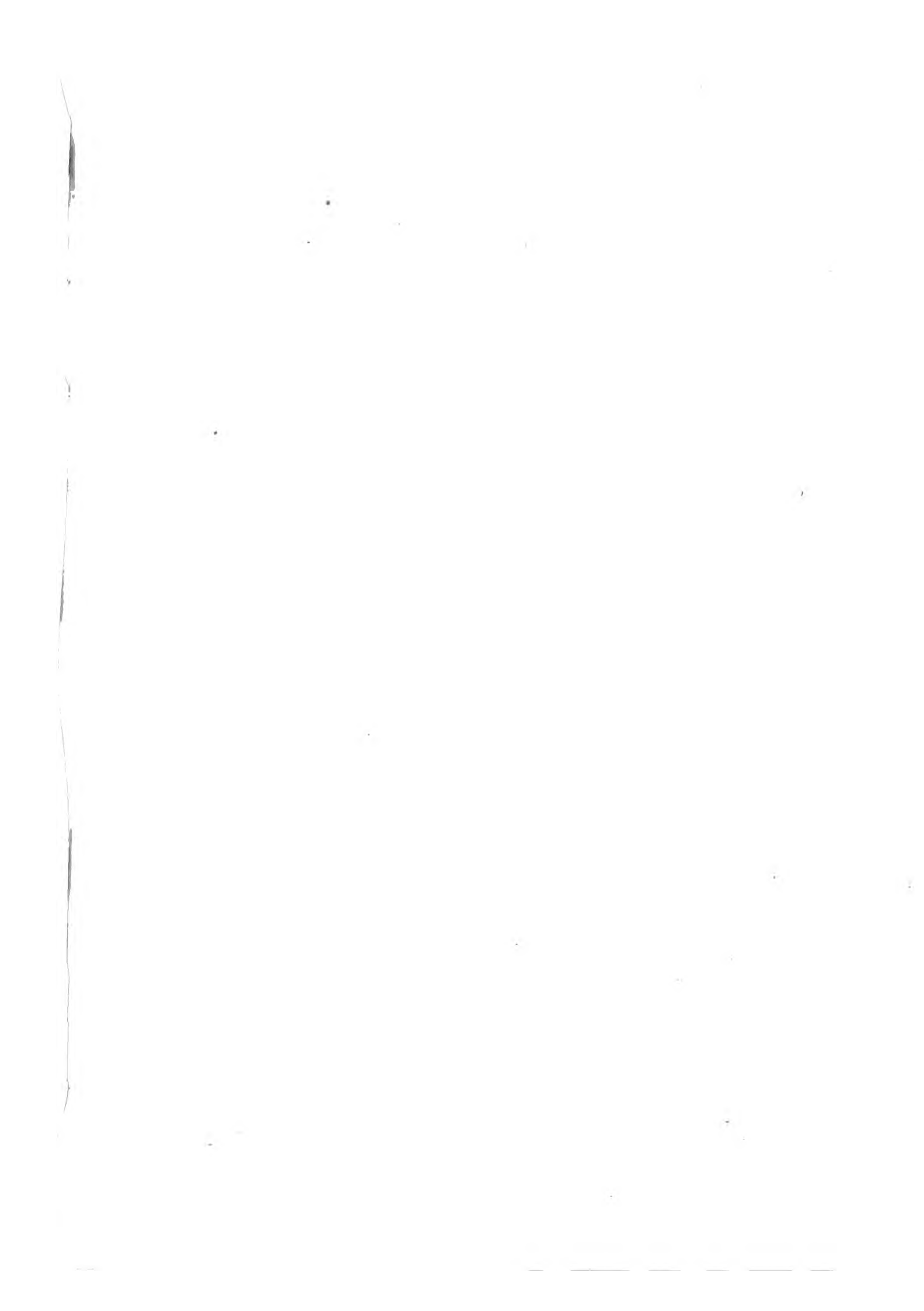


PLATE CCCXIX.
VICIA GALEGIFOLIA.
Goat's-Rue-leaved Vetch.

CLASS XVII. ORDER IV.
DIADELPHIA DECANDRIA. Chives in two sets. Ten Chives.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, tubulatum, erectum, semi-quinquefidum, acutum; dentibus superioribus brevioribus, conniventibus; omnibus æqualis latitudinis.

COROLLA papilionacea.

Vexillum ovale, ungue lato oblongo, apice emarginatum cum acumine, lateribus reflexum, linea longitudinali compressa elevata.

Alæ duæ, oblongæ, erectæ, femicordatæ, ungue oblongo, vexillo breviores.

Carina ungue oblongo bipartito, ventriculo compresso, femiorbiculato, alis brevioribus.

STAMINA. Filamenta diadelphia (simplex et novemfidum). Antheræ erectæ, subrotundæ, quadrifidæ.

Nectarii glandulæ intra stamen compositum et germen e receptaculo oritur, brevis, acuminata.

PISTILLUM. Germen lineare, compressum, longum. Stylus filiformis, brevior, ad angulum erectum ascendens. Stigma obtusum, sub apice transverse barbatum.

PERICARPIUM. Legumen longum, coriaceum, uniloculare, bivalve, acumine terminatum.

SEMINA plura, subrotunda.

EMPALEMENT. Cup one-leaf, tubular, upright, half five-cleft sharp; the upper teeth the shortest, approaching; all the teeth of equal breadth.

BLOSSOM butterfly-shaped.

Standard oval, with a broad oblong claw, notched at the top, with a point in the middle, sides reflexed, compressed and raised in a line running lengthways.

Wings two, oblong, erect, half-heart shaped, with an oblong claw, shorter than the standard.

Keel, with an oblong two-parted claw, the hollow part compressed like a half circle shorter than the wings.

CHIVES. Threads in two sets, (one alone, the other nine-cleft.) Tips upright, roundish four-furrowed.

Honey-cup, gland arising from the receptacle between the united threads and the seed-bud; short and tapered.

POINTAL. Seed-bud linear, compressed and long. Shaft thread-shaped, shorter, turned upwards from an angle. Summit blunt, bearded transversely on the upper part at the end.

SEED-VESSEL. Pod long, tough, one-celled, two-valved terminated by a point.

SEEDS many, rather round.

SPECIFIC CHARACTER.

Vicia pedunculis multifloris erectis: floribus striatis; foliolis ovalibus, subtruncatis, reflexis.

Vetch with many-flowered, upright fruit-stalks; flowers streaked; leaflets oval, rather appearing cut off at the points, reflexed.

REFERENCE TO THE PLATE.

1. The Cup.
2. The Standard, or upper Petal of the Flower, shewn in front.
3. The same, shewn from the back-side.
4. One of the Wings of the Blossom.
5. The Keel of the same.
6. The Chives, natural size.
7. The Pointal, natural size.
8. The Chives, magnified, shewn from the front side.
9. A half-ripe Pod.

THIS pretty plant is a native of New Holland, and was first received in seeds from thence under the name of *Indigofera coccinea*, in the year 1800, by Messrs. Lee and Kennedy, Hammermith. It grows into a bushy plant, making a number of branches from the root, but is rather a woody than herbaceous plant; yet the branches have all the character of most of the species of this genus. It has not as yet been increased by cuttings, but from every appearance the seeds will ripen in this country; and there is little doubt but the roots may be divided with safety. It flourishes in a mixture of sandy peat and loam. Our figure was taken from a plant in the Collection of Messrs. Colvilles, King's Road, Chelsea; where it has likewise flowered this present August, 1803.



Vicia galegifolia

9. Seed as they are ...
of the ...

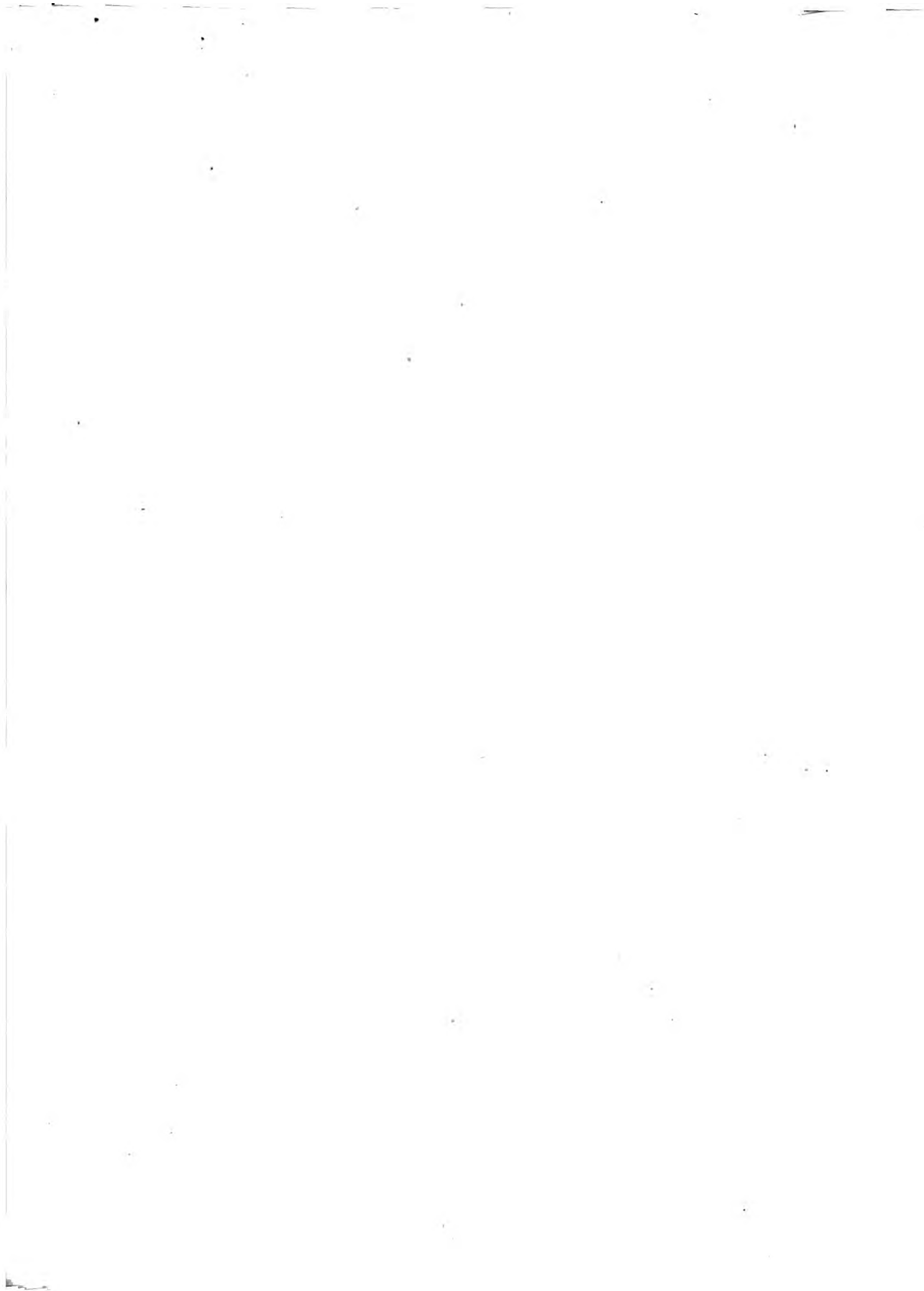


PLATE CCCXX.

PULTENÆA ILICIFOLIA.

Holly-leaved Pultenæa.

CLASS X. ORDER I.

DECANDRIA MONOGYNIA. Ten Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX quinque-dentatus, utrinque appendiculatus. Corolla papilionacea, alis vexillo brevioribus. Legumen uniloculare, dispermum.

CUP five-toothed, with an appendage on each side. Blossom butterfly-shaped, wings shorter than the standard. Pod one-celled, two seeded.

See PULTENÆA DAPHNOIDES, Pl. XCVIII. Vol. II.

SPECIFIC CHARACTER.

Pultenæa foliis hastatis, serratis, rigidis; floribus axillaribus, racemosis.

Pultenæa with halbert-shaped leaves, swawed and harsh; flowers grow from the infertion of the leaves in long bunches.

REFERENCE TO THE PLATE.

1. The Cup, natural size.
2. The same, magnified.
3. The Standard, or upper petal of the blossom.
4. One of the Wings of the same.
5. The two petals of the keel of the same.
6. The Chives and Pointal.
7. The Chives, magnified.
8. The Seed-bud, Shaft and Summit, magnified.

THIS species of Pultenæa was introduced, from New Holland, about the year 1792, by Messrs. Lee and Kennedy, Hammermith, and is undoubtedly one of the handsomest of the genus. It is difficult to increase as the seeds do not mature, and it is very rarely propagated by cuttings. It grows to the height of three or four feet; and, when in flower, makes a very brilliant appearance. It is not a long-liv'd plant; is very impatient of wet, and is easily hurt by the cold, so should be kept in a dry and warm part of the green-house, or even on a shelf in the hot-house, during the winter months. It thrives in very sandy peat-earth without any mixture. Our drawing was made from a plant in the Hibbertian Collection, in the month of June, 1801.



Pultenaea ilicifolia



PLATE CCCXXI.

ARETHUSA PPLICATA.

Plaited-leaved Arethusa.

CLASS XX. ORDER I.

GYNANDRIA DIANDRIA. Chives on the Pointal. Two Chives.

GENERIC CHARACTER.

CALYX. Spatha foliacea. Perianthium nullum.
COROLLA ringens; petala quinque, oblonga, subæqualia, duo exteriora, omnia conniventia in galeam.
Nectarium monophyllum, basi tubulosum, intra corollæ fundum, bipartitum; labio inferiore reflexo, lato, rugoso, longitudine petalorum, propendente; labio superiore lineari, tenerrimo, stylo adnato, apice lobato.
STAMINA. Filamenta duo, brevissima, pistilli apici infidentia. Antheræ ovatæ, compressæ, tectæ duplicatura labii interioris nectarii.
PISTILLUM. Germen oblongum, inferum. Stylus oblongus, incurvus, labio interiore nectarii vestitus. Stigma infundibuliforme.
PERICARPIUM. Capsula oblongo-ovata, unilocularis, tri-valvis, angulis dehiscens.
SEMINA numerosa, acerofa.

EMPALEMENT. Sheath leafy. Cup none.
BLOSSOM gaping. Five petals, oblong, nearly equal, two outer, all converging into a helmet.
Honey-cup one-leafed, tubular at the base, within the bottom of the blossom, two-parted; lower lip reflexed, broad, wrinkled, the length of the petals, hanging down forwards; upper lip linear, very delicate, fixed to the shaft, lobed at top.
CHIVES. Two threads, very short, sitting on the top of the pointal. Tips egg-shaped, flattened, covered by the folding of the inner lip of the honey-cup.
POINTAL. Seed-bud oblong, beneath. Shaft oblong, incurved, cloathed by the inner lip of the honey-cup. Summit funnel-shaped.
SEED-VESSEL. Capsule oblong egg-shaped, one-celled, three valved, splitting at the angles.
SEEDS numerous, chaffy.

SPECIFIC CHARACTER.

Arethusa radice globosa; folio cordato, plicato, hirsuto.

Arethusa with a globular root; leaf heart-shaped, plaited and hairy.

REFERENCE TO THE PLATE.

1. The Plant, after the Flower has disappeared.
2. The Petals of the Flower, spread open.
3. The Honey-cup, spread open.
4. The Chives and Pointal.
5. The same, magnified; the hood, to which the chives are attached, lifted up.

THIS singular little bulbous rooted plant was received this year, 1803, in the month of April, amongst a number of other curious new seeds and bulbs, from the East-Indies, by Aylmer Bourke Lambert, Esq. by whom they have been communicated to different collections. Although the plant has considerable affinity with *Arethusa*, yet we entertain doubts whether it should not be placed to *Limodorum*, as it wants many of the generic characters of the former genus, and but few, and those but trivial in its correspondence, to the latter. We have, notwithstanding, given it the title under which it was sent, submitting our judgment to what we conceive better authority. There is little doubt but the plant will soon be lost in our collections, as but few of this natural order are either to be propagated or kept by any cultivation we are at present acquainted with. Our figure was taken from a plant which flowered in the hot-house of J. Vere, Esquire, Kenfington Gore, in the month of July, before there was any appearance of either root or leaf from the bulb. It was in flower at the same time in the Collection of Sir Abraham Hume, Bart. Wormley-Bury, Herts.



Arethusa plicata

1824

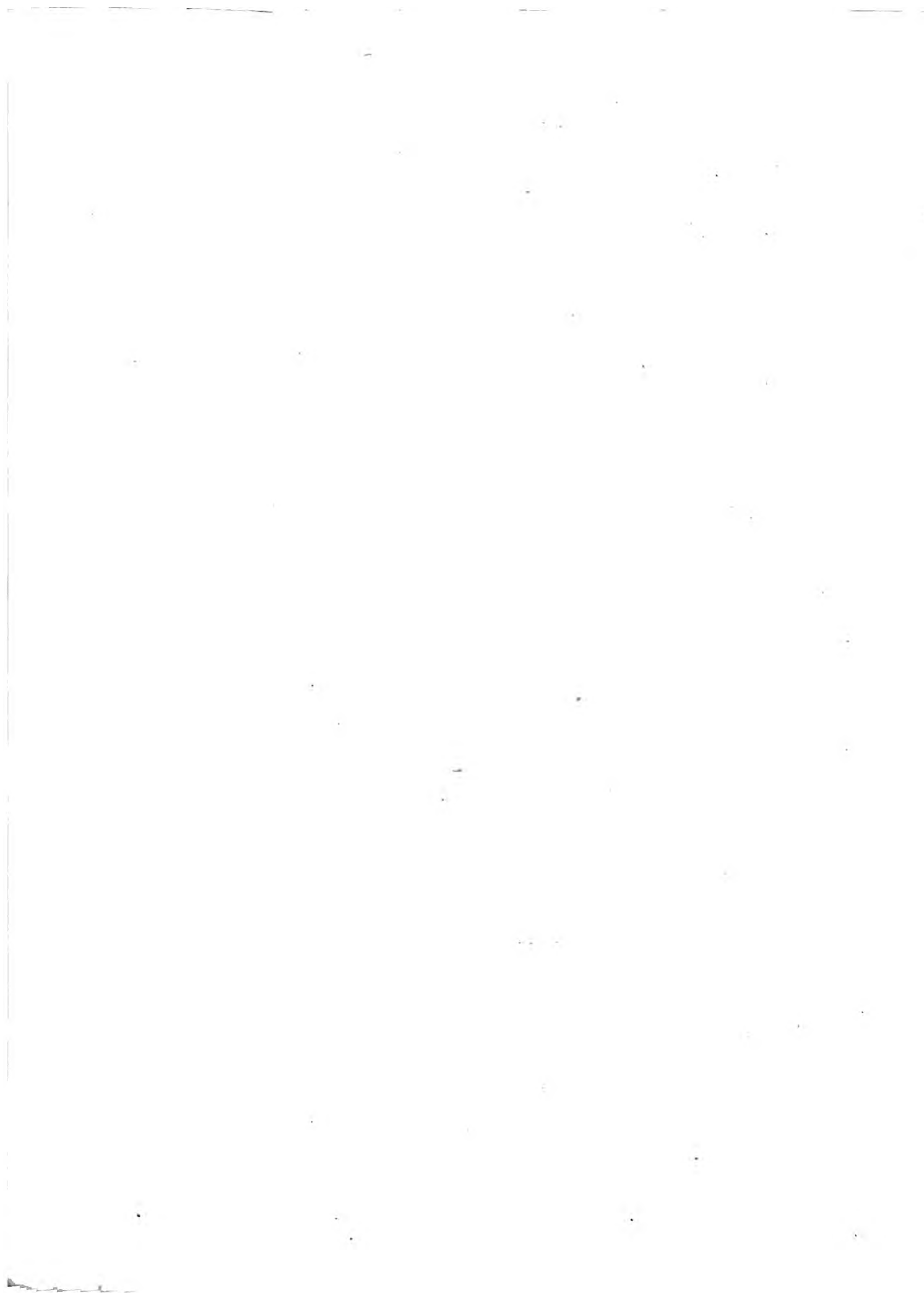


PLATE CCCXXII.

PITCAIRNIA LATIFOLIA.

Broad-leaved Pitcairnia.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX triphyllus, femifuperus. Petala 3.
Squama nectarifera ad basin petalorum.
Stigmata tria contorta. Capsula tria, in-
trorsum dehiscentes. Semina alata.

EMPALEMENT three-leaved, half superior. Petals
three; with a scaly honey-cup at the base
of the petals. Three summits twisted.
Three capsules, splitting from the inside.
Seeds winged.

SPECIFIC CHARACTER.

Pitcairnia foliis integerrimis, basi subspinosis.

Pitcairnia with leaves quite entire, rather spiny
at the base.

REFERENCE TO THE PLATE.

1. The Empalement.
 2. One of the Petals, with its scale at the base.
 3. The Chives and Pointal, cleared from the Petals.
 4. The Pointal, the Summits detached, magnified.
 5. The Seed-bud, cut transversely.
-

THE species of Pitcairnia here figured is a native of Jamaica, and was first introduced to Britain by Mr. A. Anderson, in the year 1785. It does not flower so readily as some of the other species, but is equally easy to increase; flourishes in rich earth, and may be kept on a shelf of the hot-house until its flower-stem appears; when, to encourage its flowering, it should be plunged in the bark-bed.— Our drawing was made, in the month of July, from a plant in the Collection of J. Vere, Esquire, Kenfington Gore.



STATE OF TEXAS

COUNTY OF [illegible]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]

[illegible text]



Puccinia latifolia

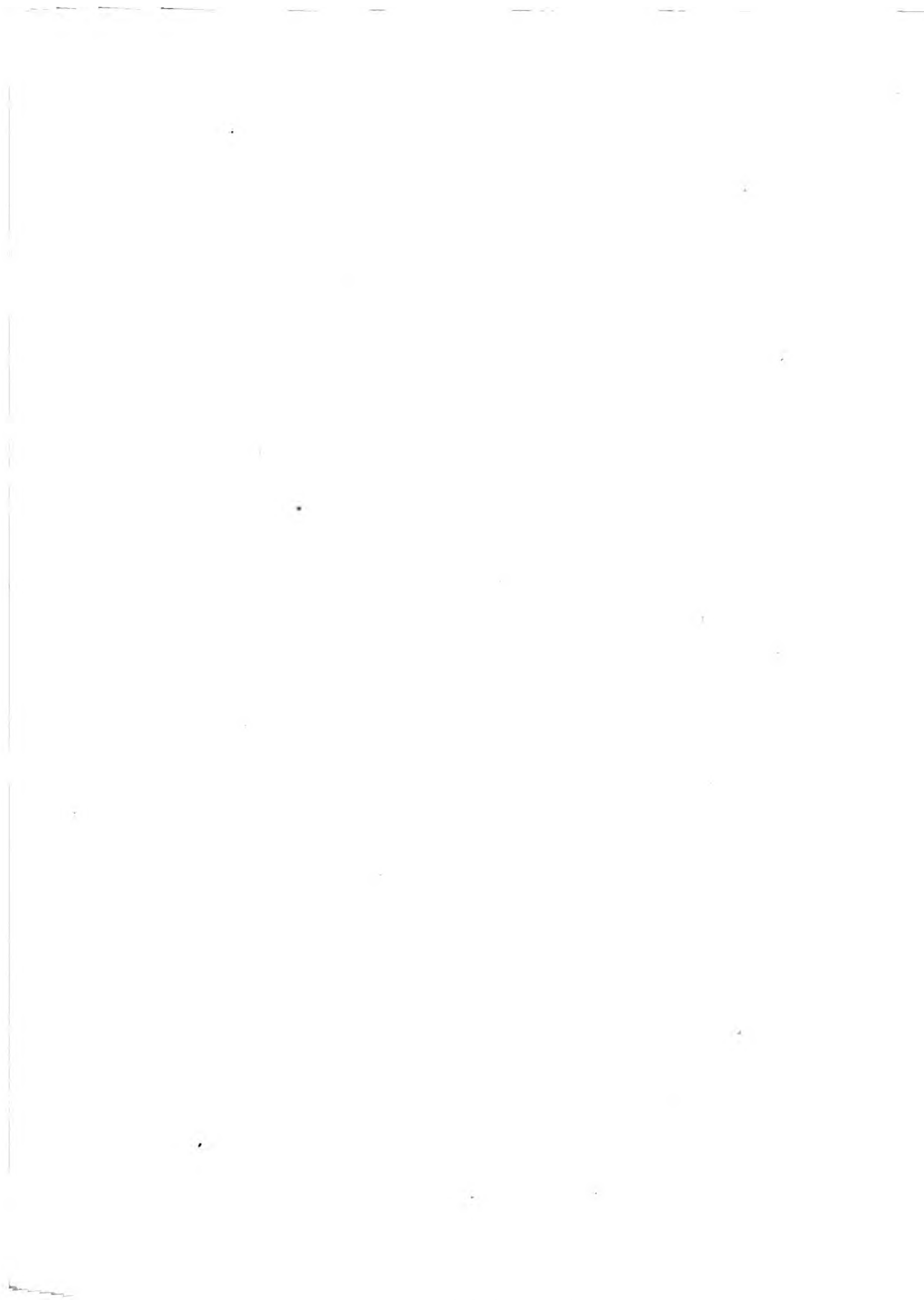


PLATE CCCXXIII.

GERANIUM BARBATUM. *Var. Minor.*

Bearded-leaved Geranium. Lesser Var.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNIA. Stigmata quinque. Fructus rotatus, penta-coccus. || ONE POINTAL. Five Summits. Fruit furnished with long awns, five dry berries.

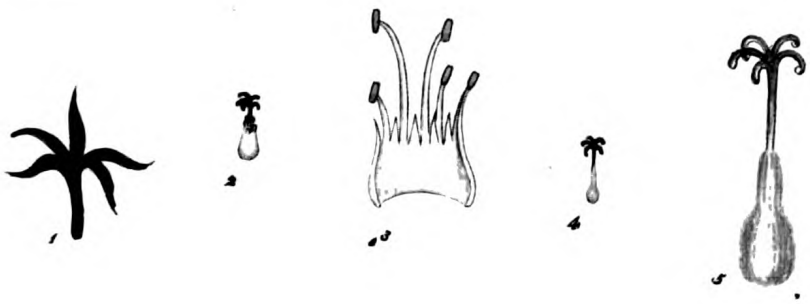
SPECIFIC CHARACTER.

Geranium foliis pinnatis; foliolis inequaliter, dentatis, apice barbatis; floribus umbellatis; petalis linearibus, recurvatis; staminibus quinque fertilibus, binis longioribus; scapo polytachio; radice tuberosa. || Geranium with winged leaves, leaflets unequally toothed, and bearded at the point; flowers grow in umbels, petals linear, recurved; five fertile chives, two longer; flower-stem branched; root tuberous.

REFERENCE TO THE PLATE.

1. The Cup cut open, to shew its tubular structure.
2. The Chives and Pointal, natural size.
3. The Chives cut open, magnified.
4. The Pointal, natural size.
5. The same, magnified.

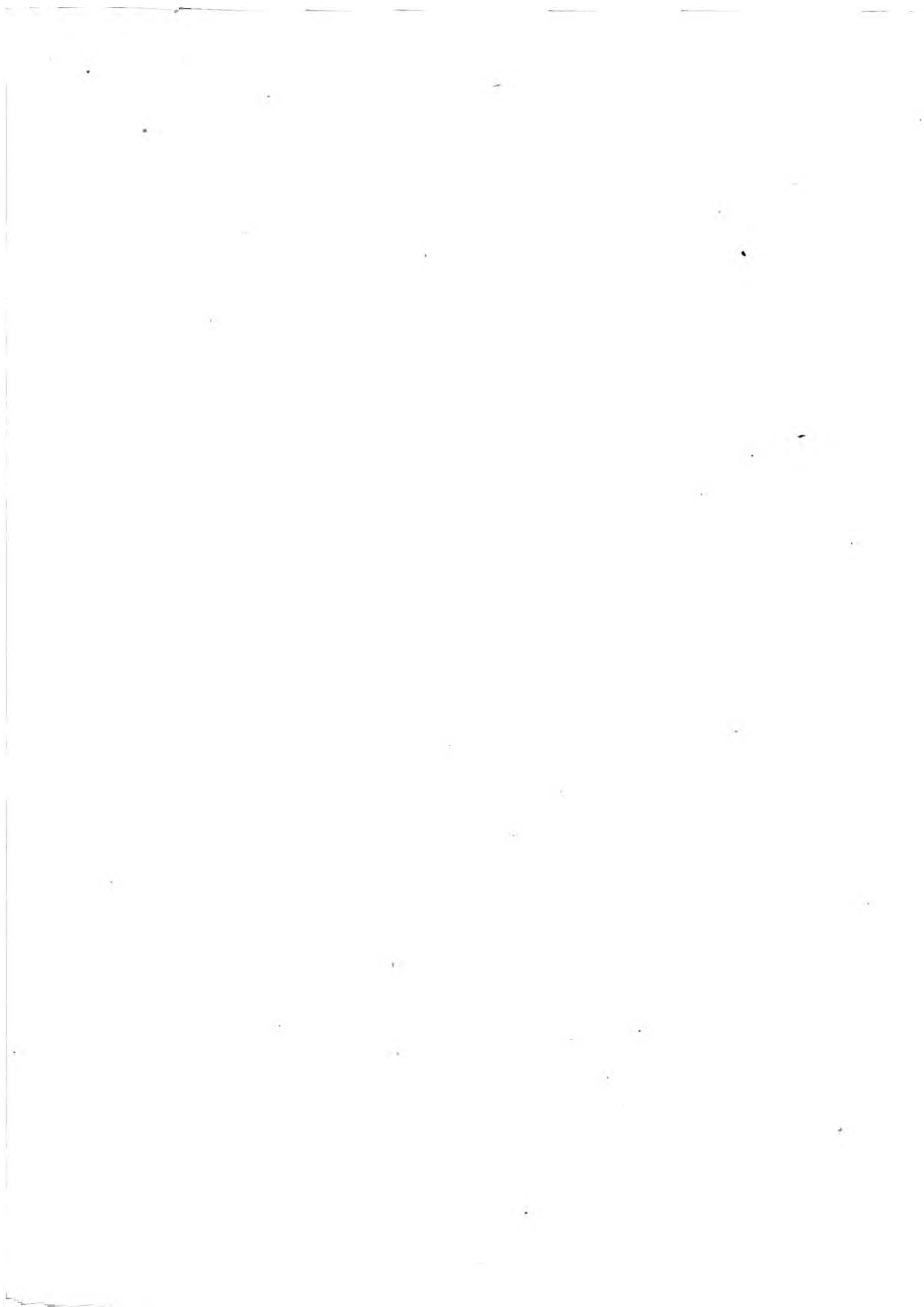
OUR present figure is taken from a plant in the Hibbertian Collection, Clapham; and is a very strong variety of the Bearded-leaved Geranium of a former number, taken from the same source. It is, as far as appearances lead, no way differing in character from the rest of the tuberous species of this genus, to require any other treatment. Flowers in June or July.



Geranium barbatum Var. *minor*

Pl. barbatum var. *minor*
by H. Robinson & Knight, 1840







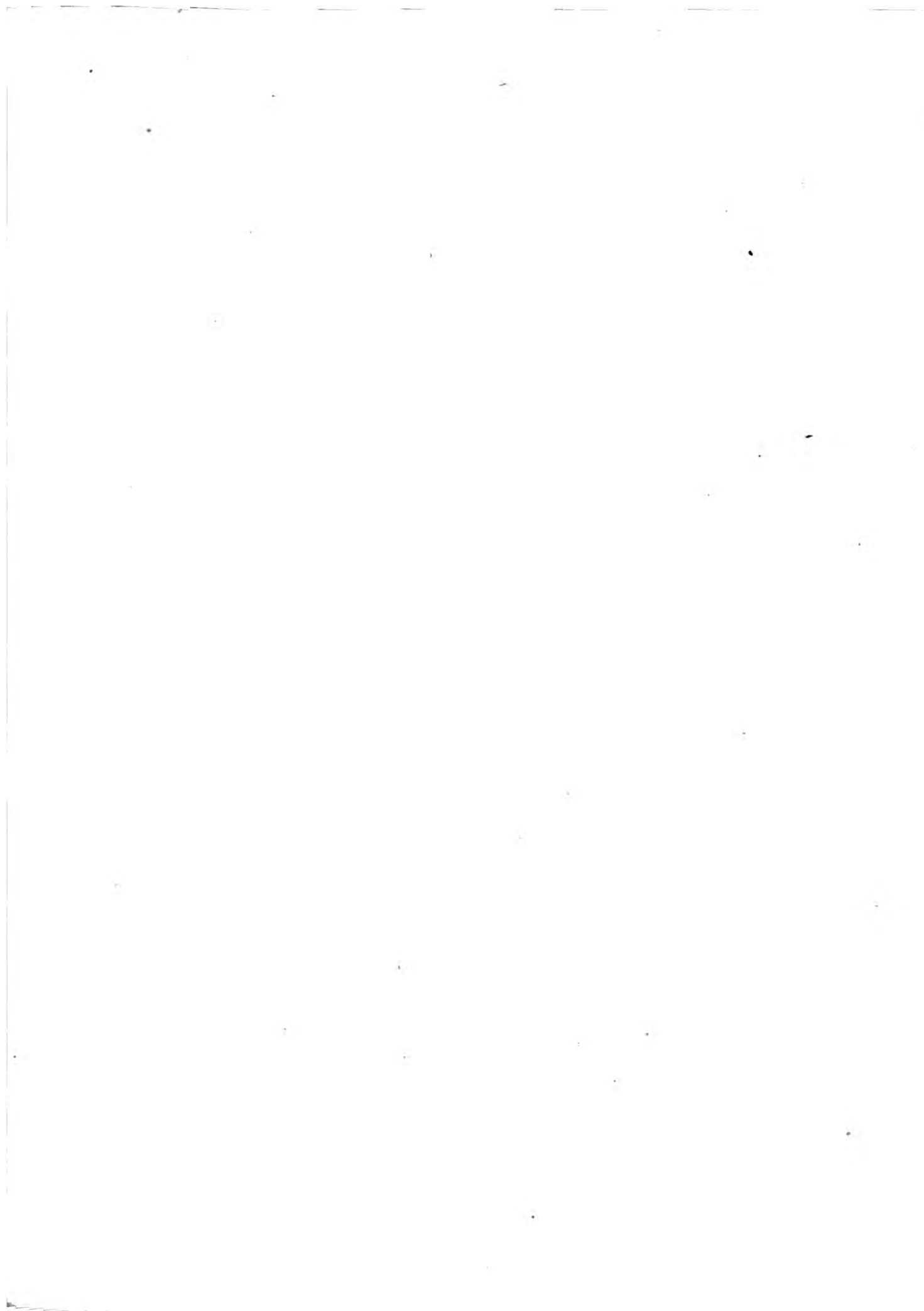


PLATE CCCXXIV.

MAGNOLIA PURPUREA.

Purple-flowered Magnolia.

CLASS XIII. ORDER VII. *of Schreb. Gen. Plants.*

POLYANDRIA POLYGYNIA. Many Chives. Many Pointals.

ESSENTIAL GENERIC CHARACTER.

CALYX 3-phyllus. Petala 6-12. Capfulæ 2-valves, imbricatæ. Semina baccata, pendula. || CUP 3-leaved. Petals 6-12. Capfules 2-valved, tiled. Seeds, berries, pendulous. See MAGNOLIA PUMILA, Pl. CCXXVI. Vol. IV.

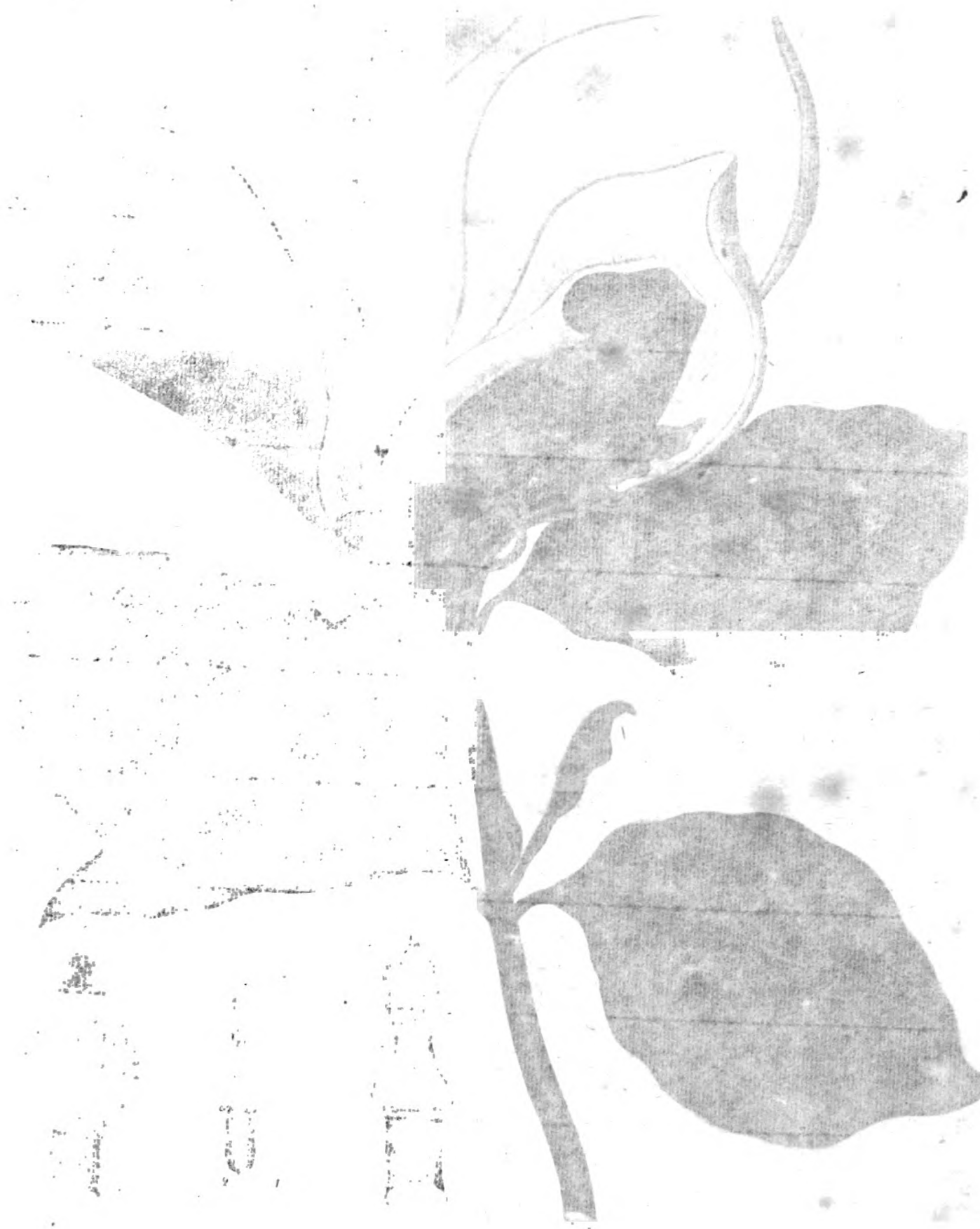
SPECIFIC CHARACTER.

Magnolia foliis obovatis, flaccidis; floribus purpureis; petalis obovatis, divaricatis. || Magnolia with inverfely egg-shaped, flaccid leaves; flowers purple; petals inverfely egg-shaped and straddling,

REFERENCE TO THE PLATE.

1. The Chives and Pointals.
 2. A Chive, magnified.
 3. The Pointals.
-

THIS fine species of Magnolia is a native of China and Japan, was introduced to us by the late Mr. Slater of Laytonstone, to whom we are so much indebted for the greatest number of beautiful plants which have been imported from thence by any individual. It is a very free growing plant; will resist the severity of our winters, if planted in a warm situation, and is deciduous; but if kept in the conservatory, it retains its leaves the whole year, and flowers about June. It is propagated with ease by laying, or by cuttings, and thrives in peat earth, with a small mixture of loam. The plant from which our figure was taken is in the magnificent Conservatory of the Right Honourable the Marquis of Blandford, White Knights, near Reading, Berks; and, we believe, the finest specimen of this species of Magnolia in Britain.



THE UNIVERSITY OF CHICAGO
 LIBRARY
 540 EAST 57TH STREET
 CHICAGO, ILL. 60637

PAPER ORDER VII. of the *C. a. l.* series.

The following is a list of the papers in the series
 published in the *Journal of the Royal Microscopical Society*.

PAPER ORDER VII. of the *C. a. l.* series.
 The following is a list of the papers in the series
 published in the *Journal of the Royal Microscopical Society*.

PAPER ORDER VII. of the *C. a. l.* series.
 The following is a list of the papers in the series
 published in the *Journal of the Royal Microscopical Society*.

PAPER ORDER VII. of the *C. a. l.* series.
 The following is a list of the papers in the series
 published in the *Journal of the Royal Microscopical Society*.

The following is a list of the papers in the series published in the *Journal of the Royal Microscopical Society*. The list is arranged in order of the date of publication. The first paper is by *W. H. R. Murray* and *J. H. R. Murray*, published in 1911. The last paper is by *J. H. R. Murray*, published in 1912. The papers in the series are:



Magnolia purpurea

Painted by J. C. Smith
Engraved by J. C. Smith

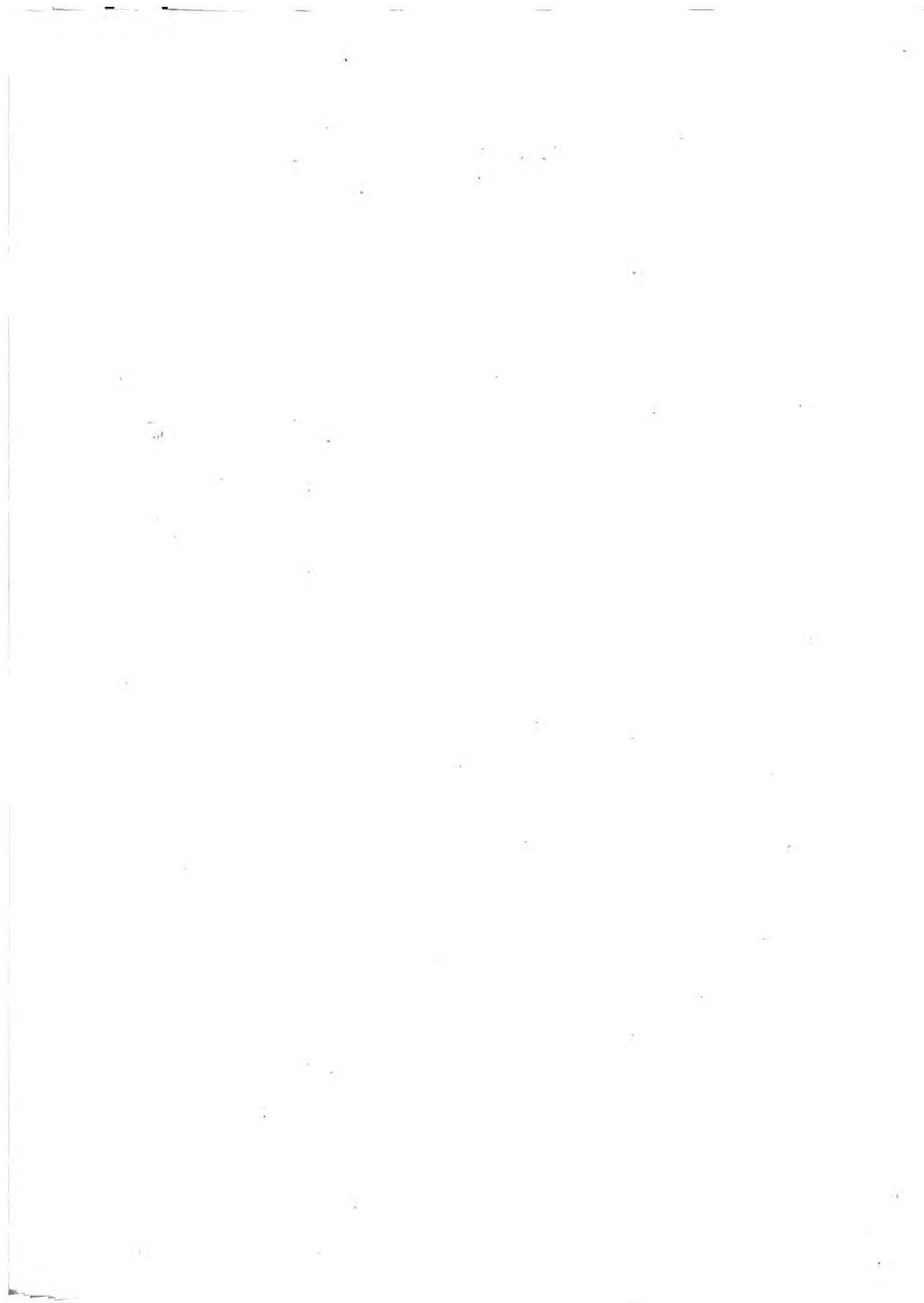


PLATE CCCXXV.
 CODON ROYENI.

Prickly Codon.

CLASS XI. ORDER I.

DODECANDRIA MONOGYNIA. Twelve Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, duodecempartitum; foliolis subulatis, persistentibus, erectis, alternis brevioribus.

COROLLA monopetala, campanulata, basi torulosa; limbo duodecimpartito, aquali.

Nectarium duodecim loculare ex squamis 12, unguibus staminum insertis, conniventibus, receptaculum tegentibus.

STAMINA. Filamenta duodecim, longitudine corollæ. Antheræ crassæ.

PISTILLUM. Germen superum, conicum. Stylus simplex, longitudine staminum. Stigmata duo, longa, setacea, divergentia.

PERICARPIUM. Capsula bilocularis.

SEMINA plurima, subrotunda, nigra.

EMPALEMENT. Cup one-leaf, twelve-divided; leaflets awl-shaped, remaining, upright, the alternate ones shorter.

BLOSSOM one petal, bell-shaped, rather swelled at the base; border twelve-divided, equal.

Honey-cup twelve-celled, consisting of 12 scales, inserted into the claws of the chives, approaching, covering the receptacle.

CHIVES. Twelve threads, the length of the blossom. Tips thick.

POINTAL. Seed-bud above, conical. Shaft simple, the length of the chives. Summits two, long, like bristles, straddling.

SEED VESSEL. Capsule two-celled.

SEEDS numerous, roundish, black.

SPECIFIC CHARACTER.

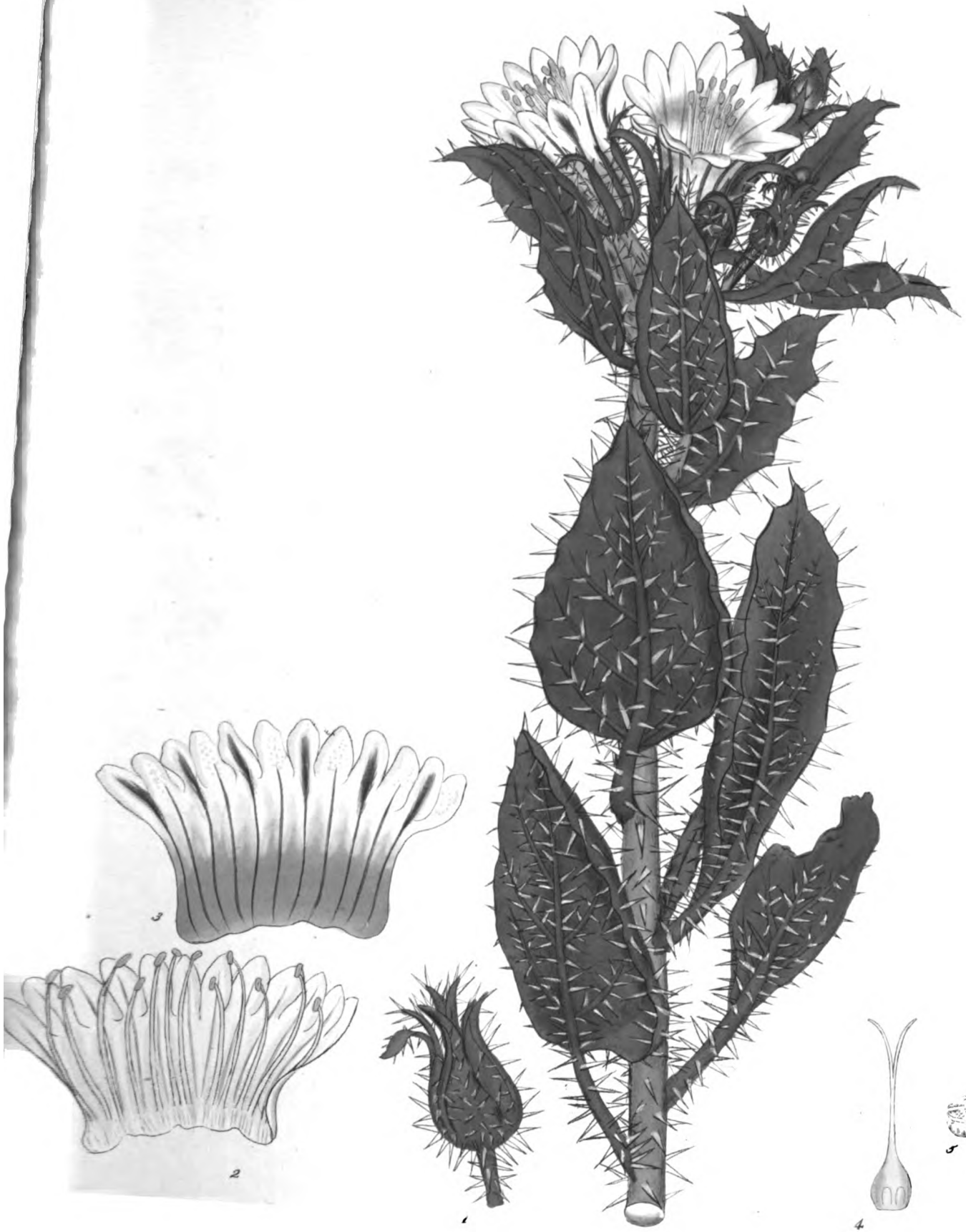
Codon foliis alternis, cordato-ovatis, acuminatis, setaceo-spinosis; floribus subcapitatis, terminalibus.

Codon with alternate leaves, between heart-shaped and oval, tapered to the point, with spine-like bristles; flowers grow nearly in heads, terminating the branches.

REFERENCE TO THE PLATE.

1. The Empalement.
2. A Blossom spread open, with the chives in their place.
3. The same shewn from the outside.
4. The Seed-bud, Shaft and Summits.
5. The Seed-bud, cut transversely.

As an interesting desideratum, this plant has stood long amongst botanical collectors; but till the year 1801, it was never seen, in a vegetating state, in Britain; at which period, it was introduced to our gardens, by Mr. Niven, from the Cape of Hope. It is not, we believe, (although considered hitherto as such,) an annual; but rather, a half woody shrub, easily destroyed by moisture. As the seed appears to ripen freely, although there seems no other mode of perpetuating the plant, we shall stand in no danger of losing it; its attractions are, indeed, not great as to beauty, but much so as to singularity; since we have no plant to which it affines in general habit. The seeds should be sown on a gentle hot-bed, in March, and transplanted when about two inches high, into pots, to flower, which they will do about September. Our drawing was made at the Hammersmith Nursery. Having had the opportunity of examining the flowers, of more than twenty plants; we are convinced it has been wrong placed by Van Royen to decandria; for although many flowers may be found, even on the same plant, some with eight, others with ten chives, yet at least 90 out of 100 have twelve; wherefore we have, without scruple, placed it to dodecandria.



Codon Royeni

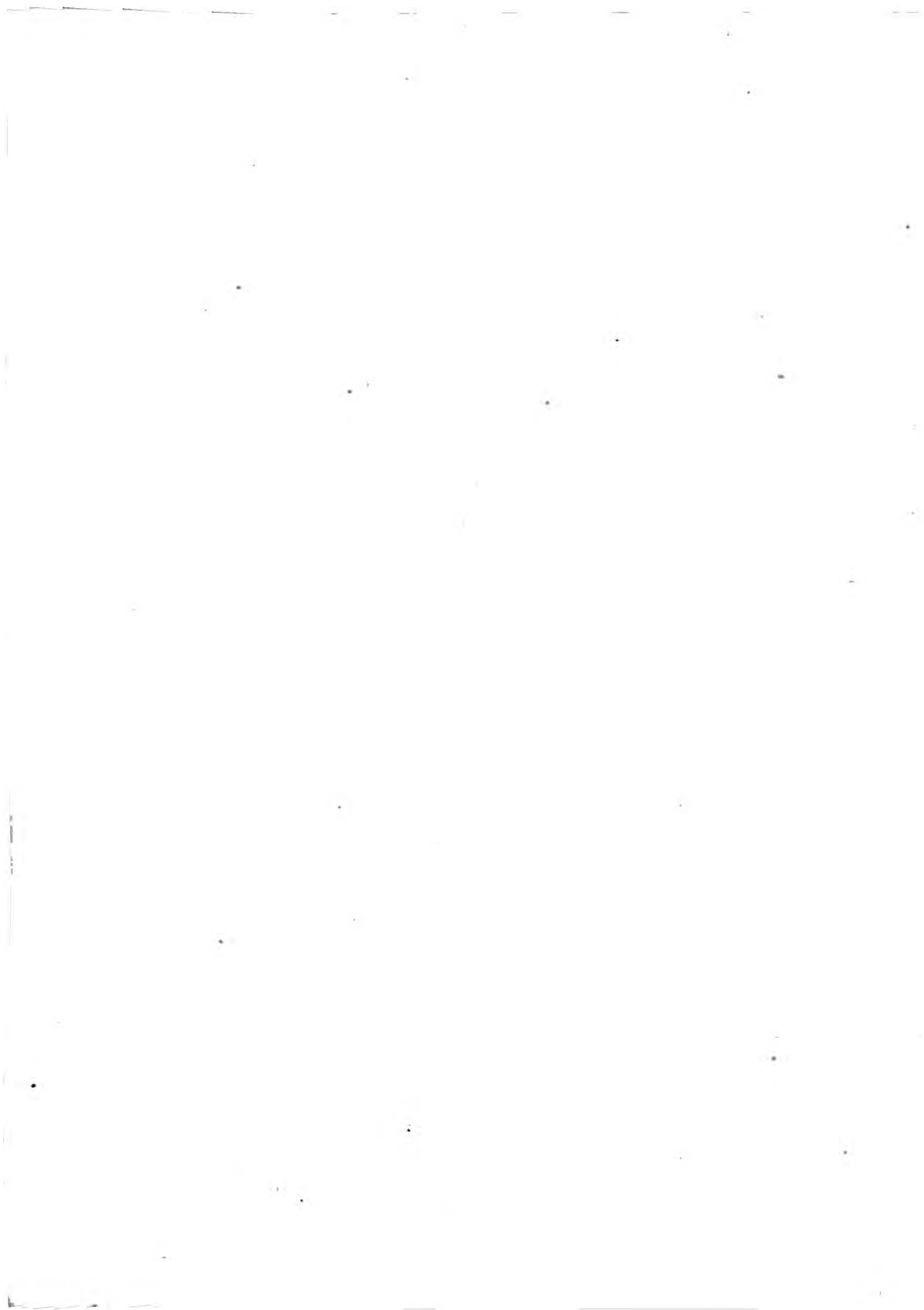


PLATE CCCXXVI.
PHARNACEUM LINEARE.
Linear-leaved Pharnaceum.

CLASS V. ORDER III.

PENTANDRIA TRIGYNIA. Five Chives. Three Pointal.

GENERIC CHARACTER.

CALYX. Perianthium pentaphyllum; foliolis subovatis, concavis, patentibus, æqualibus, persistentibus, intus coloratus, margine tenui.

COROLLA nulla; hinc calycis margo tenuis et calyx interne coloratus.

STAMINA. Filamenta quinque, subulata, longitudine calycis. Antheræ basi bifidæ.

PISTILLA. Germen ovatum, trigonum. Styli tres, filiformes, longitudine flaminum. Stigmata obtusa.

PERICARPIUM. Capsula ovata, obsoletè trigona, tecta, trilocularis, trivalvis.

SEMINA numerosa, nitida, orbiculata, depressa, margine acuto cincta.

EMPALEMENT. Cup five-leaved; leaflets nearly egg-shaped, concave, spreading, equal, permanent, coloured within, with a thin edge.

BLOSSOM none; hence the edge of the cup is thin and the inside of it is coloured.

CHIVES. Five-threads, awl-shaped, the length of the cup. Tips cleft at the base.

POINTALS. Seed-bud egg-shaped, three-sided. Shafts three, thread-shaped, the length of the chives. Summits blunt.

SEED-VESSEL. Capsule egg-shaped, bluntly three-cornered, covered, three-celled, three valves.

SEEDS numerous, shining, orbicular, flattened, surrounded by a sharp rim.

SPECIFIC CHARACTER.

Pharnaceum foliis linearibus, verticillatis; umbellis inequalibus; calycibus aurantiis; caule decumbente.

Pharnaceum with linear leaves, growing in whorls; umbels unequal; cups orange coloured; stem bending downwards.

REFERENCE TO THE PLATE.

1. The Cup, shewn from the front, with the chives.
2. The same, shewn from the hind part attached to the fruit-stalk.
3. The Seed-bud and Pointals, natural size.
4. The same, magnified.
5. The Seed-bud, cut transversely, magnified.

THIS little plant much resembles our Corn Spurry, or *Spergula arvensis*, at first sight. It is a native of the Cape of Good Hope, seldom grows more than six inches high, and is very apt to be destroyed by the damps of our winters. It should be placed in the airyest part of the greenhouse, and kept in light sandy loam. To propagate it, the cuttings should be put in, about the month of March, in the heat of a gentle hot-bed, or the bark-bed of the hot-house; the seeds are sometimes perfected. It has been often introduced to us, but as often lost; as it is not a plant of much show, no great deal of pains has, hitherto, been taken for its preservation. Our drawing was taken from a plant in the Hibbertian Collection, in the month of July, 1802.



Pharnaceum lineare

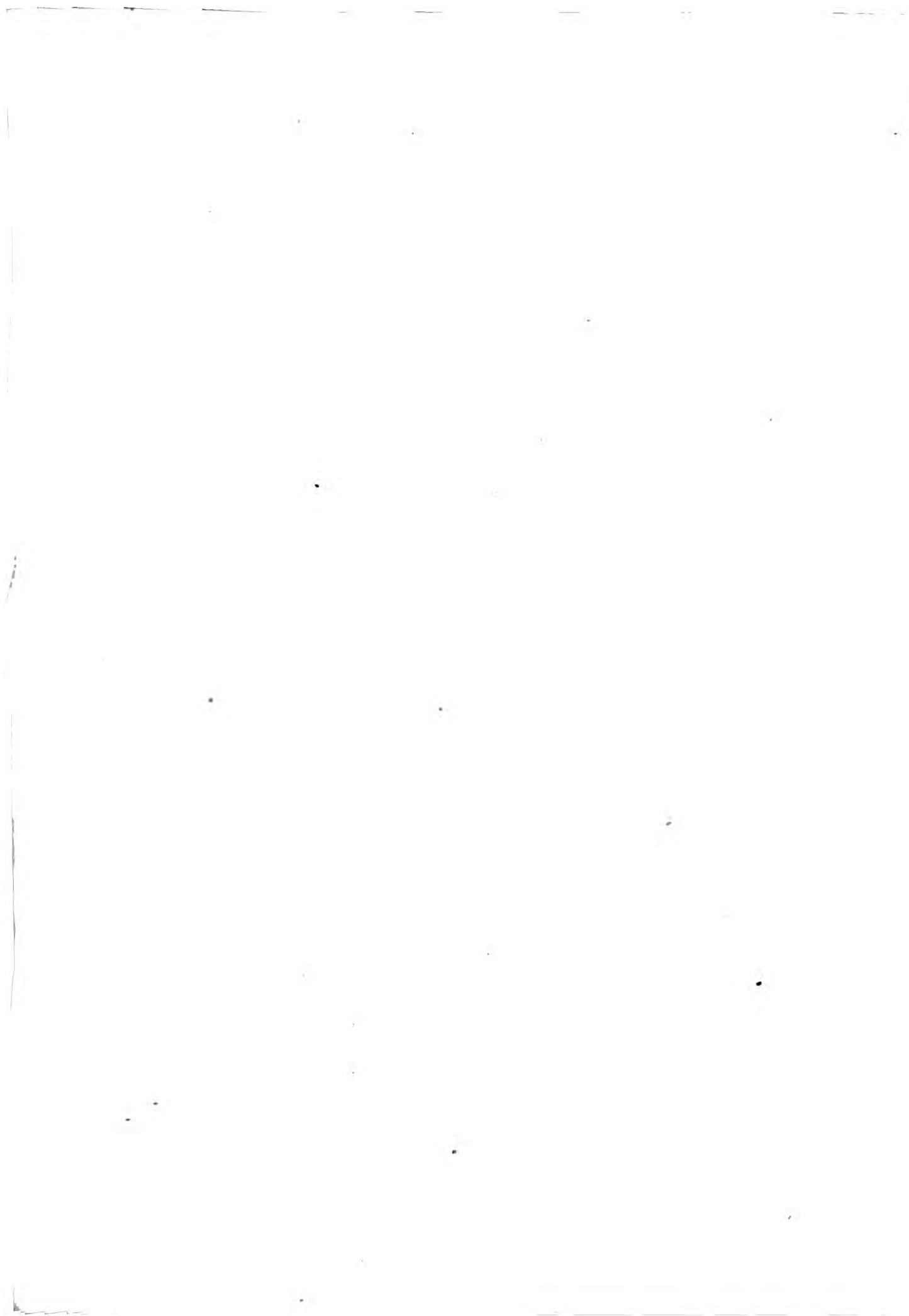


PLATE CCCXXVII.

XERANTHEMUM ARGENTEUM.

Silvery Everlasting-Flower.

CLASS XIX. ORDER II.

SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous Pointals.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|--|--|
| RECEPTACULUM paleaceum. Pappus setaceus. Calyx imbricatus, radiatus; radio colorato. | | RECEPTACLE chaffy. Feather brittle. Cup tiled, rayed; ray coloured. See XERANTHEMUM SPECIOCISSIMUM, V.I. PL. LI. |
|---|--|--|

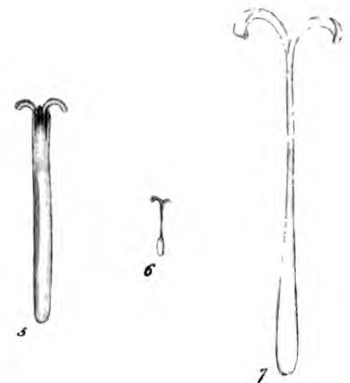
SPECIFIC CHARACTER.

| | | |
|---|--|--|
| Xeranthemum fruticosum; foliis lanceolatis, carinatis, sericeis; floribus paniculatis, argenteis. | | Everlasting-flower with a shrubby stem; leaves lance-shaped, keeled, and silky; flowers grow in panicles, and silvery. |
|---|--|--|

REFERENCE TO THE PLATE.

1. An hermaphrodite Floret, natural size.
2. The same, magnified.
3. An inner scale of the Empalement.
4. The Receptacle, cleared of the scales and florets.
5. A female Floret, magnified.
6. The Pointal of the above, natural size.
7. The same magnified.

THIS new species of Everlasting-flower was introduced to us, at the same time, with the *X. spirale* of this work, Pl. CCLXII. by Montague Burgoyne, Esq. of Mark Hall, Essex, in the year 1801. It is a quick growing plant, and has flowered for the first time last April, when our drawing was taken. The flower stems grow to the length of eighteen inches, or more; and the buds, upon their first appearance, have a fine tint of flesh colour, which, however, totally disappears upon the expansion of the flower. It is propagated by cuttings, seeds, (which ripen in this country,) or by parting the branches at the root, as it makes many from one base, which are easily separated by passing a knife between them. It thrives best in sandy peat with a small portion of loam, and must be kept in an airy, dry part of the greenhouse.



Leranthemum argenteum

Leranthemum argenteum
by the Hon. & Right Hon. the Lords of the Privy Council

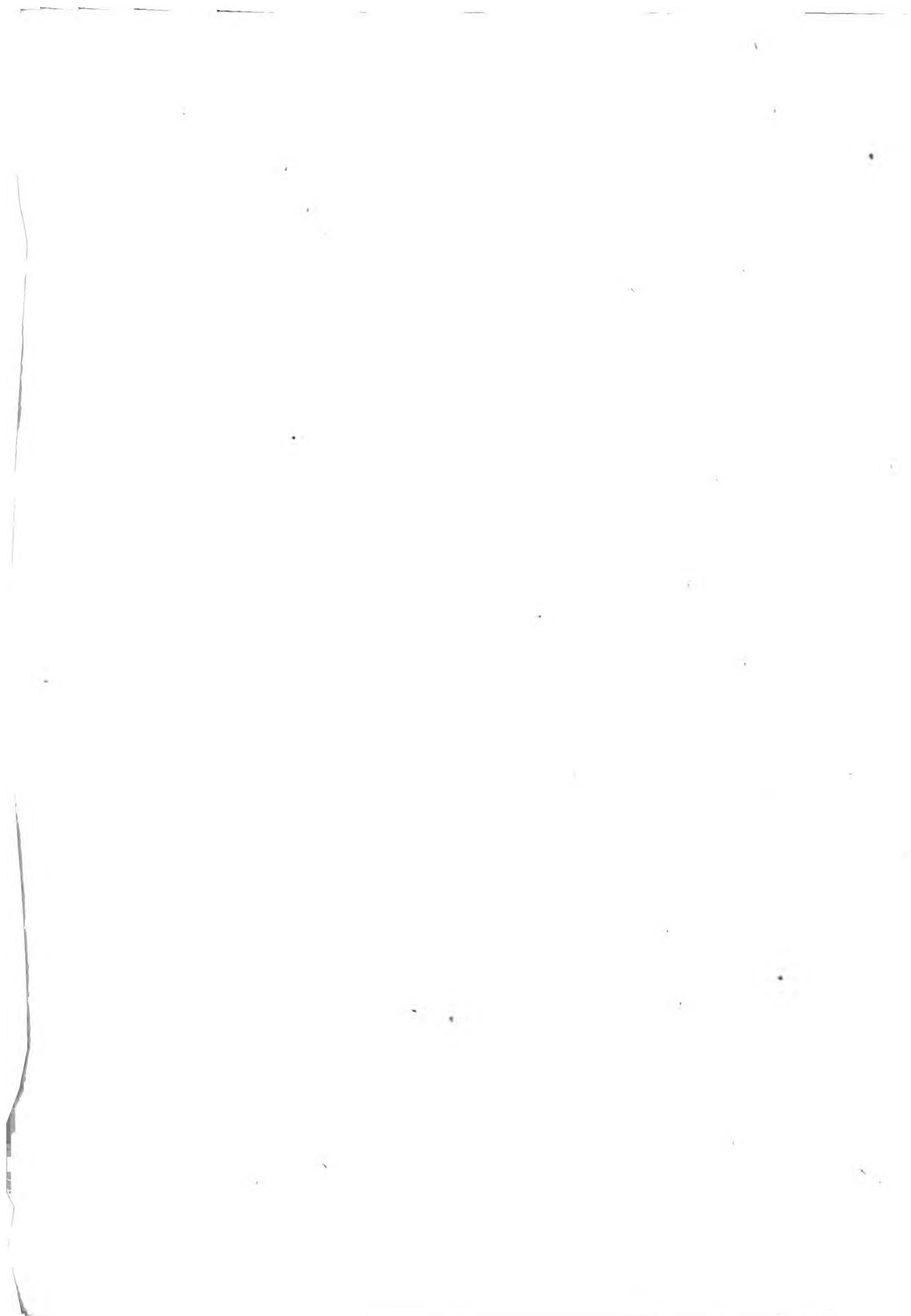


PLATE CCCXXVIII.

GERANIUM BUBONIFOLIUM.

Macedonian-Parsley-leaved Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus rotatus, pentacoccus. || **ONE POINTAL.** Five Summits. Fruit furnished with long awns, five dry berries.

SPECIFIC CHARACTER.

Geranium foliis pinnatis, pinnis oppositis, lobatis, distantibus, lobis inciso-dentatis, glabris; petalis emarginatis, albis; staminibus quinque fertilibus; radice tuberosa. || **Geranium with winged leaves, wings opposite, lobed, distant, lobes deep cut and toothed, smooth; petals notched at the end, white, five fertile chives; root tuberous.**

REFERENCE TO THE PLATE.

1. The Cup cut and spread open.
2. The Chives and Pointal.
3. The Chives cut and spread open, magnified.
4. The Pointal, magnified.

THIS Geranium, from the Cape of Good Hope, is quite distinct in its habit, from most of the tuberous species; the leaflets or wings of the leaves being more hand-shaped, and at a greater distance from each other, than in any which has come under our observation; having much the appearance of those of the plant from which we have derived its specific title. The plant was introduced by Mr. Niven, to the Clapham Collection, in 1800; where our drawing was taken in the month of June, 1802. The cultivation as usual, for the plants of this branch of the Geranium family.



Geranium tubonifolium

1917

1917

1917

1917

1917

1917

1917

1917

1917

1917

1917

1917

1917

1917

1917

PLATE CCCXXIX.

PHARNACEUM LINEARE. *Var. flo. albo.*

Linear-leaved Pharnaceum. White Var.

CLASS V. ORDER III.

PENTANDRIA TRIGYNIA. Five Chives. Three Pointals.

ESSENTIAL GENERIC CHARACTER.

CALYX 5-phyllus. Corolla nulla.
CAPSULA 3-ocularis, polysperma.

CUP 5-leaved. Blossom none.
CAPSULE 3-celled, many-seeded.
See PHARNACEUM LINEARE. Pl. CCCXXVI. V. V.

SPECIFIC CHARACTER.

Pharnaceum foliis linearibus, verticillatis; umbellis inequalibus; calycibus albo-virentibus; caule decumbente.

Pharnaceum with linear leaves, growing in whorls; umbels unequal; cups whitish green; stem bending downwards.

REFERENCE TO THE PLATE.

1. A Flower.
2. The Cup and Chives.
3. The Seed-bud and Pointals, natural size.
4. The same, magnified.
- 5 The Seed-bud, cut transversely, magnified.

WE have given this variety of the linear-leaved Pharnaceum, at the same time with the orange-coloured, as being the only two Cape species, at present, in our gardens. It is equally tender and delicate with its fellow, is equally difficult to propagate; and was introduced, this last time, to the Hibbertian Collection in 1800, by Mr. Niven, with it.



Pharnaceum lineare Var. *flore albo*

Pub. at the Mac Farlane Co
by H. Andrews & Co. Glasgow

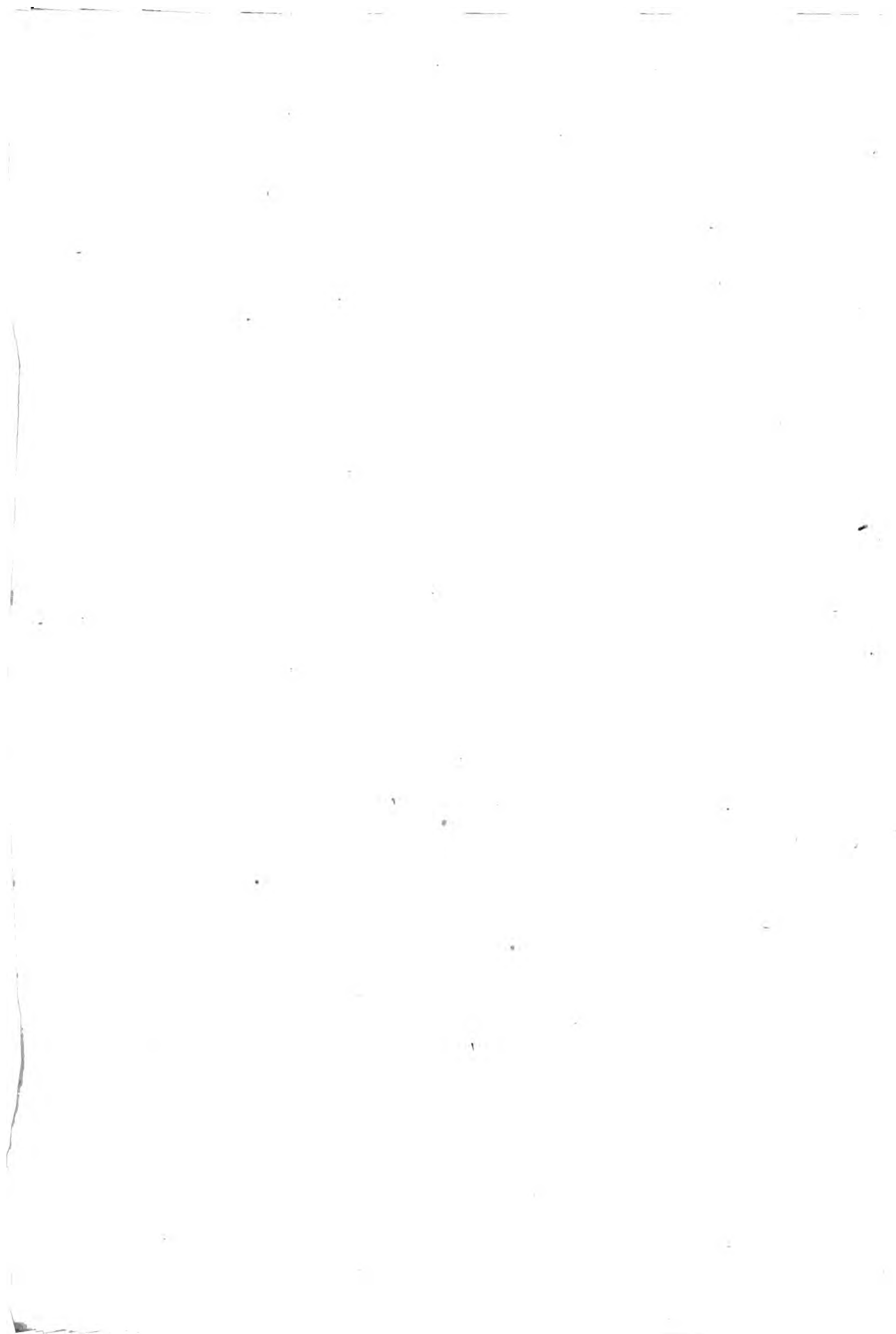


PLATE CCCXXX.

NYPHÆA STELLATA.

Starr'd Water-Lily.

CLASS XIII. ORDER I.

POLYANDRIA MONOGYNIA. Many Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX 4, 5, seu 6-phyllus. Cor. polypetala.
Bacca multilocularis, truncata.

CUP 4, 5 or 6-leaved. Bloff. many petals. Berry
many-celled, appearing cut off at top.
See NYPHÆA CÆRULEA, Pl. CXCVII. Vol. III.

SPECIFIC CHARACTER.

*Nymphæa foliis subrotundis, sinuatis, subtus
purpurascens; lobis divaricatis, acutis;
calyce tetraphyllo, petalis acutis cœruleis
longiore.*

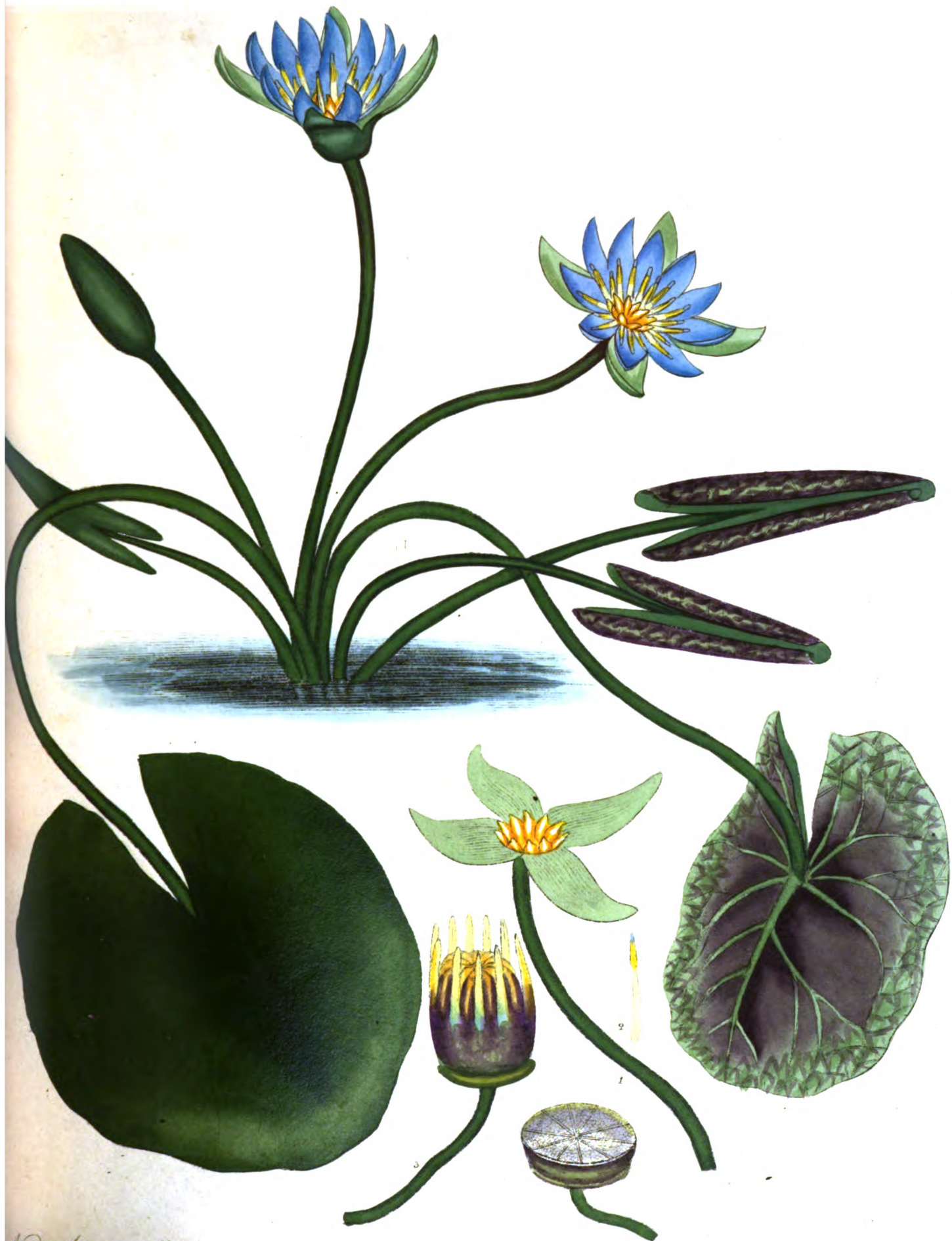
Water-lily with nearly round leaves, scolloped
and purplish underneath; lobes straddling
and pointed; cup four-leaved, longer than
the pointed, blue petals.

REFERENCE TO THE PLATE.

1. The Cup divested of the petals.
2. A Chive, natural size.
3. The seed-vessel, nearly arrived to maturity.
4. The same, cut transversely.

THIS fine species of Water-lily is a native of the East Indies, on the Malabar coast; and has been given by Rheed, in his Hortus Malabaricus, Vol. II. p. 53. fig. 27. At first sight, it has much the appearance of *N. cœrulea*, but upon closer inspection it is found to possess many strongly differing characters, viz. In this, the under part of the leaves are purplish, the lobes straddle; in that, they are tiled, or lay upon each other; in *N. stellata* the petals or chives seldom exceed ten; whereas, the *N. cœrulea* has an indefinite number of both. The roots, likewise, are perfectly distinct; in *N. cœrulea* the diverging roots proceed from the lower part of the bulb, from whence the leaves issue, but in *N. stellata* from the top, leaving below them a smooth top-shaped bulb. The parts which compose the summit, or rather the summits, (for indeed we should consider them, if it lay with us, as distinct pointals,) are expanded horizontally when the flower is in its perfect state, forming a star like appearance, whence its specific name. It is much tenderer than *N. cœrulea*, and will not flower but in strong heat. Mr. Anderson informs us that the plants which have produced perfect seeds, this year, were from seeds, received by A. B. Lambert, Esq. (communicated by Dr. Roxburgh from India) in the month of March, and raised by him for the collection of J. Vere, Esq. Kenfington Gore, where our drawing was made in August.





Nymphaea stellata



PLATE CCCXXXI.
XYLOPHYLLA FALCATA.
Cymitar-shaped-leaved Xylophylla.

CLASS XXI. ORDER III.

MONÆCIA TRIANDRIA. Chives and Pointals separate. Three Chives.

GENERIC CHARACTER.

* *Masculi flores.*

CALYX. Perianthium monophyllum, tripartitum, coloratum; laciniis ovatis, patulis, ovatis.

COROLLA. Petala tria, ovata, concava.

STAMINA. Filamenta tria, brevissima, basi approximata. Antheræ subrotundæ, didymæ.

* *Feminei flores* in eodem fasciculo cum masculis.

CALYX. Perianthium ut in mare.

COROLLA ut in mare.
Nectarium corpusculis glandulosis germen ambientibus.

PISTILLUM. Germen subrotundum, trifidum. Styli tres, patuli, bifidi. Stigmata obtusa.

PERICARPIUM. Capsula trigona, trifida, trilobularis; loculis bivalvibus.

SEMINA solitaria.

* *Male flowers.*

EMPALEMENT. Cup one leaf, three divided, coloured; segments egg-shaped, spreading, oval.

BLOSSOM. Petals three, egg-shaped, concave.

CHIVES. Threads three, very short, and approaching at the base. Tips roundish, double.

* *Female flowers* in the same tuft with the males.

EMPALEMENT. Cup as in the male.

BLOSSOM as in the male.
Honey-cup is formed of small glandular bodies surrounding the seed-bud.

POINTAL. Seed-bud roundish, three-furrowed. Shafts three, short. Summits blunt.

SEED-VESSEL. Capsule three-sided, three-furrowed, three cells; cells two-valved.

SEEDS solitary.

SPECIFIC CHARACTER.

Xylophylla foliis sparsis, integris, falcatis, crenatis; crenis remotis, floriferis; floribus rubris.

Xylophylla with leaves scattered on the stem, entire, cymitar-shaped and scolloped; the scollops distant, and having the flowers on them; flowers red.

REFERENCE TO THE PLATE.

1. A male flower, magnified.
2. The blossom of male flowers, spread open, with the honey-cups.
3. A Female flower, magnified.
4. The Germ from a female flower, cut transversely, magnified.

It should seem that this Genus has not been observed with sufficient accuracy, at least those plants known to us, and which have been treated of as belonging to the class Pentandria. The present one, for instance, which is unquestionably the plant designed by Swartz, Commelin, Seba, &c. and is acknowledged by Swartz to be triandrous and monœcious, yet that it should be continued in the Kew Catalogue and by Willdenow, &c. to Pentandria, is astonishing. We have no hesitation in declaring our opinion that the whole genus as it now stands ought to be thrown to Phyllanthus. But, as the title *Xylophylla* is so well known for these plants; we have thought it more safe to give the Genus those characters the plants bear under their true Class and Order, than make any alteration in it. The *Xylophylla falcata* is a native of the West India Islands, and has been long cultivated in our hot-houses; so long ago as the year 1739. It is a tender plant, and will not flower without the assistance of the bark-bed; is easily propagated by cuttings; grows best in sandy peat, and flowers in August. Our drawing was made at the Hammersmith Nursery.



Xylophylla falcata

Pub. by the Art. Direct. London
by H. Andrews & Knapton

PLATE CCCXXXII.

PROTEA ANEMONIFOLIA.

Anemony-leaved Protea.

CLASS IV. ORDER I.

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 4-fida feu 4 petala. Antheræ lineares, infertæ petalis infra apicem. Calyx proprius nullus. Semina folitaria.

BLOSSOM 4-cleft or 4 petals. Tips linear, inferted into the petals below the point. Em-palement proper, none. Seeds solitary.
See PROTEA FORMOSA, Pl. XVII. Vol. I.

SPECIFIC CHARACTER.

Protea foliis pinnatis, pinnis planis, cuneiformibus, sub apice inciso-dentatis; capitalis terminalibus; squamis calycinis lanceolatis, glabris; floribus luteis.

Protea with winged leaves, wings flat, wedge-shaped, deeply toothed at the point; flower heads terminal; scales of the cup lance-shaped, smooth; flowers yellow.

REFERENCE TO THE PLATE.

1. Flower complete, with its Seed-bud attached.
2. One of the petals of the flower, magnified.
3. Seed-bud, Shaft and Summit, the Summit detached and magnified.

THE *Protea Anemonifolia* is one of the only three species of the Genus, we have, yet, received from New Holland. It was introduced to us, from thence, in the year 1792, by Messrs. Lee and Kennedy, Hammerfnith; is a hardy green-house plant; grows to the height of three, or four feet; may be propagated by cuttings, and flowers in August. It thrives best in a mixture of light sandy loam, and peat earth, of each an equal quantity.



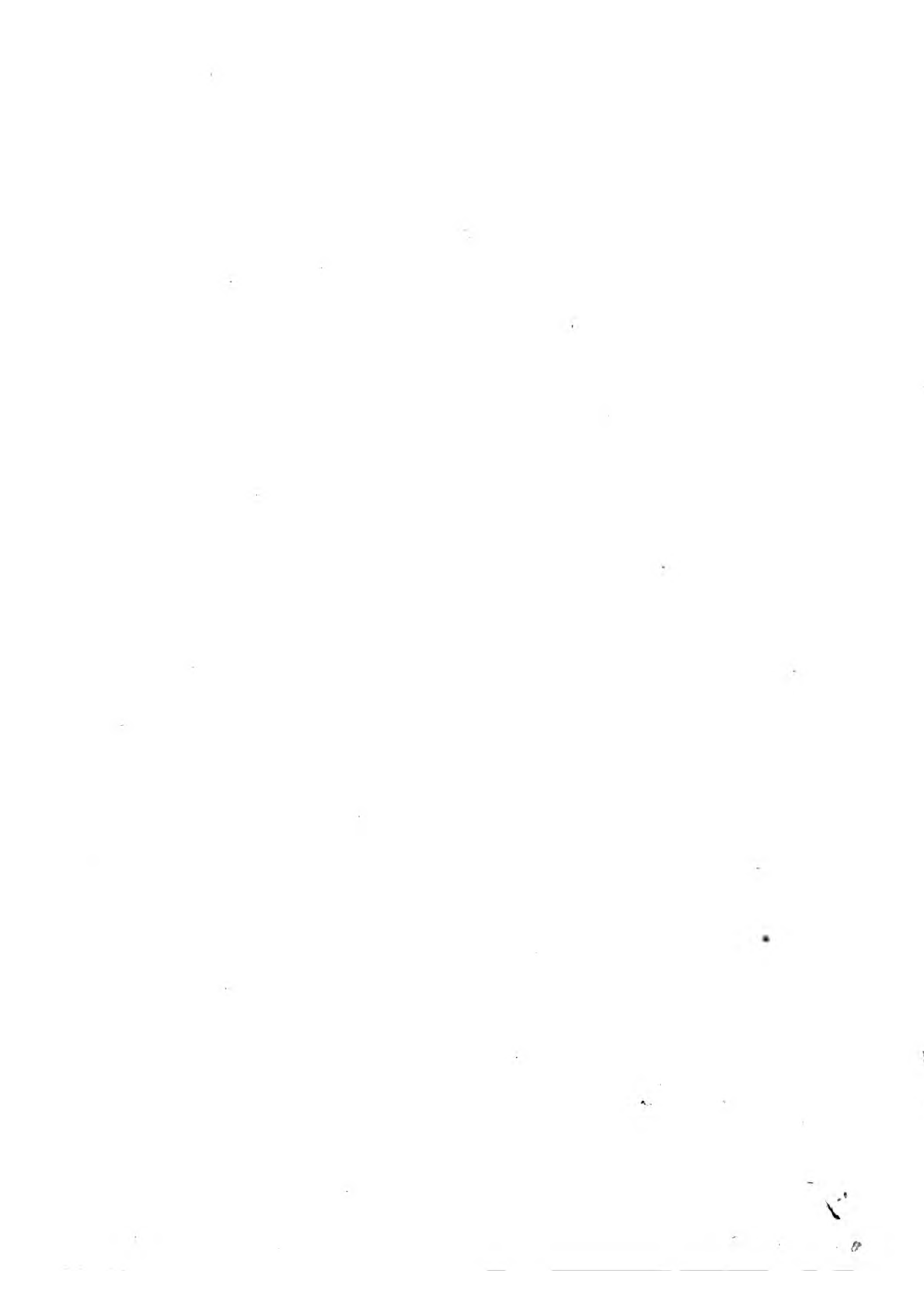


PLATE CCCXXXIII.
SAGITTARIA LANCIFOLIA.
Lance-leaved Arrowhead.

CLASS XXI. ORDER VII.

MONÆCIA POLYANDRIA. Chives and Pointals separate. Many Chives.

GENERIC CHARACTER.

* *Masculi flores plures.*

CALYX. Perianthium triphyllum; foliis ovatis, concavis, persistentibus.

COROLLA. Petala tria, subrotunda, obtusa, plana, patientia, calyci triplo majora.

STAMINA. Filamenta plurima (viginti quatuor sæpe), subulata, in capitulum congesta. Antheræ erectæ, longitudine calycis.

* *Feminei flores pauciores, infra masculos.*

CALYX. Perianthium ut in mare.

COROLLA. Petala tria, ut in mare.

PISTILLA. Germina numerosa, compressa, in capitulum congesta, extrorsum gibba, deficientia in stylos brevissimos. Stigmata acuta, persistentia.

PERICARPIMUM nullum. Receptaculum globosum, femina in globum colligens.

SEMINA numerosa, oblonga, compressa, cincta longitudinaliter margine membranaceo, lato, hinc gibbo, utrinque acuminato.

* *Male flowers many.*

EMPALEMENT. Cup three leaves; leaflets egg-shaped, concave, remaining.

BLOSSOM. Three petals, roundish, blunt, flat, spreading, three times the size of the cup.

CHIVES. Threads many (often twenty-four), awl-shaped, collected into a little head. Tips upright, the length of the cup.

* *Female flowers fewer, beneath the males.*

EMPALEMENT. Cup as in the male.

BLOSSOM. Three petals, as in the male.

POINTALS. Seed-buds numerous, flattened, forming a little head, hunched on the outside, ending in very short shafts. Summits pointed, remaining.

SEED-VESSEL none. Receptacle globular, supporting the seeds in the form of a globe.

SEEDS numerous, oblong, flattened, surrounded lengthways by a broad skinny border, hunched on one side, tapering to each end.

SPECIFIC CHARACTER.

Sagittaria foliis lanceolato-ovatis.

Arrowhead with leaves between lance and egg-shaped.

REFERENCE TO THE PLATE.

1. The whole plant in miniature.
2. A male flower divested of the petals.
3. One of the Chives, magnified.
4. A female flower without its petals.
5. The receptacle with its pointals, cut perpendicularly, magnified.

ALL the species of this Genus of plants are aquatic, or water plants, and differ but little from each other, in their specific characters. Our present subject is a native of the West India Islands, and requires the atmosphere of a hot-house to induce it to flower. The blossoms, on the lower part of the flower-stem, are all females; and those on the upper part, males; they are all exceedingly delicate, as either wind, or wet, destroys them. It increases by offsets from the root; but the seeds do not ripen in this country. It must be kept in a pan or tub half filled with earth, and the other half with water, but does not require to be plunged in the tan-bed.

Our figure was taken from a plant which flowered this year 1803 (and, for the first time in Britain, as we are informed by Mr. Anderson), in the month of July, in the Collection of J. Vere, Esq. Kennington Gore.



Sagittaria lancifolia

Dist. in 1841 by ...
in the ...



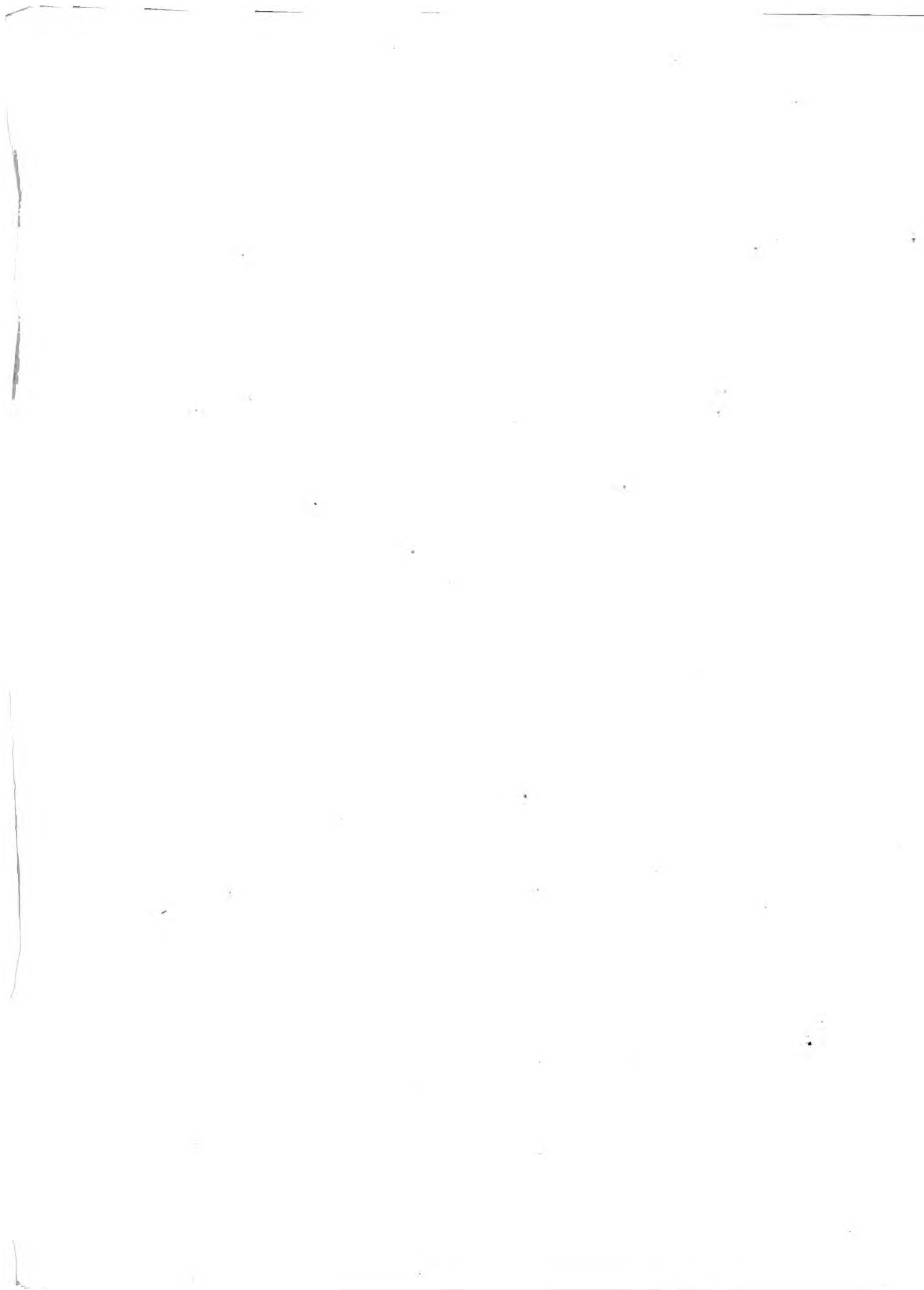


PLATE CCCXXXIV.

STRUTHIOLA TOMENTOSA.

Downy-leaved Struthiola.

CLASS IV. ORDER I.

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

PERIANTHIUM diphylum. Corolla tubulosa, 4-fida. Nectarium glandulæ octo fauci circumpositæ. Semen unum subbaccatum.

CUP two-leaved. Blossom tubular, 4-cleft. Honey-cup 8 glands, placed round the mouth of the blossom. One seed like a berry.
See STRUTHIOLA IMBRICATA, Pl. CXIII. Vol. II.

SPECIFIC CHARACTER.

Struthiola foliis ovatis, concavis, callofis, tomentosis, imbricatis; nectario duodecim partito.

Struthiola with egg-shaped leaves, concave, callos, downy and tiled; honey-cup with twelve divisions.

REFERENCE TO THE PLATE.

1. The two leaves of the Empalement, magnified.
2. A Flower complete, magnified.
3. A Blossom cut open, to shew the situation of the chives, magnified.
4. A Seed-bud, with the Shaft and Summit, a little magnified.

THE Clapham Collection is the only one in which this curious species of *Struthiola* is, at present, to be seen. It was sent by Mr. Niven, from the Cape, in 1799, and flowered, for the first time, last year 1802, in the month of August, when our drawing was made. It is a tender Green-house plant, as are most of this natural order, from that country; being susceptible of too great moisture, either when exposed to the open air during heavy rains in summer, or from over watering in winter. Wherefore they are best preserved by sheltering them in an airy situation during summer, and giving them but little water in winter. It is increased by cuttings, taken off in the month of May, planted in a pot, filled to the margin with sandy loam, and plunged under a hand-glass, in a shady border, without watering the loam. It grows most flourishing in a mixture of sandy peat and loam; the peat about one third part.



Arctostaphylos tomentosa

2

3



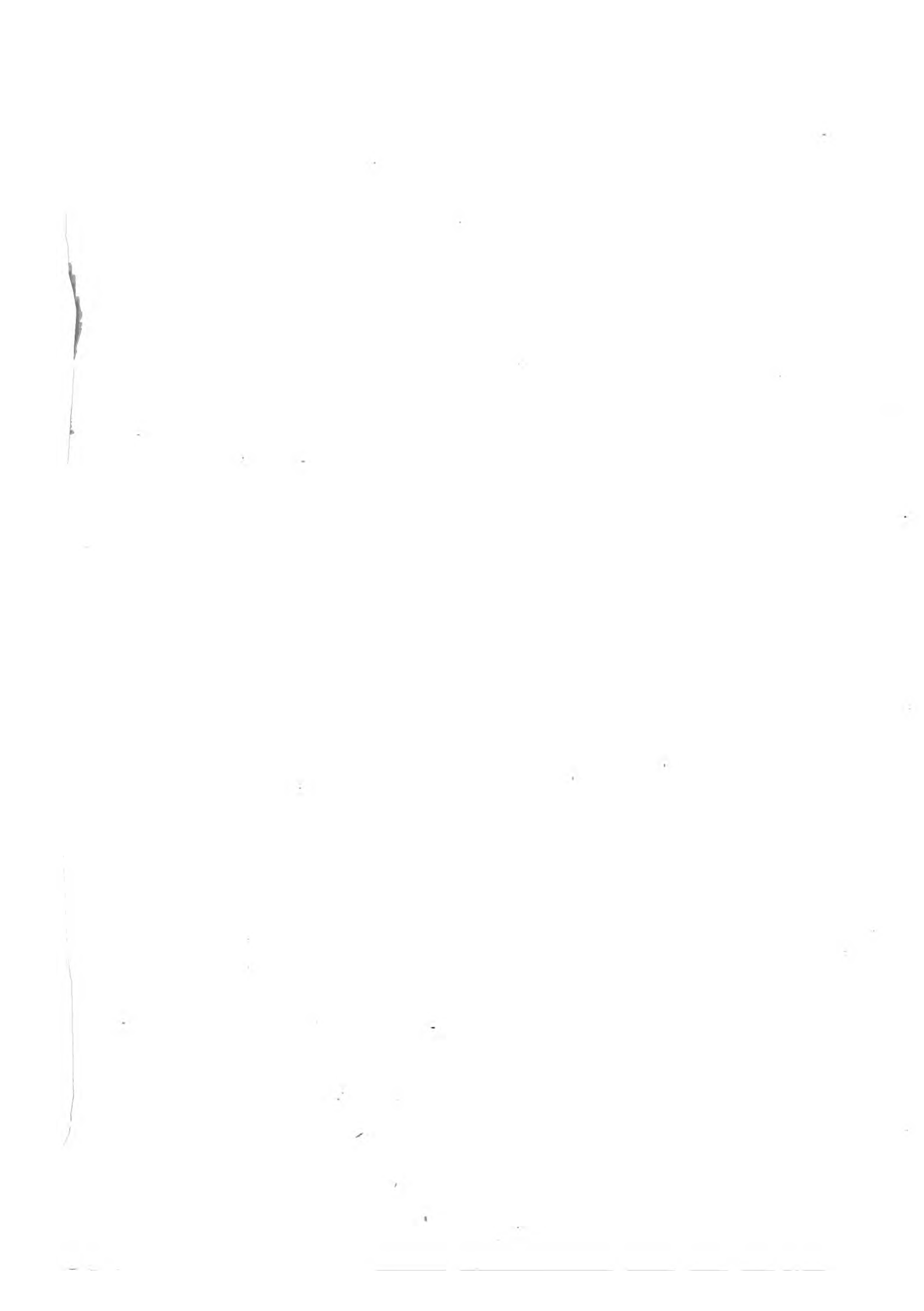


PLATE CCCXXXV.

GLADIOLUS PYRAMIDATUS.

Pyramidal-spiked Gladiolus.

CLASS III. ORDER I.

TRIANDRIA MONOGYNIA. Three Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA fexpartita, ringens. Stamina adscendentia.

BLOSSOM six-divided, gaping. Chives ascending.

See GLADIOLUS ROSEUS, Pl. XI. Vol. I.

SPECIFIC CHARACTER.

Gladiolus foliis ensiformibus, utrinque attenuatis, glabris; spathis præmorsis; spicis pyramidatis; floribus imbricatis, subrigentibus.

Gladiolus with sword-shaped leaves, tapered to both ends, and smooth; sheaths appear bitten at the ends; spikes pyramid-shaped; flowers tiled, a little gaping.

REFERENCE TO THE PLATE.

1. Part of a leaf.
2. The two Valves of the Sheath.
3. A Blossom cut open, to shew the insertion of the Chives.
4. The Seed-bud, Shaft and Summits.

THIS fine Gladiolus from the Cape of Good Hope, we believe, has not flowered, or is to be found, in any other collection than that of the Dowager Lady De Clifford, Paddington; where our drawing was taken in August, this year, 1803. It grows to the height of three feet; and the flowers continue to blow, from four to six at a time in succession, from the base of the spike. It is a hardy bulb, and has every appearance of being a free blower.



Gladiolus pyramidatus.

Painted by the Hon. Edward...
by H. Andrews & Thengström

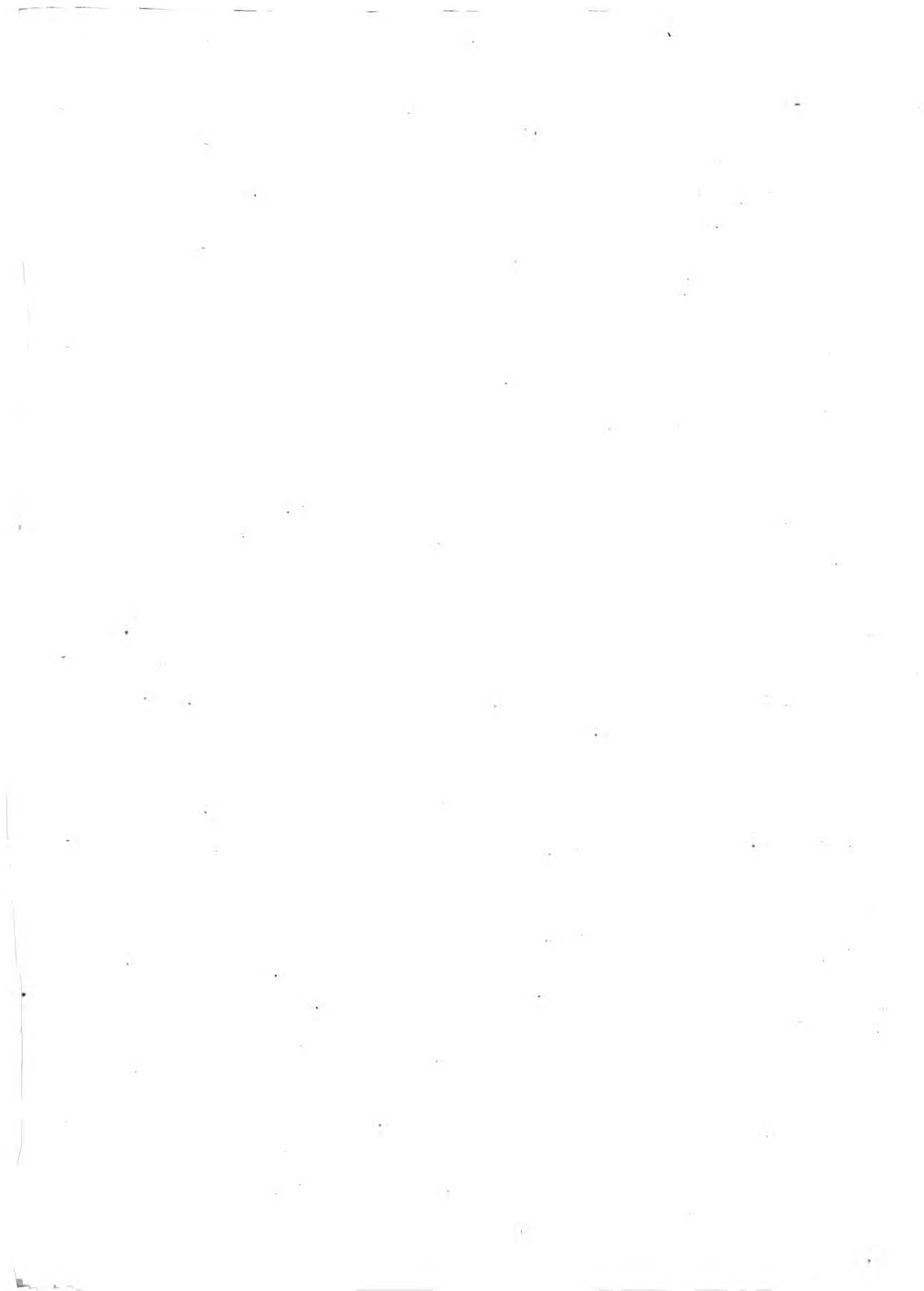


PLATE CCCXXXVI.
A N C H U S A C A P E N S I S.
Cape Alkanet.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium quinquepartitum oblongum, teres, acutum, persistens.
COROLLA monopetala, infundibuliformis: tubus cylindricus, longitudine calycis; limbus semiquinquefidus, obtusus, erecto-patens; faux clausa squamulis quinque, convexis, prominentibus, oblongis, conniventibus.
STAMINA. Filamenta quinque, brevissima, in fauce corollæ. Antheræ oblongæ, incumbentes, tectæ.
PISTILLUM. Germina quatuor. Stylus filiformis, longitudine staminum. Stigma obtusum, emarginatum.
PERICARPIUM nullum; Calyx major, erectus, in sinu continens femina.
SEMINA quatuor, oblongiuscula, obtusa, gibba.

EMPALEMENT. Cup five-parted, oblong, cylindrical, pointed, remaining.
BLOSSOM one petal, funnel-shape; tube cylindrical, the length of the cup; border half-five-cleft, obtuse, from erect spreading; throat closed with five small scales, convex, prominent, oblong, converging.
CHIVES. Five very short threads in the throat of the blossom. Tips oblong, incumbent, covered.
POINTALS. Seed-buds four. Shaft thread-shaped, the length of the chives. Summit blunt, notched at the end.
SEED-VESSEL none; the Cup larger and erect, containing the seeds in its bosom.
SEEDS four, somewhat oblong, blunt, hunched.

SPECIFIC CHARACTER.

Anchusa foliis lanceolatis, villosis, callofis; floribus racemoso-paniculatis, cœruleis.

Alkanet with lance-shaped leaves, hairy, and callous; flowers grow in bunches nearly panicked, blue.

REFERENCE TO THE PLATE.

1. The Empalement, natural size.
2. The same, magnified.
3. The Seed-buds and pointal, natural size.
4. The same magnified.
5. A Blossom cut open, magnified, to shew the scales upon the mouth, with the situation of the chives.

THIS is the only species of the Genus we have yet seen from the Cape of Good Hope; and, as it appears that Thunberg discovered but this solitary instance, which he has given in his *Prodromus Plantarum Capensium*, under the specific title we have here adopted, from him; he, perhaps, thought himself warranted in so naming it; although naming plants from the country where they are first found requires but little reasoning to shew its impropriety. It is a hardy green-house plant, but from all appearance, like the most of this natural order, rather short-lived. It grows freely in a mixture of loam and sandy peat; and there is every appearance that the seeds will ripen, the only method by which there is any likelihood of its being perpetuated.

The plant, before flowering, does not grow above six inches high; but the flower-stem rises near eighteen inches. Our figure was taken from a plant in the Hibbertian Collection; where it flowered for the first time in England in the month of July 1803; having been sent home, by Mr. Niven, from the Cape, in 1800.



Anchusa capensis



PLATE CCCXXXVII.
PROTEA TRITERNATA.
Cluster-headed Protea.

CLASS IV. ORDER I.
TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA quadrifida seu quadripetala. An-
 theræ lineares, insertæ petalis infra apicem.
 Calyx proprius nullus.
 SEMINA solitaria.

BLOSSOM four-cleft or four petals. Tips linear,
 inserted into the petals below the point.
 Empalement proper, none.
 SEEDS solitary.
 See *PROTEA FORMOSA*, Pl. XVII. Vol. I.

SPECIFIC CHARACTER.

Protea foliis bipinnatis, brevibus, filiformibus,
 confertis, glabris; floribus terminalibus,
 umbellatis; pedunculis bracteis, capitulis
 longioribus; squamis calycinis subulatis,
 hirtis.

Protea with doubly winged leaves, short, thread-
 shaped, crowded and smooth; flowers ter-
 minate the branches in umbels; fruit-stalks
 with floral leaves, and longer than the small
 heads; scales of the cup awl-shaped and
 hairy.

REFERENCE TO THE PLATE.

1. A Leaf.
2. A Flower.
3. One of the Petals of the flower, magnified.
4. The Seedbud, Shaft and Summit, the Summit detached, magnified.
5. The common Cup of one of the small heads of flowers.

THIS beautiful divided leaved *Protea* has been named, as above, by Thunberg, in his *Dissertatio de Protea*, n. 7, and in his *Prodromus plantarum capensium* 25. It is rather a delicate plant, and subject to lose the lower leaves from the stem, which takes something from the beauty of its habit. The young leaves, when they first appear, have a downy character, which disappears as they grow firm. The stem has likewise, in its young state, a tendency to downiness, which is not discovered on the old wood; and is, where the leaves are extant, quite covered by them. It grows to the height of three feet, is propagated by cuttings, and flowers in the month of July. Our figure was taken from a plant in the Hibbertian Collection, which was raised from Cape seeds in 1800, sent from thence by Mr. Niven.



Protea triternata



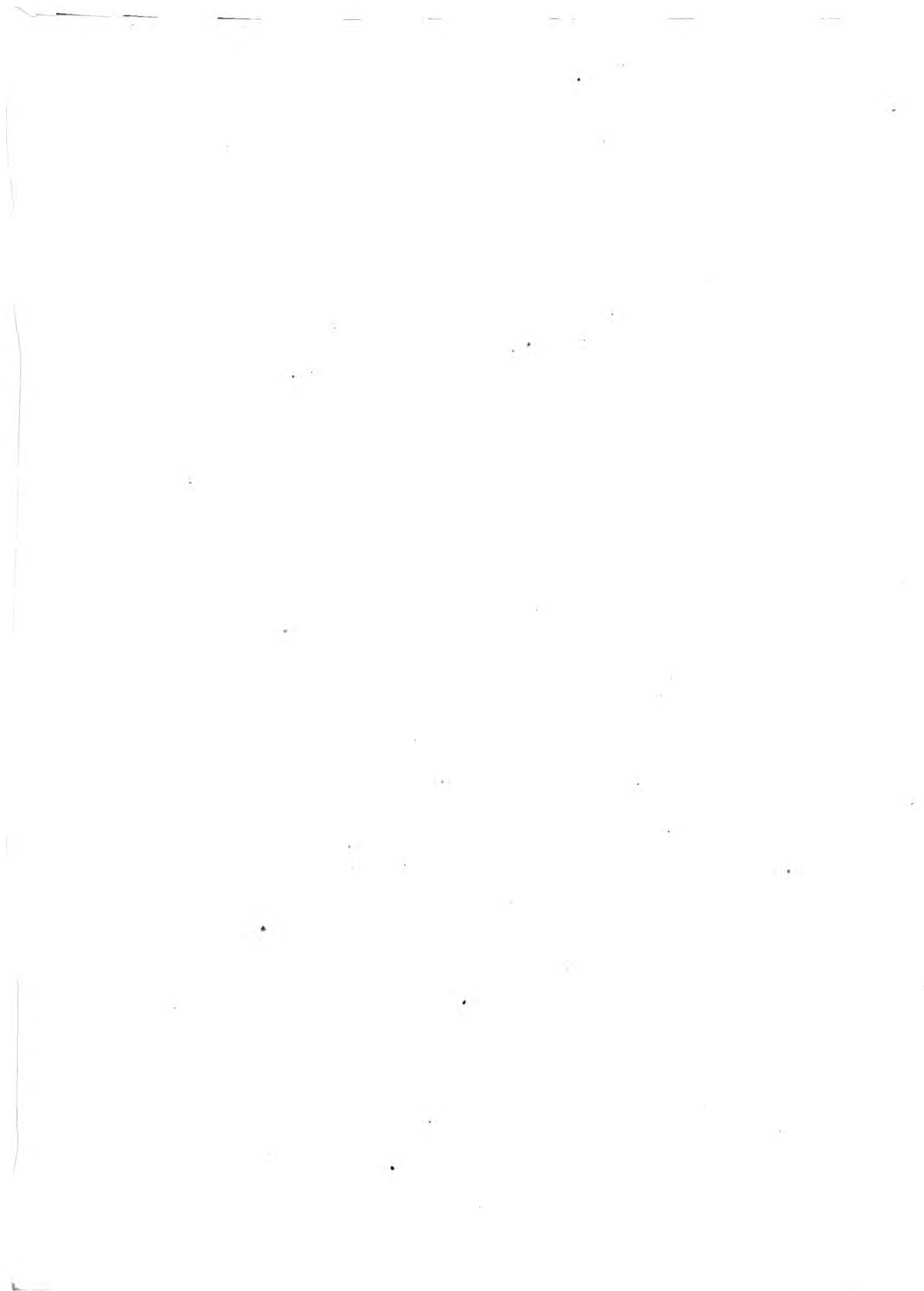


PLATE CCCXXXVIII.

GERANIUM CORONOPIFOLIUM.

Buck's-horn-leaved Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|--|
| MONOGYNA. Stigmata quinque. Fructus rostratus, penta-coccus. | | ONE POINTAL. Five summits. Fruit furnished with long awns, five dry berries. See GERANIUM GRANDIFLORUM, Pl. XII. Vol. I. |
|--|--|--|

SPECIFIC CHARACTER.

| | | |
|--|--|---|
| Geranium foliis subcuneatis, apice inciso-dentatis, canescentibus, petiolis longissimis; pedunculis subtrifloris; corollis pallidè violaceis; caulè suffruticoso; staminibus quinque fertilibus. | | Geranium with nearly wedge-shaped leaves, deeply toothed at the end, whitish and very long foot-stalks; flower stems mostly three-flowered; blossoms pale purple; stem rather woody; five fertile chives. |
|--|--|---|

REFERENCE TO THE PLATE.

1. A Flower and a Bud from a seedling variety of this plant, by an intermixture of the farina of *Geranium tricolor*.
2. The Cup, which is solid and five-leaved.
3. The Chives and Pointal, magnified.
4. The same cut open, magnified.
4. The Seed-bud, Shaft and Summits, magnified.

THE *Geranium coronopifolium* is one of those species we may fairly denominate biennial; for such is certainly the *G. tricolor*, *G. Oenothera*, *G. tomentosum*, &c. and as such must be propagated every year to have a succession of them. It is readily increased by putting the cuttings into small pots, and plunging them in the heat of a hot-bed or hot-house, early in the month of March; which plants will flower in September. It was first introduced to the Kew Gardens by Mr. Masson in 1792. The plant is very delicate, and should be kept in a dry part of the green-house, in a mixture of sandy peat and rich earth. Our figure is from a plant in the Hibbertian Collection; where, likewise, we found the variety of which a flower is given on the plate. Mr. Allen informs us, he procured the Var. by approximating a plant of this species to the *G. tricolor*; first impregnating the summits of the flower of *G. coronopifolium*, with the pollen from the tips of the *G. tricolor*, a method much practised of late for the production of varieties, in many genera.



Ranunculus coronopifolium

Ranunculus coronopifolium
L. Sp. Pl. 1000. t. 100. f. 10. p. 1000.

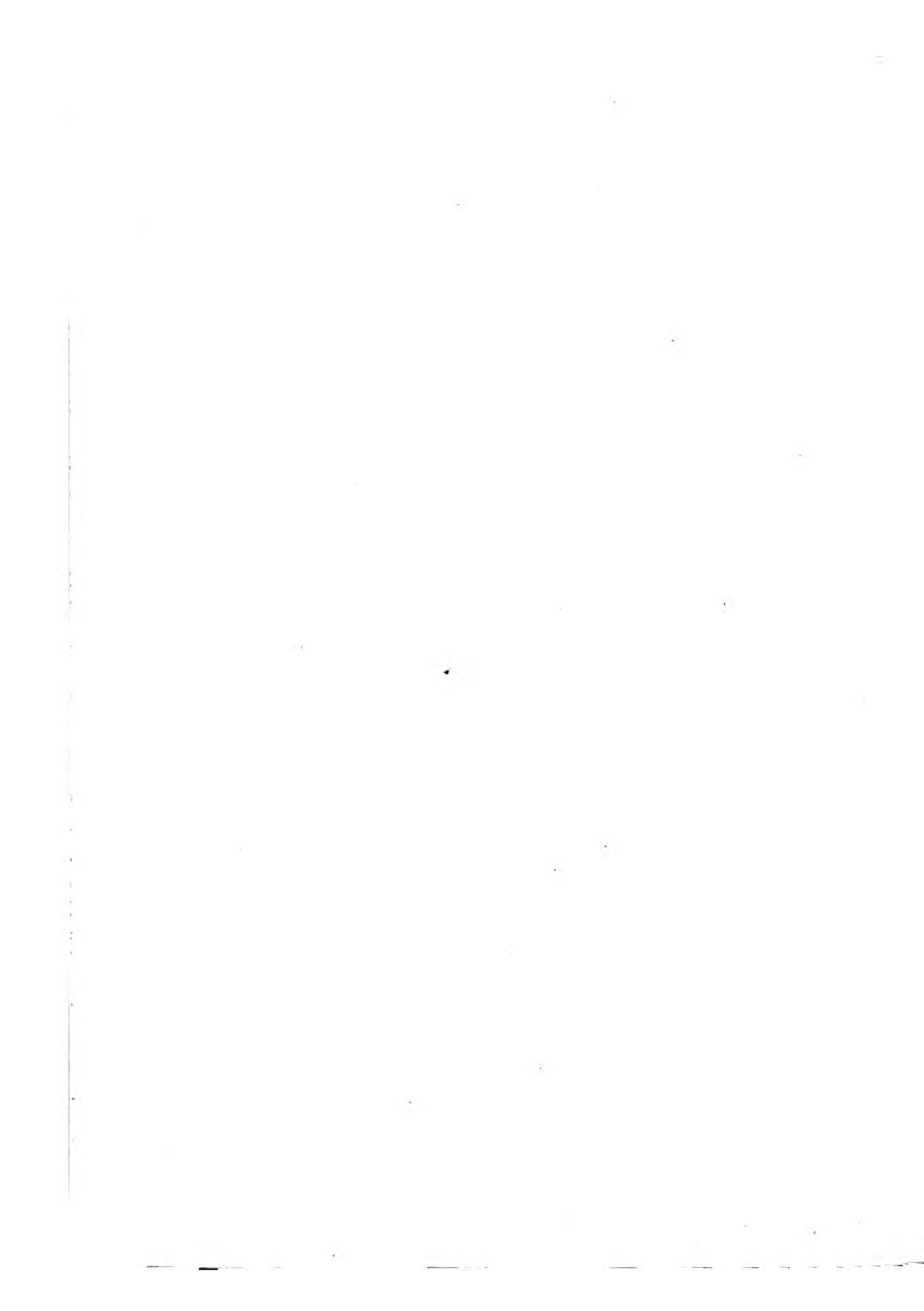


PLATE CCCXXXIX.

LOBELIA CORONOPIFOLIA.

Buck's-horn-leaved Lobelia.

CLASS XIX. ORDER VI.

SYNGENESIA MONOGAMIA. Tips united. Flowers simple.

ESSENTIAL GENERIC CHARACTER.

CALYX 5-fidus. Corolla 1-petala, irregularis. || CUP 5-cleft. Blossom 1-petal, irregular. Cap-
Capsula infera, 2- seu 3-locularis. || fule beneath, 2 or 3-celled.
See LOBELIA PINIFOLIA, Pl. CCLXXIII. Vol. IV.

SPECIFIC CHARACTER.

Lobelia foliis lanceolatis, dentatis, glabris; flo- || Lobelia with lance-shaped leaves, toothed and
ribus solitariis, axillaribus; pedunculis || smooth; flowers solitary, from the base of
elongatis; stigmatibus obtusis, pilosis. || the leaves; foot-stalks lengthened; summits
blunt, hairy.

REFERENCE TO THE PLATE.

1. The Chives magnified.
2. The Cup, Chives, and Pointal, the Summit detached, magnified.

THE character of most of the Lobelias from the Cape, and elsewhere, is, that they are either annual or biennial, and can scarcely be considered as shrubs. Our present subject is a biennial from the Cape of Good Hope, flowers the first year from the seed, if sown in March, and may be preserved a second year; but, as it feeds so abundantly, it is scarce worth the pains to preserve it, as the plants of one year's growth are so much handsomer than those preserved through the winter. It flowers from July till October, and should be kept in sandy peat earth.

The *L. coronopifolia* was introduced to the Kew Collection in 1787, by Mr. F. Maffon, and is now in most collections.



Lobelia coronopifolia



PLATE CCCXL.

LOBELIA GRACILIS.

Slender-stemmed Lobelia.

CLASS XIX. ORDER VI.

SYNGENESIA MONOGAMIA. Tips united. Flowers simple.

ESSENTIAL GENERIC CHARACTER.

CALYX 5-fidus. Corolla monopetala, irregularis.
Capsula infera, 2-veu 3-ocularis.

CUP 5-cleft. Blossom one petal, irregular.
Capsule beneath, 2 or 3-celled.

See LOBELIA PINIFOLIA, Pl. CCLXXIII. Vol. IV.

SPECIFIC CHARACTER.

Lobelia foliis inferioribus ovatis, sinuatis, superioribus lanceolatis, dentatis; petalis duobus minoribus barbatis; floribus spicatis; stigmatibus bifidis.

Lobelia with the lower leaves egg-shaped and scolloped, the upper ones lance-shaped and toothed; the two smaller petals bearded; flowers grow in spikes; summits two-cleft.

REFERENCE TO THE PLATE.

1. A Blossom cut open, with the chives in their place, magnified.
2. The Cup, Seed-bud, Shaft and Summit; the Summit detached and magnified.

THIS most delicate little plant, of which our figure represents the whole, was raised in 1801, from Cape seeds, sent by Mr. Niven from thence, for the Clapham gardens; where our drawing was made this year, 1803, in the month of August. It is an annual plant, producing its seeds freely, as do most species of this genus, which should be sown in the month of March, in light sandy peat, and transplanted about May.



Obelia gracilis



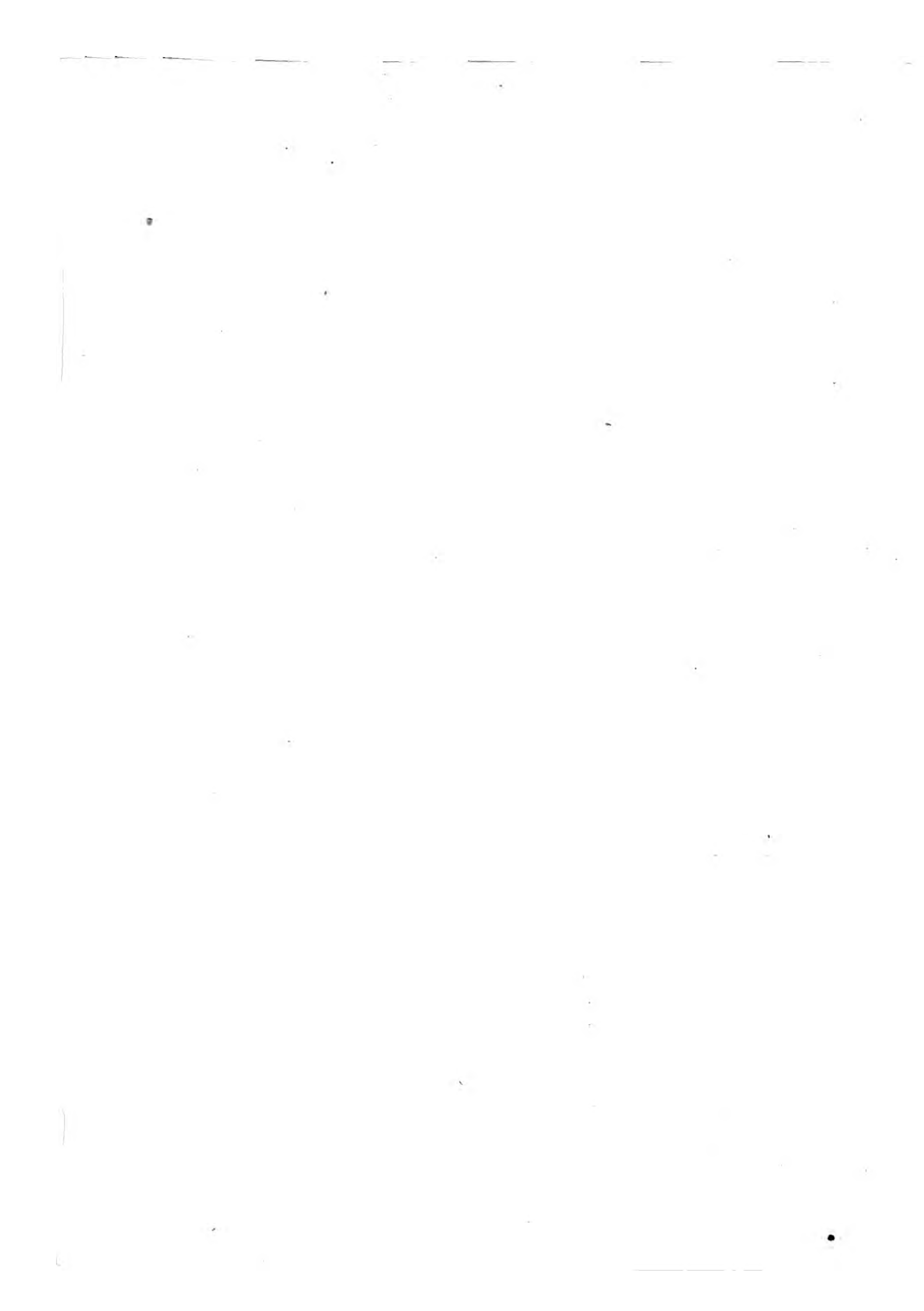


PLATE CCCXLI.
 PHASEOLUS CARACALLA.
Snail-Flower Kidney-Bean.

CLASS XVII. ORDER IV.
 DIADELPHIA DECANDRIA. Chives in two sets. Ten Chives.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, bilabiatum; labio superiori emarginato, inferiore tridentato.
COROLLA papilionacea.
Vexillum, cordatum, obtusum, emarginatum, reclinatum, lateribus reflexis.
Alæ, ovatae, longitudine vexilli, unguibus longis infidentes.
Carina, angusta, spiraliter contra solem revoluta.
STAMINA. Filamenta diadelpa, (simplex et novemfidum) intra carinam, spiralia. Antheræ decem, simplices.
PISTILLUM. Germen oblongum, compressum villosum. Stylus filiformis, spiraliter inflexus, superne pubescens. Stigma obtusum, crassiusculum, villosum.
PERICARPIUM. Legumen longum, rectum, coriaceum, obtusum cum acumine.
SEMINA reniformia, oblonga, compressa.

EMPALEMENT. Cup one leaf, two-lipped, upper lip notched at the end, lower three-toothed.

BLOSSOM butterfly-shaped.

Standard, heart-shaped, blunt, notched at the top, reclined, reflexed at the sides.

Wings, egg-shaped, the length of the Standard, terminating in long claws.

Keel, narrow, twisted spirally contrary to the sun.

CHIVES. Threads in two sets, (simple and nine-cleft,) within the keel, spiral. Tips ten, simple.

POINTAL. Seed-bud oblong, flattened, hairy. Shaft thread-shaped, spirally bent inwards, downy above. Summit blunt, thickish, hairy.

SEED-VESSEL. A long pod, straight, leathery, blunt with a point.

SEEDS kidney-shaped, oblong, flattened.

SPECIFIC CHARACTER.

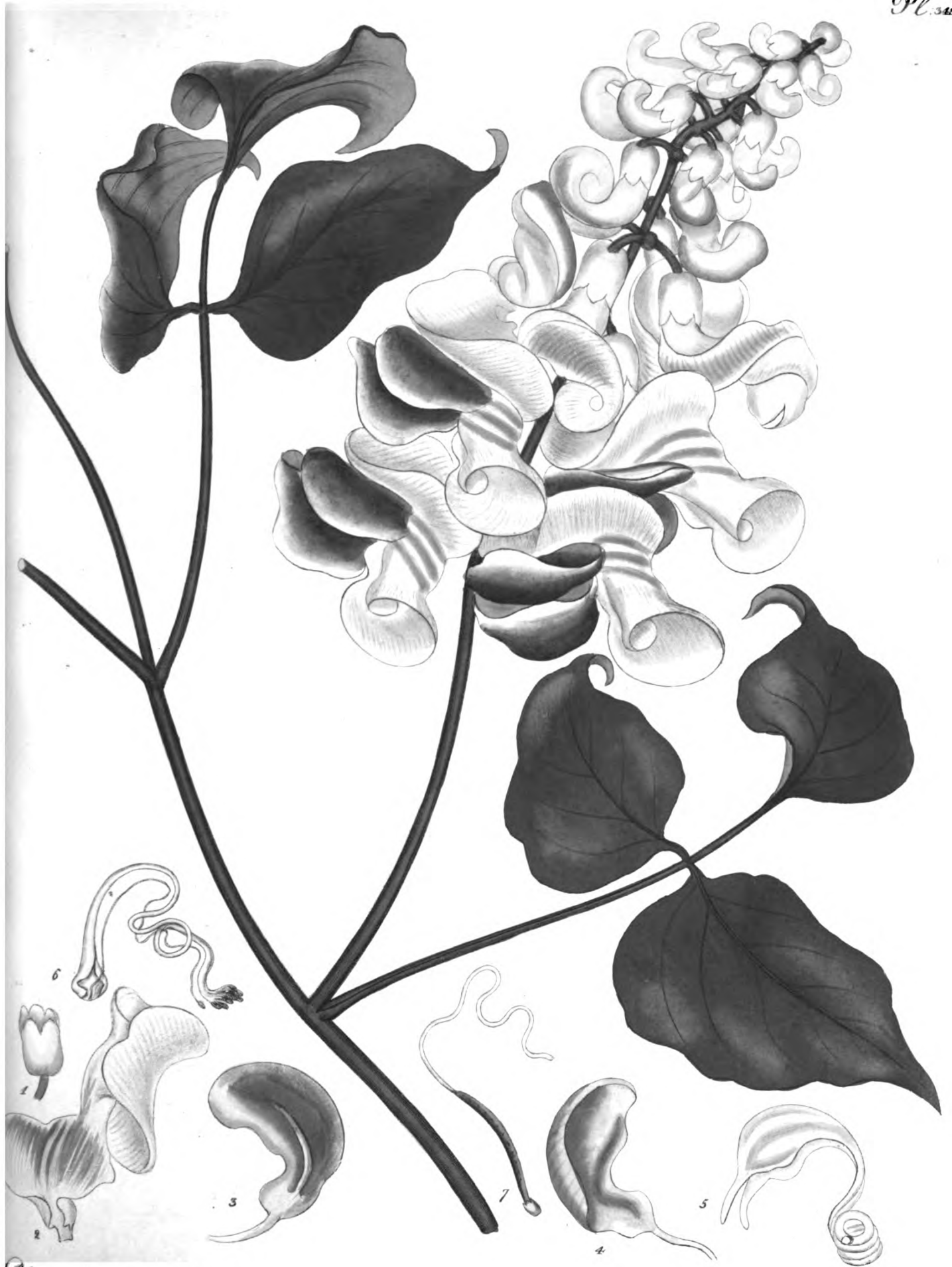
Phaseolus caule volubili; vexillis, carinaque spiraliter convolutis.

Kidney-bean with a twining stem; standards and keel spirally twisted from the left to the right.

REFERENCE TO THE PLATE.

1. The Cup.
2. The Standard.
3. One of the wings, shewn from the outside.
4. One of the wings, shewn from the inside.
5. The Keel.
6. The Chives.
7. The Pointal.

As a singular vegetable production, we have given a specimen of this most curious flower, but not as a novelty, as it is, certainly, rather common, the seeds having frequently been brought to us from Portugal, (to which country it was first introduced from Brazil in South America), ever since the year 1690. It is a climbing plant and must be kept in the hothouse, is propagated by seeds or cuttings, grows to the height of 12 or 14 feet, and should be planted in rich earth. The flowers are produced about August; they are very fragrant, but have not much duration, and the plant has much the resemblance of the common scarlet kidney-bean.



Phasolius Caracalla



PLATE CCCXLII.
COBBEA SCANDENS.
Climbing Cobbea.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, femi-
 quinquefidum; laciniis cordatis, mucro-
 natis, patentibus, persistens.

COROLLA monopetala, campanulata, versus basin
 arcata, quinquefida; laciniis concavis, tri-
 lobis, ciliatis; squamulæ quinque lanatæ,
 ad basin sinus tubi, conniventes.

Nectarium, corpus carnosum, quinquangu-
 lare, decem fulcatum, germen cingens.

STAMINA. Filamenta quinque, squamulis co-
 rollæ orta, declinata. Antheræ incumbentes.

PISTILLUM. Germen ovatum, fulcatum. Stylus
 filiformis, declinatus, staminibus longior.
 Stigmata tria, plana, recurvata.

PERICARPIUM. Capfula oblonga, trilocularis,
 trivalvis.

SEMINA plurima, valvulis affixa, compressa, im-
 bricata.

EMPALEMENT. Cup one-leaf, half five-cleft;
 segments heart-shaped, ending in a point,
 spreading, persistent.

BLOSSOM one-petal, bell shaped, narrowed to-
 wards the base, five-cleft; segments con-
 cave, three-lobed, fringed; five woolly
 scales at the base of the bosom of the tube
 closing upon each other.

Honey-cup, a fleshy body, five-angled, ten-
 furrowed, embracing the seed-bud.

CHIVES. Five threads, arising from the scales
 of the blossom, declined. Tips lying upon
 the threads.

POINTAL. Seed-bud egg-shaped, furrowed.
 Shaft thread-shaped, declined, longer than
 the threads. Summits three, flat, turned
 back.

SEED-VESSEL. Capsule oblong, three cells, three
 valves.

SEEDS many, fixed to the valves, flat, tiled.

SPECIFIC CHARACTER.

Cobbea foliis conjugatis, cirrhosis; floribus soli-
 tariis, pedunculis longissimis; caule scan-
 denti.

Cobbea with conjugate leaves terminating in a
 tendril; flowers solitary, foot-stalks very
 long; stem climbing.

REFERENCE TO THE PLATE.

1. A Blossom cut and spread open, with the Chives in their place.
2. The Empalement, Honey-cup, Seed-bud, Shaft and Summits.

THE specimen, from which our drawing was taken, was communicated by Mrs Long, from the Col-
 lection of the Honourable Charles Long, of Bromley Hill, Kent; where, we believe, the only plant of
 this fine Genus is at present to be found in Britain; and where it has flowered, for the first time, this
 year, in the month of September, 1803. It is a native of the East Indies, and must be kept as a hot-
 house plant; is propagated by cuttings, and thrives in rich earth; will grow, if permitted, to the
 height of twenty feet or more, and is still in flower this present month of November.



PLATE CCCXLIII.
B L A N D F O R D I A C O R D A T A.
Heart-shape-leaved Blandfordia.

CLASS V. ORDER I.
PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

GENERIC CHARACTER.

| | |
|---|---|
| <p>CALYX. Perianthium monophyllum, semiquinquefidum; laciniis concavis, ovatis, obtusis, erectis; persistens.</p> <p>COROLLA. Petala quinque, oblongo-linearia, subtruncata, patentia, calyci inferta. <i>Nectarium</i> urceolatum, membranaceum, germen cingens; limbo quinque-lobo, laciniis clavatis, capitatis.</p> <p>STAMINA. Filamenta nulla. Antheræ quinque, subrotundæ, didymæ; nectarii margini, inter lacinias limbi, affixæ.</p> <p>PISTILLUM. Germen subrotundum. Stylus brevissimus, erectus. Stigma obsoletum.</p> <p>PERICARPIUM. Capsula oblonga, unilocularis, bivalvis.</p> <p>SEMINA plurima, minuta, glabra.</p> | <p>EMPALEMENT. Cup one leaf, half-five-cleft; segments concave, egg-shaped, blunt, upright; remaining.</p> <p>BLOSSOM. Five petals, oblong-linear, appearing rather cut off at the ends, spreading, inserted into the cup. <i>Honey-cup</i> pitcher-shaped, skinny, surrounding the seed-bud; border five-lobed, segments club-shaped, and headed.</p> <p>CHIVES. Threads none. Tips five, roundish, double; fixed, between the segments of the border, upon the margin of the honey-cup.</p> <p>POINTAL. Seed-bud roundish. Shaft very short, upright. Summit obsolete.</p> <p>SEED-VESSEL. Capsule oblong, one cell, two valves.</p> <p>SEEDS many, small, smooth.</p> |
|---|---|

SPECIFIC CHARACTER.

| | |
|---|--|
| <p><i>Blandfordia</i> foliis cordatis, reticulatis, crenatodentatis, floribus spicatis.</p> | <p><i>Blandfordia</i> with leaves heart-shaped, netted, and between scolloped and toothed; flowers grow in spikes.</p> |
|---|--|

REFERENCE TO THE PLATE.

1. The Cup, natural size.
2. The same, magnified.
3. A Petal, magnified.
4. The Honey-cup, with the Chives, magnified.
5. The same, spread open, shewn from the outside.
6. The same, shewn from the inside.
7. The Seed-bud, natural size.
8. The same, magnified.

THE *Blandfordia cordata* was first observed by Mr. J. Frazer, in the year 1766, on the banks of the Savannah river, near its source, in Georgia, North America; but was not introduced to us until the year 1800, when it was brought to England, amongst many other novelties, by that gentleman. It is, as are most of the plants of that country, rather too tender to resist the severity of our winters; and should be protected, either in the green-house, or in the coolest and shadiest part of the hot-house; where, if it is kept the year through, it will flourish, and flower about the month of June. It is increased by parting the roots about April; delights in moisture and shade; thriving most in a light peat soil, with a small mixture of sandy loam. This plant, from its general habit, would at first sight be taken for a species of *Tiarella*, or *Heuchera*, to both which it bears great resemblance, being all, likewise, natives of the same clime; but the strongly differing characters, in the parts of fructification, prevent its being placed to either of those genera. The honey-cup, it is true, might, perhaps, with reason, be considered as the connected threads of ten chives, and what we take to be the segments of its border, set down as so many sterile ones to make up this number. Thus, the plant would be transmuted to the XVI class; but, from our best judgment, we have placed it, as above, in the V.

Our figure is from a specimen communicated by the Right Hon. the Marquis of Blandford, from his magnificent gardens at White Knights, near Reading, Berks. Little need be urged for the propriety of our naming a plant from the Marquis of Blandford; and thus, dedicating this small part of our labours to his lordship; as few, at present, patronize the science, through all its branches, with so much vigour and liberality, or who have equal knowledge in its theory and practice.



Landfordia cordata

Landfordia cordata (L.) ...
...
...



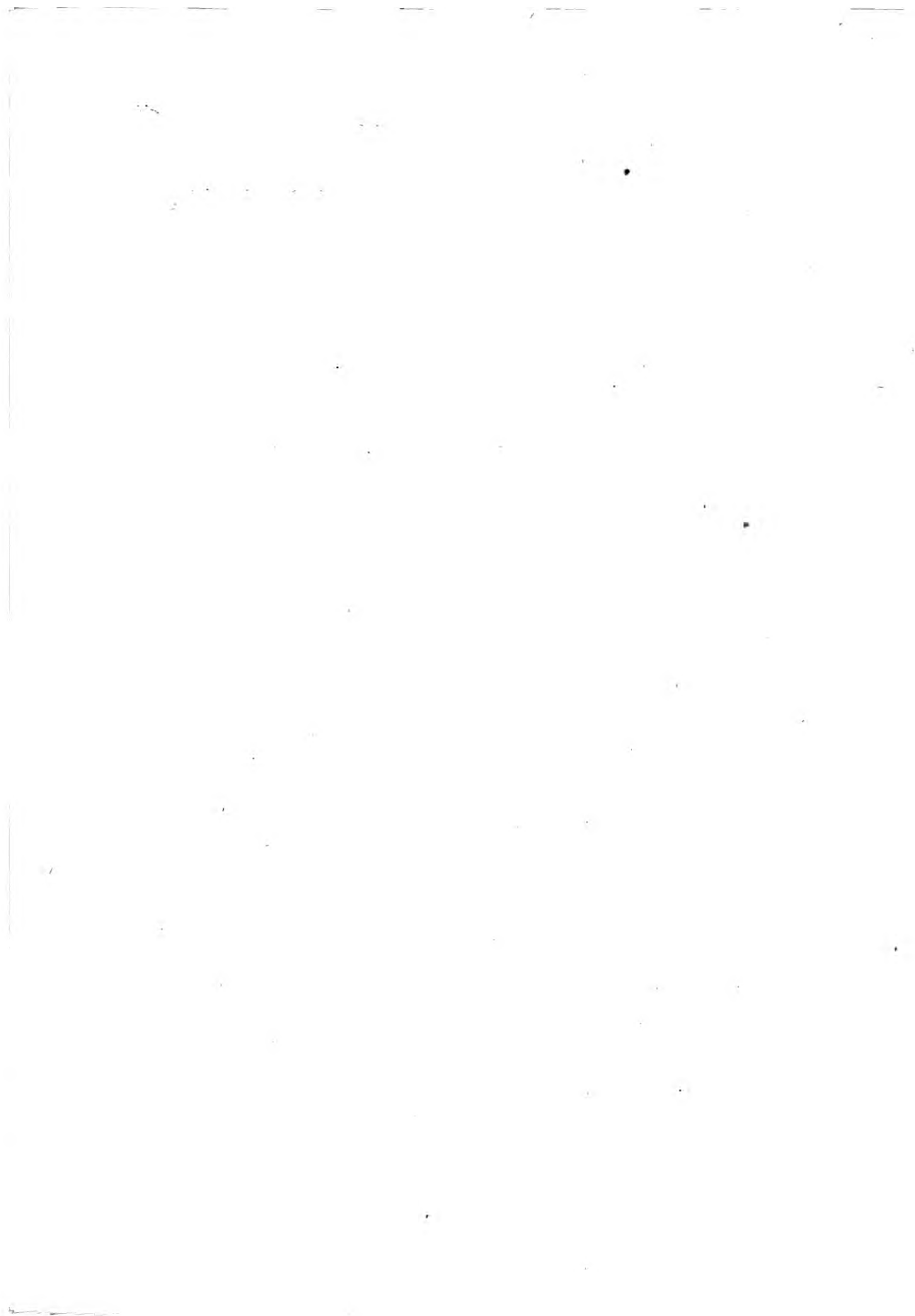


PLATE CCCXLIV.

EPIDENDRUM ENSIFOLIUM.

Sword-shaped-leaved Epidendrum.

CLASS XX. ORDER I.

GYNANDRIA DIANDRIA. Chives on the Pointal. Two Chives.

ESSENTIAL GENERIC CHARACTER.

NECTARIUM turbinatum, obliquum, reflexum. || HONEY-CUP top-shaped, oblique and reflexed.
See Pl. XIII, Vol. I. EPIDENDRUM COCHLEATUM.

SPECIFIC CHARACTER.

Epidendrum scapo tereti, lævi; foliis ensiformibus; petalis lanceolatis glabris; labio lanceolato, recurvato, maculato. || Epidendrum with a round smooth stem; leaves sword-shaped; petals lance-shaped, smooth; lip lance-shaped, recurved and spotted.

REFERENCE TO THE PLATE.

1. The lip, detached from the flower.
2. A Flower from which the lip has been separated.

THE Sword-shaped-leaved Epidendrum is a native of China and Japan, was cultivated, before 1792, in the gardens of the Marchioness of Rockingham, at Hillindon, Middlesex. It has more the habit and character of Limodorum than Epidendrum, to which genus it was first placed; and, like the Epidendrum sinense of this work, Plate CCXVI. Vol. III. requires but little heat to keep it in health; preferring a sandy loam to any other matter, for its nourishment. It, like the forenamed, and several other species of this genus, or rather of the genus Limodorum, not being thick-leaved, or parasitic, where indigenous, are of consequence much easier preserved and increased than those of that description. Its flowers, which are produced in September or October, are very fragrant, particularly in the evening, continue in perfection above a month. It is propagated by parting the roots in the month of May.

Our drawing was made from a plant in the Hibbertian Collection.



Cnididium ensifolium

Drawn at the Abbotsbury Jan. 1804
by Th. Andrews & Thos. Sawbridge



PLATE CCCXLV.
HYACINTHUS CORYMBOSUS.
Linear-leaved Cape Hyacinth.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

GENERIC CHARACTER.

| | |
|--|---|
| <p>CALYX nullus.</p> <p>COROLLA monopetala, campanulata; limbus sexfidus, reflexus. <i>Nectarium</i>; pori tres melliferi ad apicem germinis.</p> <p>STAMINA. Filamenta sex, subulata, breviora. Antheræ conniventes.</p> <p>PISTILLUM. Germen superum, rotundo-trigonum, trifidum. Stylus simplex, corolla brevior. Stigma obtusum.</p> <p>PERICARPIUM. Capsula subrotunda, triquetra, trilocularis, trivalvis.</p> <p>SEMINA bina (sæpius,) subrotunda.</p> | <p>EMPALEMENT none.</p> <p>BLOSSOM one petal, bell-shaped; border six-cleft, reflexed. <i>Honey-cup</i>, three honied pores at the tip of the seed-bud.</p> <p>CHIVES. Six threads awl-shaped, shorter. Tips converging.</p> <p>POINTAL. Seed-bud above, round-three-cornered, three-furrowed. Shaft simple, shorter than the blossom. Summit blunt.</p> <p>SEED-VESSEL. Capsula roundish, three-fided, three-celled, three-valved.</p> <p>SEEDS in pairs (often,) roundish.</p> |
|--|---|

SPECIFIC CHARACTER.

| | |
|--|--|
| <p><i>Hyacinthus</i> corollis infundibuliformibus, corymbosis, erectis; scapo foliis linearibus brevioribus.</p> | <p><i>Hyacinthus</i> with funnel-shaped blossoms, growing in a broad topped spike, upright; flower-stem shorter than the leaves, which are linear.</p> |
|--|--|

REFERENCE TO THE PLATE.

1. A Blossom, with the Chives in their place, one Chive detached, magnified.
2. The Seed-bud, Shaft and Summit, the Summit detached, magnified.

AMONGST the plants, of this natural order, from the Cape of Good Hope, we find such an intermixture of character, in the different parts of fructification; that, if some latitude is not taken in referring them to some of the old genera, almost every fresh subject, we discover, would require a new one. This plant, although we have placed it to *Hyacinthus*, with those that have gone before us, has juster claims to *Drimia*, *Polyanthes* or *Scilla*; for it is wanting in the essential characters of *Hyacinthus*, being unfurnished with the honied pores, and having the chives inserted into the tube of the blossom, three of which are, alternately, double the length of the others. To *Drimia*, a new genus of Professor Jacquin, and a mutilation of *Hyacinthus*, it is most allied; but, we have not thought fit to alter its known station, as, without doubt, the multiplication of genera, or altering the place of known plants, adds but to the difficulties of a most intricate, though pleasing study. It is a hardy green-house bulb; delights in a mixture of peat earth and sandy loam; increases by offsets, and flowers in October or November. Our figure was made from a plant in the Nursery of Mr. Williams of Turnham Green, who first imported it in 1800. It is said, by Koenig, to grow in pasture lands near the Cape town, and was first noticed there by him.



Hyacinthus corymbosa.



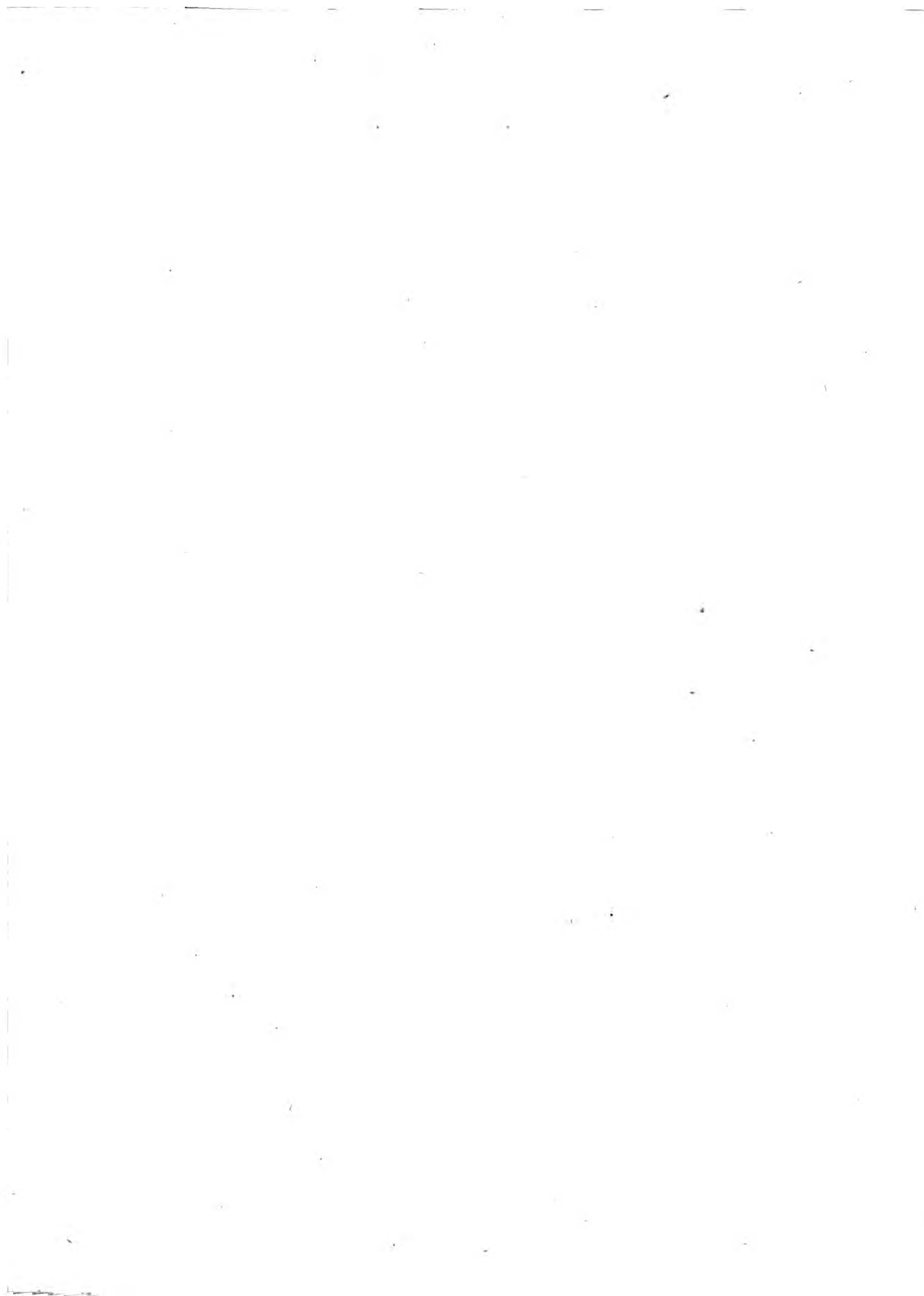


PLATE CCCXLVI.
CASUARINA STRICTA.
Upright Casuarina.

CLASS XXI. ORDER I.

MONOECIA MONANDRIA. Chives and Pointal separate. One Chive.

GENERIC CHARACTER.

| <i>* Masculi flores.</i> | <i>* Male flowers.</i> |
|---|--|
| CALYX. Amentum filiforme, imbricatum, squamis minutis, unifloris. | EMPALEMENT. Catkin thread-shape, tiled with small one-flowered scales. |
| COROLLA. Squamulæ bipartitæ, ovatæ, minutæ. | BLOSSOM. Scales two-parted, ovate, minute. |
| STAMINA. Filamentum unicum, capillare, squama amenti longius. Anthera didyma. | CHIVES. Thread one, hair-like, longer than the scale of the catkin. Tip double. |
| <i>* Feminei flores in eadem arbore.</i> | <i>* Female flowers on the same plant.</i> |
| CALYX. Amentum ovato-cylindricum; squamis ovatis, acutis, carinatis, ciliatis. | EMPALEMENT. Catkin ovate-cylindric, with egg-shaped, acute, keeled, tiled scales. |
| COROLLA nulla. | BLOSSOM none. |
| PISTILLUM. Germen minutum. Stylus filiformis, longus, exsertus, bifidus. Stigmata duo. | POINTAL. Seed-bud minute. Shaft thread-shaped, long, without, two-cleft. Summits two. |
| PERICARPIUM. Strobilus squamis bivalvibus, perpendiculariter dehiscentibus. | SEED VESSEL. Cone with two-valved scales, splitting perpendicularly. |
| SEMINA solitaria, conica, margine membranacea. | SEEDS solitary, conical, with a skinny edge. |

SPECIFIC CHARACTER.

| | |
|--|---|
| <i>Casuarina dioica</i> ramulellis erectis; strobilorum squamis inermibus; vaginis masculis multifidis, glabris. | Casuarina with chives and pointals distinct, and upright branchlets; scales of the cones naked, male sheaths many-parted, smooth. |
|--|---|

REFERENCE TO THE PLATE.

1. The Catkin, or terminal part of a male branchlet, magnified slightly.
2. The Shaft and Summit of a female floret.
3. The Cone, whilst yet in flower.
4. The same magnified.

THE *Casuarina stricta* is a native of New South Wales, and was introduced, by Messrs. Kennedy and Lee, in the year 1775. It is a hardy green-house plant, grows to the height of ten or twelve feet before it flowers, which is in November. It is perfectly dioicous; the male and female blossoms, never coming on the same plant, and either have little to recommend them for beauty; their singularity is what should sooner attract our notice. The two figures, on the plate, which are the male and female, were taken from two plants, in flower, at the same time, in the collection of the Dowager Lady de Clifford, Paddington. All the species, hitherto discovered, since the first, upon which the genus was formed, the *C. equisetifolia* has, like this, the male and female parts of fructification on different plants; that only, being monoicous, or with the male and female parts on the same plant.



Casuarina stricta.



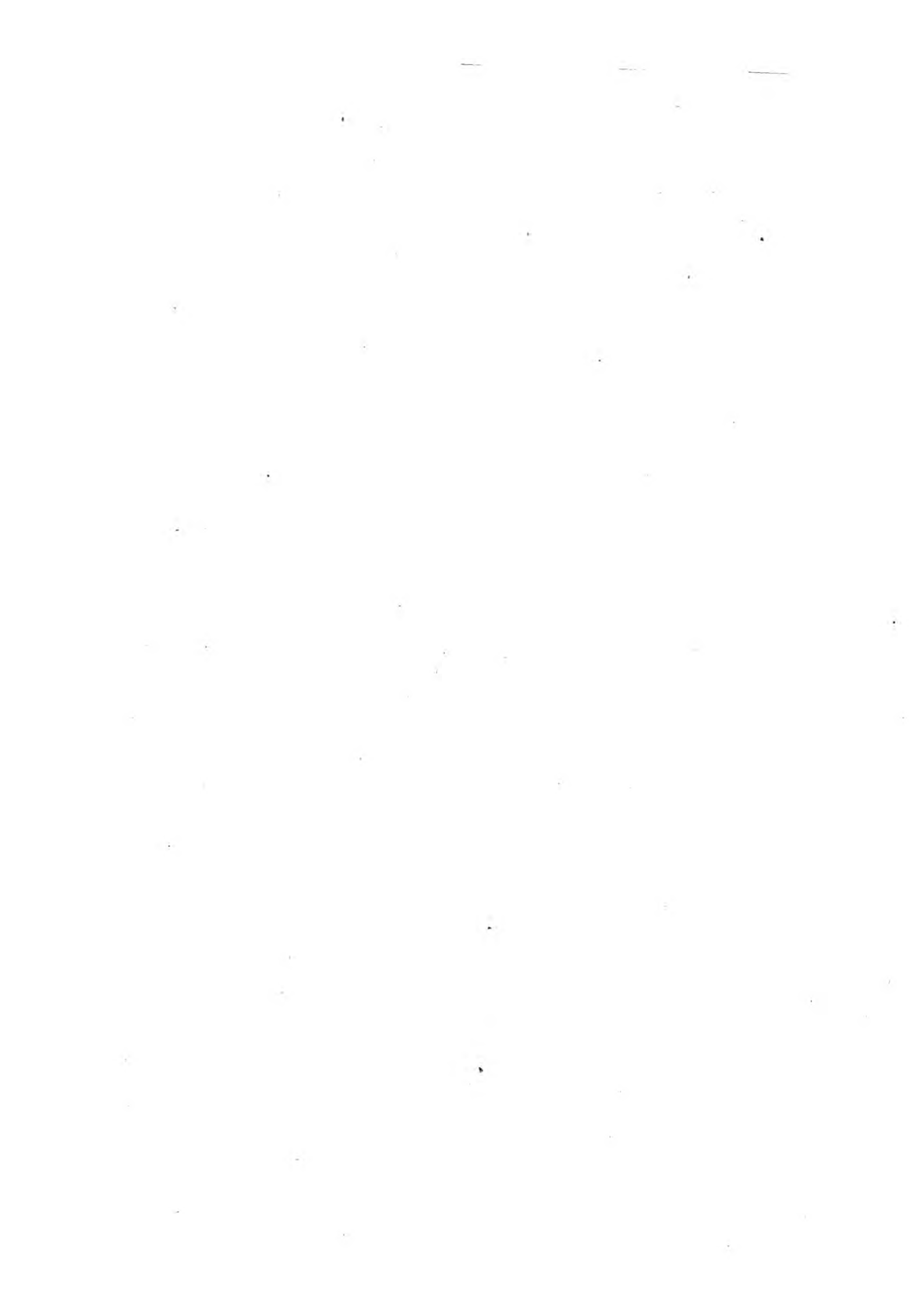


PLATE CCCXLVII.
SOPHORA CAPENSIS.
Vetch-leaved Sophora.

CLASS X. ORDER I.
DECANDRIA MONOGYNIA. Ten Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, breve, campanulatum, basi superne gibbum; ore quinque-dentato, obliquo, obtuso.

COROLLA papilionacea, pentapetala.
Vexillum oblongum, sensim latius, rectum, lateribus reflexis.
Alæ duæ, oblongæ, basi appendiculatæ, longitudine vexilli.
Carina dipetala; petalis alis conformibus, marginibus inferioribus approximatis, navicularibus.

STAMINA. Filamenta decem, distincta, parallela, subulata, longitudine corollæ, intra carina recondita. Antheræ minimæ, assurgentes.

PISTILLUM. Germen oblongum, teres. Stylus magnitudine et situ flaminum. Stigma obtusum.

PERICARPIUM. Legumen longissimum, tenue, uniloculare, ad femina nodosum.

SEMINA plurima, subrotunda.

EMPALEMENT. Cup one-leaf, short, bell-shaped, hunched at the base on the upper side; mouth five-toothed, oblique, obtuse.

BLOSSOM butterfly-shaped, five petalled.
Standard oblong, gradually wider, straight, reflexed at the sides.
Wings two, oblong, appendicled at the base, the length of the standard.
Keel two petalled with the petals conformable to the wings, the lower margins approaching and boat-shaped.

CHIVES. Ten threads, distinct, parallel, and shaped, the length of, the blossom, within the keel. Tips very small, turned upwards.

POINTAL. Seed-bud oblong, cylindrical. Shaft the size and situation of the chives. Summit blunt.

SEED-VESSEL. Pod very long, slender, one-celled, knobbed at the seeds.

SEEDS many, roundish.

SPECIFIC CHARACTER.

Sophora foliis pinnatis; foliolis lanceolatis, mucronatis, subtus tomentosis; caule fruticoso.

Sophora with winged leaves; leaflets lance-shaped, pointed, downy beneath; stem shrubby.

REFERENCE TO THE PLATE.

1. The Cup.
2. The Standard, or upper Petal.
3. One side Petal, or Wing of the Blossom.
4. One of the Petals of the Keel.
5. The Chives and Pointal, natural size.
6. One of the Chives, magnified.
7. The Pointal, natural size.

THIS is a plant of considerable size at the Cape of Good Hope, so much so, as to be looked upon there rather as a tree, than shrub. It was first sent to England, in the year 1773, by Mr. F. Maffon; is a hardy green-house plant; thrives in a mixture of loam and peat, and flowers in August, or September. There is no method, yet discovered, to propagate it in this country; but, as seeds are so common of this plant, near Cape town, there is scarce a parcel arrives, from thence, which does not contain some of them.

Among the new modern vagaries in botany, this genus has been thought, by the French botanists, (those admirable perplexers of natural order,) to be better divided in two, as some of the species happen to have the joints of the pods a little more swelled than others. How so trifling a variation, and that in a part of the plant which is known to vary, in almost every genus, through most of the species, where they are numerous; should have been deemed of sufficient moment to alter the names of so many established plants, and those determined by such authority as Linnæus, we are at a loss to determine; and are equally astonished that Willdenow should have followed them. The new genus is termed *Podalyria*, and to which, this plant is attached in the new system.



Alhora capensis

Bot. Soc. London, 1847
G. Don del. & sculp.

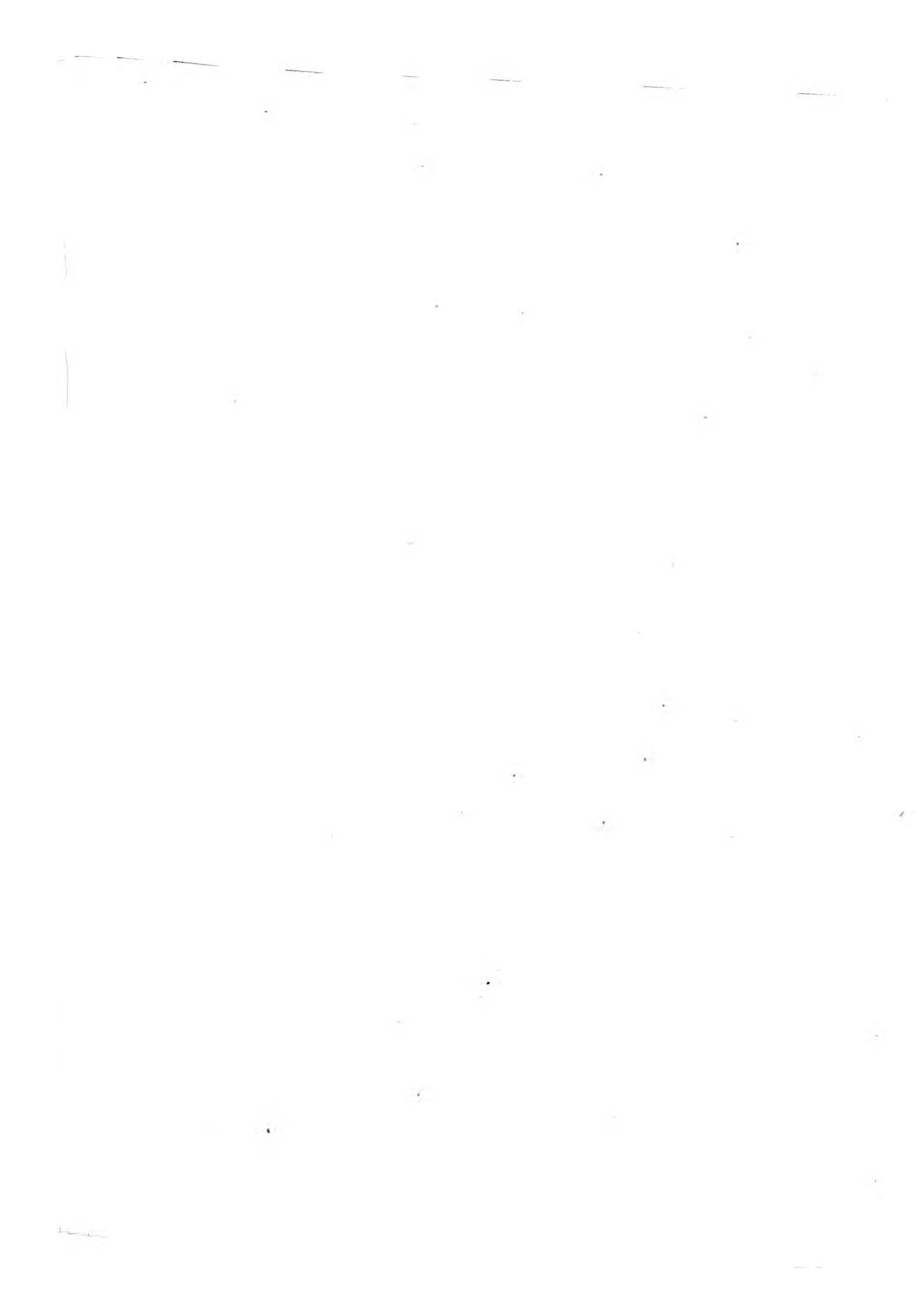


PLATE CCCXLVIII.
SCHOTIA SPECIOSA.

Lentiscus-leaved Schotia.

CLASS X. ORDER I.

DECANDRIA MONOGYNIA. Ten Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, coloratum; tubus turbinatus, subcompressus, carnosus; persistens; limbus femiquinquefidus; laciniis ovatis, concavis, obtusis, erectis, æqualibus.

COROLLA. Petala quinque, tubo calycis imposita, oblonga, concava, obtusa, erecta, æqualia, lateribus mutuo incumbentia, fœtilia, laciniis calycinis duplo longiora.

STAMINA. Filamenta decem, subulata, erecta, petalis paulo longiora, tubo calycis in orbem inferta. Antheræ oblongæ, incumbentes.

PISTILLUM. Germen oblongum, compressum, pedicellatum. Stylus filiformis, longitudine staminum. Stigma simplex, obtusum.

PERICARPIUM, Legumen pedicellatum.

SEMINA bina, offea, subovata, magna.

EMPALEMENT. Cup one leaf, coloured; tube top-shaped, rather flattened, fleshy; permanent; border half five-cleft; segments egg-shaped, concave, blunt, upright, equal.

BLOSSOM. Five petals, placed on the tube of the cup, oblong, concave, blunt, upright, equal, lying over each other at the sides, fitting, twice as long as the segments of the cup.

CHIVES. Ten threads, awl-shaped, upright, a little longer than the petals, inserted in a ring into the tube of the cup. Tips oblong, laying on the threads.

POINTAL. Seed-bud oblong; flattened, with a foot-stalk. Shaft thread-shaped, the length of the chives. Summit simple, blunt.

SEED-VESSEL. A pod with a foot-stalk.

SEEDS two, bony, a little egg-shaped, large.

SPECIFIC CHARACTER.

Schotia foliis pinnatis; foliolis ovatis, mucronatis; floribus cymosis, profundè carneis.

Schotia with winged leaves; leaflets egg-shaped, terminating in a point; flowers in tufts and of a deep flesh colour.

REFERENCE TO THE PLATE.

1. A Flower cut and spread open, shewn from the outside.
2. The same, shewn from the inside.
3. A Flower, with the petals, and border of the Cup removed, to shew the insertion of the Chives into the tube of the Cup.
4. The Seed-bud, Shaft and Summit, with the tube of the Cup cut in halves.

Our present subject stood formerly attached to the genus *Guaiacum*, under the title of *G. affrum*, and has been long cultivated in Britain and Holland, perhaps more than a century. Professor Jacquin, in his *Collectanea ad Bot. &c.* Vol. I. p. 93, thought fit to constitute it a new genus, naming it after his companion R. van der Schot. About the same time, the year 1786, a monograph on this plant was published at Mannheim, by Fred. Casim. Medikus, under the name of *Theodora Speciosa*; but Jacquin's title has universally obtained. To preserve this plant in good health, it should be kept in the coolest part of the hot-house, or in a dry stove, the warmth of a common green house being insufficient to preserve its foliage through the winter months. It is a native of all that extent of the African coast from Senegal river, to the Cape of Good Hope, where it grows to the height of twenty feet and upwards. The seeds, which are frequently imported, keep many years in a vegetative state, and is, almost, the only method by which it can be propagated; for little success can be hoped, either from layers, or cuttings. It flowers from October till December, delighting in a light sandy loam. Perhaps, no plant which has been as long in cultivation with us, has so seldom been seen to flower; for, although the plants in the Kew gardens and elsewhere, are of a considerable size, yet have we few instances of its flowering, no mention being made of its time of inflorescence in the catalogue of that collection.

From a plant, still in flower, this present December 1803, which was literally covered with blossoms above two feet from its top, our drawing was taken; it is in the valuable and extensive collection of Isaac Swainson, Esq. Twickenham; which for scientific arrangement and richness in hardy shrubs and herbaceous plants, in particular, yields to no private or public collection we know of; and which, from the extreme urbanity of the liberal proprietor, is at all times open, to every botanist or collector.



Ehotia speciosa

Illustration of the plant's reproductive parts.

PLATE CCCXLIX.
PROTEA DECUMBENS.

Slender-stemmed Protea.

CLASS IV. ORDER I.

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 4-fida seu 4-petala. Antheræ lineares,
infertæ petalis infra apicem.

CALYX proprius nullus. Semina solitaria.

BLOSSOM 4-cleft or 4-petalled. Tips linear, in-
serted into the petals below the point.

CUP, proper, none. Seeds solitary.

See PROTEA FORMOSA, Pl. XVII. Vol. I.

SPECIFIC CHARACTER.

Protea foliis bi-pinnatis, filiformibus; capitulis
terminalibus, sessilibus; floribus incarnatis,
bracteolatis; caule tenue, decumbente.

Protea with doubly winged leaves, thread-
shaped; small heads of flowers fitting close
on the ends of the branches; flowers flesh-
coloured with small floral leaves; stem
slender and bending downwards.

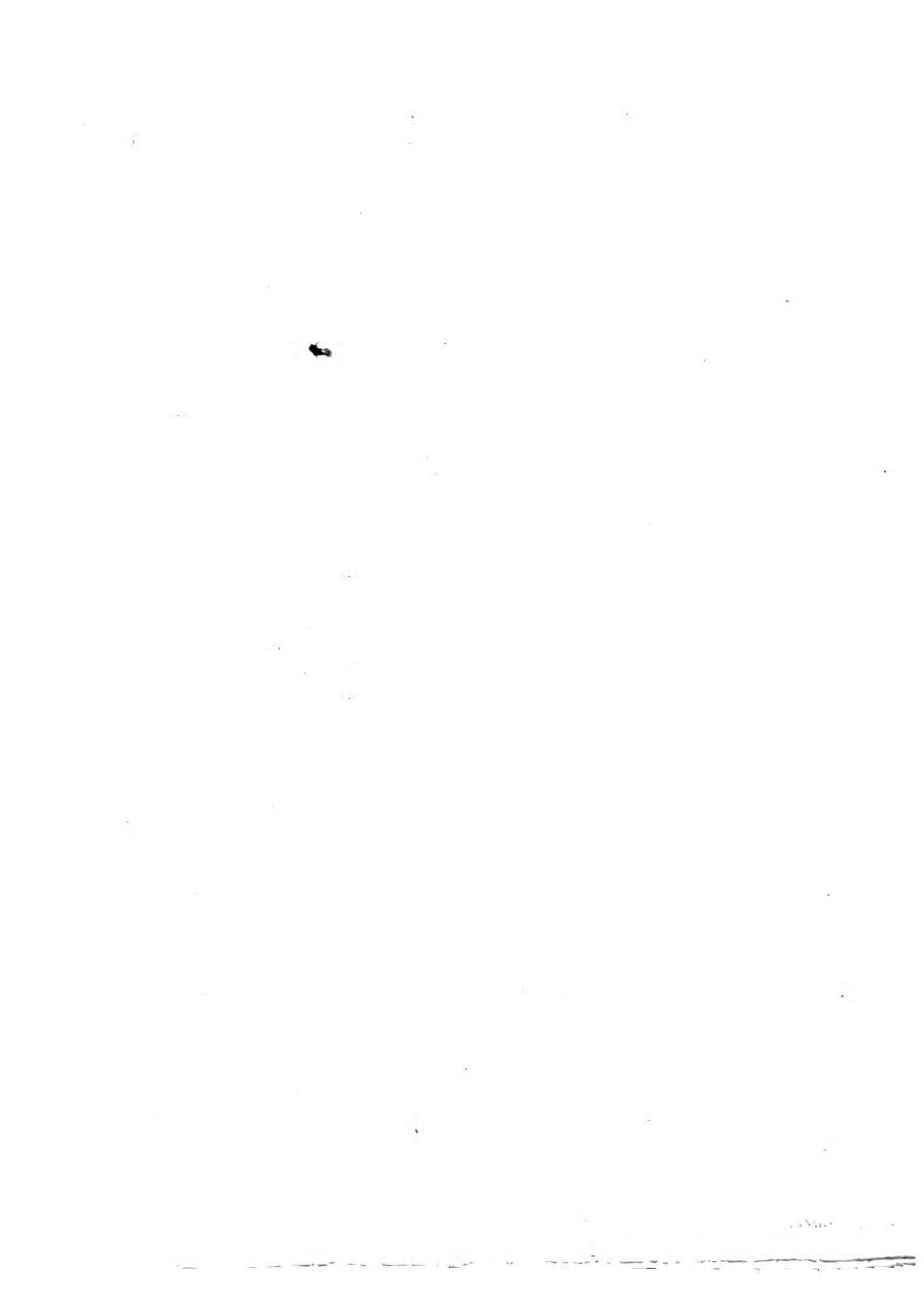
REFERENCE TO THE PLATE.

1. A Leaf.
2. One of the Floral Leaves, magnified.
3. A Floret, complete.
4. One of the Petals, with its Chive at the point, magnified.
5. The Pointal, with the Summit detached and magnified.

FROM the great number of new species of the divided leaved Proteas, we are led to conjecture, that they are as numerous as those with entire leaves. The *P. decumbens*, from the different specimens we have seen, appears to branch into many varieties; some with hairy leaves and stems, some with very close thick set leaves, and some, with both stems and leaves, quite smooth. They are all, nevertheless, very slender stemmed; and, there is little doubt but, in their natural state, they rest on the ground; although in the fashion we train them here, they have the appearance of being erect. This species is found at a considerable distance from the Cape Town, on the summits of dry sandy hills; wherefore, it must be kept in the most airy part of the green-house, and watered but seldom. The stem does not grow more than eighteen inches long, and frequently flowers, as was the case in the present instance, when not more than twelve. It is propagated, readily, from cuttings made in the month of May, if treated in the method already directed for the increase of these plants. The earth in which it should be planted is, a light sandy bright loam. Our drawing was taken in the month of July, 1802, from a plant in the Hibbertian Collection, to which it was introduced by Mr. Niven, in the year 1800.



Protea decumbens



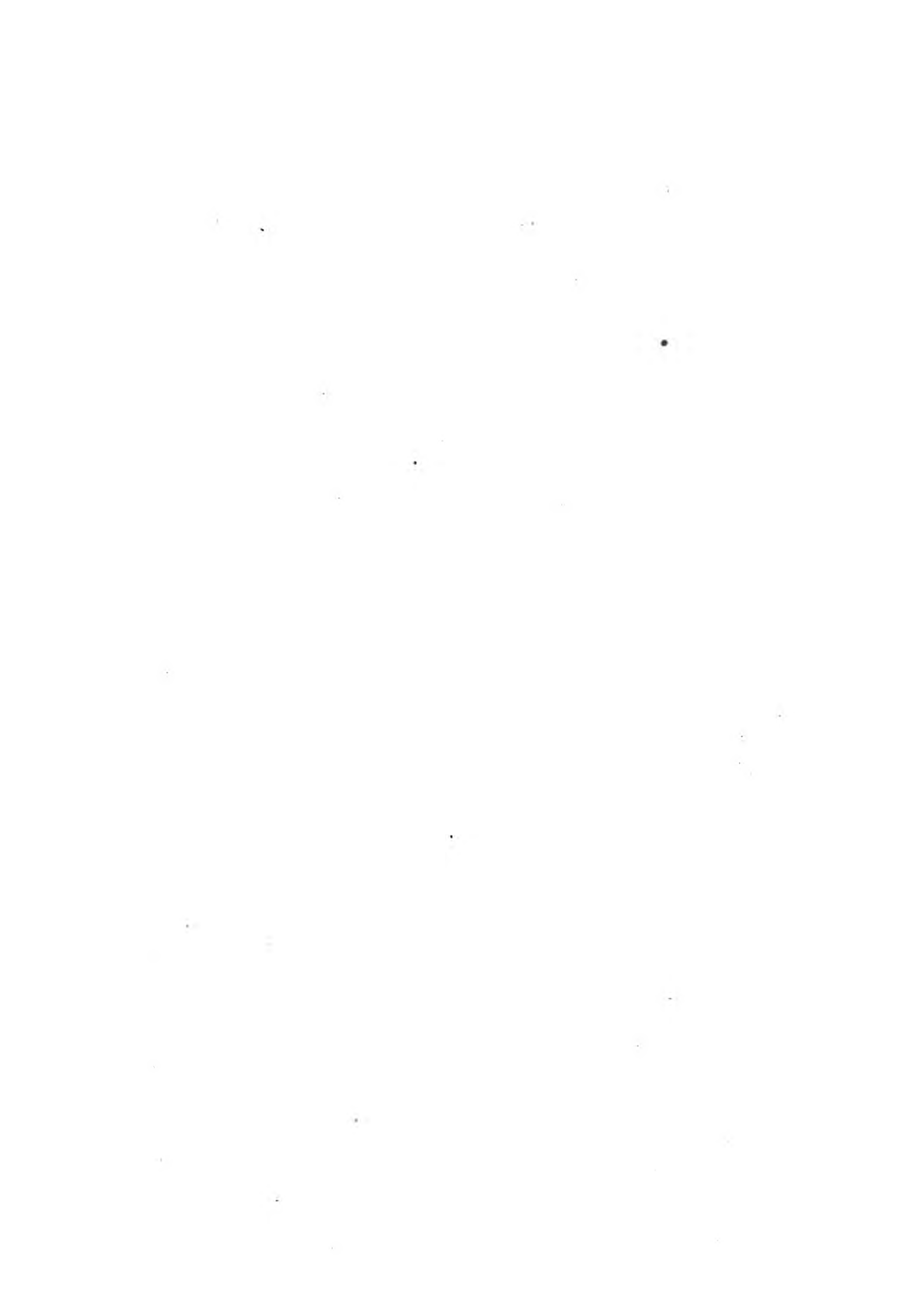


PLATE CCCL.

LACHENALIA PUSTULATA.

Rough-leaved Lachenalia.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA sexpetala, infera; petalis tribus infera; petalis tribus interioribus longioribus. Stamina erecta. Capsula sub-ovata, trialata. Semina globosa.

BLOSSOM 6-petals, beneath; the three inner petals the longest. Chives erect. Capsule nearly egg-shaped, three-winged. Seeds globular.

See LACHENALIA PENDULA, Pl. XLI. Vol. I.

SPECIFIC CHARACTER.

Lachenalia foliis geminis, lanceolato-linearibus, dense facie pustulatis; scapo reclinato; floribus sub-campanulatis, albo-virentibus.

Lachenalia with leaves in pairs, linearly-lance-shaped, thickly covered with pustules on the face; stem bent downwards; flowers rather bell-shaped, of a whitish green.

REFERENCE TO THE PLATE.

1. A Flower.
2. The same, cut open, with the Chives in their place.
3. The Pointal.

THE drawing, from which our figure of this species of Lachenalia was taken, was made from a plant communicated by Isaac Swainson, Esq. from his Botanic Gardens, Twickenham, Middlesex; where it is still in flower, this present month of January, 1804; and where we believe it is only to be met with at present in this kingdom. It is one of the largest growing plants of the genus, the leaves when in a foil it approves attaining the length of eighteen inches, or more. It is as hardy as any of the tribe, very fragrant, easily preserved, increasing freely by the root, and flowering with certainty when the bulb has become of a sufficient size. It grows best in a mixture of light loam and peat, about two-thirds loam, and one of peat.



Lachenalia pustulata.

Tab. 50. the Acc. Dorelli Feb. 1. 1804
by Th. Anderson & Knightbridge

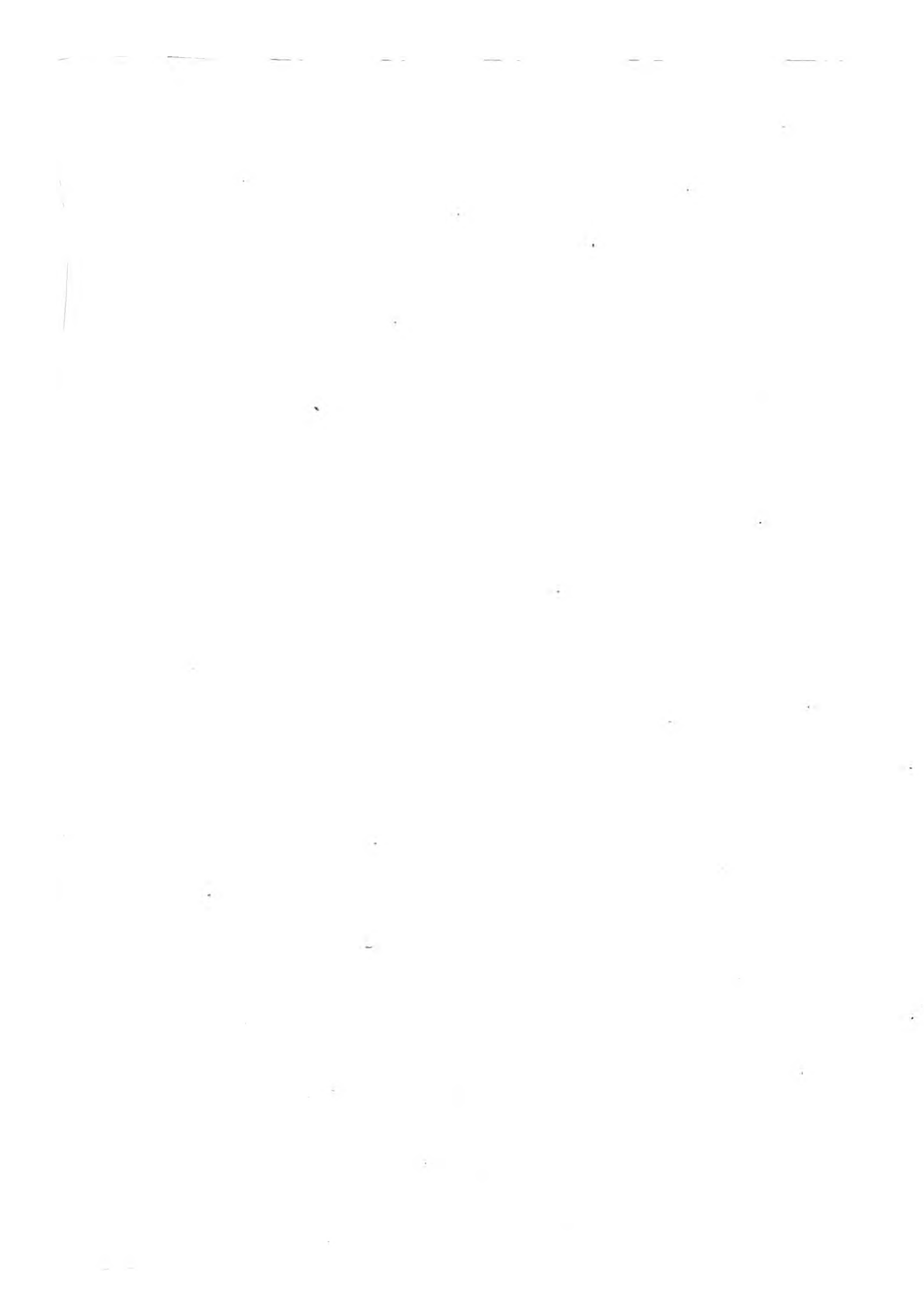


PLATE CCCLI.
PULTENÆA RUBIÆFOLIA.

Madder-leaved Pultenæa.

CLASS X. ORDER I.

DECANDRIA MONOGYNIA. Ten Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX quinque-dentatus, utrinque appendiculatus. Corolla papilionacea, alis vexillo brevioribus. Legumen uniloculare, dispersum.

CUP five-toothed, with an appendage on each side. Blossom butterfly-shaped, with the wings shorter than the standard. Pod of one cell with two seeds.

See PULTENÆA DAPHNOIDES, Pl. XCVIII. Vol. II.

SPECIFIC CHARACTER.

Pultenæa foliis ternis, verticillatis, lanceolatis, ferratis, rigidis; floribus capitatis, cæruleo-purpureis.

Pultenæa with leaves growing by threes in whorls, lance-shaped, sawed and harsh; flowers grow in heads, and of a bluish purple.

REFERENCE TO THE PLATE.

1. The Cup.
2. The Standard.
3. One of the Wings.
4. The two Petals of the Keel.
5. The Chives and Pointal.
6. The same, magnified.
7. The Pointal.
8. A ripe Seed-pod, open.
9. One of the Seeds, of its natural size when ripe.

HERE we find another hiatus to fill up, or pass over; either a new genus is to be formed for this plant, or we must not boggle at trifles, and skip over one of the essential characters of Dr. Smith's Pultenæas, the appendices or props at the side of the cup, which are wanting in this plant, though agreeing in every other. We have, however, until the Doctor shall think fit to regulate these new, numerous and intricate genera and species from New Holland, made no scruple to add this plant, as another species, to the genus Pultenæa. It is a low growing bushy shrub, seldom attaining more than a foot in height; is very apt to be destroyed by damp in winter, and is not to be propagated but by seeds, which, however, it perfects in this country. The blossoms begin to appear in May, and continue in succession through the summer months of June, July, and August. It should be kept warm and dry in winter, growing with most luxuriance in light sandy peat earth, and flowering the second year from the seed. This plant was first raised in 1792, by Messrs. Lee and Kennedy, at their nursery, Hammer-smith, where our drawing was taken.



Pultenaea rubicifolia

Prodr. Fl. Nov. Holland. p. 107. t. 1. f. 1.



PLATE CCCLII.
HELONIAS BULLATA.
Spear-leaved Helonias.

CLASS VI. ORDER III.

HEXANDRIA TRIGYNIA. Six Chives. One Pointal.

GENERIC CHARACTER.

| | | |
|---|--|---|
| <p>CALYX nullus.</p> <p>COROLLA. Petala sex, oblonga, æqualia, decidua.</p> <p>STAMINA. Filamenta sex, subulata, corolla paulo longiora. Antheræ incumbentes.</p> <p>PISTILLUM. Germen subrotundum, trigonum. Styli tres, breves, reflexi. Stigmata obtusa.</p> <p>PERICARPIUM. Capsula subrotunda, trilocularis.</p> <p>SEMINA numerosa, angulata, minima.</p> | | <p>EMPALEMENT, none.</p> <p>BLOSSOM. Six petals, oblong, equal, deciduous.</p> <p>CHIVES. Six threads, awl-shaped, a little longer than the blossom. Tips lying on the threads.</p> <p>POINTAL. Seed-bud roundish, three-fided. Shafts three, short and reflexed. Summits obtuse.</p> <p>SEED-VESSEL. Capsule roundish, three-celled.</p> <p>SEEDS numerous, angulated, very small.</p> |
|---|--|---|

SPECIFIC CHARACTER.

| | | |
|--|--|--|
| <p><i>Helonias foliis lanceolatis, nervosis; bracteis cordato-lanceolatis.</i></p> | | <p><i>Helonias with lance-shaped, nerved leaves; floral leaves between lance and heart-shaped.</i></p> |
|--|--|--|

REFERENCE TO THE PLATE.

1. Flower, complete.
 2. The Chives and Pointal, natural size.
 3. The same, magnified.
-

ALL the species of this genus, yet discovered, are natives of North America, and are considered as hardy herbaceous plants; the winters of this country not being too severe for them; although they are found as far south as Carolina, yet they are more plentiful in Pennsylvania, about Philadelphia. They flourish most in a shady, moist situation; and increase, freely, by parting the roots in the month of March. The flowers are produced in May, the flower-stem increasing in length, till the flowers are entirely decayed. The *Helonias bullata* has been an inhabitant of our gardens ever since the year 1758, when it was introduced by Mr. Ph. Miller, and cultivated by him at Chelsea. See Mill. ic. 181. t. 272.

Our drawing was made at the Nursery, Hammermith, in June 1801.



Helonias bullata.





PLATE CCCLIII.
ASPALATHUS CRASSIFOLIUS.
Thick-leaved Aspalathus.

CLASS XVII. ORDER IV.
DIADELPHIA DECANDRIA. Threads in two sets. Ten Chives.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, semiquinquefidum; laciniis acuminatis, æqualibus, superiore longiore.
COROLLA papilionacea.
Vexillum compressum, ascendens, obovatum, externe sæpius hirsutum, obtusum cum acumine.
Alæ lunulatae, obtusae, patulae, vexillo breviores.
Carina bifida, alis conformis.
STAMINA. Filamenta decem, connata in vaginam, superne dehiscentem longitudinaliter, ascendentia. Antherae oblongae.
PISTILLUM. Germen ovatum. Stylus simplex, ascendens. Stigma acutum.
PERICARPIUM. Legumen ovatum, muticum.
SEMINA sæpius duo, reniformia.
OBS. *Singulare huic sunt folia ex eadem gemma plura in planta frutescente.*

EMPALEMENT. Cup one leaf, half-five-cleft; segments tapered, equal, the upper one longer.
BLOSSOM butterfly-shape.
Standard compressed, ascending, inversely egg-shaped, often hairy on the outside, obtuse with a point.
Wings half-moon-shaped, obtuse, spreading, shorter than the standard.
Keel two-cleft, like the wing.
CHIVES. Ten threads, united into a sheath, gaping longitudinally at top, ascending. Tips oblong.
POINTAL. Seed-bud egg-shaped. Shaft simple, ascending. Summit pointed.
SEED-VESSEL. Pod egg-shaped, beardless.
SEEDS frequently two, kidney-shaped.
OBS. *This genus is singular in having several leaves from the same bud, on a shrubby plant.*

SPECIFIC CHARACTER.

Aspalathus foliis fasciculatis, carnofis, teretibus, glabris, apicibus setaceis; floribus capitatis, terminalibus; calycibus bracteatis.

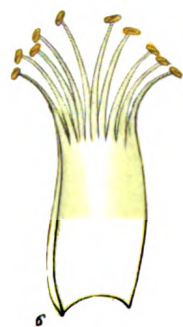
Aspalathus with leaves bundled, fleshy, cylindrical, smooth and bristled at the point; flowers grow in heads at the end of the branches; cups with floral leaves.

REFERENCE TO THE PLATE.

1. The Cup.
2. The Standard.
3. One of the Wings.
4. The Keel.
5. The Chives and Pointal.
6. The Chives, spread open and magnified.
7. The Pointal.

FROM the number of specimens in the herbarium of G. Hibbert, Esq. which we should refer to this genus; it stands fair to rival, in number of species, every other, natives of the Cape of Good Hope; with the exception of *Erica*, *Geranium*, and *Protea*. This species has many varieties, and we are in doubt whether this is not one from the *A. carnofa*, or *A. pinguis* of Thunberg; for although, the cup, in the one, may differ, in having the segments described as pointed; and in the other, the leaves may be rather three-fided; yet, may our plant be no more than a slight variation from either of them: but this we cannot decide without living plants of each, for dried specimens would not determine the fact.

This plant was introduced to the Hibbertian Collection, in 1800, by Mr. Niven, from the Cape. It is a tender green-house plant, grows to the height of eighteen inches, very bushy, and covers itself with flowers about July; in which month, 1803, our drawing was taken. It has hitherto put the ability of Mr. Allen, which is not often the case, to a stand for a method to propagate it; but we have hopes, as most of the species do, that it will ripen its seeds in this country.



Aspalathus crassifolia

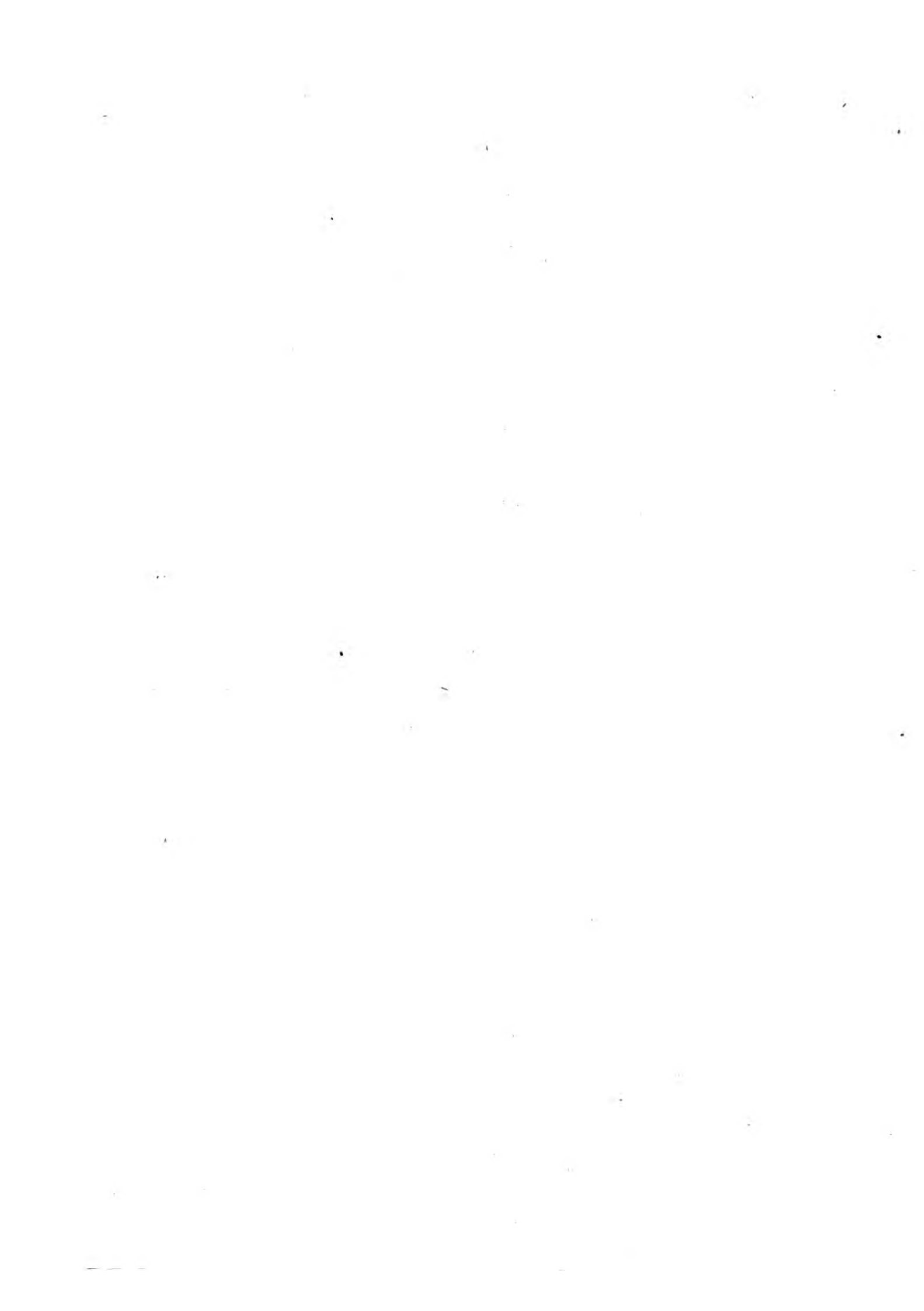


PLATE CCCLIV.

GERANIUM REVOLUTUM.

Reflex floral-leaved Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus || ONE POINTAL. Five Summits. Fruit furnished
rostratus; pentacoccus. || with long awns; five dry berries.

SPECIFIC CHARACTER.

Geranium foliis cordatis, obtusis, nervosis, sæpe || Geranium with heart-shaped leaves, obtuse,
auriculatis; pedunculis multifloris; invo- || nerved and often eared; flower-stems many-
lucris polyphyllis, foliolis revolutis; floribus || flowered; fence many-leaved, leaflets rolled
pentandris; radice tuberosa. || back; flowers with five fertile chives; root
tuberos.

REFERENCE TO THE PLATE.

1. The Empalement cut open to shew its tubular structure.
2. The Chives and Pointal.
3. The Chives, spread open, magnified.
4. The Pointal, magnified.

THIS very fine Geranium is, as yet, only in the Clapham Collection; it has no properties, which regard its culture or propagation, differing from the rest of its congeners; was sent from the Cape, by Mr. Niven, in 1800. Flowers in July. The leaves of this species have most affinity, in appearance, to those of *G. melananthum*, particularly in being like them frequently eared, and even sometimes winged. We have named it, specifically, from the singular revolute character of the involucre, at the base of each bunch of flowers.



Geranium revolutum

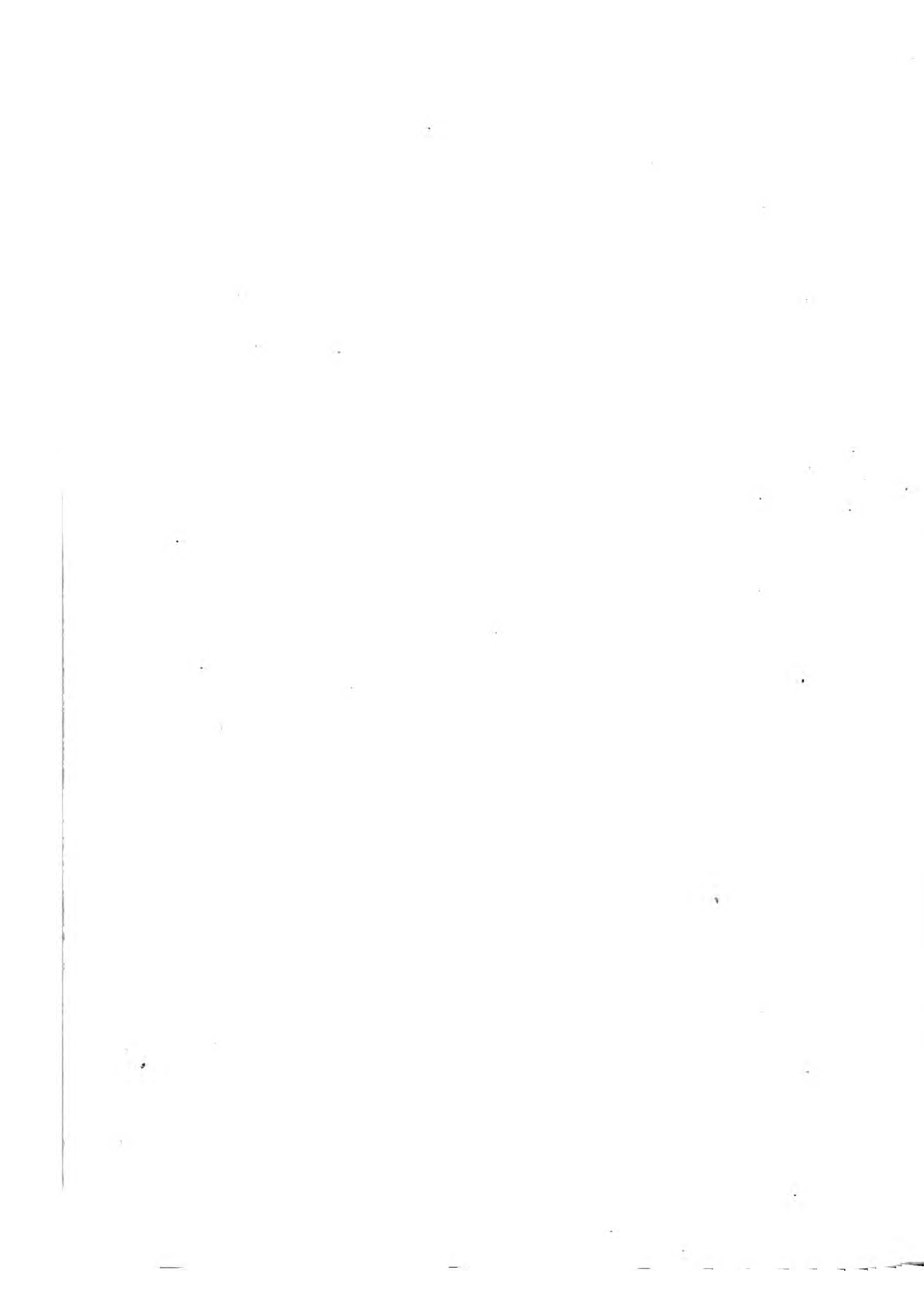


PLATE CCCLV.
LEE A PINNATA.
Winged-leaved Leea.

CLASS V. ORDER I.
PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium monophyllum, campanulatum, coriaceum, quinque-dentatum, persistens.

COROLLA monopetala; tubus longitudine calycis; limbus quinquefidus, æqualis; laciniis faccatis.

Nectarium basi interioris corollæ adnatum, corolla dimidio brevius, erectum, urceolatum, quinquefidum; lobis emarginatis.

STAMINA. Filamenta quinque, inserta basi exteriori nectarii. Antheræ ovatæ, versatiles.

PISTILLUM. Germen subglobosum. Stylus simplex, nectario brevior. Stigma obtusum.

PERICARPIUM. Bacca orbiculata, depressa, quinquelocularis.

SEMINA quinque, solitaria.

EMPALEMENT. Cup one leaf, bell-shaped, leathery, five-toothed, remaining.

BLOSSOM one petal; tube the length of the cup; border five-cleft, equal; segments bagged.

Honey-cup fixed to the base of the inside of the blossom, by the half shorter than the blossom, erect, pitcher-shaped, five-cleft; lobes notched at the end.

CHIVES. Five threads inserted into the outside of the base of the honey-cup. Tips egg-shaped, versatile.

POINTAL. Seed-bud almost globular. Shaft simple, shorter than the honey-cup. Summit blunt.

SEED-VESSEL. Berry orbicular, flattened, five-celled.

SEEDS five, solitary.

SPECIFIC CHARACTER.

Leea foliis impari-pinnatis, oppositis; caule tereti, glabro; racemis angulatis, angulis undulatis.

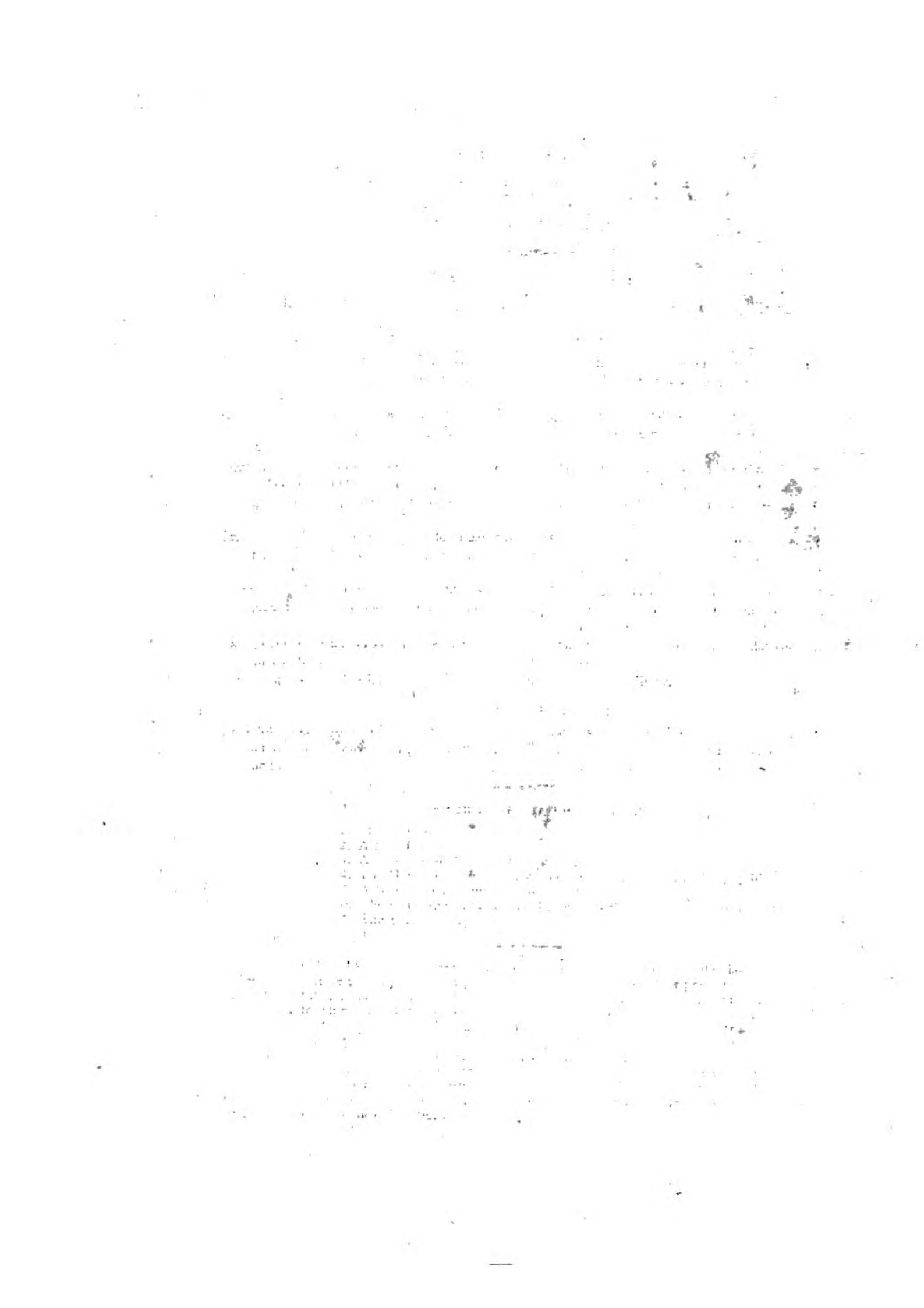
Leea with winged leaves terminated by an odd one and opposite; stem round and smooth; branches angled; angles waved.

REFERENCE TO THE PLATE.

1. The Cup, natural size.
2. A Blossom.
3. A Flower complete, magnified.
4. The Honey-cup, shewn from the inside, cut open, a little magnified.
5. A Blossom, with the Honey-cup and Chives, magnified.
6. The Honey-cup and Chives shewn from the outside, magnified.
7. The Pointal, magnified.

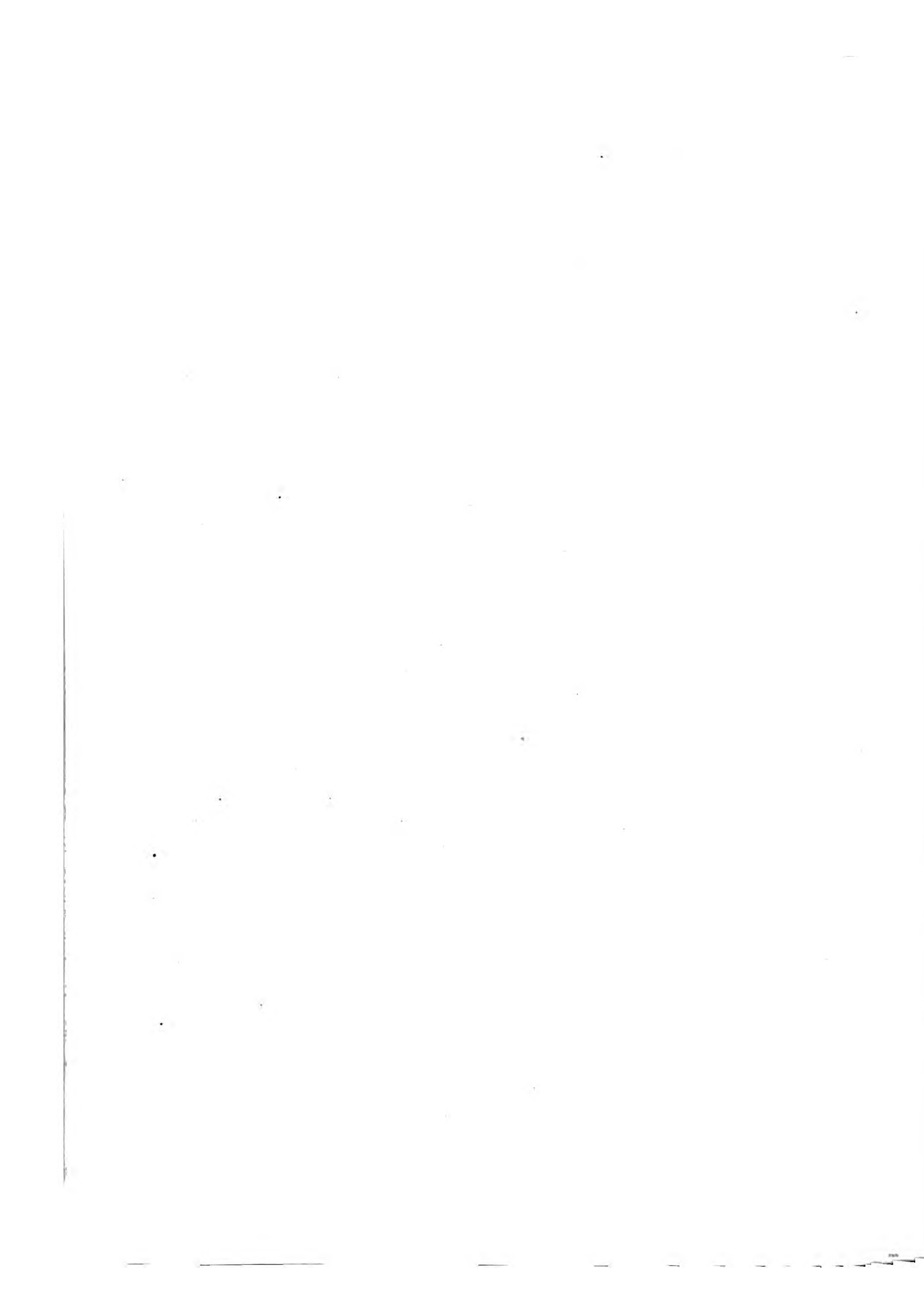
LEE A and *Aquilicia* have, of late, been considered as not possessing sufficient essentially differing characters to constitute two genera, and *Aquilicia* has been lost in *Leea*. Our present subject is a species of the former *Aquilicias*, is mentioned by Gaertner, who says, it approaches *A. sambucina*, now *Leea sambucina*; to which indeed it has much resemblance, but differs in having opposite, not alternate branches, being scentless, having the leaves rather rough and the stem smooth. It is a native of the East Indies, requiring the tan-bed to make it flower; is half shrubby, and is increased by cuttings. Flowers in August. Our figure is from a specimen communicated to us by Aylmer Bourke Lambert, Esq. who raised it from seeds received from Dr. Roxburg, in 1801, under the name of *Leea crispa*: which is a native of Africa, and has been long in most of our collections of hot-house plants, but is in the highest state of cultivation, under the care of Mr. Hoy, in that of his Grace the Duke of Northumberland, Sion House, near Brentford.







Lecythis pinnata





P L A T E C C C L V I .
A R U M O R I X E N S I S .

Orixian Cuckow-pint.

C L A S S X X . O R D E R X I .

GYNANDRIA POLYANDRIA. Chives on the Pointal. Many Chives.

E S S E N T I A L G E N E R I C C H A R A C T E R .

CALYX. Spatha monophylla, maxima, oblonga, basi convoluta, apice connivens, ventre compressa, interne colorata.

Spadix clavatus, simplicifimus, spatha paulo brevior, coloratus, inferne germinibus obvallatus, marcescens supra germina.

COROLLA nulla.

STAMINA. Filamenta nulla, nisi nectaria basi crassa, desinentia in cirros filiformes, duorum ordinum e medio spadice egredientes. Antheræ plurimæ, sessiles, tetragonæ, cirrhorum duplici ordine interjectæ, spadici adnatæ.

PISTILLA. Germina plurima, basin spadicis vestientia, infra stamina collocata, obovata. Styli nulli. Stigmata villis barbata.

PERICARPIA. Baccæ totidem, globosæ, uniloculares.

SEMINA plura, subrotunda.

EMPALEMENT. Sheath one leaf, very large, oblong, convolute at the base, converging at the top, the belly compressed, coloured within.

Sheathed-Fruit-stalk club-shaped quite simple, a little shorter than the sheath, coloured, set round with seed-buds on the lower part, withering above the seed-buds.

BLOSSOM none.

CHIVES. Threads none except the honey-cups, which are thick at the base and terminated in thread shaped tendrils, issuing in two rows from the middle of the sheathed fruit-stalk. Tips many, fitting, four sided, fixed to the fruit-stalk, and disposed between the two rows of tendrils.

POINTALS. Seed-buds many, cloathing the base of the fruit-stalk, set below the chives, inversely egg-shaped. Shafts none. Summits bearded with soft hairs.

SEED-VESSELS. As many berries, globular, and one-celled.

SEEDS. Many, roundish.

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

Arum, acule; foliis ternatis, venosis, discoloribus; spatha declinata; flore atro-purpureo.

Cuckow-pint, stemless; leaves threefold, full of veins, two-coloured; sheath bent downward; flower of a deep purple.

R E F E R E N C E T O T H E P L A T E .

1. The whole flower, shewn from the front with the sheath opened, to expose the parts of fructification.

THIS pretty plant is a native of the East Indies, in that country from which it derives its specific title. It has much affinity with many others of the Genus, which at first sight appear rather as varieties, than meriting to be treated as species; but, in this instance, we submit our judgment to that of Dr. Roxburg, by whom it has been introduced to us under the name it here bears, in the year 1802. Our figure was taken, in the month of October 1803, from a plant in the collection of J. Vere, Esq. Kensington Gore. The flower is scentless.



Arum orizacense

Arum orizacense (L.) Schott
Pl. Ind. Arch. 1850, t. 1, p. 107, f. 107



PLATE CCCLVII.
ARCTOTIS PARADOXA.
Chamomile-leaved Arctotis.

CLASS XIX. ORDER IV.

SYNGENESIA POLYGAMIA NECESSARIA. Tips united. Necessary Pointals.

GENERIC CHARACTER.

CALYX *communis* subrotundus, imbricatus; squamis inferioribus laxioribus, subulatis; mediis ovatis; intimis oblongis; apice scariofo, rotundato, concavo.

COROLLA *composita* radiata; corollulæ hermaphroditæ plurimæ in disco. Femininæ ligulatae, fere viginti, disci diametro longiores.

Propria hermaphroditis infundibuliformis; limbo quinquefido, apicibus reflexis, æqualibus.

Femineis ligulata, lanceolata, tenuissime tridentata, tubo brevissimo.

STAMINA hermaphroditis; filamenta quinque, capillaria, brevissima. Anthera cylindracea, quinquentata, longitudine corollulæ.

PISTILLUM *Hermaphroditis*; germen vix manifestum. Stylus cylindraceus, corolla paulo longior. Stigma simplex.

Femineis germen ovato-tetragonum, villosum, coronatum calyculo proprio. Stylus filiformis. Stigmata duo, ovata-oblonga, crassiuscula, erecta.

PERICARPIUM nullum. Calyx immutatus. Semina *Hermaphroditis* nulla.

Femineis solitaria, subrotunda, villosa. Pappus perianthium proprium pentaphyllum; foliis ovatis, patentibus, coronatus perianthii proprii foliis ovatis in orbem positus.

RECEPTACULUM pilosum seu paleaceum, planiusculum.

EMPALEMENT *common* roundish, tiled; lower scales more loose, awl shaped; middle ones egg-shaped; innermost oblong; harsh, rounded, concave at the point.

BLOSSOM *compound* raised; hermaphrodite florets numerous in the center. Of the Females tongue-shaped, nearly twenty, longer than the diameter of the center.

Proper of the *hermaphrodites* funnel-shaped; border five-cleft, ends reflexed, equal.

Of the *Females* tongue-shaped, lance-shaped, slightly three-toothed; tube very short.

CHIVES of the *Hermaphrodites*; five threads hair-like, very short. Tip cylindrical five-toothed, the length of the floret.

POINTAL of the *Hermaphrodites*; seed-bud scarce visible. Shaft cylindrical, a little longer than the blossom. Summit simple.

Of the *Females* seed-bud egg-shaped four-cornered, hairy, crowned by its proper cup. Shaft thread-shaped. Summits two, oblong-egg-shaped, thickish, upright.

SEED-VESSEL none. Empalement unchanged. Seeds in the *Hermaphrodites* none.

In the *Females* solitary roundish, hairy. Feather, proper cup five-leaved; leaflets, egg-shaped, spreading, crowned by the proper cup with the leaflets placed in a round.

RECEPTACLE hairy or chaffy, flattish.

SPECIFIC CHARACTER.

Arctotis flosculis radiantibus sterilibus; paleis disco longioribus coloratis; foliis bipinnatis, linearibus.

Arctotis with the florets of the circumference sterile; chaffs coloured and longer than the florets of the center; leaves doubly winged; linear.

REFERENCE TO THE PLATE.

1. An inner Scale of the cup.
2. An outer Scale of the cup.
3. A Petal of the circumference, with its tubular base, which is sterile.
4. A chaffy division of the florets of the center, magnified.
5. A Female floret of the center, magnified.
6. The Chives of an Hermaphrodite floret, spread open and magnified.
7. The Pointal of an Hermaphrodite floret, natural size.
8. The same, magnified.
9. The Seed-bud of a female floret, natural size, with its feather.
10. The same, magnified.

Of all the plants, numerous as they are, composing this natural Class, we know of no one, the *Virgilia* (a native of Peru, and introduced to us from the Paris gardens by Mons. Thoin, about twenty years ago, but since lost to Europe.) excepted, which can rival our present subject. It is a native of the Cape of Good Hope, and is said, in the Kew Catalogue, to have been introduced to that collection, in 1774, by Mr. Masson. Whether this is the *A. paradoxa* of Linn. Sp. 1307. Vol. II, we are not certain, as the chaff, dividing the florets, is there described as of nearly the length of the ray, giving the flower an appearance of doubleness, and is there likewise marked as an annual. But, there is little doubt of its being the plant intended in the Kew Catalogue, under our title; it is there made biennial, which is its true character, as it does not flower the first year from seeds. It may be propagated by cuttings of the first year's growth; delights in a light sandy loam, and flowers in July or August. Our drawing was made in 1802, from a plant in the Hibertian Collection; which had been raised from seeds, sent the preceding year, from the Cape, by Mr. Niven.



Arctotis paradoxa.

Arctotis paradoxa, Kunth
Arctotis paradoxa, Kunth

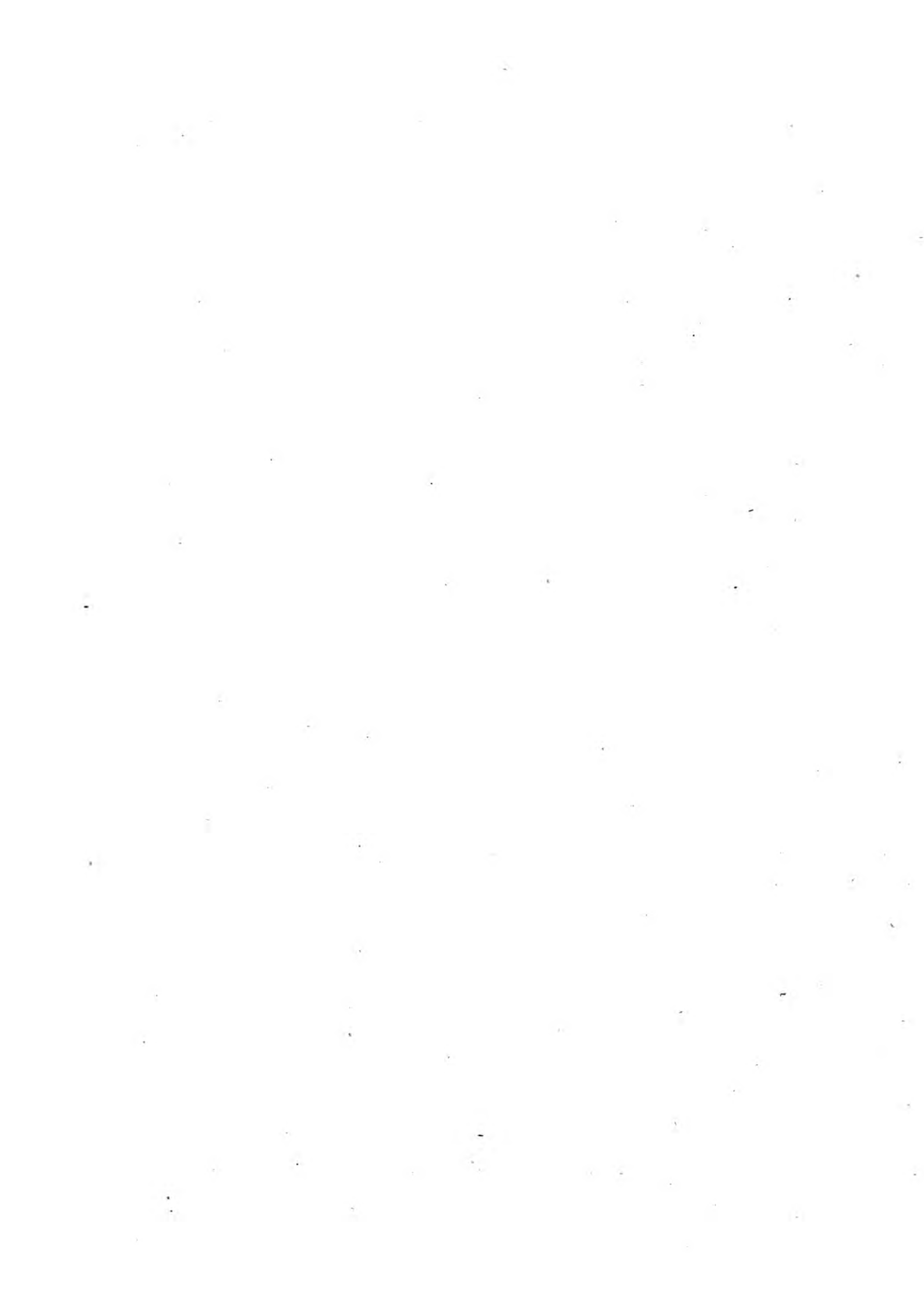


PLATE CCCLVIII.

AMARYLLIS BRASILIENSIS.

Braslian Lily-Daffodil.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|--|--|
| COROLLA 6-petala, campanulata. Stigma trifidum. | | BLOSSOM 6-petalled, bell-shaped. Summit three-cleft. See AMARYLLIS RADIATA, Pl. XCV. Vol. II. |
|---|--|--|

SPECIFIC CHARACTER.

| | | |
|---|--|---|
| Amaryllis, spatha bi-feu-triflora; petalis ovato-acuminatis, æqualibus, costatis, ad basin albidis, patentibus; genitalibus declinatis; foliis lineari-lanceolatis, acutis. | | Lily-Daffodil, sheath two or three flowered; petals egg-shape tapered, equal, ribbed, white at the base and spreading; parts of fructification bent downwards; leaves linear-lance-shaped, pointed. |
|---|--|---|

REFERENCE TO THE PLATE.

1. A petal with its Chive.
2. The Seed-bud, with part of the tube of the Blossom and partial Fruit-stalk.

THIS fine Lily, from the Brazils, can scarcely be thought more than a variety of *A. Reginae*; to which plant, both this, and the *A. equestris* of Mr. Curtis, may be referred without much flexion of the original species. We have, however, preserved the title under which it has been known since its introduction; which was, in the year 1798, by the late Marchioness of Bute, from Spain. Our drawing was taken from a plant in the collection of J. Vere, Esq. Kenfington Gore, in the month of October, 1803. It has all the merits of the most easily cultivated species of the genus; increasing freely by the bulb, growing with luxuriance in almost any earth, and requiring but little heat to make it flower.



Lycium brasiliensis

Handwritten text, possibly a signature or date.

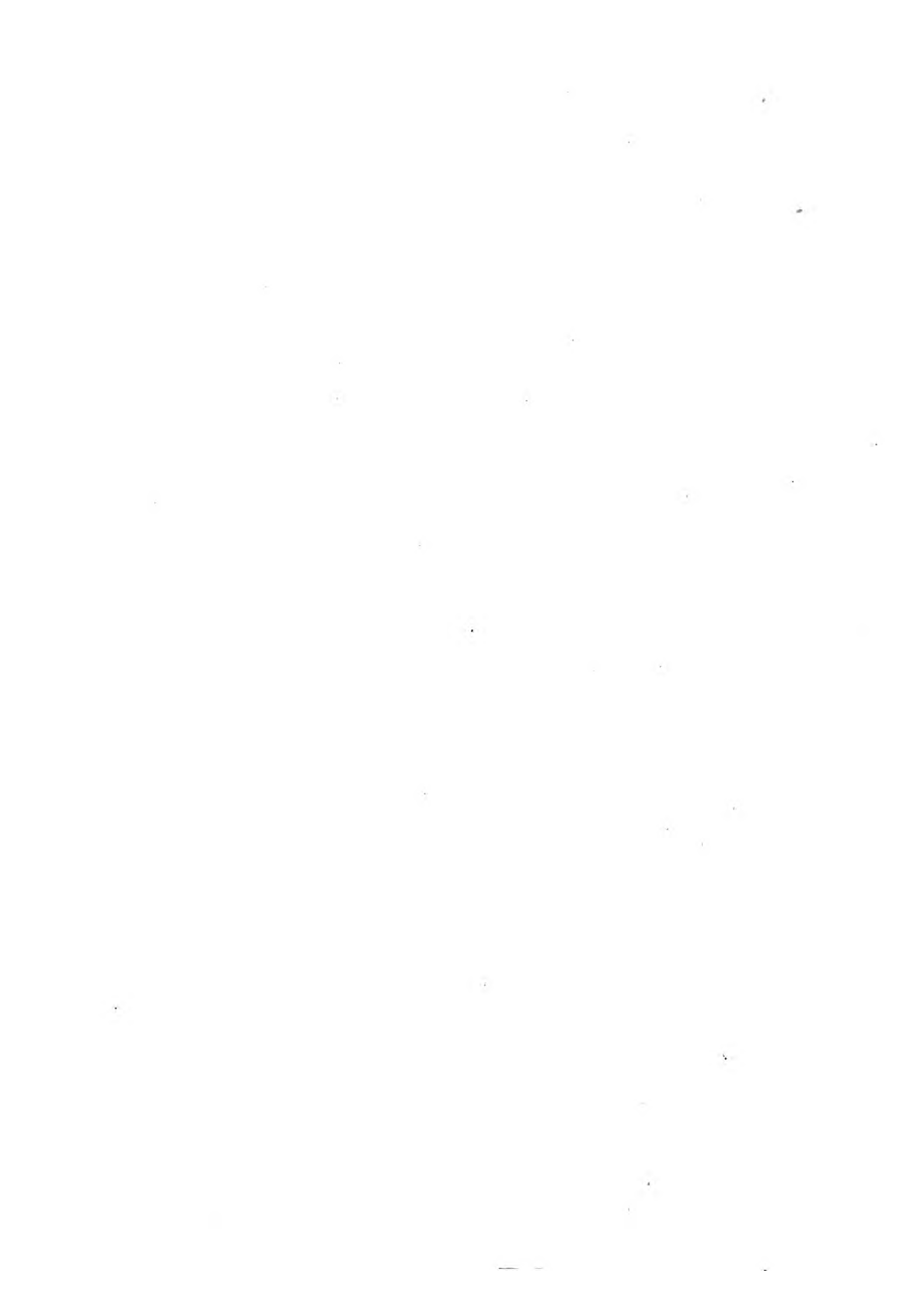




PLATE CCCLIX.
TAGETES LUCIDA.

Sweet Chili Marygold.

CLASS XIX. ORDER II.

SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous Pointals.

GENERIC CHARACTER.

CALYX *communis* simplicissimus, monophyllus, tubulosus, oblongus, pentagonus, quinque-dentatus.

COROLLA *composita* radiata; corollulæ hermaphroditæ tubulosæ, plures in disco elevato; femineæ ligulatæ quinque in radio.

Propria hermaphroditis tubulosa, femiquinquefida, erecta, calyce longior; laciniis linearibus, introrsum villosis.

Femineis ligulata, hermaphroditis longior, longitudine et latitudine fere æqualis, obtusissima, versus tubum angustior, tomentosa persistens.

STAMINA Hermaphroditis; filamenta quinque, capillaria, brevissima. Anthera cylindracea, tubulosa.

PISTILLUM *Hermaphroditis*; Germen oblongum. Stylus filiformis, longitudine staminum. Stigma bifidum, tenue, reflexum.

Femineis; germen oblongum. Stylus filiformis, longitudine hermaphroditis. Stigma bifidum, tenue, reflexum,

PERICARPIUM nullum. Calyx immutatus.

SEMINA Hermaphroditis solitaria, linearia, compressa, calyce paulo breviora. Pappus aristis quinque, erectis, acuminatis, inæqualibus.

Femineis similima hermaphroditis.

RECEPTACULUM nudum, planum.

EMPALEMENT *common*, quite simple, one leaf, tubular, oblong, five-sided, five-toothed.

BLOSSOM, *compound* raised; hermaphrodite florets tubular, numerous in an elevated center; females tongue-shaped five in the circumference.

Proper of the *Hermaphroditis*, tubular, half five-cleft, upright, longer than the cup; segments linear, hairy within.

Of the *Females* tongue-shaped longer than the hermaphroditis, of nearly the same length and breadth, very blunt, narrower towards the tube, downy, remaining.

CHIVES of the Hermaphroditis; five threads, hair-like, very short. Tip cylindrical, tubular.

POINTAL of the *Hermaphroditis*; seed-bud oblong. Shaft thread-shaped, the length of the chives. Summit two-cleft, slender, reflexed.

Of the *Females*; seed-bud oblong. Shaft thread-shaped, the length of the hermaphrodite. Summit two-cleft, slender, reflexed.

SEED-VESSEL none. Cup unchanged.

SEEDS of the Hermaphroditis solitary, linear, flat, a little shorter than the cup. Feather five awns, upright, tapered, unequal.

Of the *Females* like the hermaphroditis.

RECEPTACLE naked, flat.

SPECIFIC CHARACTER.

Tagetes caule herbaceo, erecto, floribus cymosis, parvis, luteis, odoratissimis.

Marygold with an upright, herbaceous stem; flowers in tufts, small, yellow, and very sweet scented.

REFERENCE TO THE PLATE.

1. The common Empalement.
2. A Floret of the circumference, with its seed-bud and pointal.
3. The same, magnified.
4. A Floret of the center, natural size.
5. The same, magnified.
6. A ripe seed, magnified.

THIS plant is a native of Chili, South America, and was sent to England by Dr. Ortega, from the Royal Gardens, Madrid, to the late Marchioness of Bute; who first raised it from seeds in the year 1798. It is perfectly herbaceous, but will flower the first year from the seed; will endure moderate frost, and may be considered as a hardy herbaceous plant. Is increased either by seeds, or by parting the roots; delights in a moderately stiff soil; flowering from July till November. If kept in a pot, the flowers, which are very fragrant, will continue in succession through the whole winter.

Tagetes minuta of Linnæus's Sp. Plant. Vol. II. p. 1250, quoted from his Hortus Cliffortianus, and Dillenius's Hortus Elthamensis, seems much affined to this plant; but, as that is annual, this cannot be considered as a variety of it.

Our drawing was taken at the Hammersmith Nursery.





Tagetes lucida

Tagetes lucida (Lam.) Link. & DC.
Pl. Mexic. Bot. Prodr. 1: 107. 1825.



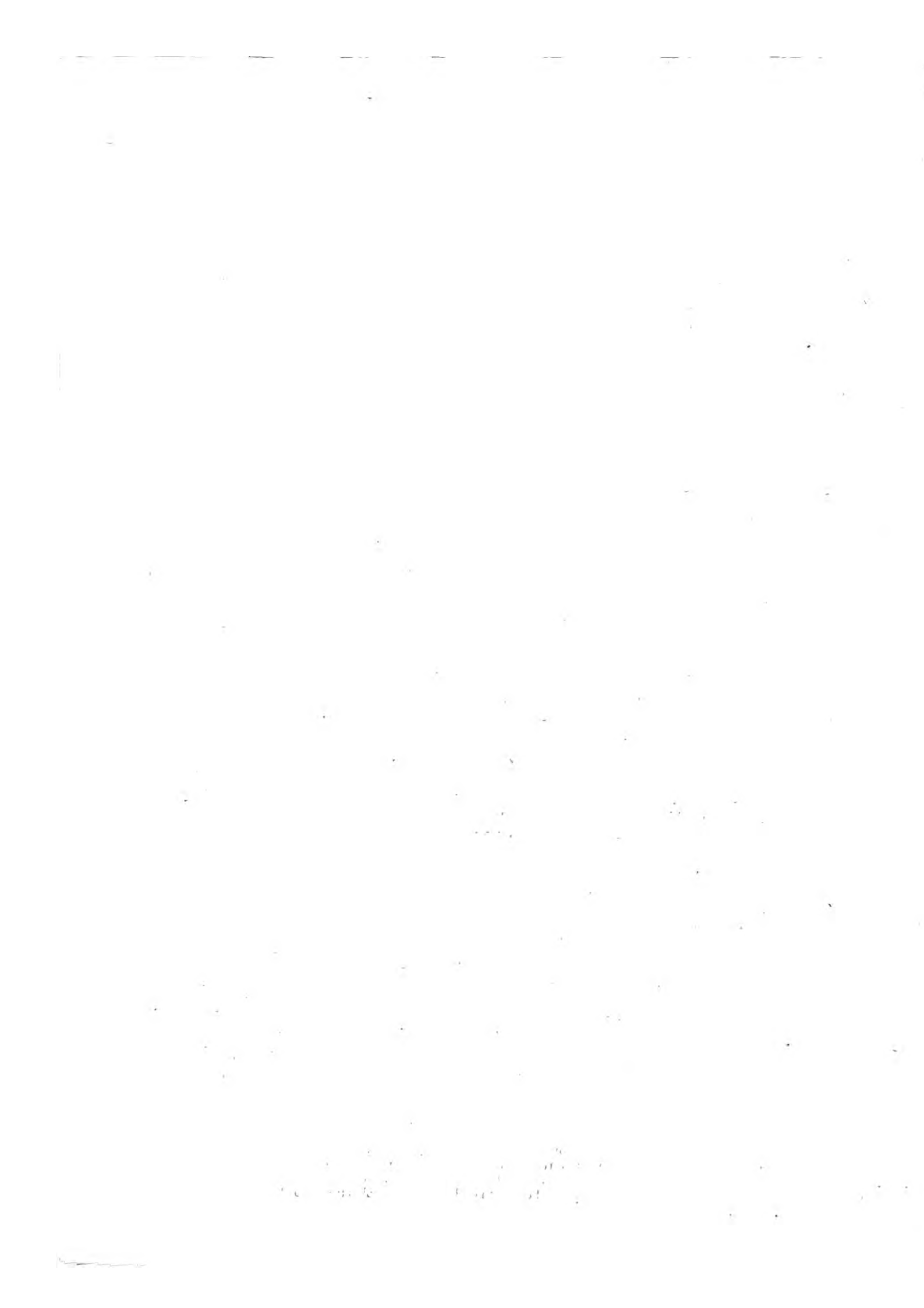


PLATE CCCLX.
RENEALMIA NUTANS.
Drooping-flowered Renealmia.

CLASS I. ORDER I.
MONANDRIA MONOGYNIA. One Chive. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium superum, monophyllum, apice rumpens in duo seu tres dentes irregulares.

COROLLA monopetala. Tubus rectus, cylindricus; limbus trifidus; laciniis duabus superioribus oblongis, rotundatis, æqualibus; inferiore superioribus vix longiore, canaliculata, oblonga.

Nectarium tubo corollæ adnatum, sub laciniis superioribus ascendens, rectum, longitudine corollæ, oblongum, basi utrinque unidentatum, tum sinu excavato, apice dilatatum et obtuse trilobatum.

STAMEN. Filamentum nullum. Anthera unica, fauci tubi inserta, in sinu laciniæ inferioris corollæ, nectario opposita, libera, recta, linearis, emarginata, interius sulco exarata, longitudine et latitudine laciniæ corollæ.

PISTILLUM. Germen inferum, oblongum, obfolete triquetrum, glabrum. Stylus filiformis, glaberrimus, erectus, longitudine corollæ. Stigma peltatum; capitulo plano; latere ad nectarium vergente truncato; perforato, foramine in stylum decurrente.

PERICARPIUM. Bacca oblonga, trifurca, teres, glabra, umbilico terminata; carnosa, in medio trilocularis. Loculamenta mollia, membranacea.

SEMINA plurima, oblonga, truncata, tetragona, glaberrima.

SPECIFIC CHARACTER.

Renealmia foliis vaginantibus; floribus racemosis terminalibus pendulis; fructu piloso.

EMPALEMENT. Cup above, one-leafed, breaking open into two or three irregular teeth.

BLOSSOM on petal. Tube straight, cylindrical; border three-cleft; the two upper segments oblong, rounded, equal; the lower one, scarcely longer than the upper ones, channelled, oblong.

Honey cup fixed to the tube of the blossom, ascending beneath the upper segment straight the length of the blossom, oblong one-toothed on each side of the base, then with a hollow bosom widening at the end and obtusely three-lobed.

CHIVE. Thread, none. Tip one inserted into the throat of the tube, in the bosom of the lower segment of the blossom, opposite to the honey-cup, free, straight, linear, notched at the end, grooved on the inside, of the same length and breadth as the segment of the blossom.

POINTAL. Seed-bud beneath, oblong, obscurely three-sided, smooth. Shaft thread-shaped, very smooth, upright the length of the blossom. Summit shield-shaped; with a flat head, the side fronting the honey-cup appearing cut off, perforated by a hole running into the shaft.

SEED VESSEL. Berry oblong, three-furrowed, cylindrical, smooth, terminated by a navel, fleshy in the middle, three-celled. Cells soft, skinny.

SEEDS numerous, oblong, appearing cut off, four-cornered, very smooth.

Renealmia with sheathing leaves; flowers in bunches terminating the branches, hanging down, fruit hairy.

REFERENCE TO THE PLATE.

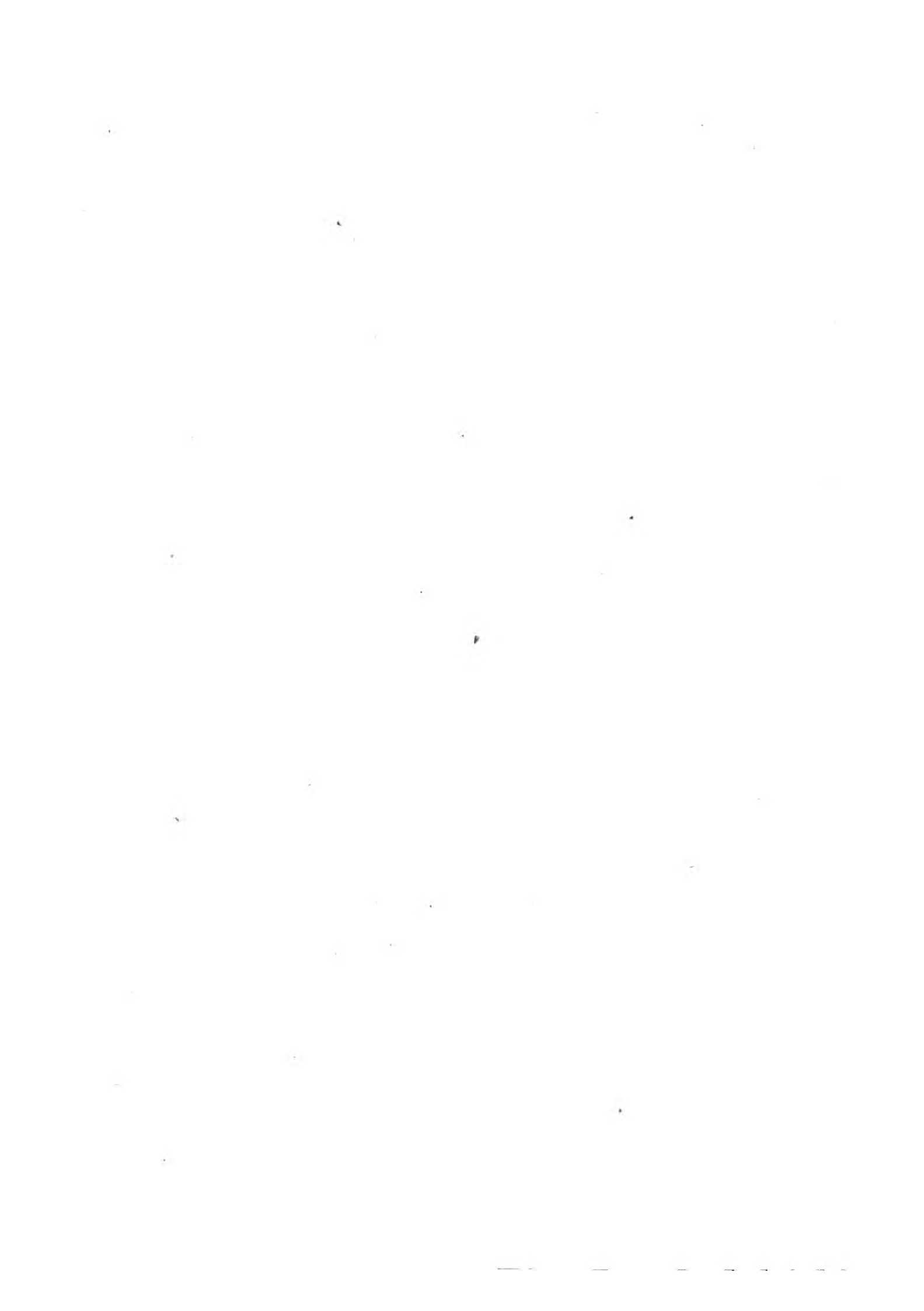
1. A miniature representation of the plant.
2. The outer sheath of the blossom.
3. A flower complete.
4. The Honey-cup.
5. The Chive, Pointal, and Seed-bud.
6. The Pointal and Seed-bud cleared of the small inner sheath which surrounds the base of the chive and shaft; with the summit detached and magnified.
7. One of the small corpusculæ which embrace the base of the shaft, magnified.
8. The small sheath which crowns the seed-bud, magnified.
9. The Seed-bud, cut transversely, magnified.

AMONGST the numerous new plants introduced from China by the late Mr. Slater, of Laytonstone, in the year 1793, this is certainly to be considered as amongst the most beautiful. The only drawback to its general merit, as a hot-house plant, is the great height to which it might attain before it flowers; being in common fourteen or fifteen feet. It propagates by offsets, and is kept with little trouble; as it will flourish in almost any soil, and will flower, if set in any part of the hot-house, so as not to interrupt its growth, the blossoms being produced only from the summit. Although with us the stem is permanent, as with some others of the same natural habit, yet it cannot, we think, with propriety be considered as either a tree or shrub, but rather herbaceous. Some contention, at first, arose whether this plant should be referred to the present Genus; which was formed, by the younger Linnæus, from a plant a native of Surinam, S. America, some of the parts not exactly corresponding, especially the fruit; we have nevertheless made no scruple in placing it to that Genus, with which, upon an inspection of the dissections, it will be found very well to accord. Our figure was taken from a plant which flowers, annually, in the month of July, in the Collection of J. Vere, Esq. Kennington Gore.



nealmia nutans.

March 1840



Vol. VI.

Of the
Botanists Repository

Comprising,

Colour'd Engravings

of
New and Rare Plants

ONLY

With Botanical Descriptions &c.

in

Latin and English,

after the

Linnæan System,

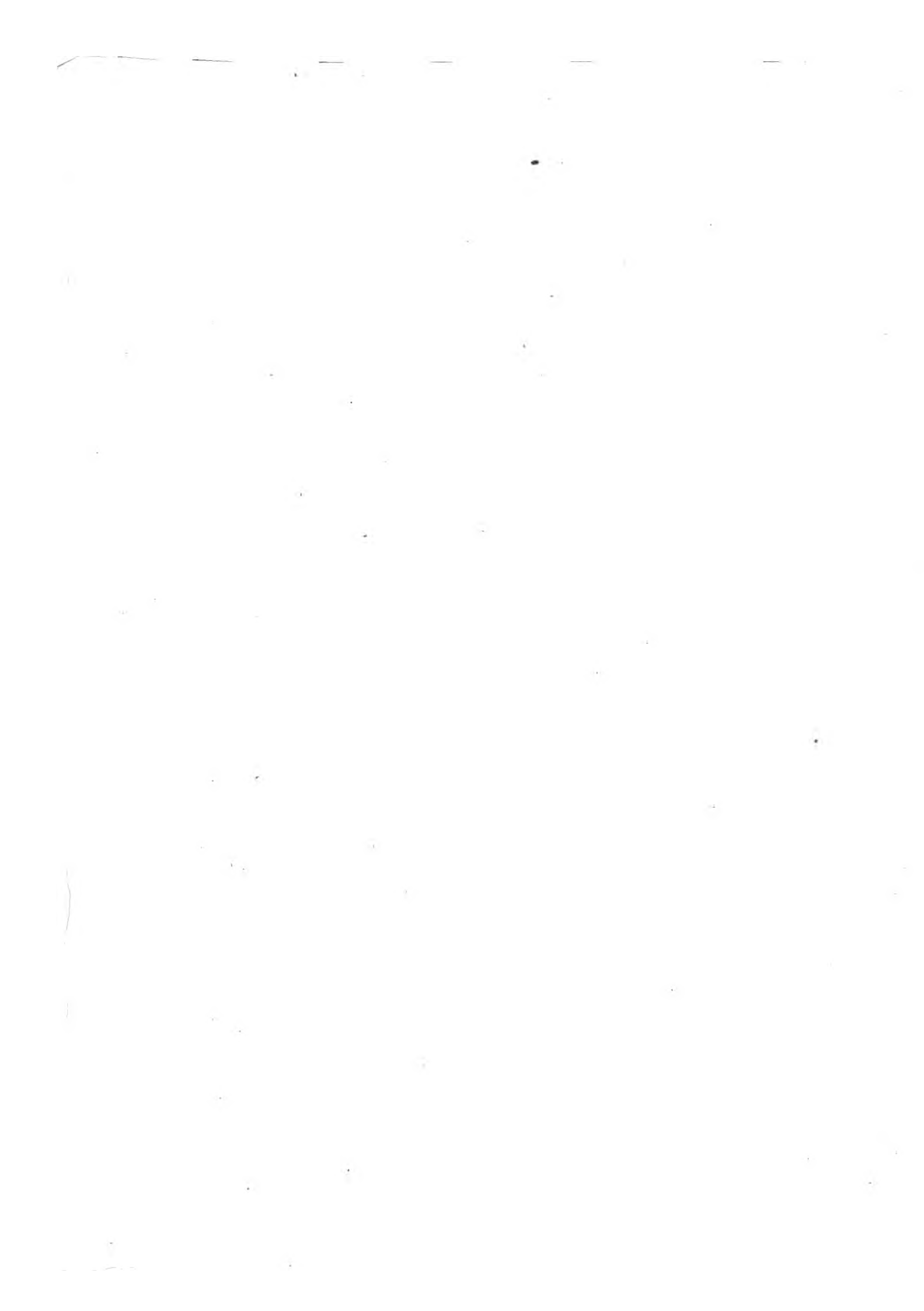
by

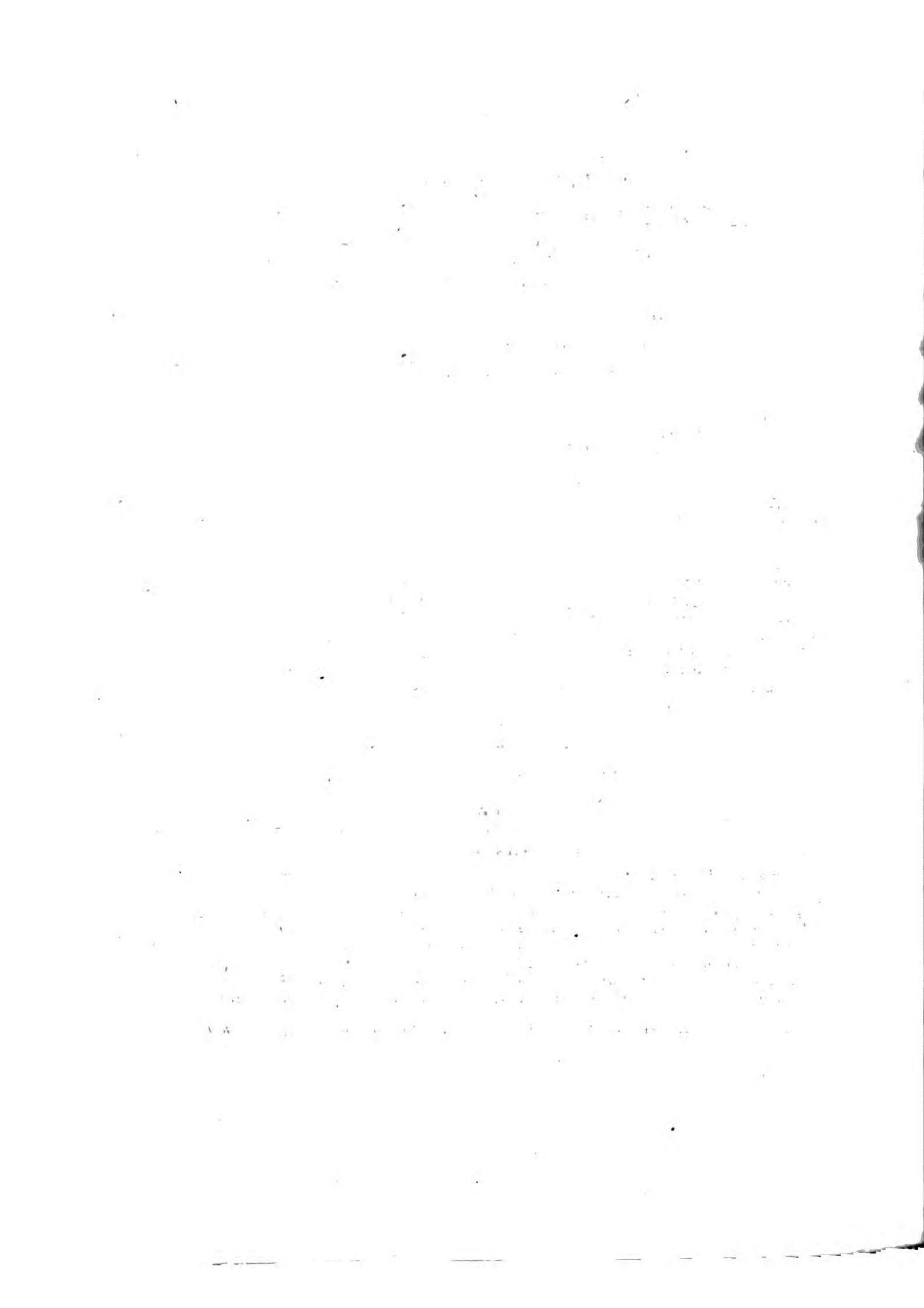
W. Andrews

Botanical Painter & Engraver



Handwritten text, possibly bleed-through from the reverse side of the page. The text is extremely faint and illegible due to low contrast and blurring. It appears to be organized into several paragraphs or sections, but the specific words and sentences cannot be discerned.







Sansiviera carnea

at the ...
of the ...

PLATE CCCLX.
RENEALMIA NUTANS.
Drooping-flowered Renealmia.

CLASS I. ORDER I.
MONANDRIA MONOGYNIA. One Chive. One Pointal.

GENERIC CHARACTER.

CALYX. Perianthium superum, monophyllum, apice rumpens in duo seu tres dentes irregulares.

COROLLA monopetala. Tubus rectus, cylindricus; limbus trifidus; laciniis duabus superioribus oblongis, rotundatis, æqualibus; inferiore superioribus vix longiore, canaliculata, oblonga.

Nectarium tubo corollæ adnatum, sub laciniis superioribus ascendens, rectum, longitudine corollæ, oblongum, basi utrinque unidentatum, tum sinu excavato, apice dilatatum et obtuse trilobatum.

STAMEN. Filamentum nullum. Anthera unica, faucibus tubi inserta, in sinu laciniæ inferioris corollæ, nectario opposita, libera, recta, linearis, emarginata, interius sulco exarata, longitudine et latitudine laciniæ corollæ.

PISTILLUM: Germen inferum, oblongum, obsolete triquetrum, glabrum. Stylus filiformis, glaberrimus, erectus, longitudine corollæ. Stigma peltatum; capitulo plano; latere ad nectarium vergente truncato, perforato, foramine in stylum decurrente.

PERICARPIUM. Bacca oblonga, trifurca, teres, glabra, umbilico terminata; carnosa, in medio trilocularis. Loculamenta mollia, membranacea.

SEMINA plurima, oblonga, truncata, tetragona, glaberrima.

EMPALEMENT. Cup above, one-leaved, breaking open into two or three irregular teeth.

BLOSSOM on petal. Tube straight, cylindrical; border three-cleft; the two upper segments oblong, rounded, equal; the lower one, scarcely longer than the upper ones, channelled, oblong.

Honey cup fixed to the tube of the blossom, ascending beneath the upper segment straight the length of the blossom, oblong one-toothed on each side of the base, then with a hollow bosom widening at the end and obtusely three-lobed.

CHIVE. Thread, none. Tip one inserted into the throat of the tube, in the bosom of the lower segment of the blossom, opposite to the honey-cup, free, straight, linear, notched at the end, grooved on the inside, of the same length and breadth as the segment of the blossom.

POINTAL. Seed-bud beneath, oblong, obscurely three-sided, smooth. Shaft thread-shaped, very smooth, upright the length of the blossom. Summit shield-shaped; with a flat head, the side fronting the honey-cup appearing cut off, perforated by a hole running into the shaft.

SEED VESSEL. Berry oblong, three-furrowed, cylindrical, smooth, terminated by a navel, fleshy in the middle, three-celled. Cells soft, skinny.

SEEDS numerous, oblong, appearing cut off, four-cornered, very smooth.

SPECIFIC CHARACTER.

Renealmia foliis vaginantibus; floribus racemosis terminalibus pendulis; fructu piloso.

Renealmia with sheathing leaves; flowers in bunches terminating the branches, hanging down, fruit hairy.

REFERENCE TO THE PLATE.

1. A miniature representation of the plant.
2. The outer sheath of the blossom.
3. A flower complete.
4. The Honey-cup.
5. The Chive, Pointal, and Seed-bud.
6. The Pointal and Seed-bud cleared of the small inner sheath which surrounds the base of the chive and shaft; with the summit detached and magnified.
7. One of the small corpusculæ which embrace the base of the shaft, magnified.
8. The small sheath which crowns the seed-bud, magnified.
9. The Seed-bud, cut transversely, magnified.

AMONGST the numerous new plants introduced from China by the late Mr. Slater, of Laytonstone, in the year 1793, this is certainly to be considered as amongst the most beautiful. The only drawback to its general merit, as a hot-house plant, is the great height to which it might attain before it flowers; being in common fourteen or fifteen feet. It propagates by offsets, and is kept with little trouble; as it will flourish in almost any soil, and will flower, if set in any part of the hot-house, so as not to interrupt its growth, the blossoms being produced only from the summit. Although with us the stem is permanent, as with some others of the same natural habit, yet it cannot, we think, with propriety be considered as either a tree or shrub, but rather herbaceous. Some contention, at first, arose whether this plant should be referred to the present Genus; which was formed, by the younger Linnæus, from a plant a native of Surinam, S. America, some of the parts not exactly corresponding, especially the fruit; we have nevertheless made no scruple in placing it to that Genus, with which, upon an inspection of the dissections, it will be found very well to accord. Our figure was taken from a plant which flowers, annually, in the month of July, in the Collection of J. Vere, Esq. Kenfington Gore.



Nothofagus nutans.

... .. March 1841

Vol. VI.

Of the
Botanists Repository

Comprising,

Colour'd Engravings

of
New and Rare Plants

ONLY

With Botanical Descriptions &c.

in

Latin and English.

after the

Linnæan System,

by

Wm. Andrews

Botanical Painter & Engraver



Handwritten text, possibly bleed-through from the reverse side of the page. The text is extremely faint and illegible due to low contrast and blurring. It appears to be a list or a series of notes, with some words like "Chemistry" and "Physics" possibly visible.

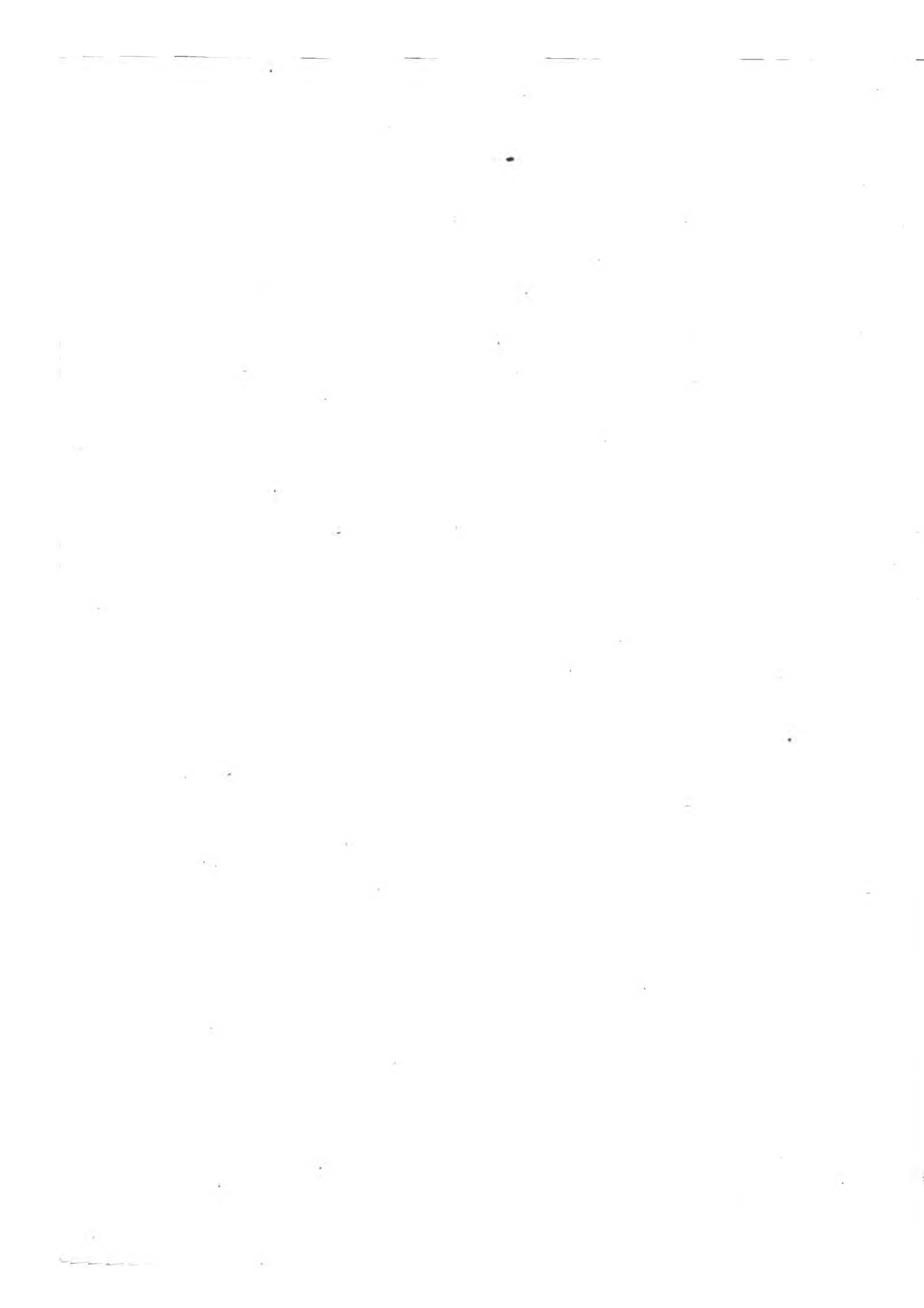


PLATE CCCLXI.
SANSEVIERA CARNEA.
Flesh-coloured Sansevieria.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|-----------|--|
| <p>COROLLA infera monopetala, tubo filiformi, limbo, 6-partito, revoluta. Stamina limbo inferta. Bacca 1-sperma.</p> | <p> </p> | <p>COROLLA beneath of one petal, with a thread-shaped tube, and 6-parted revolute limb. Threads inserted into the limb. Berry one seeded.</p> |
|---|-----------|--|

SPECIFIC CHARACTER, &c.

| | | |
|--|-----------|---|
| <p>Sansevieria. Foliis distichis, lanceolato-enfiformibus, carinatis, floribus solitariis sessilibus.</p> | <p> </p> | <p>Sansevieria. With leaves two-ranked, lance-shaped, keeled, flowers solitary, sessile.</p> |
|--|-----------|---|

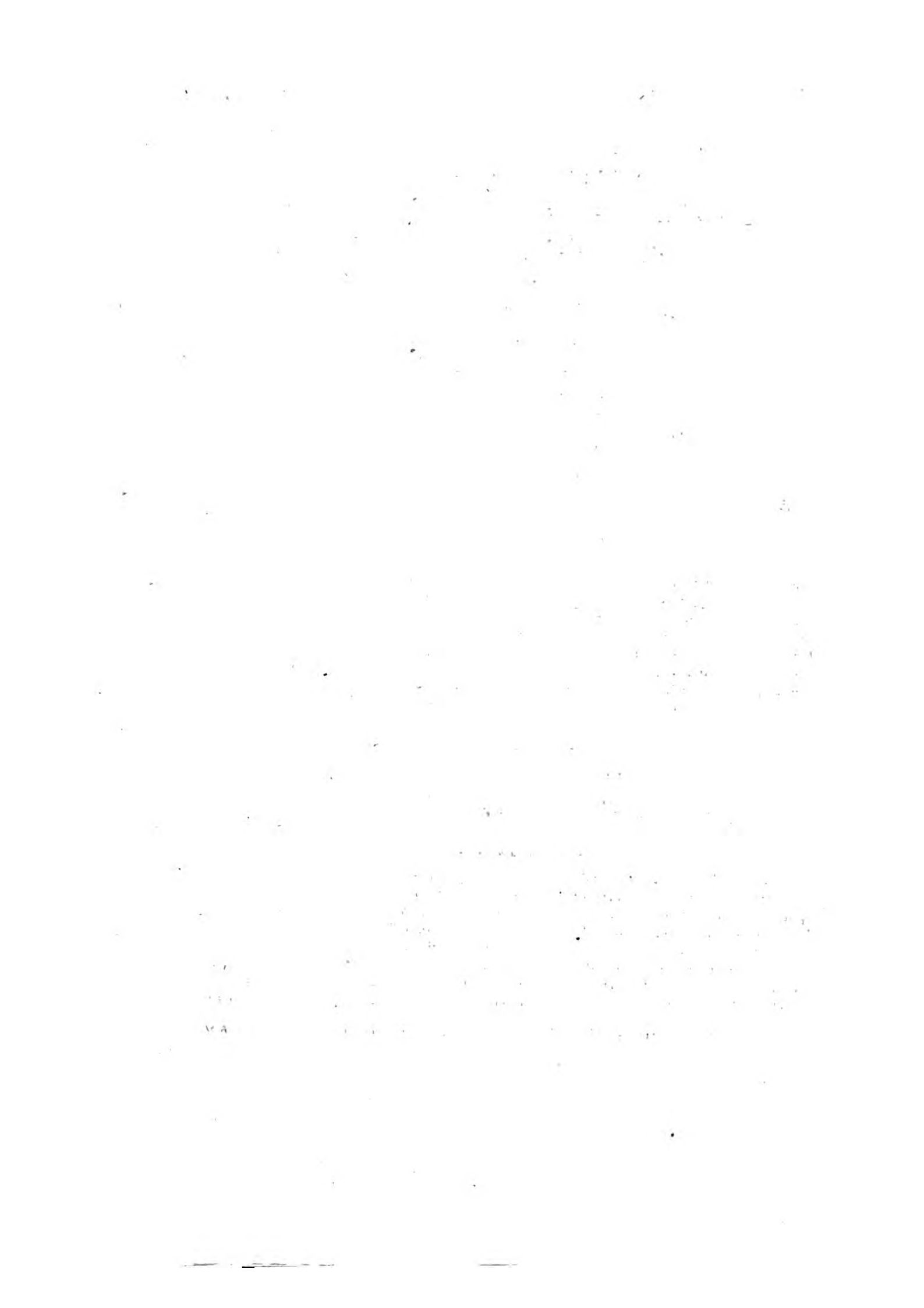
DESCRIPTIO. Herba perennis, habitu Hemerocallidis. *Radix* subcarnosus, fibris longissimis subsimplicibus. *Folia* radicalia, subdisticha, effusa, lanceolato-enfiformia, fere pedalia, trinervia, (nervo medio carinæformi) basin imbricata et profunde canaliculata, marginibus apices versus asperiusculis. *Scapus* radicalis, et quasi lateralis, palmaris, suberectus, angulatus, superne carneus. *Flores* spicati, ascendentes, sessiles, alterni, carnei, intus pallidiores. *Bractæ* ovato-acuminatæ, concavæ, carneæ, flores amplectentes. *Corolla* 6-partita, tubo angulato longitudine bractearum; laciniis revolutis sublancoatis, tubo aliquo longioribus, supremâ paulo majore. *Filamenta* 6 æqualia, alba, basi laciniarum inferta, laciniis aliquo brevioribus. *Antheræ* erectæ, utrinque emarginatæ, sulphuræ. *Stylus* carneus, paulo declinatus, antheris vix superans. *Stigma* obtusum album, obsolete trilobatum.

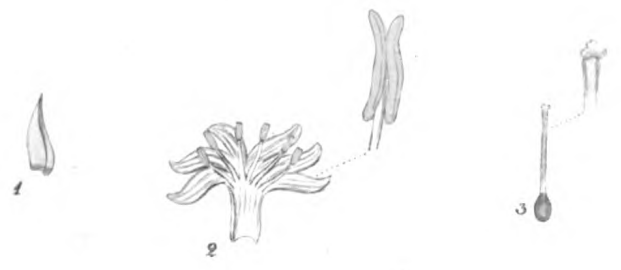
REFERENCE TO THE PLATE.

1. A floral leaf.
2. The flower cut open, with one of the tips magnified.
3. The Pointal and Seed-bud, and the summit magnified.

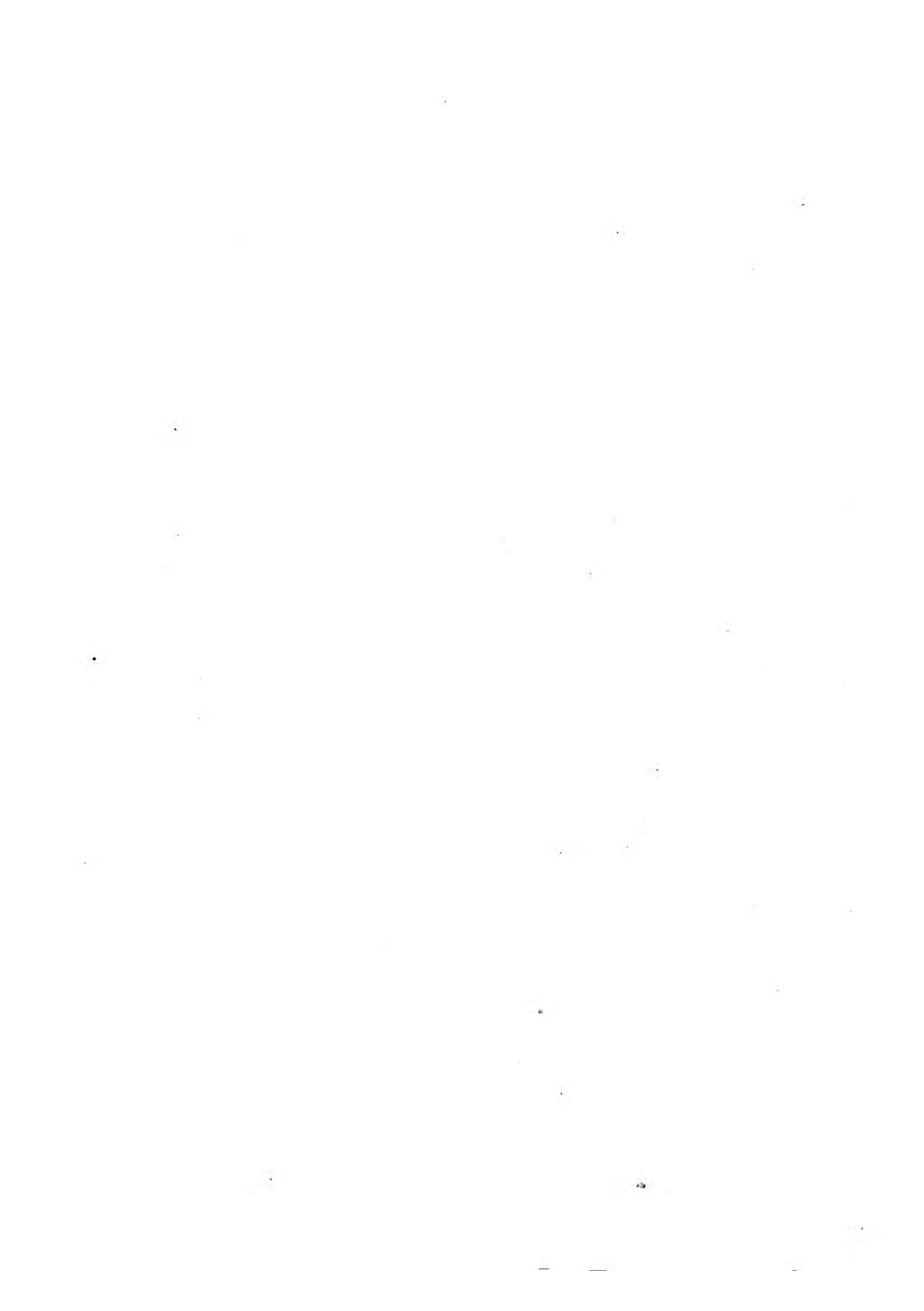
THIS new species, of Thunberg's new genus *Sansevieria*, which is a branch of the Linnæan genus *Aletris*; was introduced into this country from China, by T. Evans, Esq. of Stepney; in the year 1792: but is still very rare. Our drawing was made from a fine plant in the collection of J. Vere, Esq. of Kensington Gore, in the month of March *. Mr. Anderson, his botanic gardener, informs us, he has treated it as a hothouse plant; but it will probably be found to succeed better in the greenhouse, like other Chinese plants. It is propagated by parting the roots. In habit it resembles *Hemerocallis* more than *Sansevieria*, but agrees with the generical characters of *Sansevieria zeylanica*. With *Aletris fragrans* it also agrees in many particulars; but with *Aletris farinosa* is quite at variance.

* A root of it, (lately parted from the individual here figured,) flowered at Messrs. Grimwood and Wykes's, in February.





Sansiviera carnea



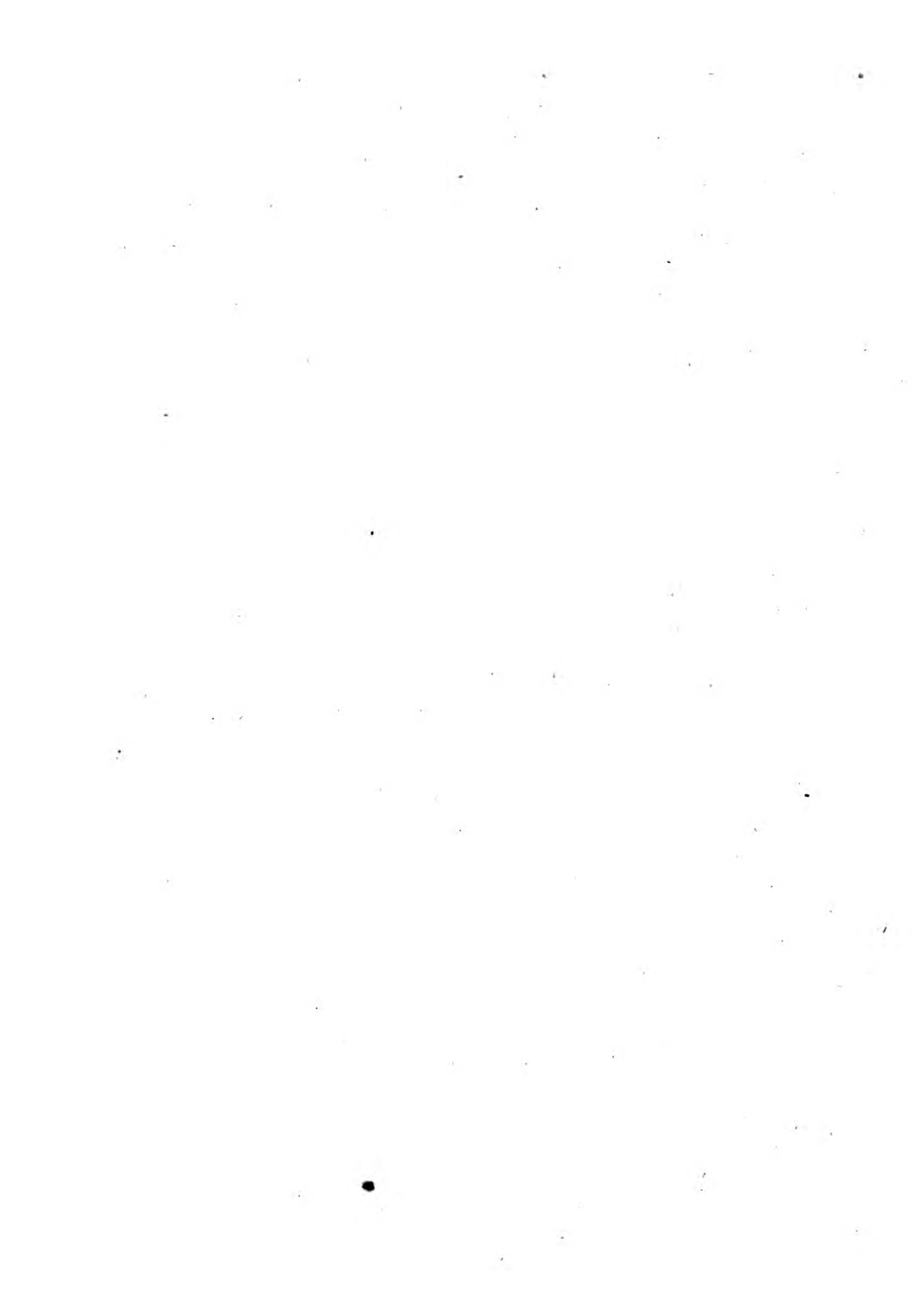


PLATE CCCLXII.

CROCUS BIFLORUS.

Yellow-bottomed White Crocus.

CLASS III. ORDER I.

TRIANDRIA MONOGYNIA. Three Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA, supera, 6-partita, subæqualis, erecto-
patula, tubo longissimo subterraneo.

|| COROLLA, above, 6-parted, nearly equal, erect-
expanding, with a very long subterraneous
tube.

SPECIFIC CHARACTER, &c.

Crocus, foliis angustissimis effusis floribus sem-
per longe superantibus.

|| Crocus, with very narrow diffused leaves, which
are always much higher than the flowers.

DESCRIPTIO. *Radix* tunicis glabris cochleariformibus. *Folia*, tempore florendi, longissima omnium, magisque effusa. *Spathæ* sæpe 2-floræ, ut in plurimis. *Flores* vernaes, albæ, magnæ; fundo intus fordide flavo, extus aliquo olivaceo; tubo pergracili, depilato; petalis 3 exterioribus, extus tincturâ flavedinis, et purpureo elegantissime plumoso-friatis. *Filamenta antheræque* erectæ, luteæ. *Stylus* percroceus. *Stigmata* itidem percrocea, antheris vix superantia. *Haworth's Crocus inedit.*

REFERENCE TO THE PLATE.

1. The outer sheath of the flower.
2. The inner.
3. The flower cut open.

THIS beautiful Crocus is unquestionably distinct as a species, and has never been noticed by any systematic writer except Miller; who has described it accurately under the name of *biflorus*, in the 8th edition of his celebrated Dictionary. It is very hardy, flowers early in February, and may be readily distinguished from other Crocuses by its leaves being much longer than the flowers, at the time of flowering. When the sun shines strong, the flowers have a just perceptible fragrant scent; a circumstance very unusual in this genus; all the other species, (one we call *fragrans* excepted) having more or less of an unpleasent smell. It seldom produces seeds in this country, or varies in colour; but increases by the root.



Crocus biflorus

Full as the ...
with ...

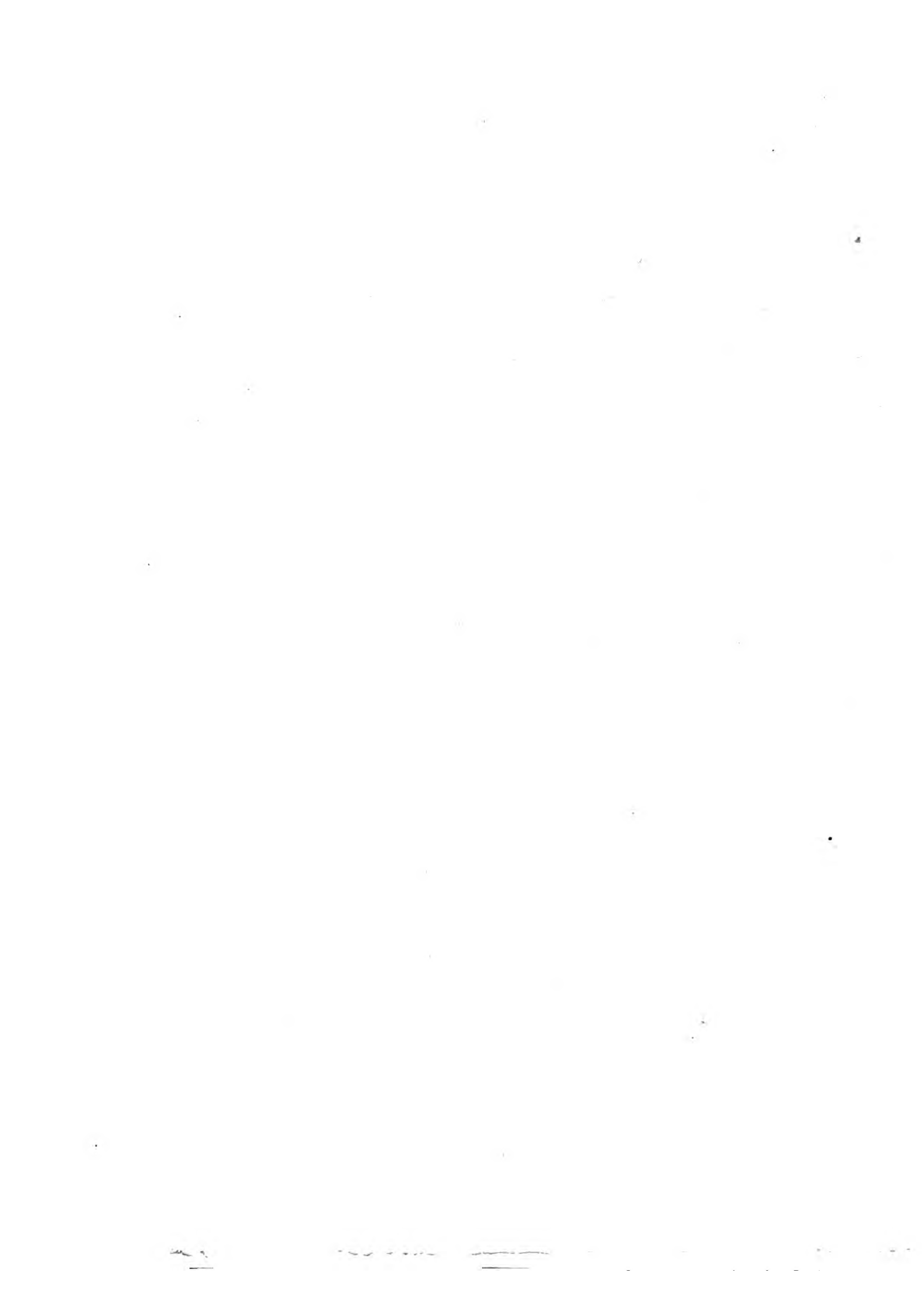


PLATE CCCLXIII.
POLYGALA STIPULACEA.

Stipuled Milkwort.

CLASS XVII. ORDER III.

DIADELPHIA OCTANDRIA. Two Brotherhoods. Eight Chives.

ESSENTIAL GENERIC CHARACTER.

CALYX 5-phyllus: foliolis duobus alæformibus, coloratis. Legumen obcordatum, biloculare. || CUP 5-leaved, with two of the leaves like wings, coloured. Pod inverse heart-shaped, two-celled.

SPECIFIC CHARACTER, &c.

Polygala. Floribus imberbibus lateralibus, caule suffruticoso, foliis ternis linearibus acutis. || Polygala. With beardless lateral flowers, a shrubby stem, and ternate, linear, acute leaves.
Willd. Sp. pl. 892.

DESCRIPTIO. *Suffrutex*, ramulis subdivaricatis, filiformibus, elongatis, pubescentibus. *Folia* fasciculata, linearia, obsolete mucronata, 3-6 in singulo fasciculo; infimo latiore, breviora, stipuliforme. *Flores* P. Heisteriæ, at minores, axillares, solitarii, vel subinde binati; sessiles.

REFERENCE TO THE PLATE.

1. The Empalement.
2. The same magnified.
3. The Keel magnified.
4. One of the wings.
5. The same magnified.
6. The Chives.
7. The same magnified.
8. The Pointal magnified.

A RARE Cape species recently introduced to the Hibbertian Collection, where our drawing was taken last summer. It is a greenhouse shrub of the more delicate kind; and is propagated, but not very readily, by cuttings.

In the structure of the flowers this species agrees exactly with the common Polygala Heisteria, which Linnæus originally made a distinct genus from Polygala; but afterwards united them. In keeping them distinct we think he did right; but wrong in uniting them. Our readers will have an opportunity of judging for themselves in our next number, in which will be figured a true Polygala, and another of the Heisteria family; with proper dissections of each.

Heisteria was named by Linnæus in honour of the celebrated German surgeon Heister.



Polygala stipulacea



PLATE CCCLXIV.
IRIS PAVONIA.
The Peacock-Iris.

CLASS III. ORDER I.
TRIANDRIA MONOGYNIA. Three Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 6-partita: laciniis alternis reflexis. || COROLLA 6-parted: with the alternate segments
Stigmata petaliformia. || reflexed. The stigmas petal-shaped.

SPECIFIC CHARACTER, &c.

Iris. Imberbis, folio lineari glabro, scapo sub- || Iris. Beardless, with a linear smooth leaf, and
unifloro. || a usually one-flowered stem.

Iris Pavonia Willd. Sp. Pl. I. 238.

Jacq. Coll. Sup. p. 8, Descriptione optimâ.

REFERENCE TO THE PLATE.

1. The outer Sheath of the Flower.
2. The inner one.
- 3 The Seed-bud, Chives and Pointal as they stand in the Flower.
4. The Chives spread open.
5. The Pointal.

THIS splendid but fugitive plant, is strikingly emblematic of the short duration of superior beauty: its flower is but the transient object of a day; and its whole life in Europe seldom exceeds a single year!

The Peacock-Iris, notwithstanding its attractions, is but imperfectly understood by the Botanists and Horticulturists of this country; for while the latter have been unsuccessful in cultivating it: some of the former have privately considered it as a new Genus: some have referred it to *Iris*, *Morea*, or *Ferraria*; others with more propriety to De la Roche's Genus *Vieuffeuxia*; and the usually accurate Curtis mistook and figured the widely-different *Iris tricuspis* for it.

The English Gardens have several times possessed this charming species, but we are afraid it is at present entirely lost to them. Our figure therefore, taken from the Hibbertian collection some time since, cannot fail to be highly acceptable to all lovers of plants.

In root *Iris Pavonia* resembles other Cape Irides; but the varying lustres of its brilliant flowers are seldom equalled; and not much excelled by any plant we ever saw. It is a native of the Cape, flowers early in Spring; and must be treated like the other bulbous species from that country.



Iris pavonia

Handwritten text at the bottom right corner, likely a signature or date.



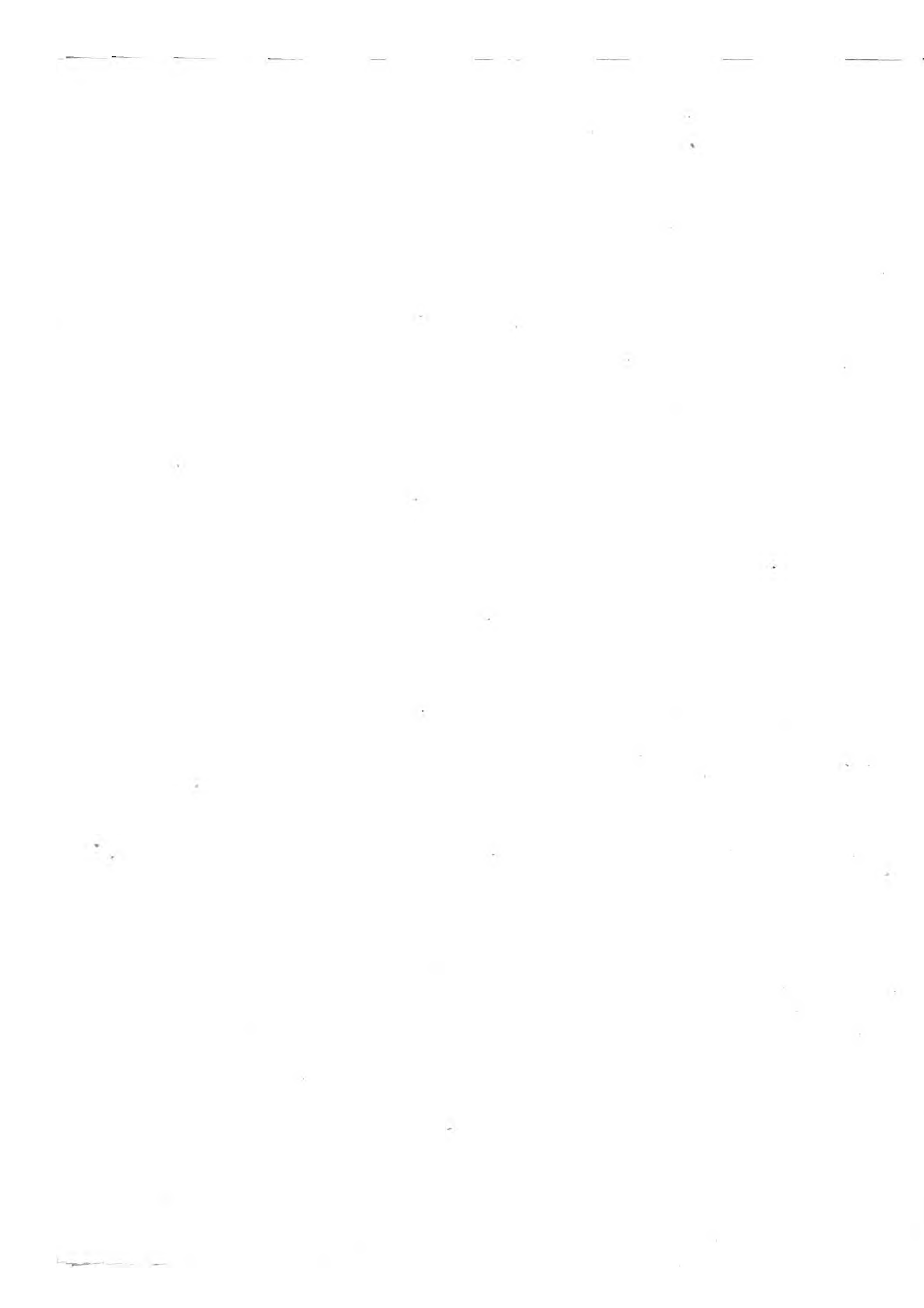


PLATE CCCLXV.
SCILLA SIBERICA.

Siberian Squill.

CLASS VI. ORDER I.
HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 6-petala, patens, decidua. Filamenta filiformia. || COROLLA 6-petaled, expanding, deciduous. Filaments thread-shaped.

SPECIFIC CHARACTER, &c.

Scilla, tetraphylla, scapis plurimis femiteretibus, striatis, bifloris, post florescentiam decumbentibus. || Scilla, four-leaved, with many semicylindrical, scored, two-flowered stalks, which after flowering are decumbent.

DESCRIPTION. *Radix* bulbosus, magnus pro ratione magnitudinis plantæ. *Folia* in bulbis senectis, sæpius 4, latiuscula, aliquo striatula, parum recurvata, apice obcuneata et subinvoluta. *Scapi* 3-5: 1-2, vel rarissime 3-flori, inæquales, semicylindrici, valde striati, lucidi, vix palmares, superne atro-cærulefcentes. *Pedunculi* alterni, remoti, difformes, 1-6 lineares, basi bibracteati, erecti, apice nutantes, vel cernui, uniflori, atro-cærulefcentes. *Bracteæ* difformes, parvulæ, inferne purpurafcentes, superne albæ et membranacæ. *Corolla* hexapetala, nutans, vel cernua, campanulata. *Petala* sublanccolata, obtufa, concavo-incurva, lætiffime cærulea; intus pallidiora, basi albicantia, costâ utrinque saturatiore. *Filamenta* 6, filiformia, compressa, alba, superne profunde cærulea, petalis duplo breviora. *Antheræ* majusculæ æruginosa. *Germen* pallidum, subrotundum, 6-fulcatum, fulcis alternis profundioribus. *Stylus* antheris superans, decumbens, basi albus, superne azureus. *Stigma* obsoletiffimum.

REFERENCE TO THE PLATE.

1. The Flower spread open, with one Chive magnified.
2. The Pointal and Seed-bud, the Summit magnified.

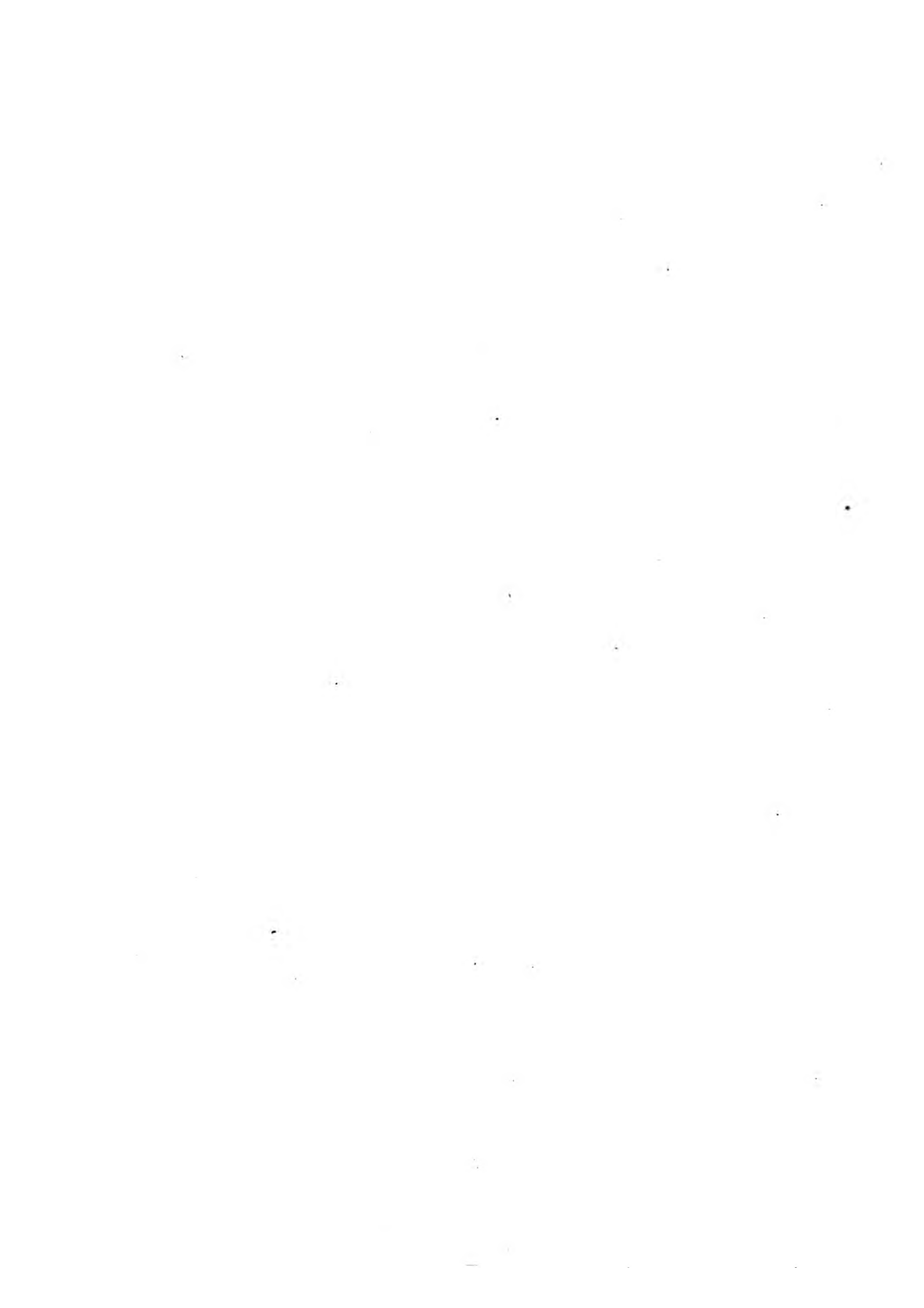
THIS nondescript and beautiful species of the genus *Scilla*, is allied to *Scilla præcox* of Willdenow; but appears to differ in too many particulars, to admit of their being united. It is a native of Siberia, increases slowly by the root, but sometimes ripens seeds in this country. It commences flowering in the beginning of February, before the common *Scilla bifolia*; but continues in beauty long after that plant is past; and although perfectly hardy, its flowers are liable to be injured by strong frosts, unless occasionally protected.

It thrives well in a light soil, and warm situation; but, like all dwarf plants, appears to most advantage in a pot: and indeed, succeeds best with the treatment usually given to alpine plants.



lla siberica

Handwritten text, likely a signature or date, located in the bottom right corner.



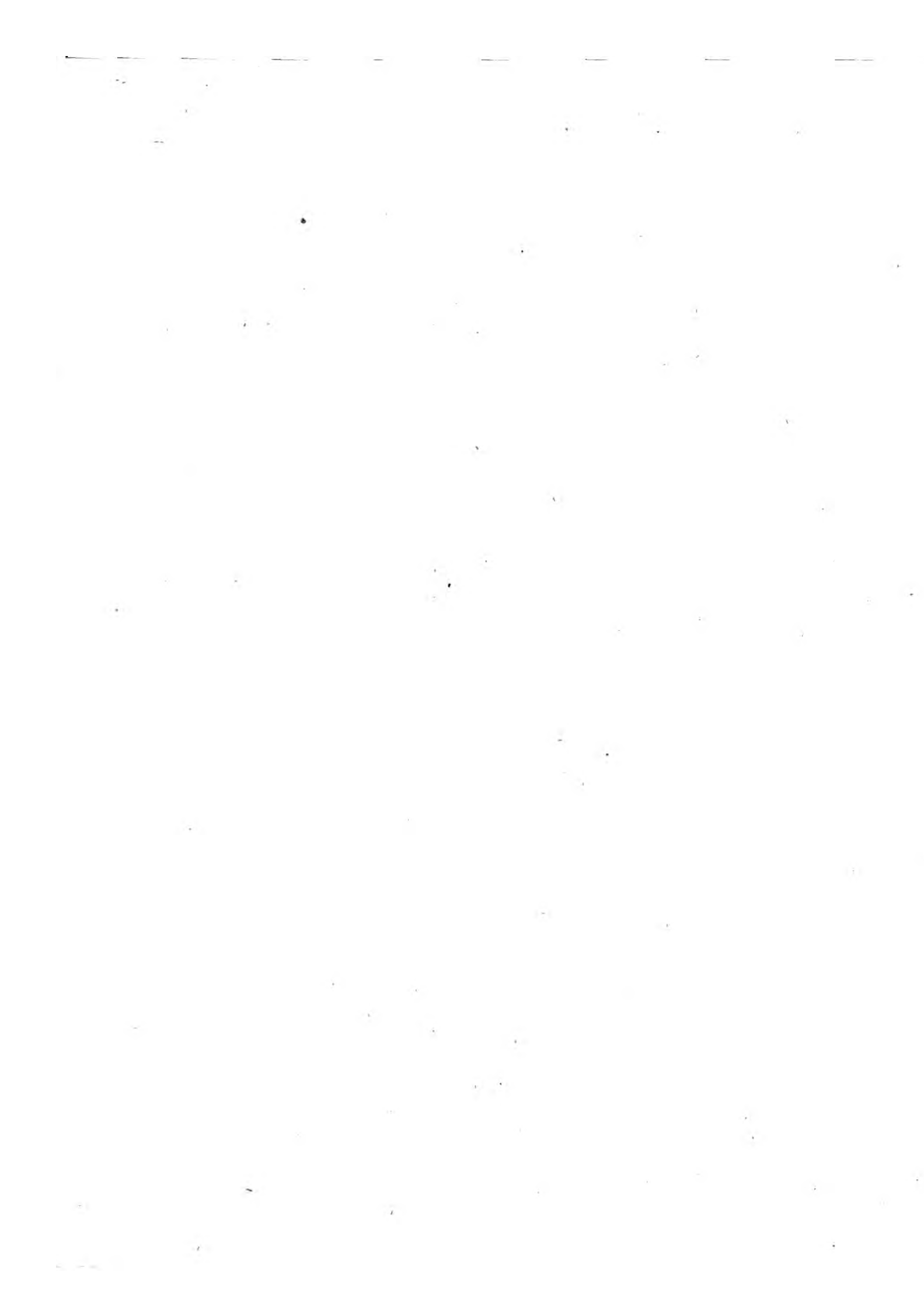


PLATE CCCLXVI.

GERANIUM BARBATUM. *Var. Undulatum.*

Bearded-leaved Geranium. *Var. Waved-petalled.*

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus rotatus, pentacoccus. || ONE POINTAL. Five summits. Fruit furnished with long awns, five dry berries.

SPECIFIC CHARACTER, &c.

Geranium. Foliis pinnatis, incisuris pinnarum aristatis barbatisque, petalis omnibus flavicantibus, rubro-notatis undulatisque. || Geranium. With winged leaves, the segments aristated and bearded, all the petals yellowish, marked with red, and undulated.

DESCRIPTIO. Pinnæ foliorum inæqualiter incisæ, incisuris acuminatis, barbatisque. Scapus ramosus. Flores umbellati. Petala omnia linearia, obtusa, elongata, recurvata, valde undulata, flavicantia, basi fere ad medium lætissime rubra. Stamina fertilia quinque.

REFERENCE TO THE PLATE.

1. The Empalement.
2. The Chives and Pointal.
3. The same magnified.
4. The Pointal magnified.

THIS plant was sent from the Cape to the collection of George Hibbert, Esq. at Clapham, where our drawing was taken in September; it is no more than a variety, although a very beautiful one, of the *Geranium barbatum* of this work, of which one variety has already been figured on plate 323. It is a green-house plant, and requires the same treatment as the other tuberous rooted species.



anum barbatum var. *undulatum*

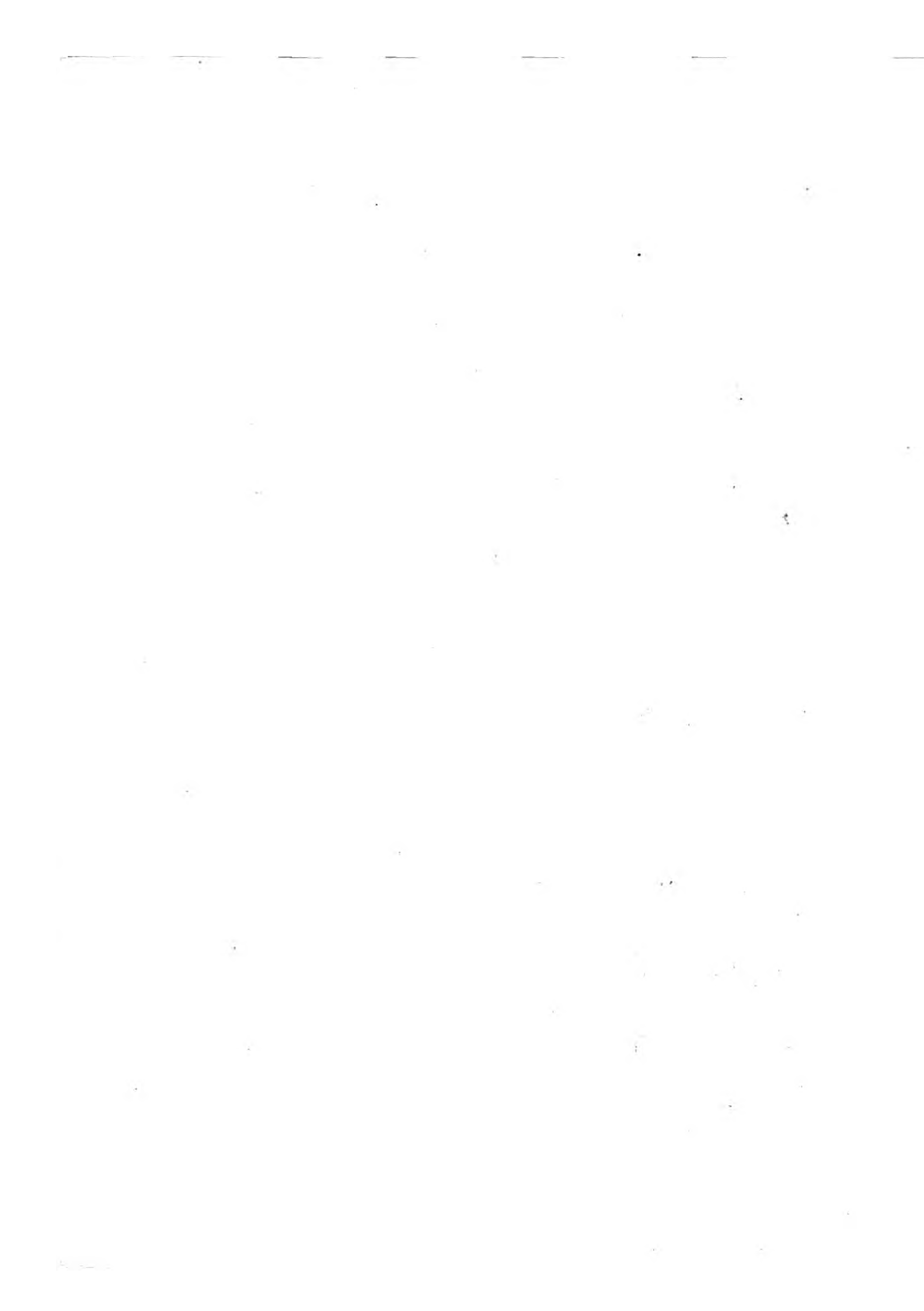


PLATE CCCLXVII.
 ANAGALLIS GRANDIFLORA.
Great-flowered Pimpernel.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|---|
| <p>CAPSULA 1-ocularis, circumscissa. <i>Corolla</i> rotata. <i>Stamina</i> hirsuta. <i>Stigma</i> capi- tatum.</p> | | <p>CAPSULE one-celled, cut round. <i>Corolla</i> wheel-shaped. <i>Chives</i> hairy. <i>Summit</i> headed.</p> |
|--|--|---|

SPECIFIC CHARACTER, &c.

| | | |
|---|--|--|
| <p>ANAGALLIS, foliis ternatis cordato-ovatis acuminatis.</p> | | <p>ANAGALLIS, with leaves in threes heart-egg- shaped acuminated.</p> |
|---|--|--|

DESCRIPTIO. *Radix* annua. *Rami* elongati, effusi, procumbentes, angulati, superne simplices. *Folia* ternatim verticillata, remota, elliptica, acuminata, amplexicaulia, utrinque 3—5-lineata. *Pedunculi* ternatim verticillati, axillares, filiformes, primo patuli, demum sæpe recurvi, foliis duplo longiores. *Calyx* 4- rarius 5- phyllus, foliolis lanceolatis, acuminatis, carinatis, marginibus membranaceis. *Corolla* 5- rarius 4- petala, petalis basi confluentibus, patulis, orbiculatis, coccineis, basi intus nigris. *Filamenta* 5 hirsuta; atro-purpurascens, petalis multo breviora. *Germen* pallidum. *Stylus* pergracilis purpureus antheras luteas superans. *Stigma* simplex, capitulum, viride.

REFERENCE TO THE PLATE.

1. A peduncle and calyx.
2. The corolla spread open.
3. The seed-bud and pointal, and summit magnified.

THIS new and elegant species of *Anagallis*, the largest and most showy of that genus hitherto discovered, was introduced into England, we believe, in the last year; but by whom, or from what country, we have not yet satisfactorily ascertained. It is reported to be of African origin, and to have come to England from the Paris garden. Our figure was made from a plant trained up near three feet high, in Lady De Clifford's collection at Paddington, where it is treated as a green-house plant. We have not yet seen it produce good seeds, although apparently an annual plant; but it is easily increased by cuttings in the usual way. In every thing except size, and in having more entire petals, it very much resembles *Anagallis arvensis*; a plant truly remarkable for being the only one indigenous to Britain (the Poppies excepted) with scarlet flowers.



Inagallis grandiflora

Inagallis grandiflora (L.)
by J. G. Smith & J. G. Smith



PLATE CCCLXVIII.
MELANTHIUM MASSONIÆFOLIUM.
Massonia-leaved Melanthium.

CLASS VI. ORDER I.

HEXANDRIA TRIGYNIA. Six Chives. Three Pointals.

ESSENTIAL GENERIC CHARACTER.

CALYX 0. *Corolla* infera, 6-petala, petalis staminiferis. || NO CALYX. *Corolla* beneath, 6-petalled, with the petals staminiferous.

SPECIFIC CHARACTER, &c.

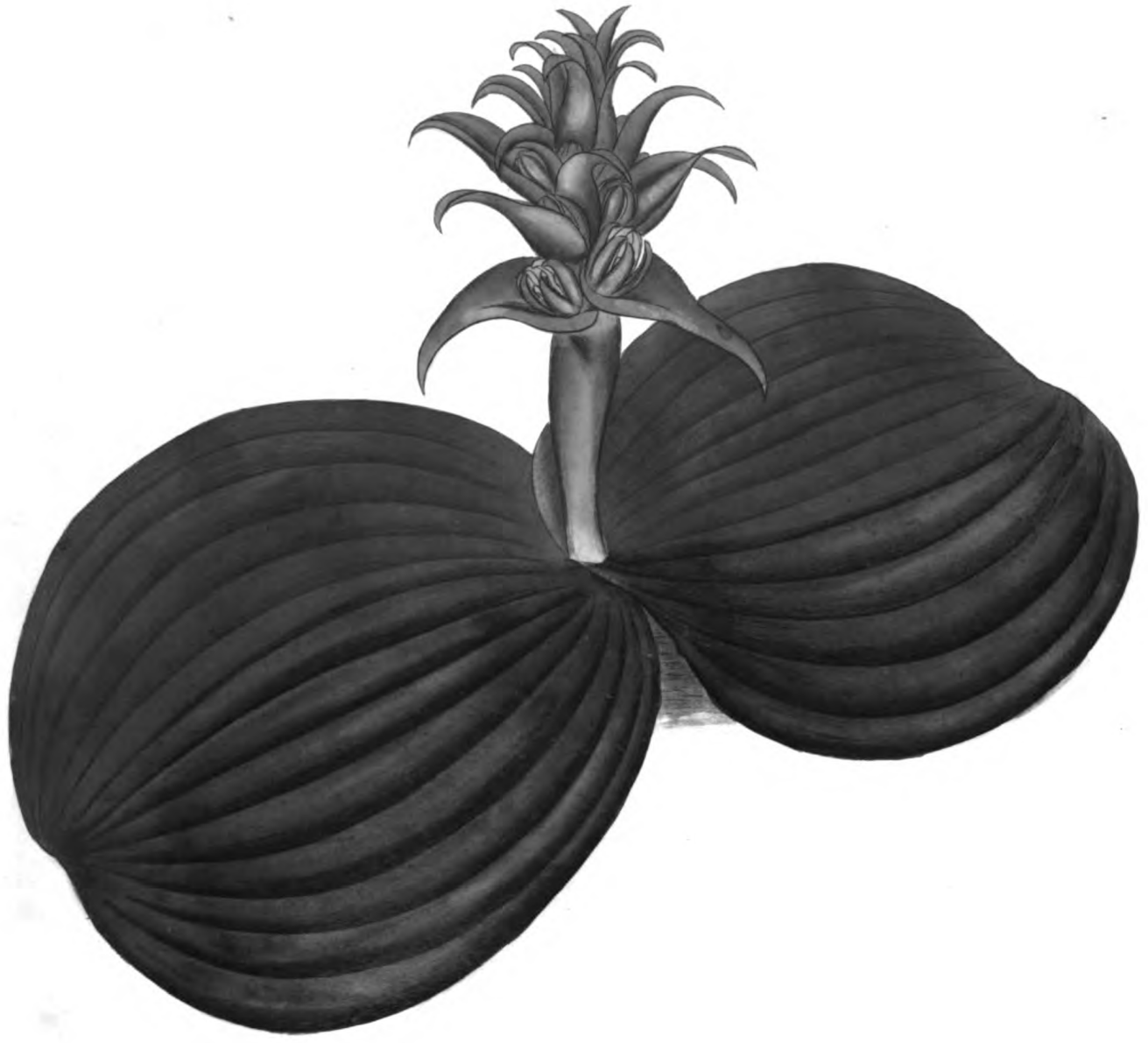
MELANTHIUM, foliis subrotundis prostratis sulcato-striatis, floribus spicatis. || MELANTHIUM, with roundish prostrate sulcato-striated leaves, and spiked flowers.

DESCRIPTIO. *Folia* duo humi appressa, subrotunda, viridia, acumine obsolete recurvato, striisque sulcatis parallelis circiter 12; subtus glabra pallidiora. *Flores* in spica perbracteata ut in *Eucomide*. *Scapus* clavatus teres. *Bracteæ* ovato-acuminatæ, magnæ; superiores paulo minores. *Flores* sessiles, bracteis multoties breviores, virides. *Corolla* hexapetaloidea, vix aperta, petalis sublan- ceolatis, obtusis, erectis, apicem versus incurvis. *Filamenta* brevissima, compressa, collo corollæ imposita, basi confluentia. *Antheræ* erectæ obsoletæ. *Germen* alato-triangularè, desinens in stylos 3 obsoletissimos, subulatos, et fere adnatos.

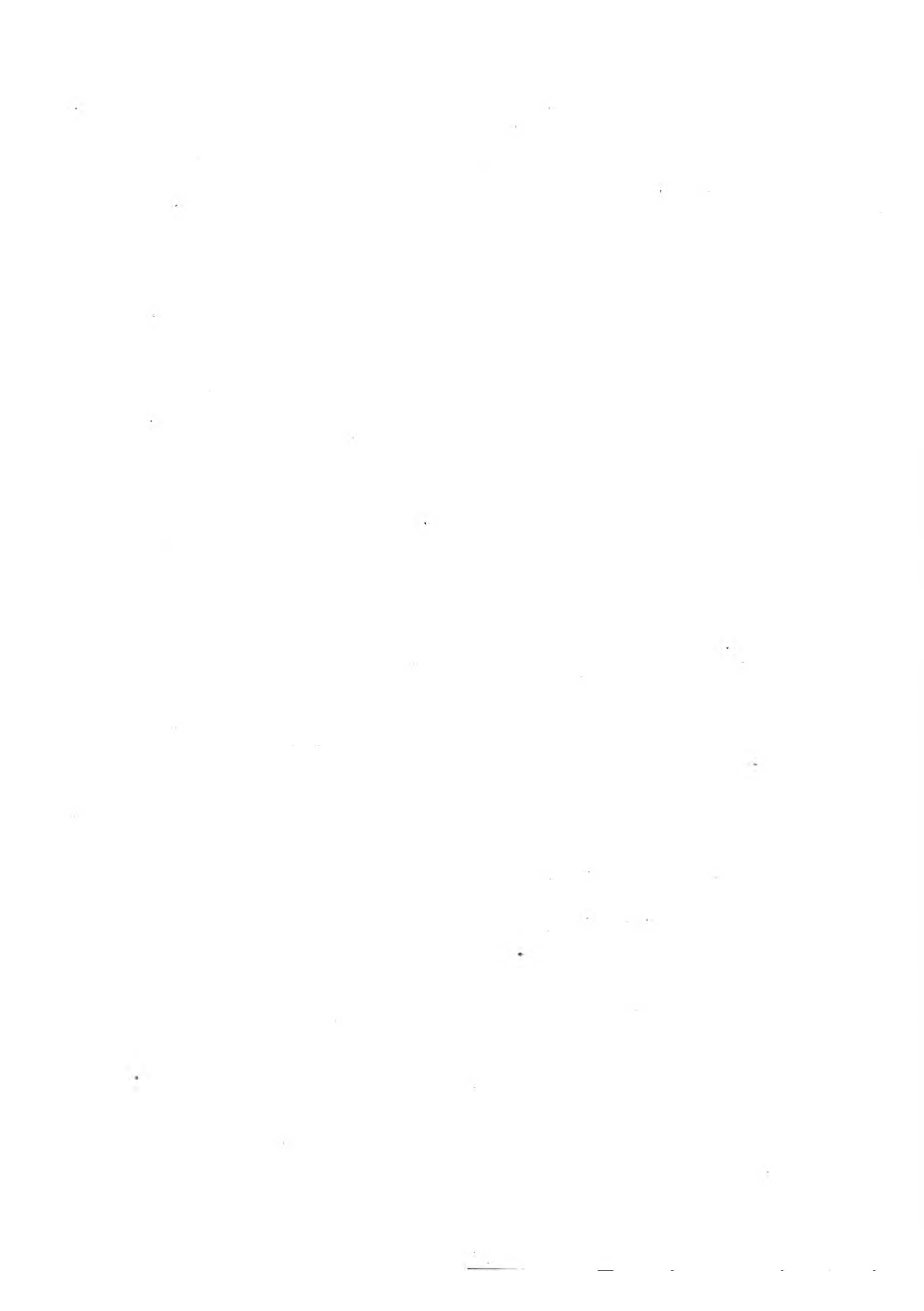
REFERENCE TO THE PLATE.

1. A floral leaf.
2. The corolla cut open.
3. A back view of the same.
4. The seed-bud and obsolete styles.

THIS singular plant appears to us to be a new, but somewhat anomalous species of the Genus *Melan- thium*; which, as it at present stands, unquestionably contains several Genera. It is a native of the Cape, and a Green-house plant; and prior to flowering possesses altogether the appearance of a *Massonia*, and thrives very well with the treatment of one. Our drawing of it was taken from fine plants in the *Hibbertian* collection in the month of March.



Velanthium masoniaefolium



P L A T E C C C L X I X .
EUCOMIS PURPUREOCAULIS.
Purple-stalked Eucomis.

C L A S S V I . O R D E R I .
HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

E S S E N T I A L G E N E R I C C H A R A C T E R .

COROLLA infera, 6-partita, persistens. Filamenta nectario adnata.

COROLLA beneath, 6-parted, persistent. Chives conjoined to the base of the corolla, forming a nectary.

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

EUCOMIS, scapo clavato, foliis multifariis expansis orbiculato-spatulatis.

EUCOMIS, with a clavated scape, leaves pointing many ways expanded orbicular-spatula-shaped.

DESCRIPTIO. *Radix* ut in affinis. *Folia* 5—7, multifaria, expansa, demum prostrata, orbiculato-spatulata, vel subinde multo angustiora, viridia, obsolete sulcato-lineata et lucida, marginibus minute cartilagineis, glabriusculis; subtus pallidiora, lucidiora, magisque sulcata. *Scapus* claviformis, perbrevis, crassus, atro-purpureus; intra flores valde contractus, viridis, purpureoque punctatus. *Flores* spicati, conferti, sessiles, sæpe adscendentes, unibracteati. *Bracteæ* imæ obcuneatæ, subrecurvæ, submembranaceæ, et sæpe purpurascens; sensim minores; summæ longiores, lineari-lanceolatæ, purpureo-marginatæ, steriles; in coronam foliolorum perelegantem supra flores collectæ. *Corolla* hexapetaloidea, petalis subæqualibus, lineari-oblongis, vix attenuatis, viridibus. *Filamenta* 6, basi petalorum valde connata, subulata, compressa; superne incurvata. *Antheræ* flavescens; post florescentiam fuscæ, pendulæ, ad apices petalorum vix attingentes. *Germen* sulcato-triangulare. *Stylus* flexuoso-adscendens, teres, vix subulatus, filamentis multo brevior. *Stigma* nullum sive inconspicuum.

R E F E R E N C E T O T H E P L A T E .

1. One of the lower floral leaves.
2. The corolla cut open.
3. The seed-bud and pointal.

WE find no account of this fine plant in any publication we have consulted: it is closely allied to *Eucomis regia*, but differs sufficiently from that species in the shape of its leaves, and the smoothness of their margins. It is a green-house plant, and was lately introduced from the Cape by G. Hibbert, Esq. from a plant in whose collection our drawing was taken in the month of March.



Eucomis purpureocaulis.





PLATE CCCLXX.
POLYGALA TERETIFOLIA.
Cylindric-leaved Milkwort.

CLASS XVII. ORDER III.
DIADELPHIA OCTANDRIA. Two Brotherhoods. Eight Chives.

ESSENTIAL GENERIC CHARACTER.

CALYX 5-phyllus; foliolis duobus alæformibus, coloratis. Legumen obcordatum, biloculare.

CUP 5-leaved; with two of the leaves like wings, coloured. Pod inverse heart-shaped, two-celled.

SPECIFIC CHARACTER.

POLYGALA, floribus cristatis, racemis terminalibus paucifloris, alis calycinis ovatis acutiusculis multinerviis, caule fruticoso, foliis lineari-subulatis. *Willd. Sp. Pl.* 882.

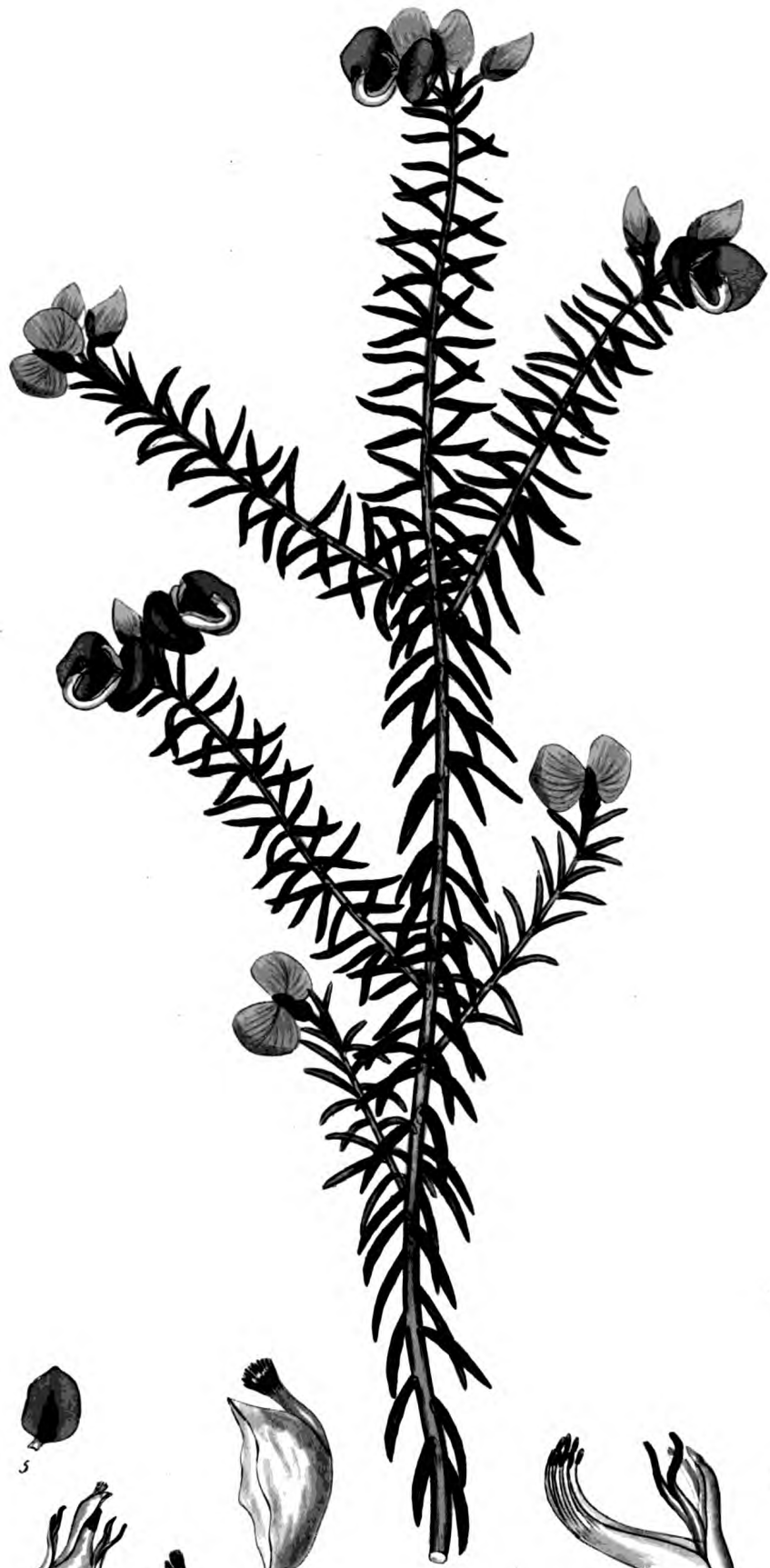
POLYGALA, with cristated flowers, racemes terminal few-flowered, calyx-wings ovate acutish many-nerved, shrubby stem, and linear-awl-shaped leaves.

DESCRIPTIO. Ramuli filiformes, patuli, canescentes. *Folia* sparsa, sæpe conferta, recurva, et falcata, linearia, obtusa, marginibus revolutis, ut in *Erica*; supra canescentia: subtus cana. *Racemi* 2—5-flori. *Pedunculi* pubescentes.

REFERENCE TO THE PLATE.

1. A leaf.
2. The under surface of the same magnified.
3. The exterior part of the cup.
4. One of the wing-like leaves of the cup, outside.
5. The same inside.
6. The chives, keel and banner spread open.
7. The keel and its crest detached.
8. The same magnified.
9. The chives and banner.
10. The same magnified.
11. The seed-bud and pointal,
12. The same magnified.

OUR plate represents the true species of *Polygala*, which we promised in our account of *P. stipulacea*. It is a green-house shrub, and rather delicate; yet may, with care, be propagated by cuttings; but is at present very scarce in this country. Its native country is the Cape. Our drawing was taken from a plant in the Clapham collection in the summer of 1803.



Ononis tenuifolia.

Ononis tenuifolia.

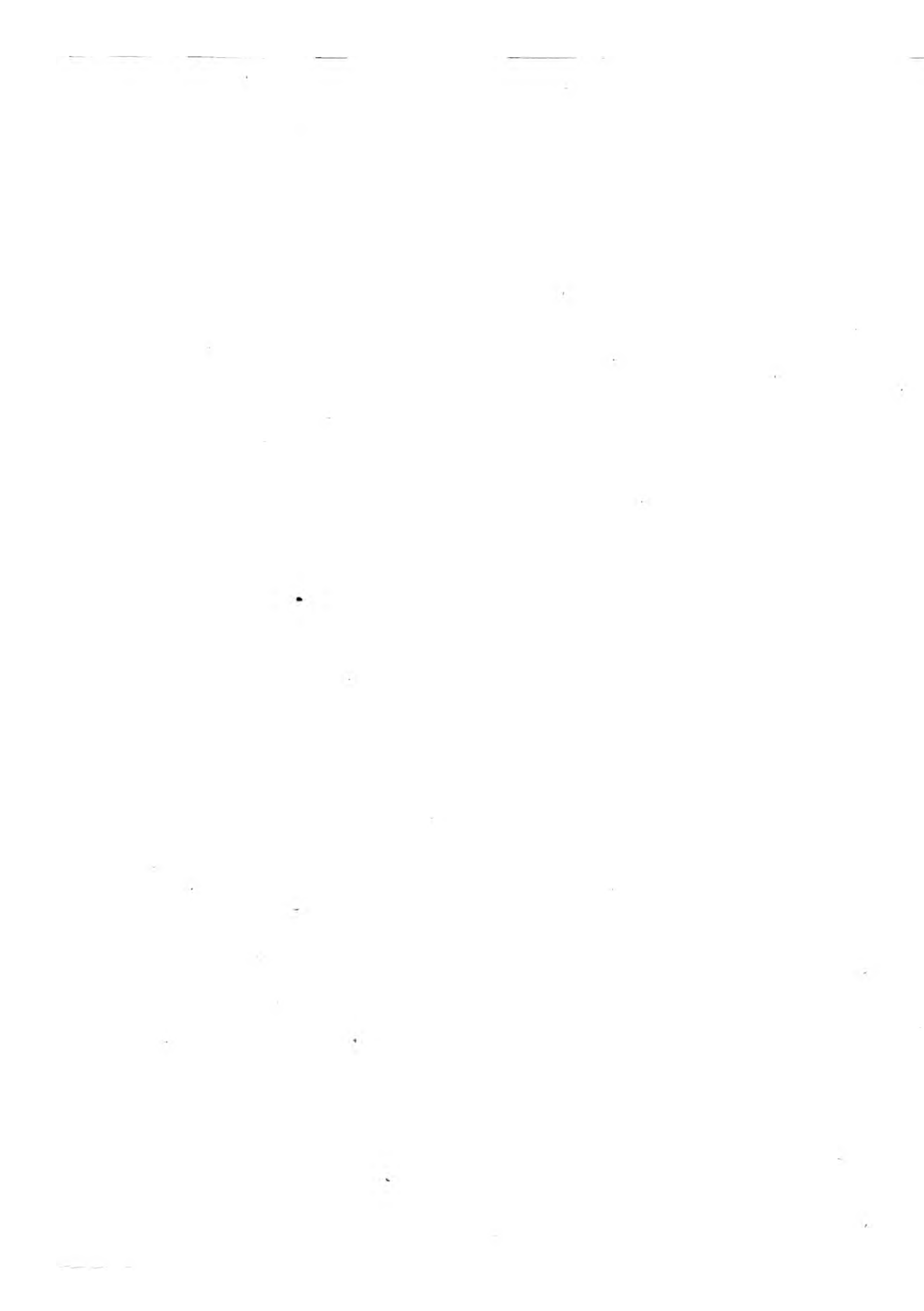


PLATE CCCLXXI.
POLYGALA ALOPECUROIDES.
Fox-tail Milkwort.

CLASS XVII. ORDER III.
DIADELPHIA OCTANDRIA. Two Brotherhoods. Eight Chives.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|--|---|
| <p>CALYX 5-phyllus, foliolis duobus alæformibus, coloratis. Legumen obcordatum, biloculare.</p> | | <p>CUP 5-leaved, with two of the leaves like wings, coloured. Pod inverse heart-shaped, two-celled.</p> |
|---|--|---|

SPECIFIC CHARACTER, &c.

| | | |
|--|--|---|
| <p>POLYGALA, floribus imberbibus, pedunculis solitariis axillaribus, foliis fasciculatis ovatis mucronatis margine ciliatis. <i>Willd. Sp. Pl.</i> 890.</p> <p>P. floribus imberbibus lateralibus, foliis fasciculatis lanceolatis mucronatis villosis. <i>Thunb. Prod.</i> 121.</p> | | <p>POLYGALA, with flowers beardless, peduncles solitary axillary, leaves fascicled egg-shaped mucronated and ciliated on the margin.</p> <p>P. with flowers beardless lateral, leaves fasciculated lance-shaped mucronated and villose.</p> |
|--|--|---|

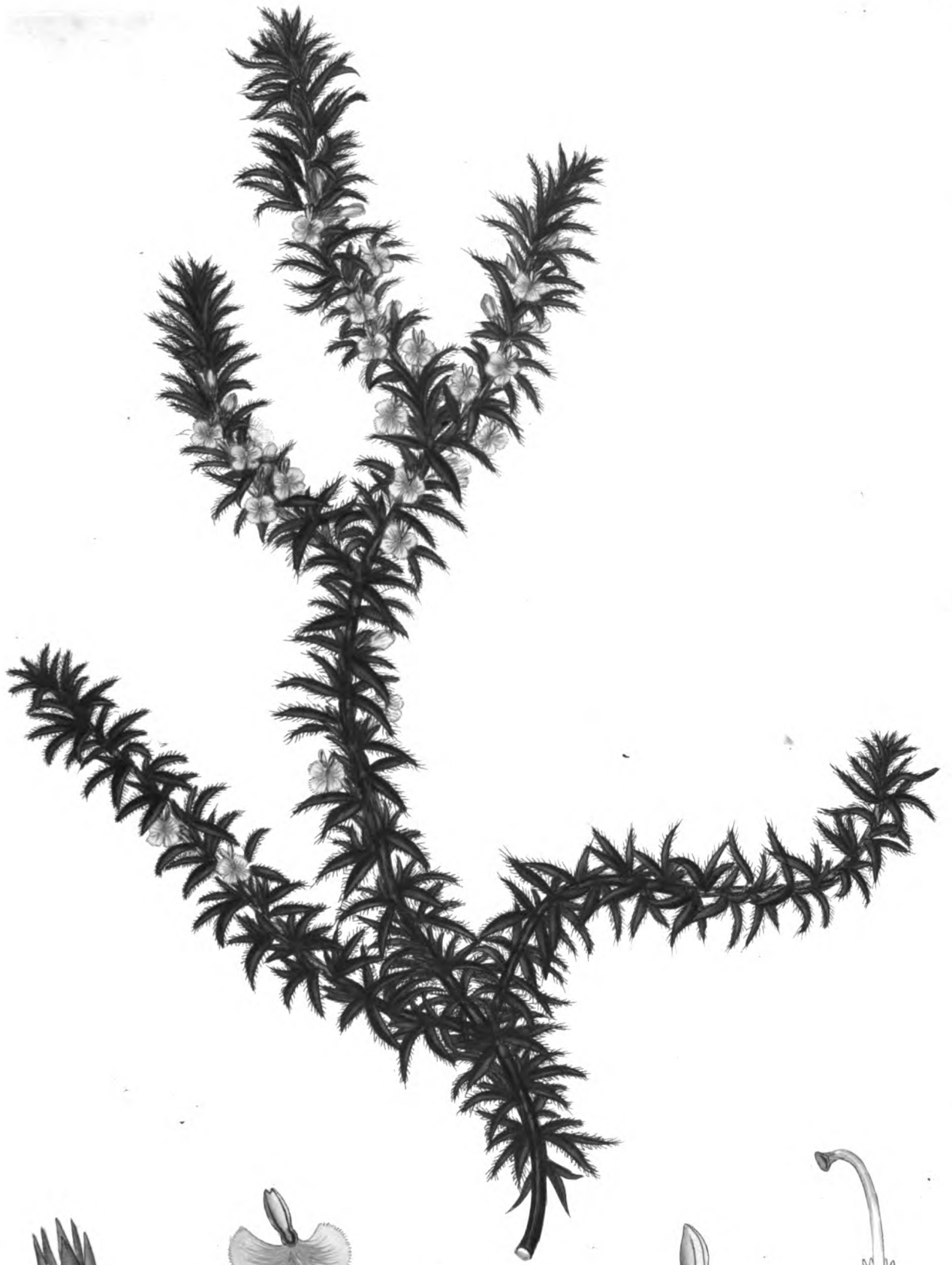
DESCRIPTIO. *Suffrutex* elegans, ramulis hirtis. *Folia* valde conferta, fasciculata, pone medium recurva, 5—6 in singulo fasciculo, infimo majore, latiore, stipuliforme; omnia lineari-lanceolata, mucronata, hirta, ad margines valde ciliata. *Flores* axillares, sessiles, solitarii, minuti, purpurascens, serrulati.

REFERENCE TO THE PLATE.

1. The empalement magnified.
 2. The keel magnified.
 3. One of the wings magnified.
 4. The chives and pointal magnified.
 5. The pointal detached and magnified.
-

THIS is the Polygala of the Heisteria family, which we last month engaged to lay before our readers. They will now have an opportunity, from our copious dissections of the flowers, of judging of the great and numerous generical differences which exist between a genuine Polygala and the discarded genus Heisteria. All the Heisteriæ we have yet had an opportunity of examining are heptandrous; all the true Polygalæ octandrous: but these are the least of their distinctions.

The Fox-tail Milkwort is a very elegant shrub of the green-house kind, and is often in flower. It was recently raised from Cape seeds in the Clapham collection, and is at present, we believe, in no other: thrives well in a mixture of bog earth and loam, and is capable of propagation by cuttings.



Polygala alopocurroides



PLATE CCCLXXII.
MIMOSA PURPUREA.
Soldier Bush Mimosa.

CLASS XXIII. ORDER I.
POLYGAMIA MONOECIA. Various Dispositions. Upon one Plant.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|--|
| <p>HERMAPH. Calyx 5-dentatus. Cor. 5-fida. Stam. 5 seu plura. Pist. 1. Legumen. Mascul. Calyx 5-dentatus. Cor. 5-fida. Stam. 5—10, plura.</p> | | <p>HERMAPH. Cup 5-toothed. Bloss. 5-cleft. Chives 5 or more. Pointal one. A Pod. Male. Cup 5-toothed. Bloss. 5-cleft. Chives, 5, 10, or more.</p> |
|--|--|--|

SPECIFIC CHARACTER, &c.

| | | |
|--|--|---|
| <p>MIMOSA, inermis, foliis conjugatis pinnatis, foliolis intimis minoribus. <i>Linn. Sp. Pl.</i> <i>ed. 3. p. 1500.</i> M. foliis tergeminis. <i>Plum. Ic. t. 10. f. 2.</i></p> | | <p>MIMOSA, unarmed, with leaves conjugate prin- nate, and the inner leaflets smaller. M. with leaves three times twinned.</p> |
|--|--|---|

REFERENCE TO THE PLATE.

1. A single flower.
 2. The cup.
 3. The blossom.
 4. The seed-bud and pointal.
-

THE *Mimosa purpurea* is a native of the West Indies, and is there known by the expressive appellation of Soldier Bush; from the plants being sometimes almost covered with their bright red-purple flowers, in which state it is said they are visible, and even cognizable, on the sides of hills, at the distance of a mile.

The Soldier Bush in this country must be treated as a tender hot-house shrub, and kept constantly in the tan-bed, planted in rich earth. It is a plant of handsome growth and foliage; but its charming flowers are so very rare, that we do not recollect seeing any of them except those which are here represented, from a plant which flowered in March last, in the collection of Mrs. Wright at Bayswater. It is propagated by cuttings in the usual way.



Mimosa purpurea

Publ. as the *M. purpurea* var.
by the American Botanic Society



PLATE CCCLXXIII.

PÆONIA SUFFRUTICOSA.

Shrubby Pæony.

CLASS XIII. ORDER V.

POLYANDRIA PENTAGYNIA. Many Chives. Five Pointals.

ESSENTIAL GENERIC CHARACTER.

CALYX 5-phyllus. Petala 5. Styli 0. Cap- || CUP 5-leaved. Petals 5. Pointal none. Cap-
sulæ polyspermæ. || sules many-seeded.

SPECIFIC CHARACTER, &c.

PÆONIA, foliolis subtus glaucis et villosis, cap- || PÆONY, with leaflets glaucous and villose be-
sulis sericeis, caule suffruticoso. || neath, capsules silky, and shrubby stem.

PÆONIA officinalis. *Thunb. Fl. Jap.* 230.—*Loureir. Fl. Cochin.* 1. 343.

DESCRIPTIO. Suffrutex 3-pedalis et ultra, ramosus. *Rami* erectiusculi, cortice subfusco; ramulis erectis lævibus, apicem versus viridibus, pauloque pubescentibus. *Folia* alterna, bipinnata, pedalia et ultra, horizontalia; superiora adscendentia; petiolis amplexicaulibus, canaliculatis, villis perpaucis sæpe instructis, canaliculâ petiolorum semper lætissime rosâ: pinnæ 2—4, petiolatæ; pinnulæ sæpe 3, sessiles, infimæ oppositæ, tertia terminalis; omnes basi oblique cuneatæ, superne irregulariter inciso-dentatæ; supra virides, venosæ, nudæ, subtus glaucæ, nervosæ, villosæ. *Flores* speciosissimi ut in affinis, sed in nostris exemplaribus pleni, rosei. *Capsulæ* sericeo-pubescentes.

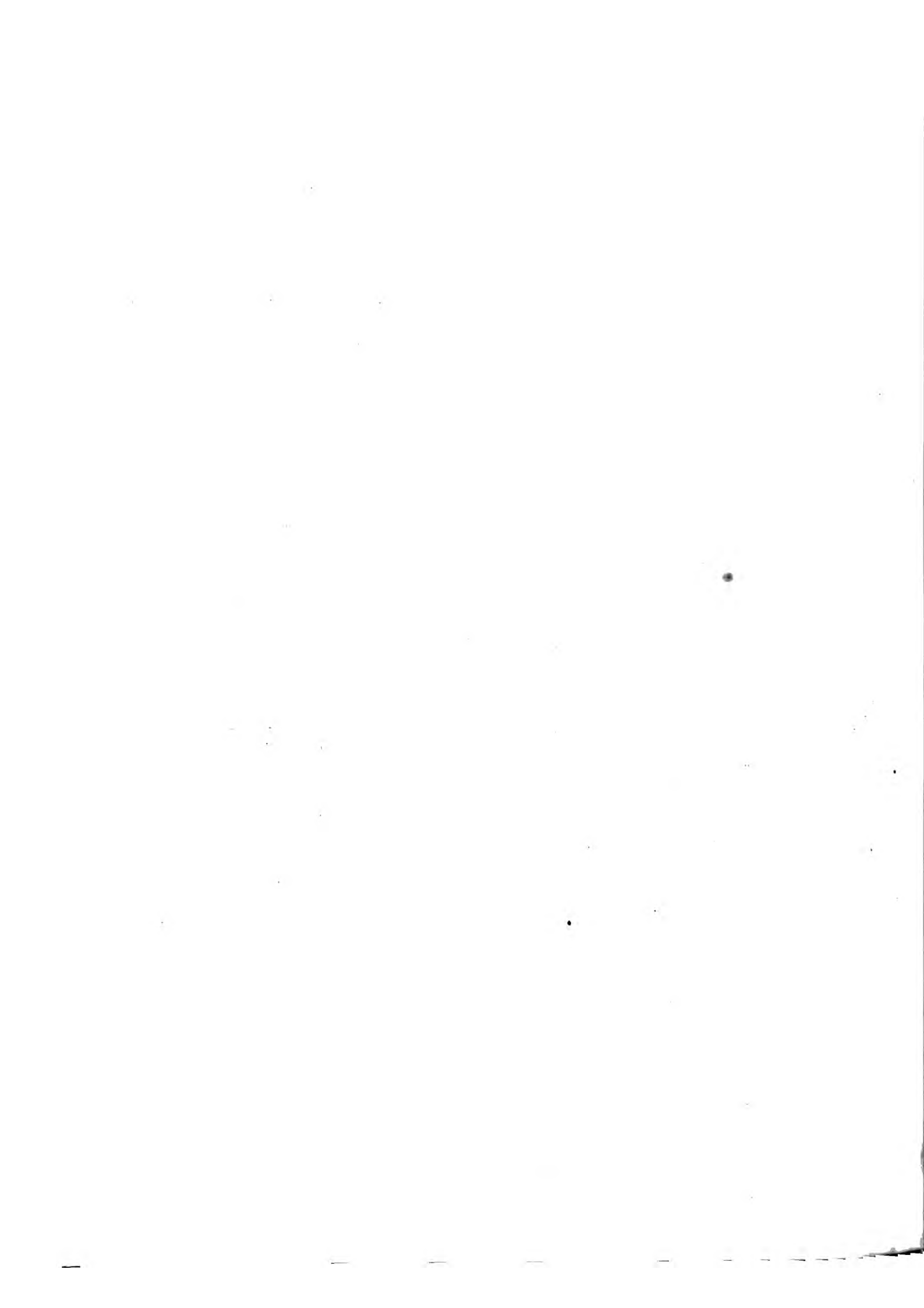
THE Pæonia suffruticosa is perhaps the most showy and desirable species, in this short but magnificent genus of plants. To the striking peculiarity of a shrubby stem, it unites the advantages of superior size; a profusion of very large flowers; and a facility of culture which ensures an annual succession of them: no wonder, therefore, that it is assiduously sought after by all who admire the beauties of Flora.

The shrubby Pæony was introduced into Britain in the year 1794, from China; where, as well as in Japan, many varieties of it are said to be common in almost every garden. We conceive it to be extremely distinct as a species, from the *P. officinalis* of all authors except Thunberg and Loureiro: yet Professor Willdenow has not enumerated it in his edition of *Species Plantarum*. Although introduced so long since, it is still rare; and must be treated as a very hardy green-house plant: indeed it succeeds best when planted in the earth and protected by a glass case; is propagated by slipping the roots, and by cuttings. All the plants hitherto received from China have double flowers; and among them there are two varieties; the rosy one here figured, from the Clapham collection; and another with purplish petals, the bases of which are of a still deeper colour. Flowers in April, making a very fine appearance; but is nearly scentless.



Paonia suffruticosa

Paonia suffruticosa (L.) M. Roemer
1845, *Bot. Beecheyana*, p. 107, t. 1, f. 10.





P L A T E C C C L X X I V .
X E R A N T H E M U M P R O L I F E R U M .
Proliferous Eternal Flower.

C L A S S X I X . O R D E R I I .
SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous
Pointals.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|--|--|---|
| R E C E P T A C U L U M paleaceum, aut nudum. Pappus setaceus. Calyx imbricatus, radiatus; radio colorato. | | R E C E P T A C L E chaffy, or naked. Feather bristly. Empalement tiled, rayed; the ray coloured. |
|--|--|---|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|---|--|--|
| X E R A N T H E M U M , caule fruticoso prolifero, floribus sessilibus, foliis granulato-subrotundis imbricatis obsolete. | | X E R A N T H E M U M , with a shrubby proliferous stem, sessile flowers, leaves grain-shaped roundish tiled and obsolete. |
|---|--|--|

X E R A N T H E M U M proliferum. *Mant. Pl. 467.*—*Gmel. Syst. Nat. 2. 1218.*

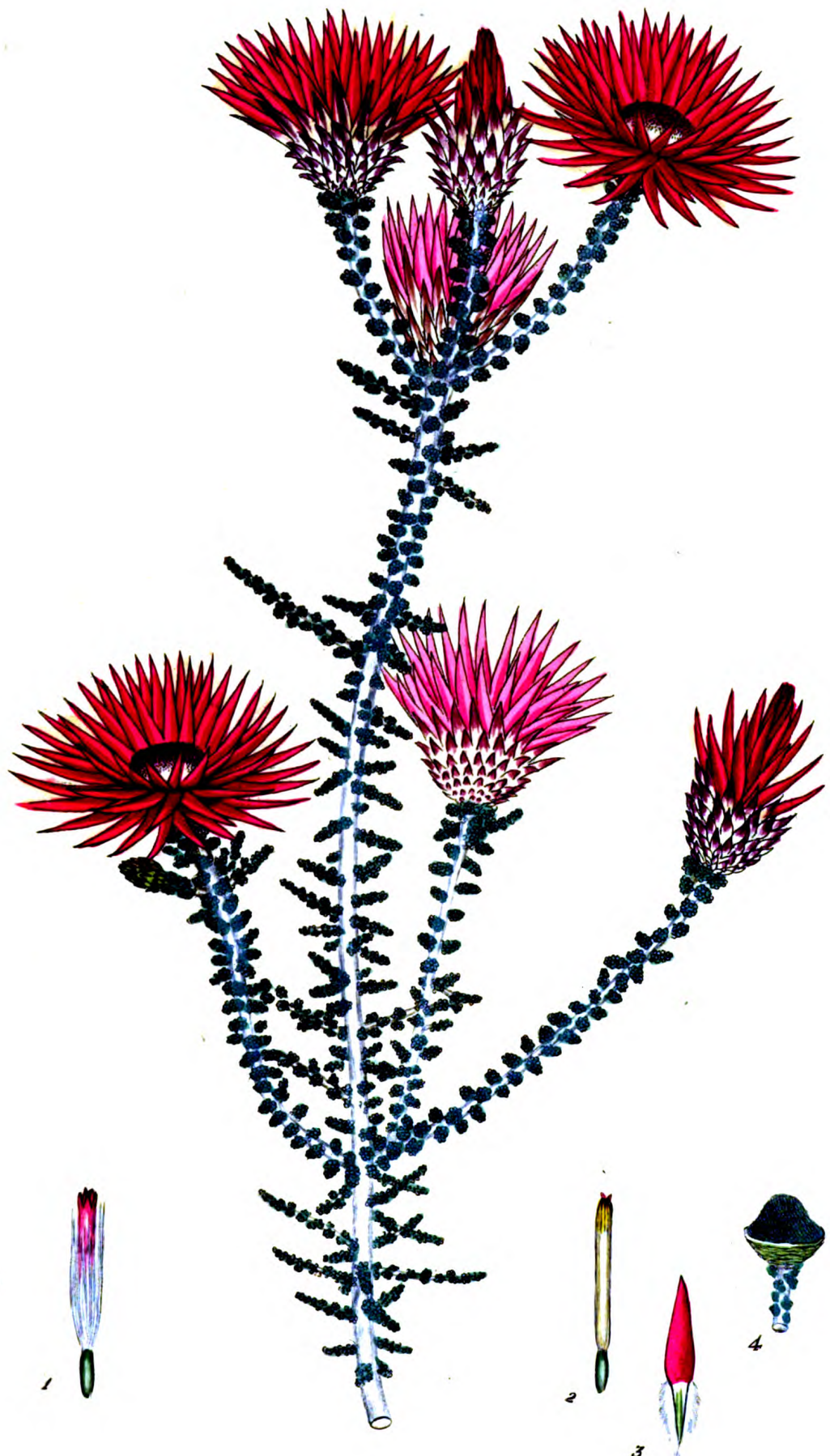
DESCRIPTIO. Frutex erectus, proliferus, tripedalis et ultra. *Rami* teretes, lanâ densâ, niveâ undique vestiti; et ramulis numerosissimis, incipientibus, brevissimis, sæpe quasi reflexo-imbricatis, instructi. *Flores* solitarii magni, squamis calycinis lanceolatis, lætissime et profundissime rubicundis, basin versus valde lanatis, superioribus sensim majoribus.

R E F E R E N C E T O T H E P L A T E .

1. An hermaphrodite floret magnified.
2. The chives, pointal and seed-bud magnified.
3. One of the scales of the empalement.
4. The receptacle.

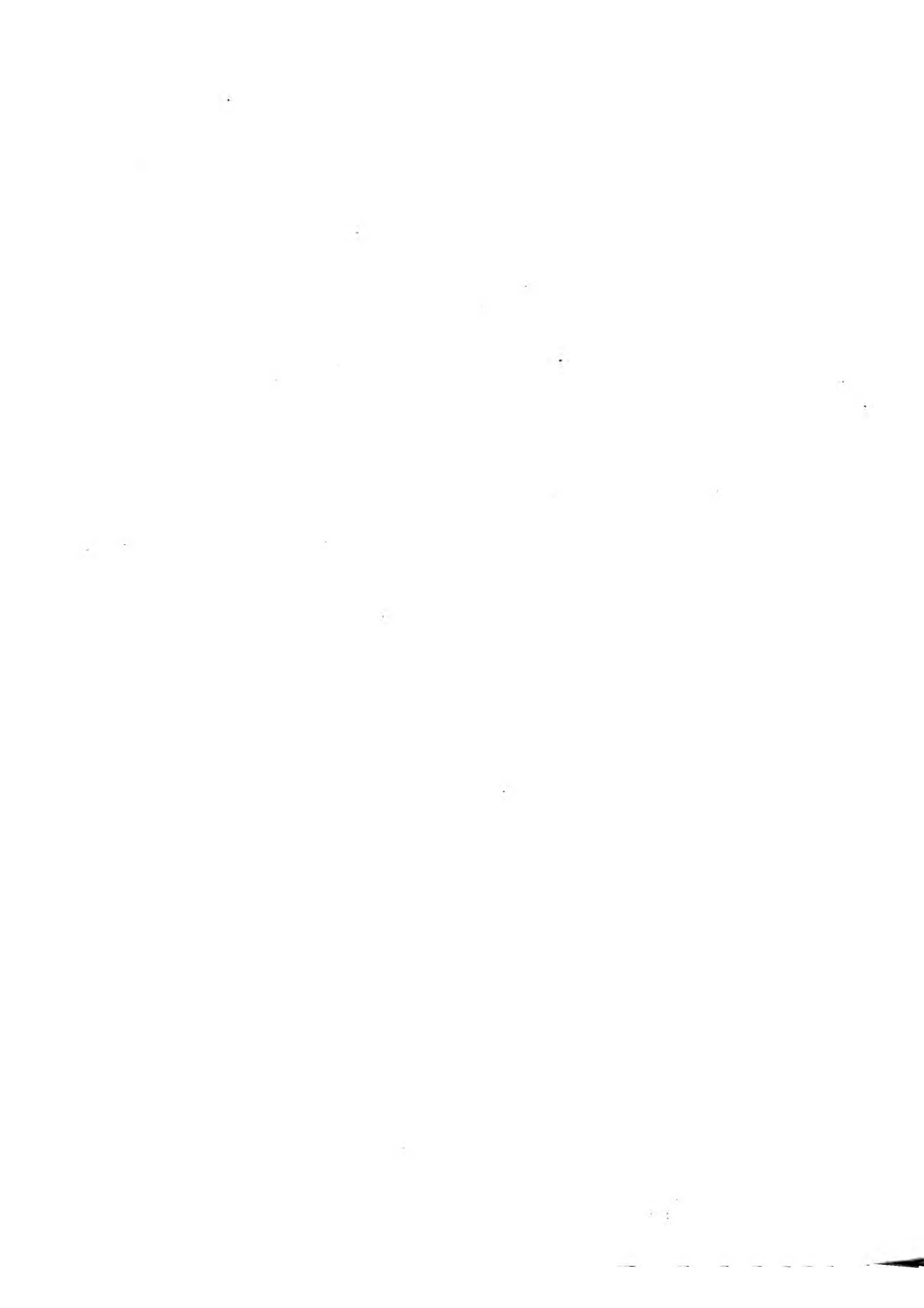
Few genera of plants attract attention so universally and deservedly, as those of the genus *Xeranthemum*. All the species it contains are at once the favourites of the Botanist, the Gardener, and the Florist. The former, with pleasing satisfaction, contemplates their polished beauties still undiminished in his herbarium; while the latter find them (if sufficiently guarded from humidity) of easy management and ready growth. They bloom annually, and their durable and highly finished empalements are gathered and used in decorating many a mantle-piece; long, very long after they have ceased to live: whence the name of Eternal Flower. Many species of *Gnaphalium* possess a similar durability; and we have seen dried bouquets of both united, which were extremely beautiful.

The proliferous Eternal Flower is shrubby, commences flowering in May, lasts a long time in bloom, and in point of singularity and showiness yields to few of its congeners. It is a Cape plant: succeeds with the treatment of several species figured before by us; and is propagated by cuttings: was introduced some years since. Our figure was made from the Clapham collection.



anthemum proliferum

Handwritten text, likely a signature or date, located in the bottom right corner of the page.





P L A T E C C C L X X V .
X E R A N T H E M U M B R A C T E A T U M .
Waved-leaved Eternal Flower.

C L A S S X I X . O R D E R I I .
SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous
 Pointals.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|---|--|--|
| R E C E P T A C U L U M paleaceum, aut nudum. Pappus setaceus. Calyx imbricatus, radiatus ; radio colorato. | | R E C E P T A C L E chaffy, or naked. Feather bristly. Empalement tiled, rayed ; the ray coloured. |
|---|--|--|

S P E C I F I C C H A R A C T E R , & c .

| | | |
|---|--|--|
| X E R A N T H E M U M, foliis alternis amplexicaulis longo-lanceolatis undulatis, caulibusque erectis pubescentibus ; receptaculis nudis, radice annua. | | X E R A N T H E M U M, with alternate stem-clasping long-spear-shaped waved pubescent leaves, pubescent erect stems, naked receptacles, and annual root. |
|---|--|--|

XERANTHEMUM bracteatum. Vent. Jard. de la Malmaison, tab. 2.

R E F E R E N C E T O T H E P L A T E .

1. A hermaphrodite floret magnified.
2. The chives, pointal and seed-bud magnified.
3. The pointal and seed-bud of a female floret magnified.
4. The receptacle.

XERANTHEMUM bracteatum has the appearance of proving as hardy an annual as a China Aster or French Marygold ; and if so, will prove a considerable acquisition to our open borders ; as it ripens its seeds well, and they vegetate readily.

In being annual, it recedes in its nature from all the species of the genus we are acquainted with, except *X. annuum* of Linnæus ; which, however, we think, with Jussieu, of a perfectly distinct genus ; on account of its squamous receptacle ; and its variety (*inapertum*) a distinct species : the structure of the receptacle in the extensive class *Syngenesia* being of great consequence in the formation and distribution of genera.

The seedlings of the waved-leaved Eternal Flower are best raised early, like China Asters, on a gentle hot-bed, and, when large enough, should be transplanted out in showery weather, where they are intended to remain : they will become erect and bushy, attain the height of three feet or upwards, and produce their polished, golden-coloured flowers in autumn, in profusion. Possessing no recent specimens in bloom, we have omitted a technical description. Our drawing was made last summer, from fine living plants at Mr. Colvill's, Nurseryman, in the King's Road ; who raised it in the year 1799 from Port Jackson seeds sent him by Colonel Paterson.



Anthemum bracteatum.

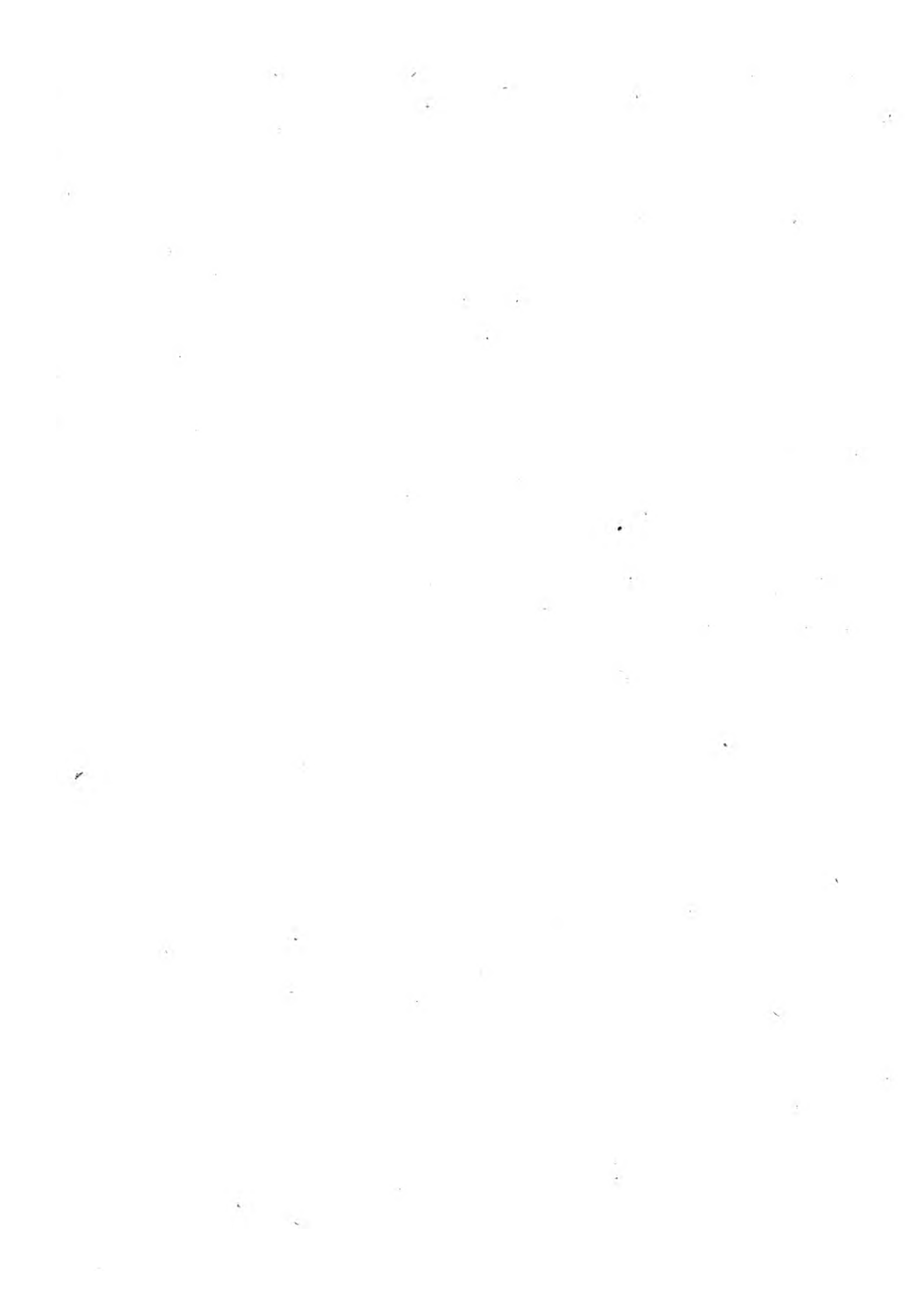


PLATE CCCLXXVI.
NEOTTIA MINOR.
The Lesser Neottia.

CLASS XX. ORDER I.
GYNANDRIA DIANDRIA. Chives on the Pointal. Two Chives.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|--|--|
| SPATHÆ vagæ, Spadix simplex. Corolla petala 5 æqualia erecta. Nectarium monophyllum indivisum acuminatum. | | SHEATHS scattered. Fruit-stalk simple. Corolla 5 petals of equal length erect. Nectary one-leafed undivided sharp-pointed. |
|---|--|--|

SPECIFIC CHARACTER, &c.

| | | |
|---|--|---|
| NEOTTIA, foliis ellipticis acuminatis quintuplinerviis. | | NEOTTIA, with elliptic sharp-pointed leaves, with five nerves meeting above the base. |
|---|--|---|

NEOTTIA minor, foliis planis, spathis virescentibus. *Jac. Ic.* 3. 16. t. 601.—SATYRIUM elatum. *Gmel. Syst. Nat.* 2. 56.—SERAPIAS Neottia. *Gmel. Syst. Nat.* 2. 59. *monete Dryandro, in Linn. Tr.* 2. 215.

DESCRIPTIO. *Folia* elliptica, acuminata, quintuplinervia, nervo medio subtus cæteris multo majore, viridia, infra pallidiora. *Caulis* tereti-compressus, pubescens 1—3-pedalis, foliis alternis spathaceis, remotis, instructus. *Flores* siccos exceptos non possideo. H.

REFERENCE TO THE PLATE.

1. A blossom, seed-bud and sheath.
2. The same magnified without the sheath, the cover of the tips elevated.
3. A flower without the honey-cup.
4. The chives and pointal as they appear detached.
5. The pointal magnified.

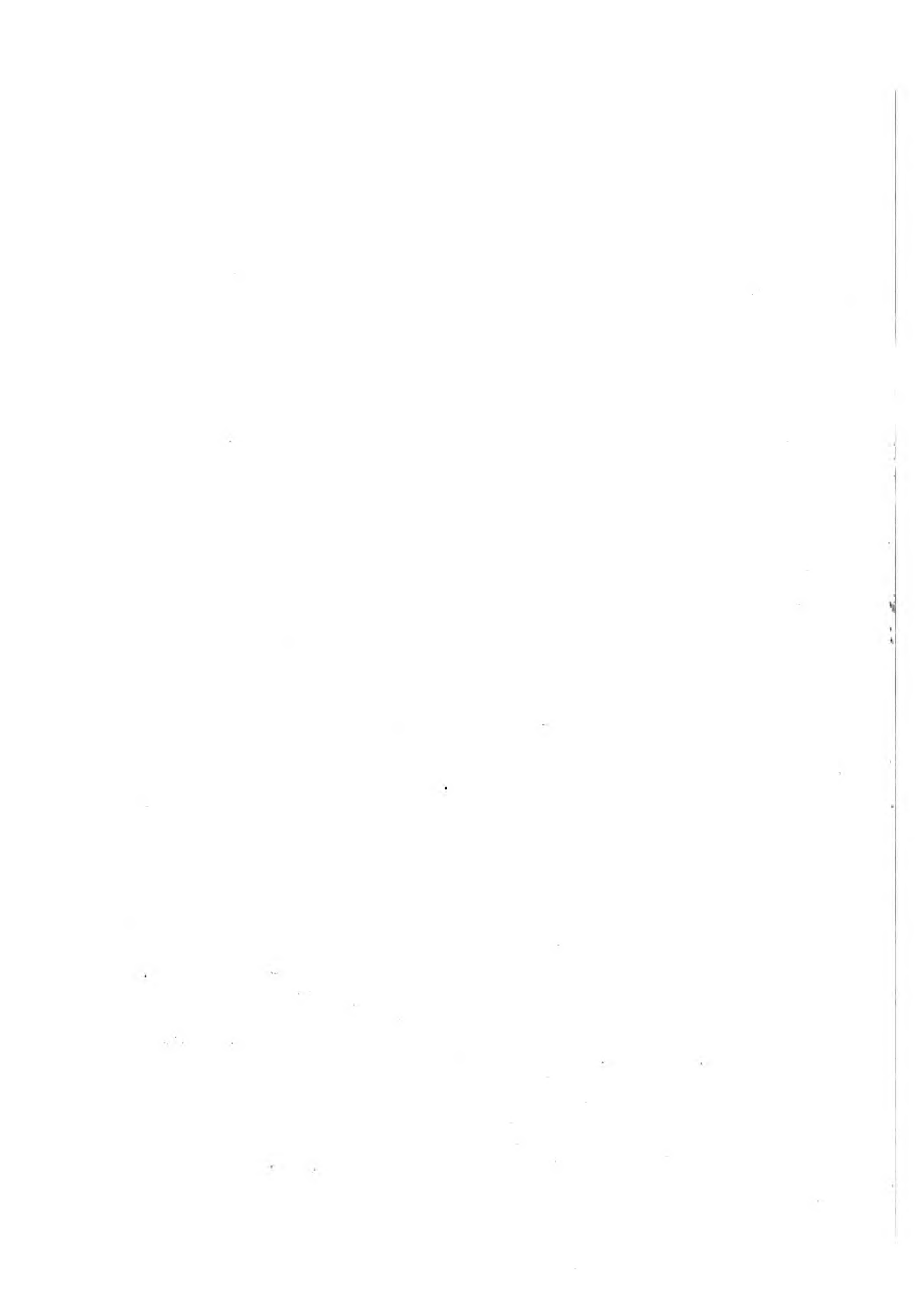
WHAT the *Neottia minor* wants in splendour and beauty, is counterbalanced by the interesting structure of its flowers; which however is not peculiar to it; but frequent in the fine order to which it belongs: the *Orchideæ*.

Until *Jacquin* established it as a distinct genus, it was considered as a species of, and retained a place in the genus *Serapias*, as well as the more showy *N. speciosa* of our third plate.

The Lesser *Neottia* is a native of the West Indies; is a very tender hot-house plant, but grows freely in rich earth; either in or out of the tan-bed; rises to the height of about three feet, and flowers in the month of March: is propagated by parting its roots; and although at present rare, was introduced to us before *N. speciosa*, in the year 1790, by Mr. John Fairbairn, gardener to the Worshipful Company of Apothecaries at Chelsea. Our drawing was taken at Lady De Clifford's collection at Paddington.



Neottia minor



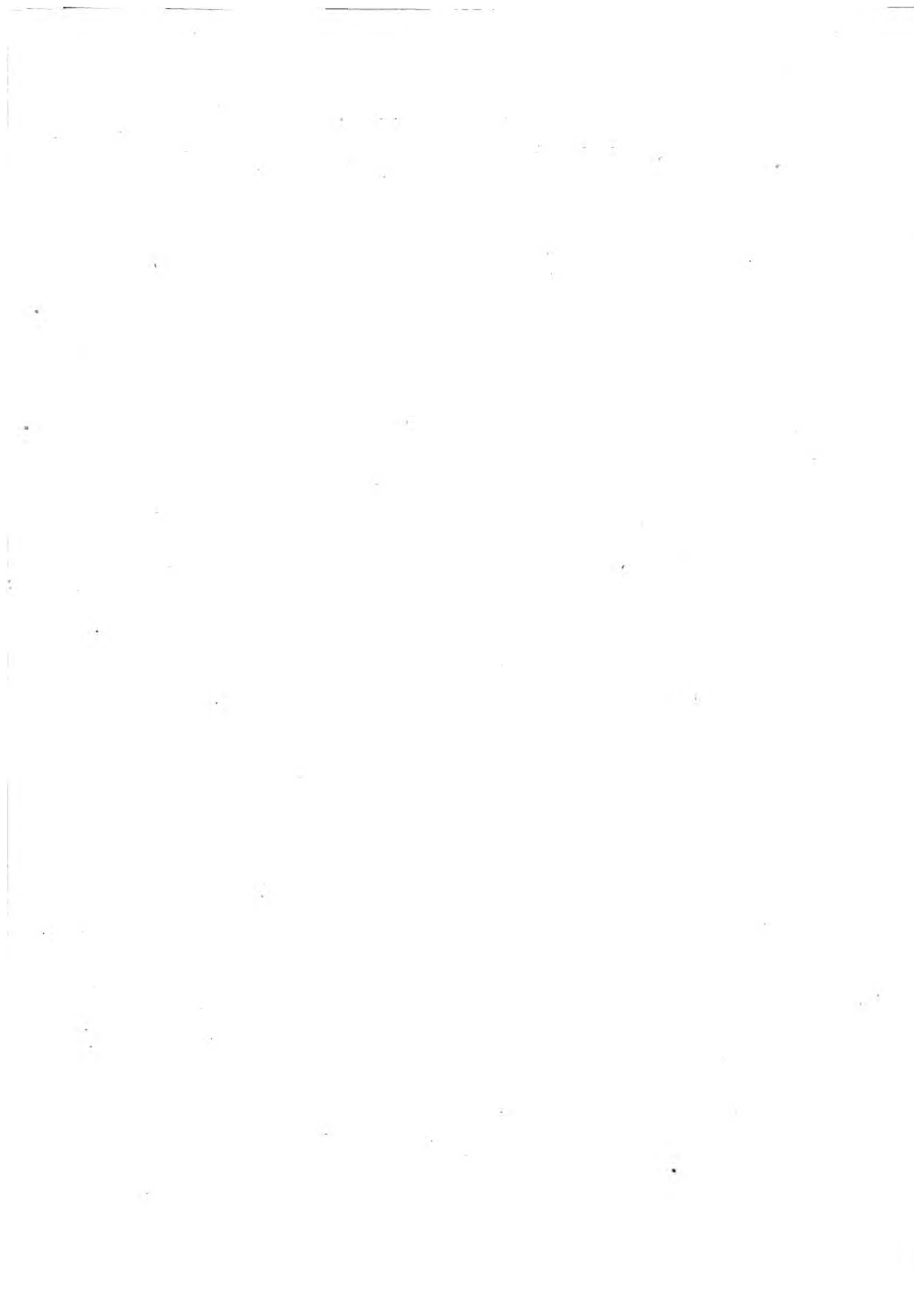


PLATE CCCLXXVII.
ALLIUM CHAMÆ-MOLY.
The Dwarf Moly.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA 6-partita, patens. Spatha multiflora. || COROLLA 6-parted, expanding. Sheath many-
 Umbella congesta. Capsula supera. || flowered. Umbel crowded. Capsule above.

SPECIFIC CHARACTER, &c.

ALLIUM, scapo nudo subnullo, capsulis cer- || ALLIUM, with a naked very short stalk,
 nuis, foliis planis ciliatis. || drooping capsules, and flat ciliated leaves.

ALLIUM Chamæ-Moly. *Willd. Sp. Pl. 2. 83.*—*Cavan. Ic. 3. p. 4. t. 207. f. 1.?*

DESCRIPTIO. *Radix* bulbus parvulus. *Folia* circiter 4, cruciatim disticha, expansa, linearia, subulata, basin versus parum canaliculata, et subcarinata; hirta, præcipue ad margines, unde ciliata. *Flores* umbellati subsessiles. *Scapus* brevissimus, reconditus, nudus. *Spatha* monophylla 3—8-flora, membranacea, 3-cuspidata. *Pedunculi* perbreves, teretes, superne incrassati, post florescentiam cernui. *Petala* 6, lanceolato-linearia, obtusa, alba, costâ utrinque virescente. *Filamenta* 6, tenuissima, alba, petalis duplo breviora. *Antheræ* luteæ. *Germen* superum, turbinatum, 6-sulcatum superne umbilicatum. *Stylus* albus longitudine filamentorum, sed robustior, apice furcatus. *Stigmata* fere nulla.

REFERENCE TO THE PLATE.

1. The sheath.
2. A flower spread open, magnified.
3. The seed-bud and pointal.
4. The same magnified.

ALTHOUGH now an old inhabitant of the British gardens, *Allium Chamæ-Moly* has ever been considered as a rare and interesting one; and is at present extremely scarce. It has several times been entirely lost to us, and again introduced from the south of Europe; where it occurs spontaneously.

In the *Hortus Kewensis* of Mr. Aiton, it is marked as a hardy species: perhaps inadvertently: because we never knew it survive a single winter in the open ground near London: notwithstanding our having repeatedly tried it, in situations by no means unfavourable: hence, possibly, its present rarity.

It is properly a hardy green-house plant: requires a light soil, and the treatment of an *Ixia*: increases both by offsets from the root, and by seeds: and flowers annually in the months of January and February. The leaves die down in April or May. In the structure of the flowers, but not the spathe, it agrees with *Allium gracile* of this work, which is not the gracile of the *Hortus Kewensis*. The genus *Allium* is an extensive one; but the present is the least species in it, and possesses the shortest stalk. *Cavanilles* describes and figures the style as subulate and entire; but in our plant that part is forked: and the spathe in his plant differs much from ours.

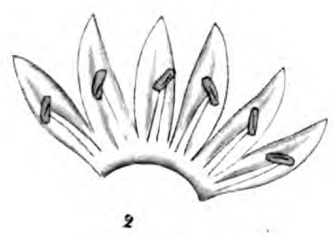
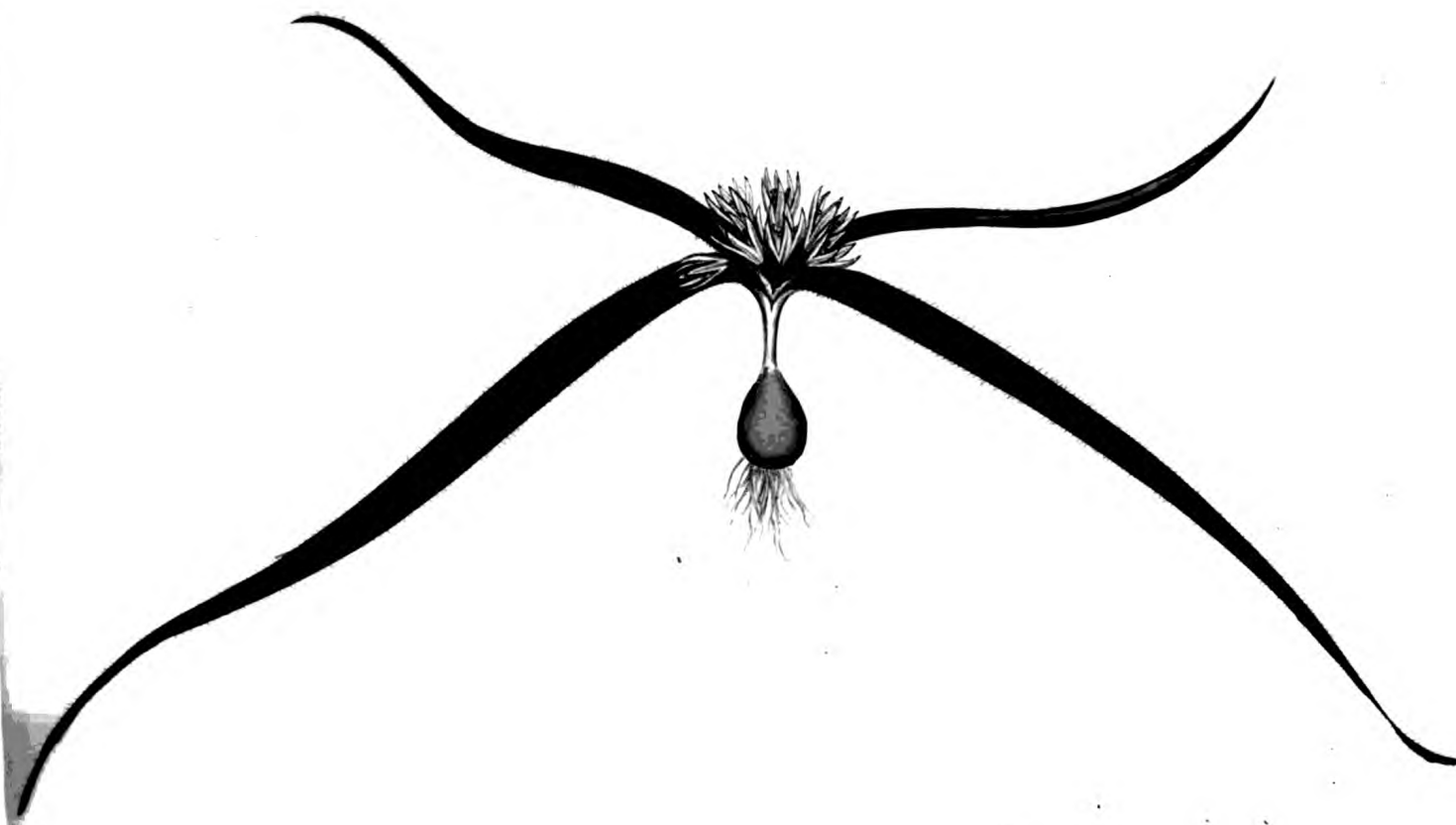


PLATE CCCLXXVIII.
GERANIUM FISSIFOLIUM.
Cloven-leaved Geranium.

CLASS XVI. ORDER IV.
MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus ros-
tratus, pentacoccus.

|| ONE POINTAL. Five summits. Fruit fur-
nished with long awns, five dry berries.

SPECIFIC CHARACTER, &c.

GERANIUM, radice tuberosa, pinnulis foliorum
inæqualiter fissis, scapis radicalibus sim-
plicibus numerosis.

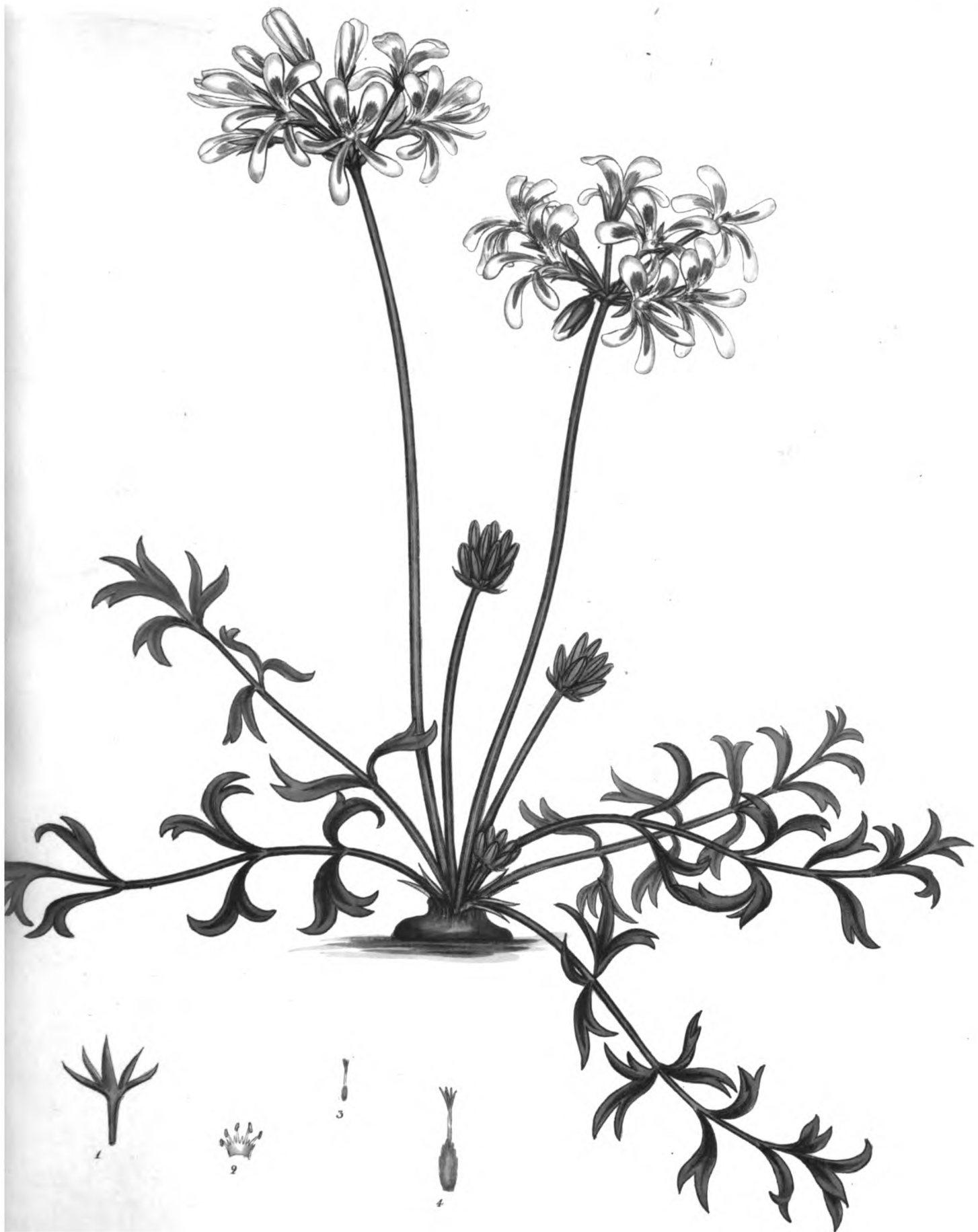
|| GERANIUM, with a tuberous root, the little
wings of the leaves unequally cloven, and
flower-stalks radical simple and nu-
merous.

REFERENCE TO THE PLATE.

1. The empalement.
 2. The chives spread open.
 3. The pointal and seed-bud.
 4. The same magnified.
-

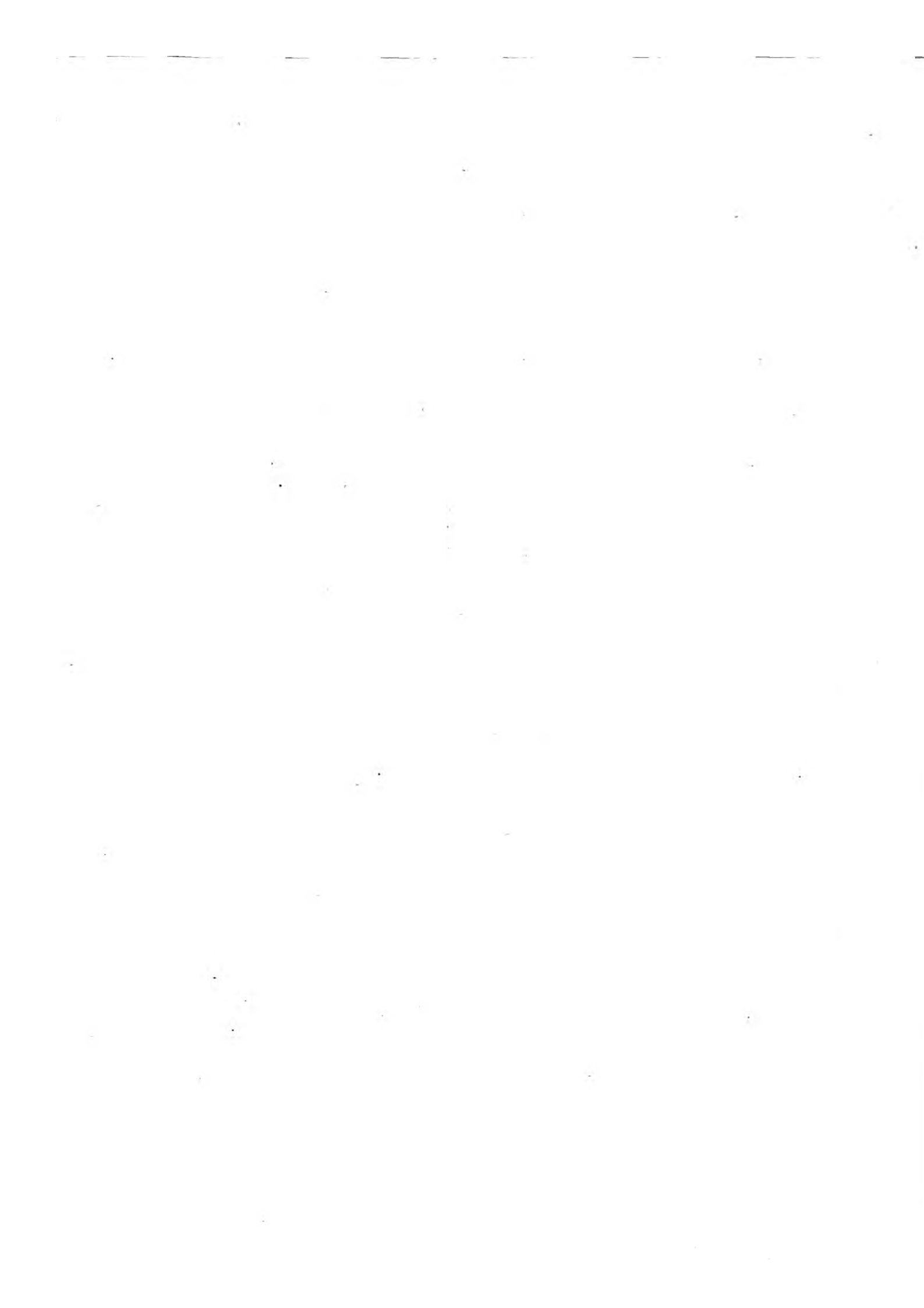
THIS charming species of the tuberous-rooted family of Geranium adds one more to the considerable number in that branch of the genus, which we have already had the satisfaction of laying before our subscribers: nor is it the last we hope to have it in our power to treat them with; for we still possess drawings of two or three more. As a species, it is extremely distinct; and as a beauty, rivalled by very few of its affinities we are acquainted with. It does not appear to have been noticed by any author within our knowledge; flowers at the same time as *Geranium barbatum*, requires the same treatment, and belongs to L'Heritier's genus *Erodium*.

Our drawing was taken from the Clapham collection some time since; but we cannot at present procure any specimen of it: which prevents us from describing it in a technical manner.



Crinum filifolium

Crinum filifolium (L.) Sw.



P L A T E C C C L X X I X .
R H O D O D E N D R O N P O N T I C U M , *var. deciduum.*
Deciduous Purple Rhododendron.

C L A S S X . O R D E R I .

D E C A N D R I A M O N O G Y N I A . T e n C h i v e s . O n e P o i n t a l .

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|---|--|---|
| C A L Y X 5 - p a r t i t u s . C o r o l l a r o t a t o - i n f u n d i b u l i - f o r m i s . S t a m i n a d e c l i n a t a . C a p s u l a 5 - l o c u l a r i s . | | E M P A L E M E N T o f 5 d i v i s i o n s . B l o s s o m w h e e l - f u n n e l - s h a p e d . C h i v e s d e c l i n e d . C a p s u l e 5 - c e l l e d . |
|---|--|---|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|--|--|---|
| R H O D O D E N D R O N , f o l i i s l a n c e o l a t i s d e c i d u i s , l a c i n i i s c o r o l l æ v a l d e u n d u l a t i s . | | R H O D O D E N D R O N , w i t h l a n c e d d e c i d u o u s l e a v e s , a n d s e g m e n t s o f t h e c o r o l l a v e r y m u c h w a v e d . |
|--|--|---|

R E F E R E N C E T O T H E P L A T E .

1. The empalement and peduncle.
2. The same, with the chives and pointal.
3. A chive detached, the tip magnified.
4. The seed-bud and pointal.

THE figure which accompanies this description represents a beautiful plant, which is probably an hybrid one; generated between some Azalea and the pontic Rhododendron. It is reported to have been raised some time since in the Nursery at Mile-end, from seeds which were grown in this country. In appearance, and in the structure of the leaves, it resembles its supposed mother the Rhododendron ponticum; but in their deciduous nature, and in some parts of the inflorescence; and likewise in other particulars; it betrays a considerable similitude to the American Azaleæ.

The pontic Rhododendron is a very sportive species; varies much in the formation and colour of its corolla; and we cultivate a strong variety of it with the flowers of *R. maximum*. The present variety has not any of its undulated flowers spotted with yellow, no more than that which is figured by Pallas in *Flora Rossica*: yet the spotting of the three superior segments of the corolla is pretty constant in most of the varieties which we have examined; and is even present, although faintly, in *R. maximum*. Our figure was taken at Whitley and Brames's in the month of May.



Rhododendron ponticum Var. *deciduum*.

Pub. par the Scot. Dilect. Socy Lond.
by J. Anderson & H. Knapp del. sculp.

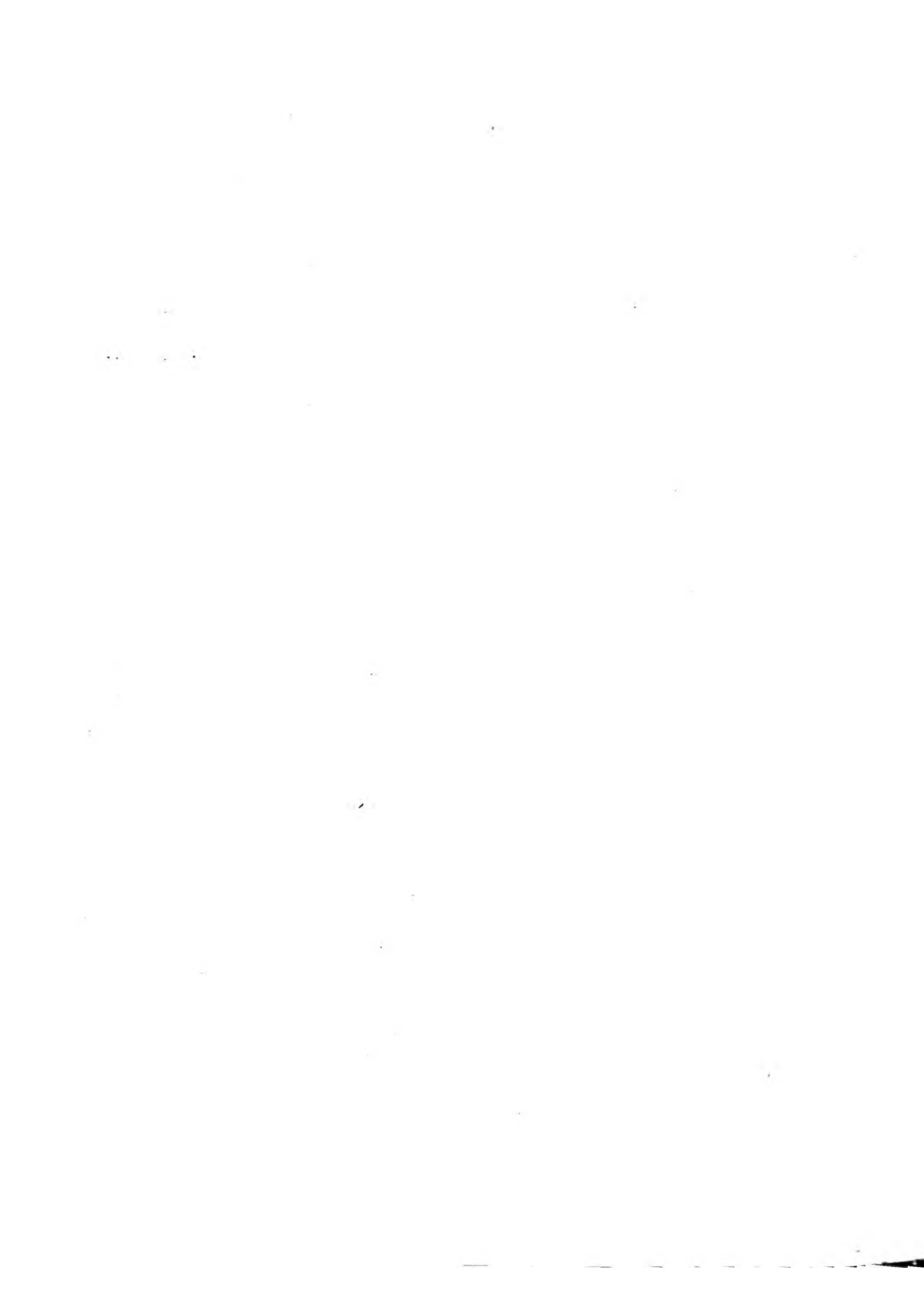




PLATE CCCLXXX.
ACHYRANTHES PORRIGENS.
Divaricating Achyranthes.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|---|
| FLORES incompleti, inferi. Calyx 5-phyllus. Corolla 0. Stigma 2-fidum. Semina solitaria. | | FLOWERS incomplete, beneath. Empalement 5-leaved. Corolla none. Summit 2-cleft. Seeds solitary. |
|--|--|---|

SPECIFIC CHARACTER, &c.

| | | |
|---|--|--|
| ACHYRANTHES, foliis oppositis, lanceolatis, spicis ovatis, acutis. <i>Jacq. Hort. Schœnb.</i> 3. 349. t. 350. | | ACHYRANTHES, with leaves opposite, spear- shaped, and egg-shaped sharp-pointed spikes. |
|---|--|--|

DESCRIPTIO. Suffrutex ramulis distantibus, filiformibus, canescentibus. *Folia* opposita, elliptico-ovata, breviter petiolata, obsolete venosa, supra pallide viridia lente pubescentia; subtus pallidiora magisque pubescentia. *Flores* dichotome-paniculati, divaricati, capitulis ovalibus, persistentibus, ante et post exsiccationem læte purpureis pulchellisque, ut in *Gomphrenâ* perenni.

REFERENCE TO THE PLATE.

1. A flower complete.
2. The empalement magnified.
3. The blossom magnified.
4. The same cut open.
5. The seed-bud and pointal.

ACHYRANTHES porrigens was introduced into this country from Paris, in the year 1802, by Mr. Woodford of Vauxhall; but its native country we have not ascertained. Our figure was taken from a fine plant in the collection of J. Vere, esq. at Kensington Gore; where it is considered and treated as a hot-house plant of the more hardy kind; and rises to the height of 2 or 3 feet. Thrives well in rich earth, and flowers freely in spring, making an elegant but not showy appearance. Its flowers resemble those of *Gomphrena perennis*, and like them preserve their colours after death, if gathered before they are fully blown; and are capable of becoming both a novel and a graceful addition to our dried bouquets. Is propagated by cuttings, and promises fair to ripen seeds; but is at present extremely rare.



hyranthes porrigens.



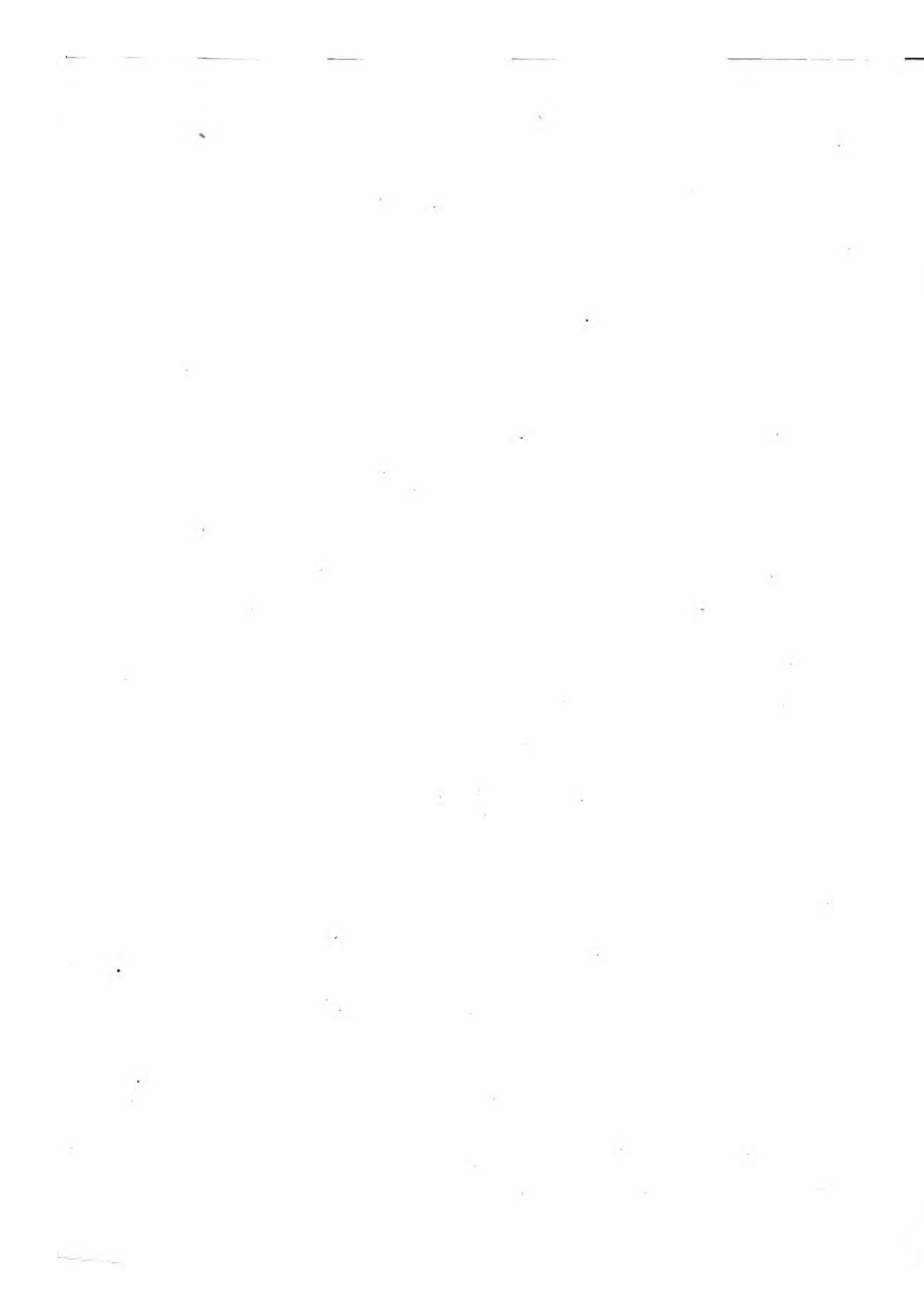


PLATE CCCLXXXI.
SARRACENIA FLAVA.
Yellow Side-saddle Flower.

CLASS XIII. ORDER I.
POLYANDRIA MONOGYNIA. Many Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|--|
| CAPSULA 5-locularis. Stigma clypeatum. Calyx exterior 3-phyllus, superior 5-phyllus. | | CAPSULE 5-celled. Stigma shield-shaped. Calyx outer 3-leaved, upper 5-leaved. |
|--|--|--|

SPECIFIC CHARACTER, &c.

| | | |
|---|--|---|
| SARRACENIA, foliis erectis tubulatis, valva collo contracta, apice plana erecta. | | SARRACENIA, with erect leaves, the valve con- tracted in the neck, with its point flat and erect. |
|---|--|---|

SARRACENIA flava, *Walt. Fl. Carol.* 153.—*Aiton Hort. Kew.* 2. 225.—*Willd. Sp. Pl. tom. 2.* 1150.

REFERENCE TO THE PLATE.

1. A back view of the flower.
2. A flower deprived of its superior calyx leaves, showing the situation and structure of the stamina and style.

Few of the productions of Flora exhibit such extraordinary appearances as those of the small but interesting genus *Sarracenia*: whether we contemplate their tubulose, water-holding, lidded leaves; or the strange conformation of their flowers; but more especially their enormous shield-shaped stigmata.

Walter enumerates four species of *Sarracenia* in his *Flora Caroliniana*, all perennial-rooted; and all at this time existing in the London gardens; but they are rare.

The Side-saddle Flowers are rather difficult of cultivation, and succeed best when treated as greenhouse bog plants; and when plentifully supplied with water. They are propagated by dividing their roots in spring. The specimen from which our figure was taken, was obligingly sent us by the honourable Mr. Irby of Farnham Royal, Bucks.



Irracenia flava

Wm. Wood

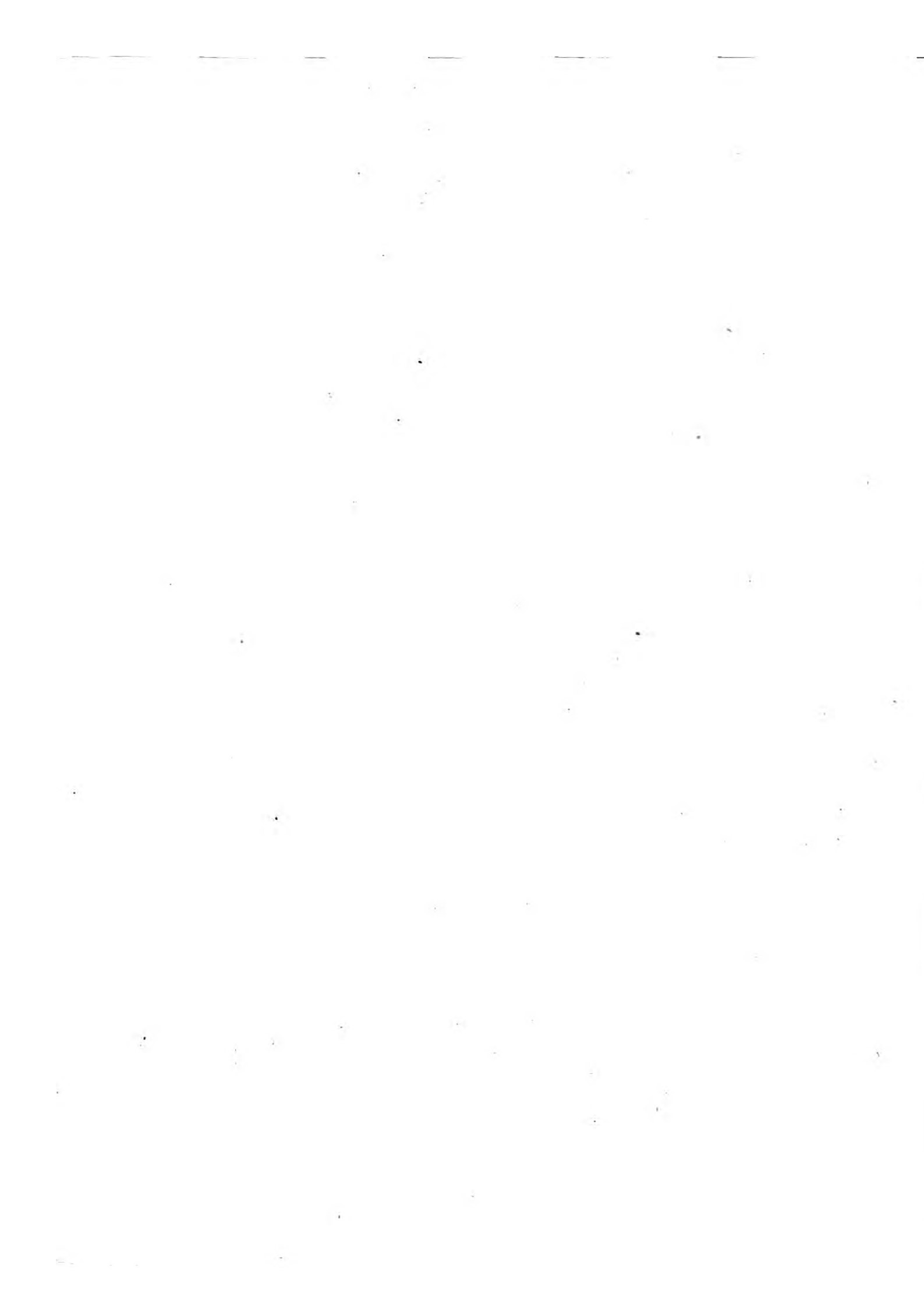


PLATE CCCLXXXII.
LIPARIA VILLOSA.

Concave-leaved Liparia.

CLASS XVII. ORDER III.

DIADELPHIA DECANDRIA. Two Brotherhoods. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

CALYCIS lacinia infima elongata. Alæ inferius bilobæ. || THE lower segment of the empalement elongated. The wings two-lobed on the lower margin.

SPECIFIC CHARACTER, &c.

LIPARIA, floribus fasciculatis, foliis subrotundis concavis, extus tomentosis, intus villosis nudisque. || LIPARIA, with fasciculated flowers, leaves roundish concave, downy outwardly, and villose or naked within.

LIPARIA villosa *α*. Willd. *Sp. Pl.* 3. 1117. excluso synonymo Thunbergii; quod ad varietatem *β*. potius pertinet.

LIPARIA vestita, floribus capitatis, foliis ovatis concavis subtus lanatis. *Thunb. Prod.* 124. et etiam Willd. *Sp. Pl.* 3. 1115.

GENISTA africana tomentosa, folio cochleariformi, flore luteo. *Seba Thes.* 1. p. 38. tab. 24. f. 1.

REFERENCE TO THE PLATE.

1. The empalement.
2. The banner.
3. One of the wings.
4. The keel.
5. The chives and pointal.
6. The seed-bud.

THE *Liparia villosa* is a native of the Cape of Good Hope, and rises with a shrubby, but not much branched stem, to the height of two or three feet. The silvery wool which clothes the younger branches and leaves of the plant gives it a very handsome appearance; yet by age it sometimes acquires a somewhat rusty tint. The leaves are nearly round, and assume, particularly when dried, a deep concave form, and very much resemble in shape, small bivalve shells; a circumstance noticed long since by the great naturalist Seba, as will appear on consulting the synonyms above given. The variety *β*. of Willdenow has much narrower, and not concave leaves; and is a very distinct species.

The concave-leaved *Liparia* is propagated, but not readily, by cuttings; prefers the treatment of a green-house plant, a light, but good soil; and, like most woolly plants, is very liable to be destroyed by damps. Our figure was taken in May last at George Hibbert's, esq.



Liparia villosa

Liparia villosa (L.) Kuhn
1830, *Bot. Beecheyana*, p. 10, t. 1, f. 10.



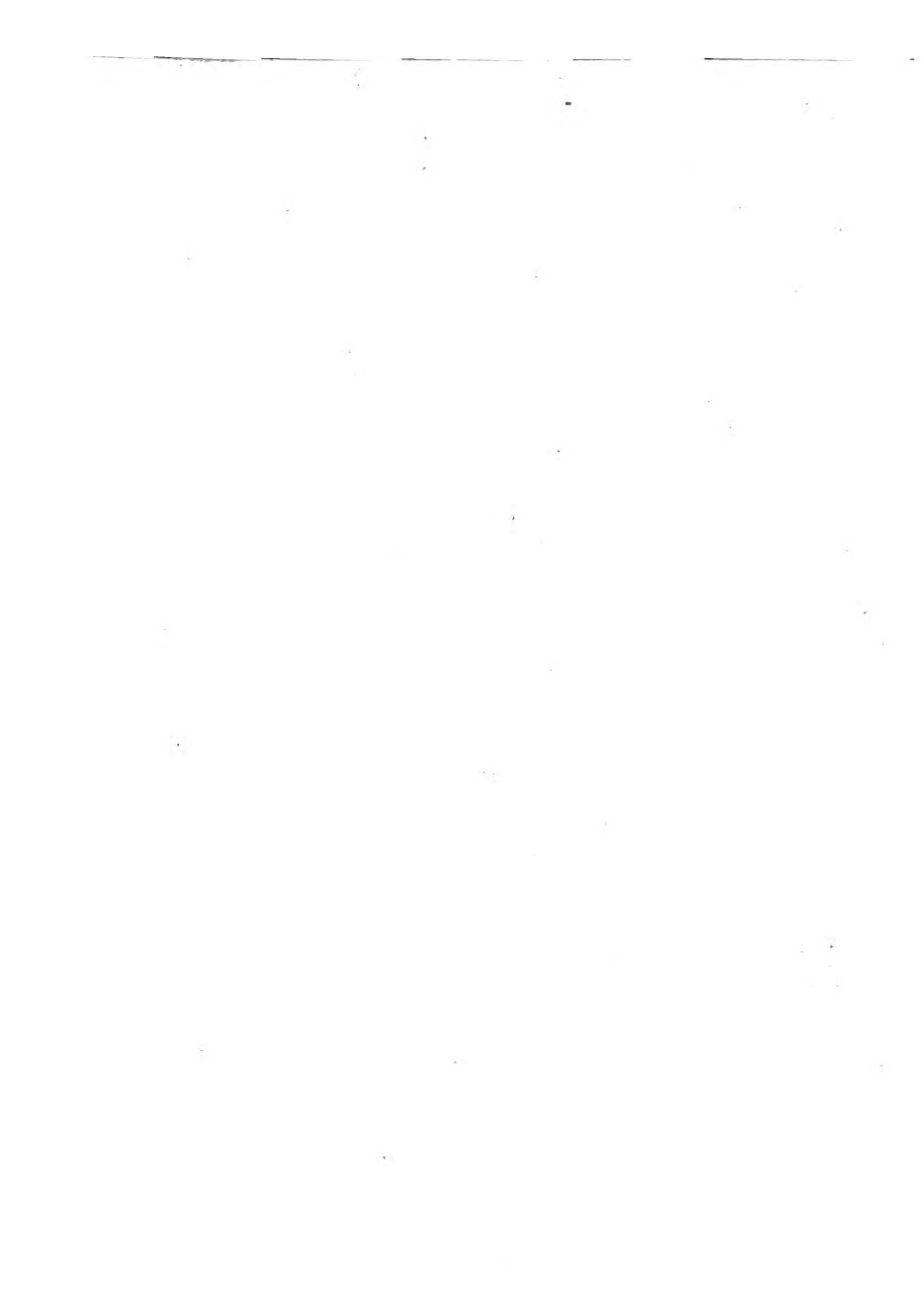


PLATE CCCLXXXIII.
PITTIOSPORUM UNdulatum.

Waved-leaved Pittosporum.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|--|---|
| CAPSULA 2—5-locularis, 5-valvis. Semina tecta pulpa. Petala conniventia in tubum. | | CAPSULE 2—5-celled, 5-valved. Seeds covered with pulp. Petals converging into a tube. |
|---|--|---|

SPECIFIC CHARACTER, &c.

| | | |
|--|--|--|
| PITTIOSPORUM, foliis lanceolatis undulatis acutis. | | PITTIOSPORUM, with lance-shaped, waved sharp-pointed leaves. |
|--|--|--|

DESCRIPTIO. Frutex erectus, ramosus. *Ramuli* fuscii, cicatricibus foliorum asperi. *Folia* breviter petiolata, lanceolata, vel elliptico-lanceolata, acuta, undulata, rigida, lucida, viridia, et reticulatim venosa; subtus pallidiora. *Flores* terminales, racemosi, albicantes, pedunculis inæqualibus, rufescentibus, obsolete bracteatis. *Calyx* 5-fidus, deciduus, laciniis acutis, recurvis. *Corolla*, petala 5, lineari-lanceolata, obtusa, revoluta, inferne in tubum conniventia. *Stamina*, filamenta 5, receptaculo inserta, stricta, subulata, subcompressa, altitudine styli; antheræ erectæ, luteæ. *Stylus* albidus, petalis brevior. Stigma obtusum.

REFERENCE TO THE PLATE.

1. The empalement.
2. One of the petals.
3. The chives and pointal, with one tip magnified.
4. The pointal and seed-bud magnified.

THE *Pittosporum undulatum* is a new plant, introduced into this country in the year 1793 from New Holland, where it is a native. It rises with a shrubby stem, which is branched above, to the height of several feet. Its branches are adorned with a fine undulated foliage that is rigid to the touch; and are terminated, in the month of May, with bunches of whitish flowers.

Is as yet a very rare species, and is raised from imported seeds; and likewise by cuttings. Requires, and thrives well with, the common treatment of a green-house or conservatory plant; and deserves a place in every extensive collection. Our drawing was made from a specimen in the Nursery of Messrs. Colvil, in the King's Road.



PLANTAE COLUBINAE
P. SPERMUNDULATUM

Phalaena

M. S. V. B. D. R. I.

M. S. V. B. D. R. I. P. C. H. R. O. S. O. P. O. I. T. A. L.

PLANTAE COLUBINAE

PLANTAE COLUBINAE. P. SPERMUNDULATUM. P. SPERMUNDULATUM. P. SPERMUNDULATUM.

PLANTAE COLUBINAE

PLANTAE COLUBINAE. P. SPERMUNDULATUM. P. SPERMUNDULATUM. P. SPERMUNDULATUM.

PLANTAE COLUBINAE. P. SPERMUNDULATUM. P. SPERMUNDULATUM. P. SPERMUNDULATUM.

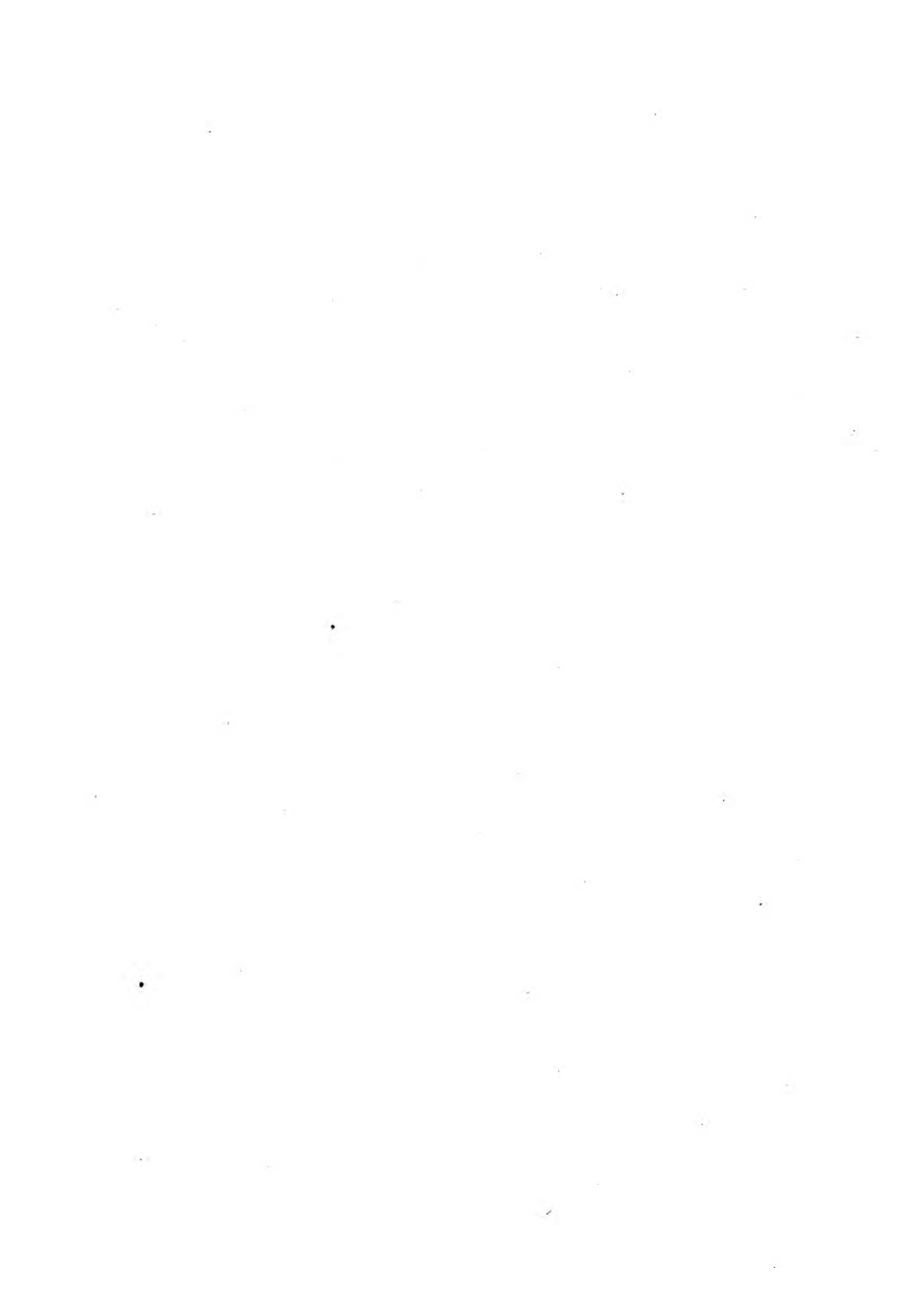
PLANTAE COLUBINAE

1. PLANTAE COLUBINAE
2. PLANTAE COLUBINAE
3. PLANTAE COLUBINAE
4. PLANTAE COLUBINAE

PLANTAE COLUBINAE. P. SPERMUNDULATUM. P. SPERMUNDULATUM. P. SPERMUNDULATUM.



Asperum undulatum



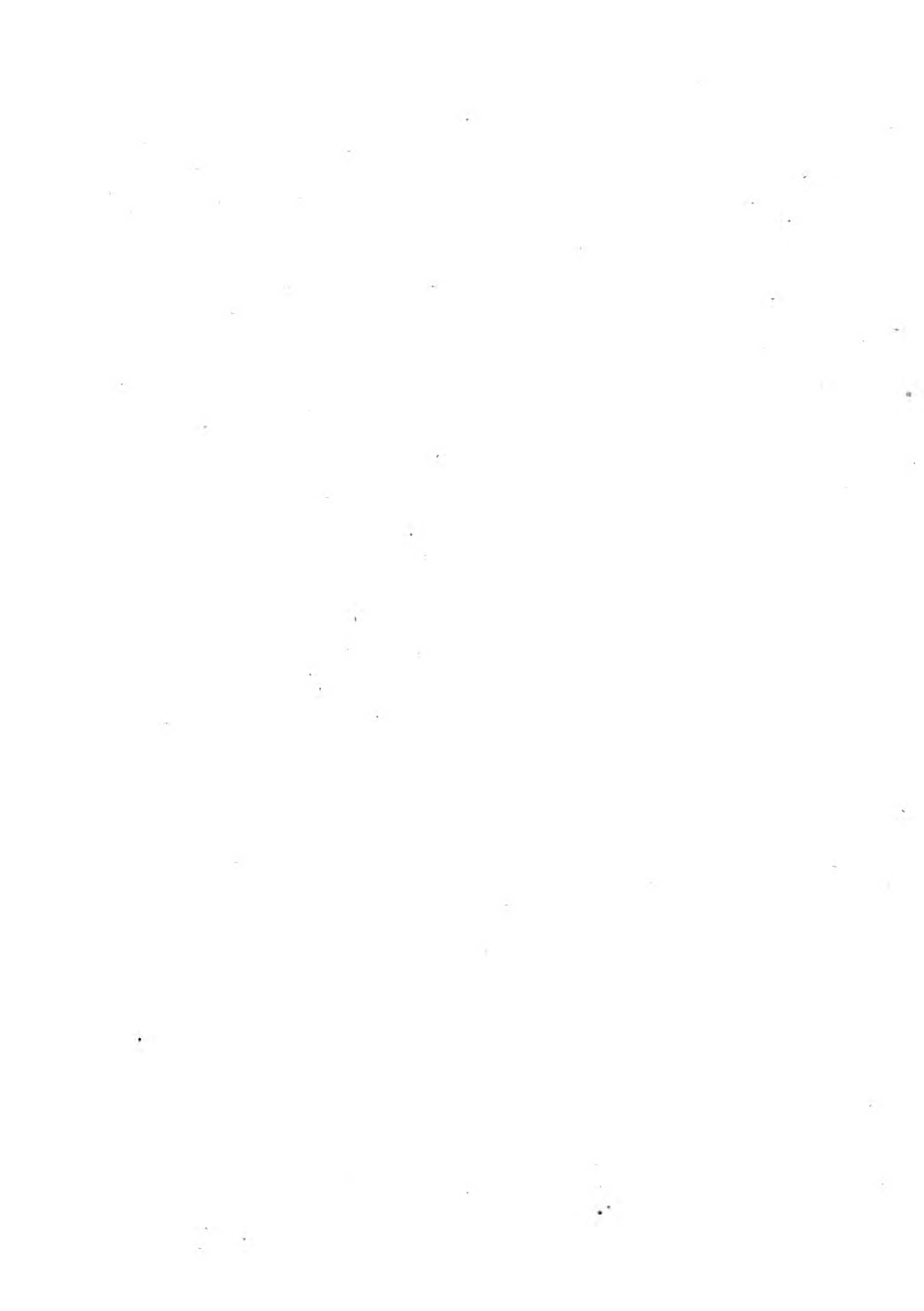


PLATE CCCLXXXIV.
XERANTHEMUM VARIEGATUM.
Variegated Eternal Flower.

CLASS XIX. ORDER II.

SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous Pointals.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|--|---|
| <p>RECEPTACULUM paleaceum, aut nudum. Pappus setaceus. Calyx imbricatus, radiatus; radio colorato.</p> | | <p>RECEPTACLE chaffy, or naked. Feather bristly. Empalement tiled, rayed: the ray coloured.</p> |
|---|--|---|

SPECIFIC CHARACTER, &c.

| | | |
|--|--|---|
| <p>XERANTHEMUM, floribus solitariis nutantibus, squamis calycinis obtusis maculatis.</p> | | <p>XERANTHEMUM, with solitary nodding flowers, and the scales of the empalement obtuse and spotted.</p> |
|--|--|---|

XERANTHEMUM variegatum. *Syst. Veg.* 614.—*Syst. Veg. Litchf. ed. 2. p.* 614.—*Reich. Syst. Pl. pars 3.* 766.

XERANTHEMUM africanum Gnaphalii foliis tomentosis, foliis et squamorum summitatibus ferrugineis. *Raii Suppl.* 181.

REFERENCE TO THE PLATE.

1. An hermaphrodite floret magnified.
2. The chives, pointal, and seed-bud magnified.
3. One of the scales of the empalement.
4. The receptacle.

THE *Xeranthemum variegatum* is a small shrub, and seldom attains the height of two feet. It is a native of the Cape of Good Hope, and was lately introduced from that country to the collection of George Hibbert, esq. where our drawing was taken in the month of May. It requires the same treatment as the other species of the genus, and is propagated in the same manner. The leaves are linear-lanced, embrace the stem alternately, and when old are often reflexed in an imbricated manner: they are clothed, as well as the stems, with wool; and resemble fine woollen cloth to the touch, and often have their edges and points of a purplish rusty colour. The bracteated peduncles are from one to three in number, at the end of each branch. The young flowers are more highly coloured than the old ones, which sometimes assume a nodding attitude: when aged they bleach almost white, except the points of the calycine scales, which always retain a purplish blotch.



1



2

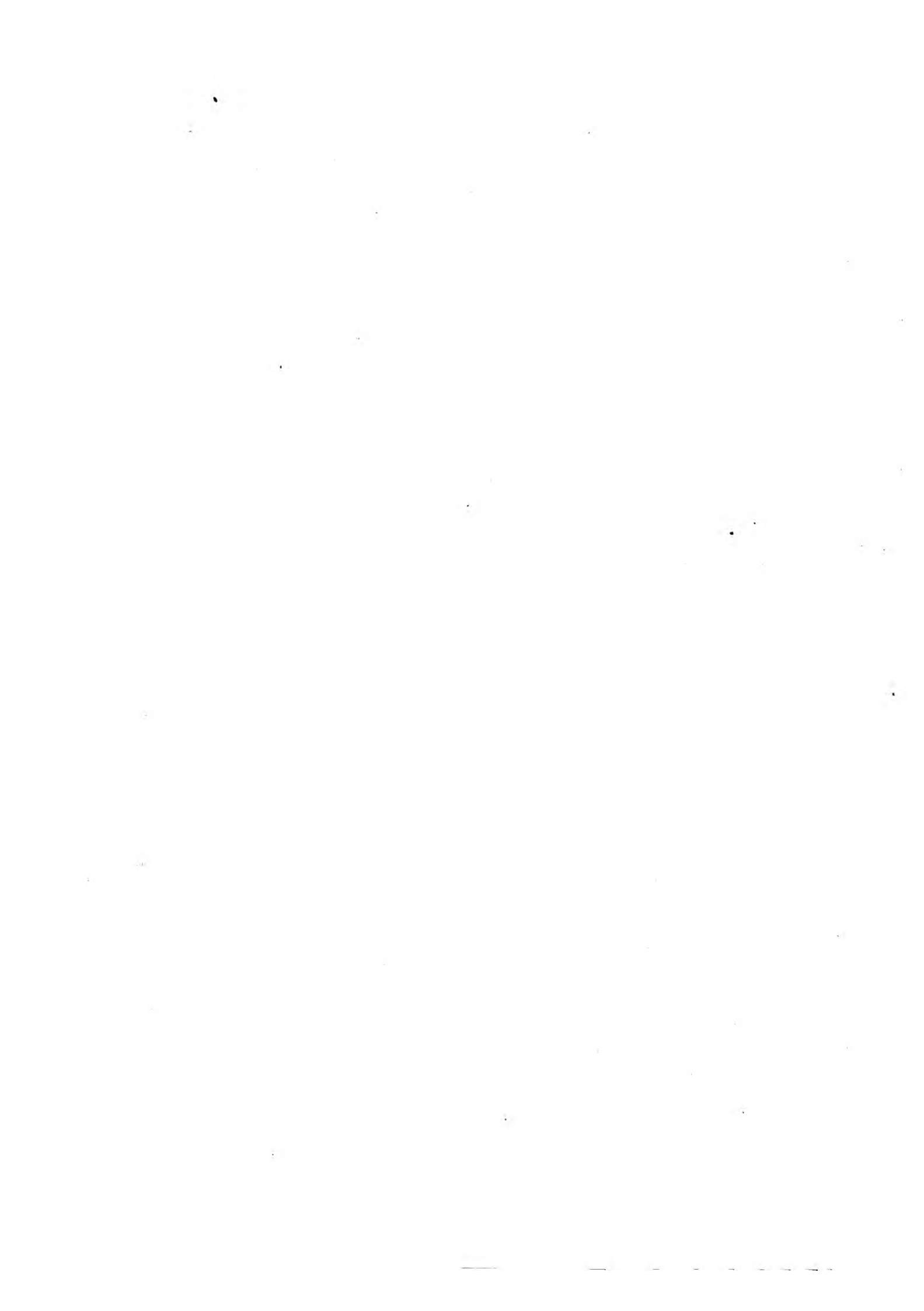


3



4

Geranthium variegatum





P L A T E C C C L X X X V .
 C A M P A N U L A L A C I N I A T A .
Ragwort-leaved Bell Flower.

C L A S S V . O R D E R I .

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|--|--|---|
| <p>COROLLA campanulata, fundo clauso valvis staminiferis. Stigma 3-fidum. Capsula infera, poris lateralibus dehiscens.</p> | | <p>COROLLA bell-shaped with the mouth closed by staminiferous valves. Summit 3-cleft. Capsule beneath, gaping with lateral pores.</p> |
|--|--|---|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|---|--|---|
| <p>CAMPANULA, capsulis obtectis pedunculatis, foliis serratis; radicalibus lyratis; caulinis lanceolatis.</p> | | <p>BELL FLOWER, with pedunculated covered capsules, and serrated leaves; the root ones lyrated; the stem ones spear-shaped.</p> |
|---|--|---|

CAMPANULA laciniata. *Willd. Sp. Pl.* 1. 911.

CAMPANULA Græca, saxatilis, Jacobææ foliis. *Tourn. Voyage* 1. 201. cum icone.—*Coroll. Inst. Rei Herb.* 3.

DESCRIPTIO. Herba undique villosa. *Radix* biennis. *Folia* radicalia lyrato-pinnatifida, pinnulis incis; caulina alterna, sublanceolata, inciso-serrata. *Pedunculi* bracteis subovatis dentatis instructi. *Flores* numerosi cærulei.

R E F E R E N C E T O T H E P L A T E .

1. The empalement.
2. The blossom laid open.
3. The seed-bud, chives and pointal.
4. A chive magnified.
5. The seed-bud and pointal, the summit magnified.

THE Campanula laciniata, although introduced into the British gardens so long since as the year 1790, is still a very scarce species: this is not owing to a want of beauty, but to its having a biennial root, and not perfecting its seeds well, except in favourable situations. It was originally discovered by the celebrated French traveller and botanist Tournefort, about a century since, on a remarkable rock in the Island of Sikino in Greece; where he appears to have been highly delighted with its beauty and appearance, and says it is "*the fairest Campanula in all Greece* *." However applicable this encomium may have been in those days, it ceases to be so now; for, without detracting from the fairness and beauty of the present plant, we have in cultivation another Grecian Campanula, still more fair and beautiful, and much more rare, which we hope soon to have the pleasure of presenting to our subscribers.

The Ragwort-leaved Campanula is usually treated as an alpine plant, and wintered in a frame: it is increased by seeds, and is impatient of superfluous moisture.

* Tournefort's Voyage, vol. i. page 201.



Campanula laciniata

PLATE CCCLXXXVI.
ANTHERICUM PUGIONIFORME.
Dagger-leaved Anthericum.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|-----------|--|
| <p>CALYX patens aut connivens. Stamina filamentis filiformibus hirsutis. Stigma 1. Semina angulata. <i>Juss. Gen. Pl. 52.</i></p> | <p> </p> | <p>EMPALEMENT expanding or converging. Chives thread-shaped hairy. Summit 1. Seeds angulated.</p> |
|--|-----------|--|

SPECIFIC CHARACTER, &c.

| | | |
|---|-----------|--|
| <p>ANTHERICUM, foliis carnosis linearibus acuminatis canaliculatis, scapo foliis duplo longiore.</p> | <p> </p> | <p>ANTHERICUM, with fleshy linear acuminate channelled leaves, with a stalk twice their length.</p> |
|---|-----------|--|

ANTHERICUM pugioniforme. *Willd. Sp. Pl. 2. 144.*

ANTHERICUM filamentis barbatis acaule, radice subrotunda perenni, foliis crasso-subulatis antice sulcatis apice teretibus pulposis erectis. *Jacq. Ic. rar. 2. t. 405.*

PETALA sex, oblonga, obtusa, plana, patentissima, lutea, cum fascia longitudinali media utrinque viridi. Filamenta subulata patula, petalis breviora, flavescencia, circa medium omnia ex viridiflavo dense barbata. Antheræ oblongæ, flavæ. Germen ovatum, superum. Stylus filiformis, erectus, longitudine staminum. Stigma obtusum. *Jacq. Collect. Supp. 83.*

REFERENCE TO THE PLATE.

1. The seed-bud, chives and pointal.
2. A chive magnified.
3. The seed-bud and pointal.

A NATIVE of the Cape of Good Hope, from whence it was sent some time since to the collection of G. Hibbert, esq. Clapham Common; where our figure was taken last autumn. It is rather more singular in its appearance, than beautiful; but is at present extremely rare, and deserves a place in all collections; prefers the treatment of a green-house succulent plant, and requires much air; but must be carefully defended from superfluous humidity; particularly when not in a state of active growth; and is best kept constantly in the house. Is propagated by parting its roots, but not very readily: and requires a light, dry soil.



Anthericum pugioniforme

Handwritten text, likely a signature or date, located at the bottom right of the page.



P L A T E C C C L X X V I I .
X E R A N T H E M U M R I G I D U M .
Rigid-leaved Eternal Flower.

C L A S S X I X . O R D E R I I .

SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous
Pointals.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|---|--|--|
| R E C E P T A C U L U M paleaceum, aut nudum. Pappus setaceus. Calyx imbricatus, radiatus; radio colorato. | | R E C E P T A C L E chaffy, or naked. Feather bristly. Empalement tiled, rayed; the ray coloured. |
|---|--|--|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|---|--|--|
| X E R A N T H E M U M , floribus parvis paniculatis; foliis villosis lineari-lanceolatis acuminatis viridibus. | | X E R A N T H E M U M , with small paniculated flowers; and hairy linear-lanced sharp-pointed green leaves. |
|---|--|--|

D E S C R I P T I O . Suffrutex, ramulis teretibus, subflexuosis, villosis. *Folia*, superiora remotiora, alterna, amplexicaulia, lineari-lanceolata, acuminata, canaliculata, rigida, villosa, viridia, superne patula. *Flores* paniculati, terminales, parvi in hoc genere, et inconspicui. *Pedunculi* lanuginoso-villosi, bracteati. *Calyces* argentei. *Corollulæ* flavicantes.

R E F E R E N C E T O T H E P L A T E .

1. A scale of the empalement.
 2. One of the hermaphrodite florets magnified.
 3. The chives and pointal.
 4. The receptacle.
-

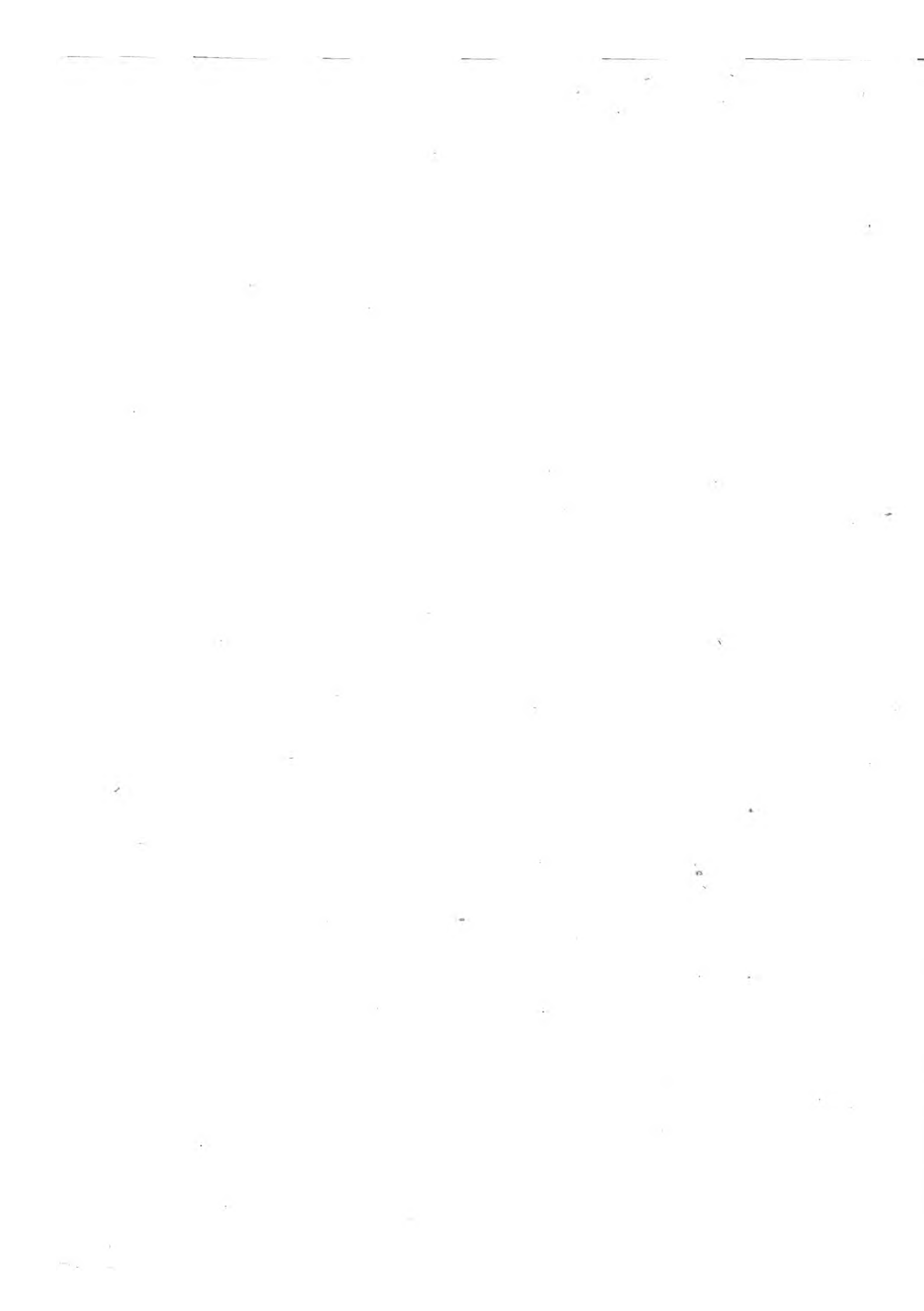
T H E plant here delineated is by no means a conspicuous one; nevertheless, as it is a genuine member of a favourite genus, and at the same time a new species, and almost the last of its fine family we shall be able to present to our readers, it cannot fail to be acceptable to them.

The present species is a weak shrubby plant, flowers freely, and succeeds with the treatment of the other eternal flowers, and is propagated in the same manner: and was lately raised from Cape seeds at our never-failing source of rare plants, the choice collection of G. Hibbert, esq. where the figure here given was made in May last.

It is very closely allied to *X. argenteum* of our 327th plate, which is the *X. paniculatum* of Thunberg and the younger Linnæus.



Veranthemum rigidum



P L A T E C C C L X X X V I I I .
M E S E M B R Y A N T H E M U M I N C L A U D E N S .
Unclosing-flowered Fig-Marygold.

C L A S S X I I . O R D E R I V .

ICOSANDRIA PENTAGYNIA. Twenty Chives. Five Pointals.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|--|-----------|--|
| <p>PETALA valde numerosa, linearia, basi cohærentia.</p> | <p> </p> | <p>PETALS very numerous, linear, cohering at the base.</p> |
|--|-----------|--|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|---|-----------|--|
| <p>M E S E M B R Y A N T H E M U M, foliis triquetris lævibus perviridibus, carinâ gibbosâ, corollis inclaudentibus, petalis interioribus valde abbreviatis imbricatisque.</p> | <p> </p> | <p>FIG-MARYGOLD, with triquetrous smooth deep green leaves, with a gibbous keel, unclosing flowers, and interior petals extremely abbreviated and imbricated.</p> |
|---|-----------|--|

DESCRIPTIO. *M. mutabili nobis affinis, sed species valde distincta: differt in his, foliis lævioribus, et longe viridioribus, minusque mucronatis, marginibus sæpius plus minusve purpureis: floribus speciosis semper apertis; nec inconspicuis, nocteque clausis; saturatissime et vivacissime rubicundis, petalis cuneato-linearibus, latis in hoc genere, apicibus erosis; interioribus (petalis) maxime abbreviatis, imbricatisque quasi in stellam. Calyx subanceps, 5-fidus, membranibus rubro punctatis. Filamenta recondita, brevissima omnium (vix linearia), alba, basi purpurea. Antheræ albidæ, circiter longitudinem filamentorum. Styli 5, erecti, pergrossi, virides, altitudine antherarum. Capsulam non vidi. H.*

R E F E R E N C E T O T H E P L A T E .

1. The empalement, seed-bud, chives and pointals.
2. The same cut perpendicularly, to show the insertion of the chives and pointal.

OUR figure represents a perfectly new and nondescript, and at the same time very ornamental species of *Mesembryanthemum*: each flower possesses the valuable property of lasting about ten days in beauty, and never closes after being once expanded: a circumstance of exceeding rare occurrence in this very extensive genus; no fewer than 214 distinct species of which we have now a knowledge of*.

M. inclaudens rises with a branched, shrubby stem, to the height of 10 or 12 inches, and is cultivated in the same manner, and propagated with the same facility, that is common and well known in this tribe: they are all very hardy green-house plants; require in winter as much air as possible, if frost is but avoided; strike freely from cuttings; are great lovers of hot, sunny and sheltered situations, when out for the summer; and are better not watered over their heads, but at the roots only.

The present species was raised from Cape seeds last season, in the collection of G. Hibbert, esq. where our drawing was made in July. Mr. Ross, Nurseryman at Stoke Newington, has also raised it from Cape seeds, and flowered it in July; and he likewise very fortunately flowered at the same time several fine specimens of *M. rostratum*; the fructifications of which have not been produced before in Europe, that we know of, although the plant has been common in the English gardens ever since the year 1732, and is one of the very few which Dillenius thought proper to figure without flowers, in his celebrated *Hortus Elthamensis*.

* 211 are described in my *Miscellanea Naturalia*, lately published. H.



Symbryanthemum inlaudens



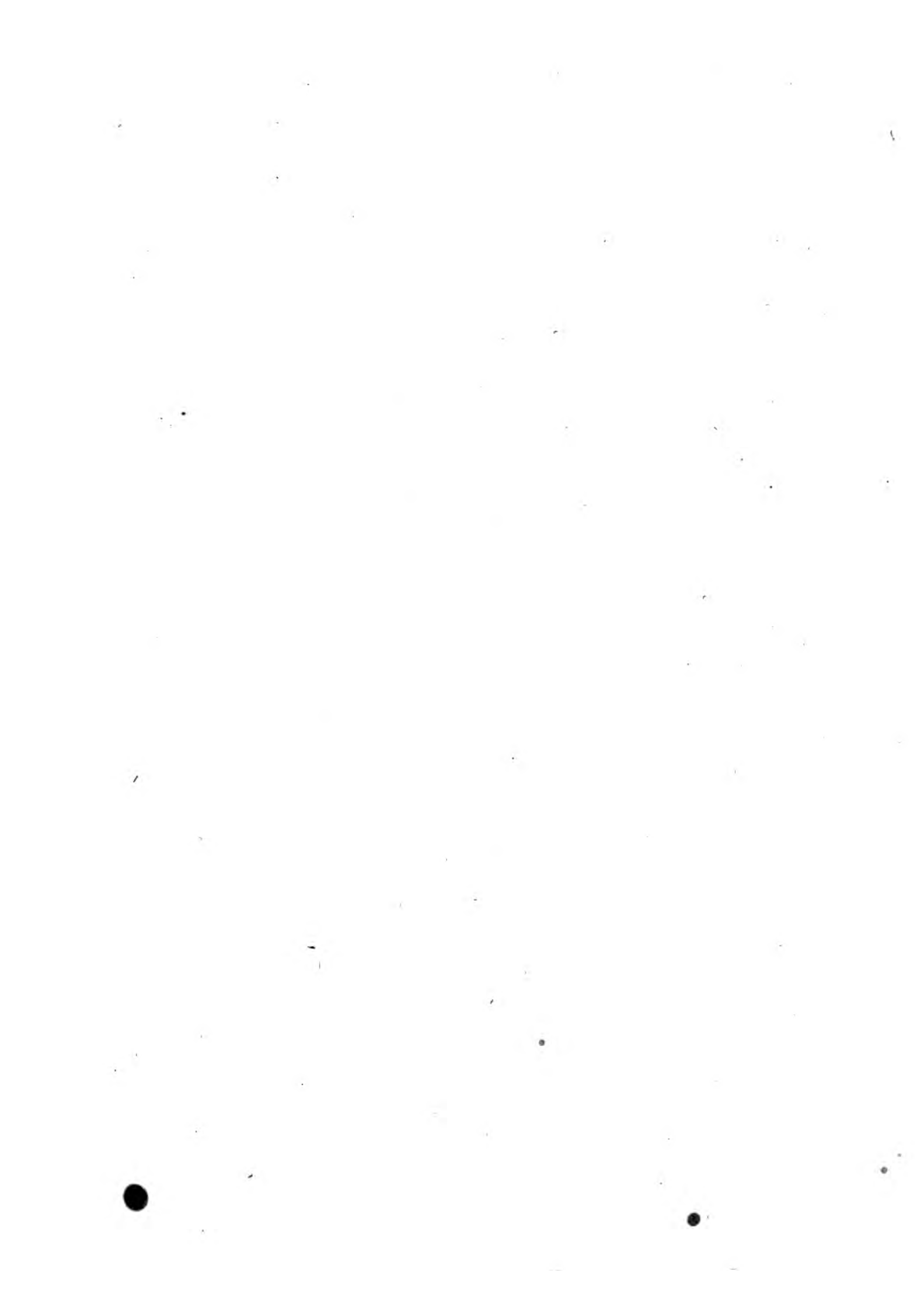


PLATE CCCLXXXIX.
DOMBEYA ERYTHROXYLON.
Saint Helena Red-wood.

CLASS XVI. ORDER VII.
MONADELPHIA DODECANDRIA. Threads united. Twelve Chives.

ESSENTIAL GENERIC CHARACTER.

CALYX duplex, exterior 3-phyllus deciduus.
 Corolla 5-petala. Stamina 10—20, quo-
 rum 5 sterilia. Stylus 5-fidus. Capsulæ
 5, coalitæ uniloculares, 1. s. polyspermæ.

EMPALEMENT double, outer 3-leaved decidu-
 ous. Corolla 5-petalled. Chives 10 to
 20, of which 5 are sterile. Style 5-cleft.
 Capsules 5, conjoined one-celled, 1- or
 many-seeded.

SPECIFIC CHARACTER, &c.

DOMBEYA, foliis ovatis acuminatis cordatis,
 subtus tomentosis reticulatis, pedunculis
 subtrifloris, floribus pentandris.

DOMBEYA, with ovate acuminate heart-
 shaped leaves, downy and reticulated
 beneath, peduncles about 3-flowered, and
 pentandrous flowers.

DOMBEYA Erythroxyton. *Willd. Sp. Pl.* 3. 725.

PENTAPETES Erythroxyton, foliis cordatis subcrenatis subtus tomentosis rugoso-reticulatis, floribus
 subumbellatis decandris. *Ait. Hort. Kew.* 2. 439.

ALCÆA arborea, populi nigræ foliis, prona parte albicantibus, flore amplissimo rubicundo. *Pluk.
 Mant.* 6. t. 333. f. 1.

DESCRIPTIO. Frutex dumosus; ramulis, petiolis teretibus, paginis inferioribus foliorum, pedunculis
 calycibusque tomentosocanis, et ferrugineo dense punctulatis. *Folia* alterna, petiolata, cordata,
 subintegra, supra perviridia, utraque venosa, subtus obsolete reticulata. *Flores* malvacei, spe-
 ciosi. *Calyx* duplex, exterior minutus, 3-phyllus, foliolis subulatis, sesquilinearibus, superior
 5-phyllus, foliolis lineari-lanceolatis, acuminatis. *Petala* 5, alba, retuse cuneata, venosa, basi uno
 latere, gibbosa, imbricata. *Stamina*, filamenta 10, atra, patula, quorum 5 sterilia, cæteris du-
 plo longiora. *Antheræ* erectæ luteæ. *Stylus* teres, albus, 5-fidus, antheras superans.

REFERENCE TO THE PLATE.

1. The empalement.
2. One of the petals.
3. The chives and pointal.
4. The chives spread open.
5. The pointal and seed-bud.

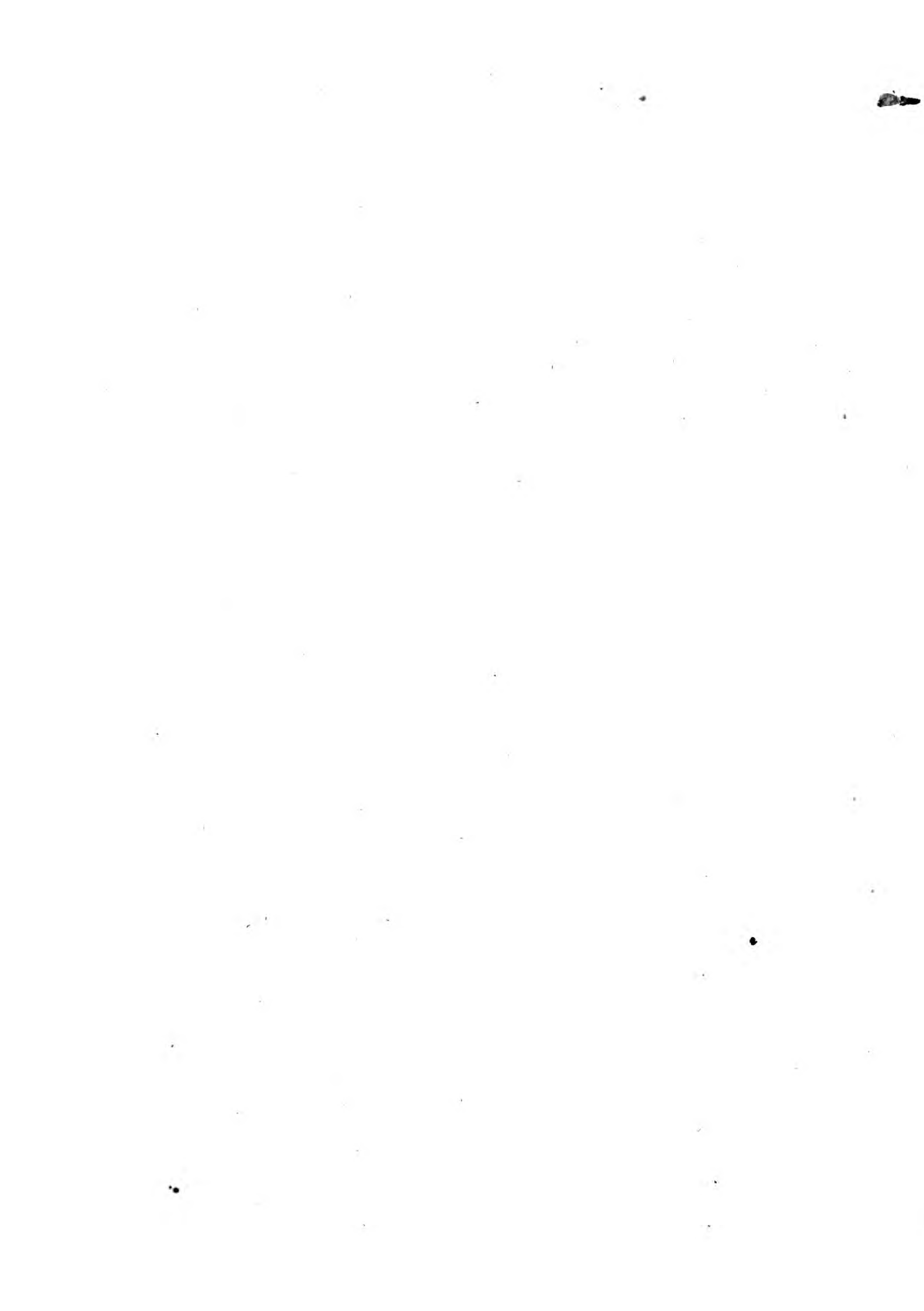
THE handsome plant here represented is a native of Saint Helena, and is known by the name of Saint Helena Red-wood. Although introduced into this country by Sir Joseph Banks in the year 1772, it is at this time one of our very rarest and most desirable of hot-house plants. Mr. Aiton enumerates it in the Hortus Kewensis, but marks no time for its flowering; which therefore, we must suppose, but seldom occurs. Our specimen was obligingly sent us by T. Evans, esq. from his fine collection at Stepney in June 1803, and we last month saw it beautifully in bloom at the honourable Charles Greville's, Paddington.

In the colour of its flowers, and in other particulars, it appears to vary. Plukenet calls them rubicund: ours were white: and in the extensive herbarium of A. B. Lambert, esq. we have examined a Saint Helena specimen with purple flowers, and less hoary but more reticulated leaves, which wanted the minute ferruginous spotting so abundant upon ours. It is propagated by cuttings in the usual way.



Dombeya Erythroxylon

Handwritten text, possibly a signature or date.



P L A T E C C C X C .
 A M A R Y L L I S S P E C T A B I L I S .
Waved-leaved Amaryllis.

C L A S S V I . - O R D E R I .

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|--|-----------|--|
| <p>COROLLA hexapetaloidca irregularis. Filamenta faucii tubi inserta declinata inæqualia pro- portione vel directione.</p> | <p> </p> | <p>COROLLA 6-petal-like irregular. Chives inserted into the throat of the tube, bent downward, and unequal in proportion or direction.</p> |
|--|-----------|--|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|---|-----------|---|
| <p>AMARYLLIS, spatha multiflora, tubo corollæ laciniis sesquolongiore, foliis lato-subula- tis serrulatisque scapo longioribus.</p> | <p> </p> | <p>AMARYLLIS, with a many-flowered sheath, the tube of the corolla longer than its seg- ments, the leaves broad-awl-shaped ser- rulated and longer than the stalk.</p> |
|---|-----------|---|

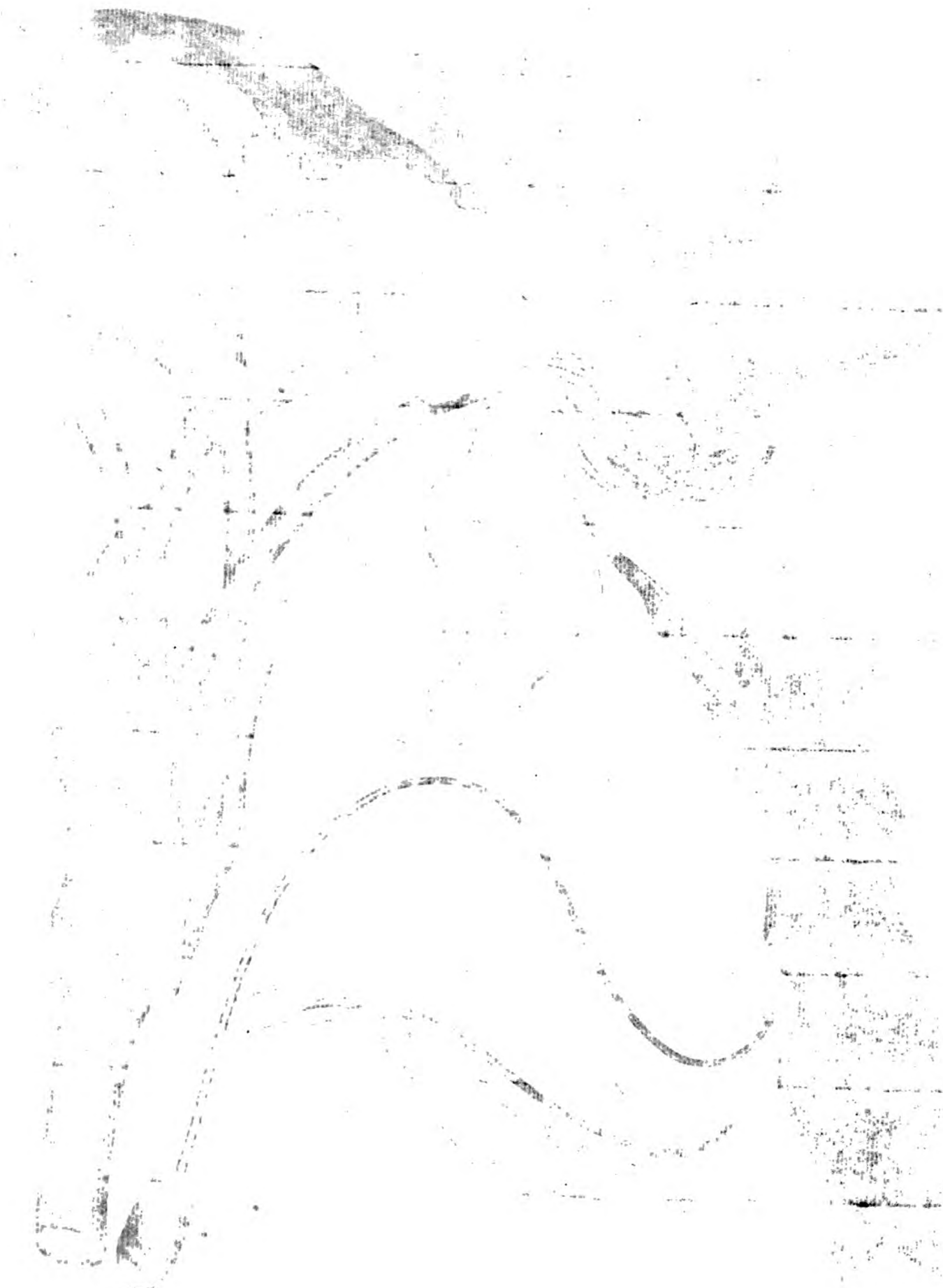
DESCRIPTIO. *Radix* bulbis mediocris tunicatus, et rotundatus, pallidusque. *Folia* multifaria, lato-subulata, sesquipedalia, subcanaliculata, lævia, viridia, carinâ pallidâ, striisque parallelis ad lucem utrinque etiam pallidis; basin versus undulata, et aliquo attenuata; margine cartilagineo, serrulis minutissimis, expansis, albis, remotisque, aspero. *Scapus* foliis duplo brevior, rubens, grossus, obtuse compressus, obsolete at irregulariter sulcato-striatulus, æquali crassitie. *Spatha* diphylla, subquadriflora, valida, foliolis lineatis, apicibus obtusissimis, et minute emarginatis, intus albis, extus virentibus, tinctura rubedinis. *Flores* sessiles, hexapetaloidci, tubulosi: tubus curvatus, angulatus, sulcatus, 5-uncialis et ultra, at gracilis, laciniis sesquolongior. *Petala* late lanceolata, undulata, acuta, alba, vittâ purpureâ. *Filamenta* alba, declinata, laciniis longe breviora. *Antheræ* versatiles, arcuatæ, magnæ, demum atræ. *Germen* sessile, compressum, viride. *Stylus* albus, superne purpureus, antheras superans. *Stigma* minutum. Infra germina, filamenta perpauca, staminiformia, sæpius adsunt.

R E F E R E N C E T O T H E P L A T E .

1. A petal with its chive attached.
2. The seed-bud and pointal.

THE magnificent species of *Amaryllis* here represented is a native of Sierra Leona; and was introduced from thence to this country, by Professor Afzelius, several years ago; but has not yet been described by any author whose works have reached us: although it will unquestionably be inserted in the Flora of that part of Africa, which the abovementioned learned Botanist is said to be preparing for publication.

Although a very tender hot-house species, it flowers freely in the tan-bed, in rich earth; but its elegant flowers, like those of *Amaryllis ornata*, which it also resembles in foliage, are of very short duration, and do not individually last in full beauty longer than a day; unless they are taken out of the hot-house as soon as expanded, and placed in some cool apartment; which indeed they well deserve. Our figure was taken from plants in very great perfection, at J. Vere's, esq. Kensington Gore, in the month of July.



Sty. sp. latifolia

NUMERUS SPECTABILIS

W. H. W. W. W.

CLASS VI. ORDER I.

NUMERUS SPECTABILIS. Six Col. in Col. Print.

1850. Price 10 Cents.

NUMERUS SPECTABILIS. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

NUMERUS SPECTABILIS. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

NUMERUS SPECTABILIS. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

NUMERUS SPECTABILIS. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

NUMERUS SPECTABILIS.

- 1. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.
- 2. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

NUMERUS SPECTABILIS. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.



Laryllis spectabilis

Wm. Woodhouse del.



PLATE CCCXCI.
 NYMPHÆA LOTUS.
The Ægyptian Lotus.

CLASS XIII. ORDER I.
 POLYANDRIA MONOGYNIA. Many Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|---|
| COROLLA polypetala. Calyx 4-s. 5-phyllus. Bacca multilocularis, loculis polysper- mis. | | BLOSSOM many-petaled. Empalement 4- or 5-leaved. Berry many-celled, with many seeds in each cell. |
|--|--|---|

SPECIFIC CHARACTER, &c.

| | | |
|--|--|--|
| NYMPHÆA, foliis cordatis dentatis glaberrimis lobis approximatis, calyce tetraphyllo. <i>Willd. Sp. Pl. 2. 1153.</i> | | NYMPHÆA, with heart-shaped dentated very smooth leaves, with the lobes approxi- mated, and a four-leaved empalement. |
|--|--|--|

REFERENCE TO THE PLATE.

1. The seed-bud and pointal. 2. A chive. 3. A transverse section of the seed-bud. 4. A capsule.

THERE can be no doubt, but that the plant here figured is the true "*Nymphæa Lotus*" of Linnæus, and that it is the plant mentioned by Pliny in Nat. Hist. lib. 13. cap. 17. and lib. 22. cap. 21. He there makes mention of a plant which is found at the ebbing of the Nile, the fruit of which resembles a poppy, and the seed of the size of millet: this exactly answers to the "*Nymphæa*" before us, and does not at all apply to the "*Nelumbium*," the kernels of which are of the size of nuts or thereabouts: he also remarks that the heads are dried by the natives, and that the seed is beat and broken and made into bread.—Herodotus also mentions that the Egyptians baked the seed into bread, and ate of the roots, or rather tubercles, which resembled an apple and had an agreeable flavour. Vide Euterpe 92—Melpomene 177.

Sonnini, in his *Voyages*, mentions the Lotus as being most abundant in Egypt, and having *white flowers*; and I apprehend the red one to be nothing but a variety of this.

When we know that the Egyptians worship the Nile, as the Indians do the Ganges, we cannot wonder that a plant so beautiful, and so abundant in that river, should also become an object of adoration; and we find it continually though roughly engraved on their idols.—Indeed Pierius, in his *Hieroglyphics*, mentions that the Egyptians worshipped the Lotus as the type of the rising Sun.—It is always found on the statues of Osiris, the Egyptian Apollo; it is also to be seen on the medals struck in Egypt by the Romans, and especially during the reign of Adrian, who held it in such veneration, that the medals which that Emperor caused to be struck in Egypt, in honour of his favourite Antinoüs, uniformly represent the latter with the Lotus on his head; whence the expression "*Antinoëan crown*."—Various animals in the Hieroglyphics appear to have it, as the hawk, the lion, and the ram. It is to be seen on most of, though not all, their deities; as Jupiter Ammon, Iris, Serapis, Orus, Canopus, and most particularly on Harpocrates, who is often figured sitting in the midst of it.—See Cuper's *Harpocrates*, passim. The Lotus symbolizes Plenty on many of the medals of Egypt and Sicily, probably from being so great an article of food among the inhabitants, and from its generally appearing at the reflux of the Nile, when the banks were again open to the various uses they might be put to. Whether or not the Lotus here figured, which I think I have sufficiently proved to be the true Egyptian one, is the same which grows in the Ganges, and is in such high veneration throughout the continent of India, China, and Japan, can only be proved by a comparison of the two together: certain however it is, that a plant of great similarity to it, if not quite the same, is to be found on most of their idols also; and as the Ganges is worshipped, so may the Lotus be, with which it abounds. It expands in the dusk of the evening, and closes about ten in the morning.

To the Right Honourable the Marquis of Blandford we are indebted for the description of this very interesting plant, accompanied by a fine living specimen from his splendid collection at White Knights near Reading, Berks.



Nymphaea Lotus.

Pub. as the Act. Pers. Sept. 1804
by H. Andrews & J. Knightbridge.



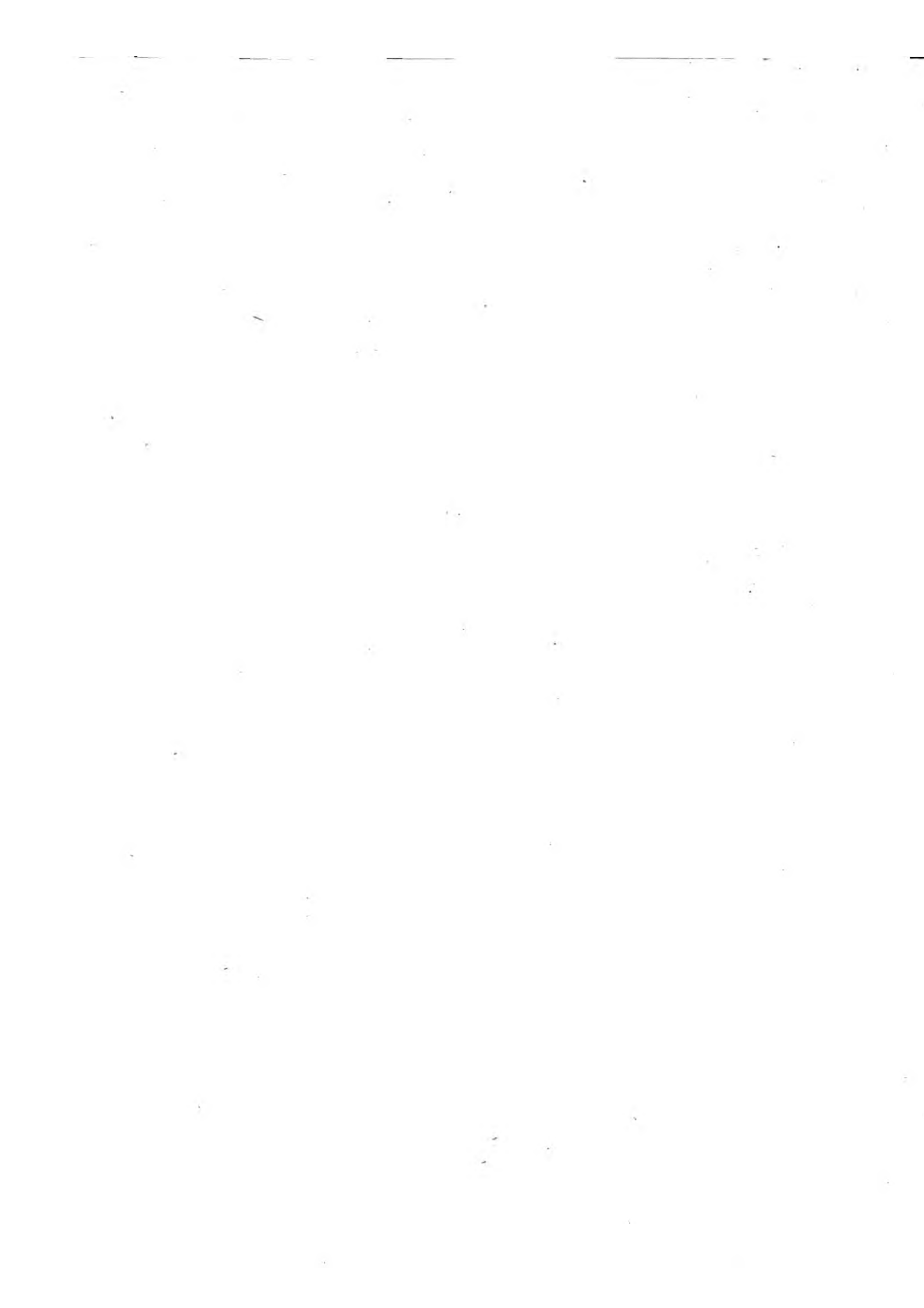


PLATE CCCXCII.
IXIA COLUMNARIS, *var. angustifolia*.
Columnar-chived Ixia. Narrowed-leaved Var.

CLASS III. ORDER I.

TRIANDRIA MONOGYNIA. Three Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|---|
| <p>COROLLA sex-petala patens æqualis. Stigmata tria erectiusculo-patula.</p> | | <p>BLOSSOM 6-petals spreading equal. Summits three upright-spreading.</p> |
|--|--|---|

SPECIFIC CHARACTER.

| | | |
|--|--|--|
| <p>IXIA, filamentis basi cohærentibus; floribus subcapitatis, petalis purpureis basi sa- turatioribus, foliis lineari-ensiformibus.</p> | | <p>IXIA, with threads united at the base, flowers rather in heads, petals purple with darker bases, and linear-sword-shaped leaves.</p> |
|--|--|--|

REFERENCE TO THE PLATE.

1. The two valves of the sheath.
2. An entire flower, cut open in the tube only, which is extended nearly to the end of the threads.
3. The chives cut open and magnified.
4. The pointal complete, one of the summits detached and magnified.

THE figure which accompanies this description represents the narrowest-leaved variety of the columnar-chived *Ixia* hitherto introduced into the British gardens.

Like the other varieties already figured in this work, it is a native of the Cape of Good Hope; and like them must be treated as a Cape-bulb; requiring only the protection of the green-house, and a mixture of loam and peat; and no water during its quiescent state.

It flowers in June or July, and is a very brilliant variety. Our figure was taken some time since at Messrs. Colvill's, Nurserymen in the King's Road.



a columnaris var. *angustifolia*

PLATE CCCXCIII.
FUMARIA FORMOSA.
Beautiful Fumitory.

CLASS XVII. ORDER II.

DIADELPHIA HEXANDRIA. Two Brotherhoods. Six Chives.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|--|--|
| CALYX diphyllus. Corolla ringens. Filamenta duo membranacea, singula antheris tribus. | | EMPALEMENT two-leaved. Blossom gaping. Threads two, membranaceous, each with three tips. |
|---|--|--|

SPECIFIC CHARACTER.

| | | |
|---|--|---|
| FUMARIA, scapis erectis, pedunculis cernuis subtrifloris bracteatis, corollis basi bilobis. | | FUMITORY, with erect stalks, cernuous nearly 3-flowered bracteated peduncles, and blossoms two-lobed at the base. |
|---|--|---|

REFERENCE TO THE PLATE.

1. The empalement.
2. A flower spread open, showing the insertion of the chives, with one filament detached and magnified.
3. The seed-bud and pointal, the summit magnified.

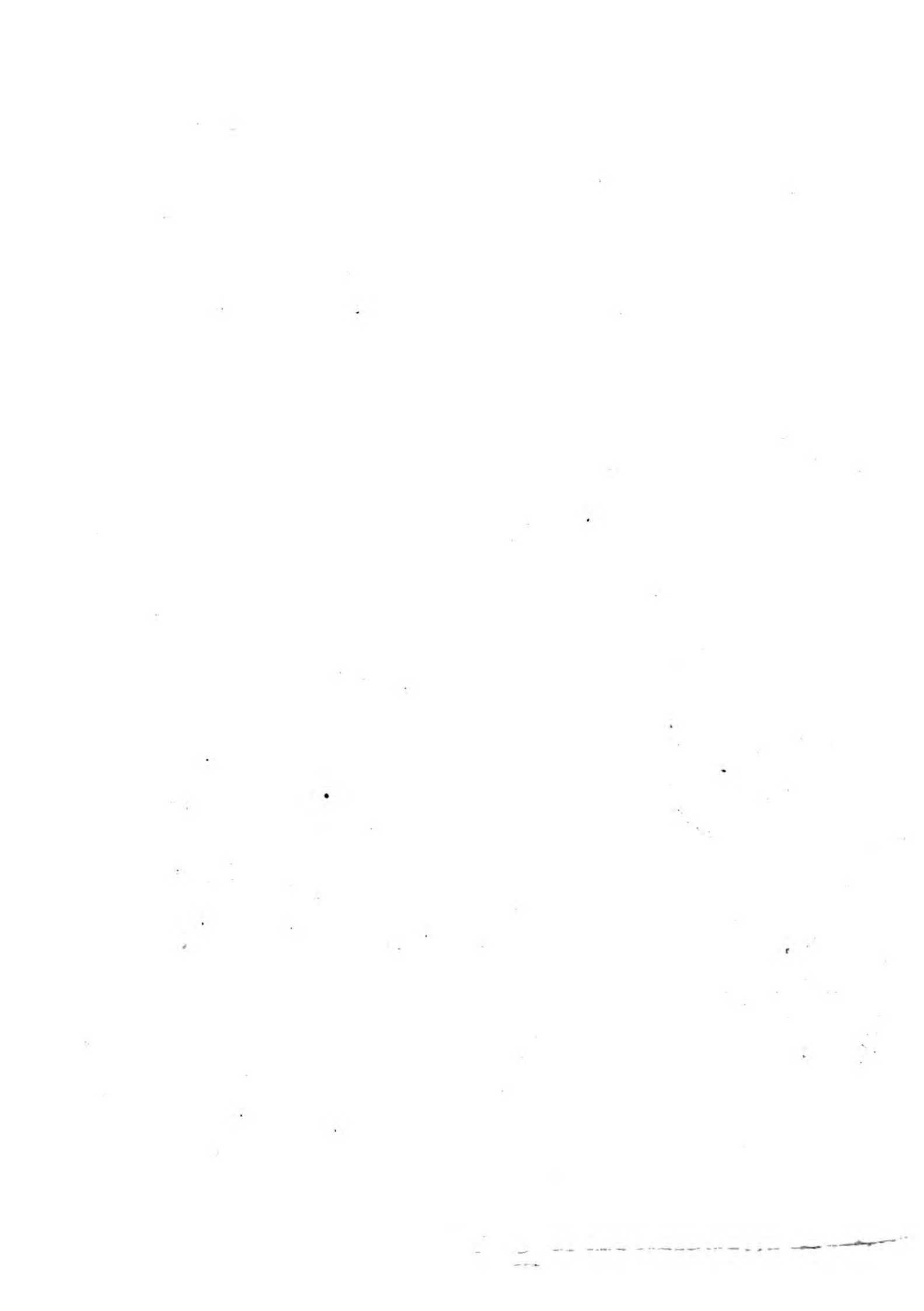
THE beautiful species of *Fumaria* which we have here represented is a hardy plant; but of what country it is a native, or by whom first introduced into the British gardens, we have yet to learn; neither have we hitherto been able to ascertain it in any author. Our drawing was made from very fine specimens communicated to us by William Anderson, botanic gardener to James Vere, esq. Kensington Gore, in whose collection it flowered copiously in the month of June last.

It is allied to the tuberous-rooted species; and perhaps nearer to *Fumaria nobilis* than any other: succeeds very well in a mixture of peat earth and loam, but prefers a sheltered and a somewhat shaded situation; and makes a very fine appearance when in flower: it also possesses unusual elegance in its foliage.



Fumaria formosa

Fumaria formosa Ledeb. *Flora Rossica* 1: 156
t. 4. No. 4. 1820. ... G. Kunze del.



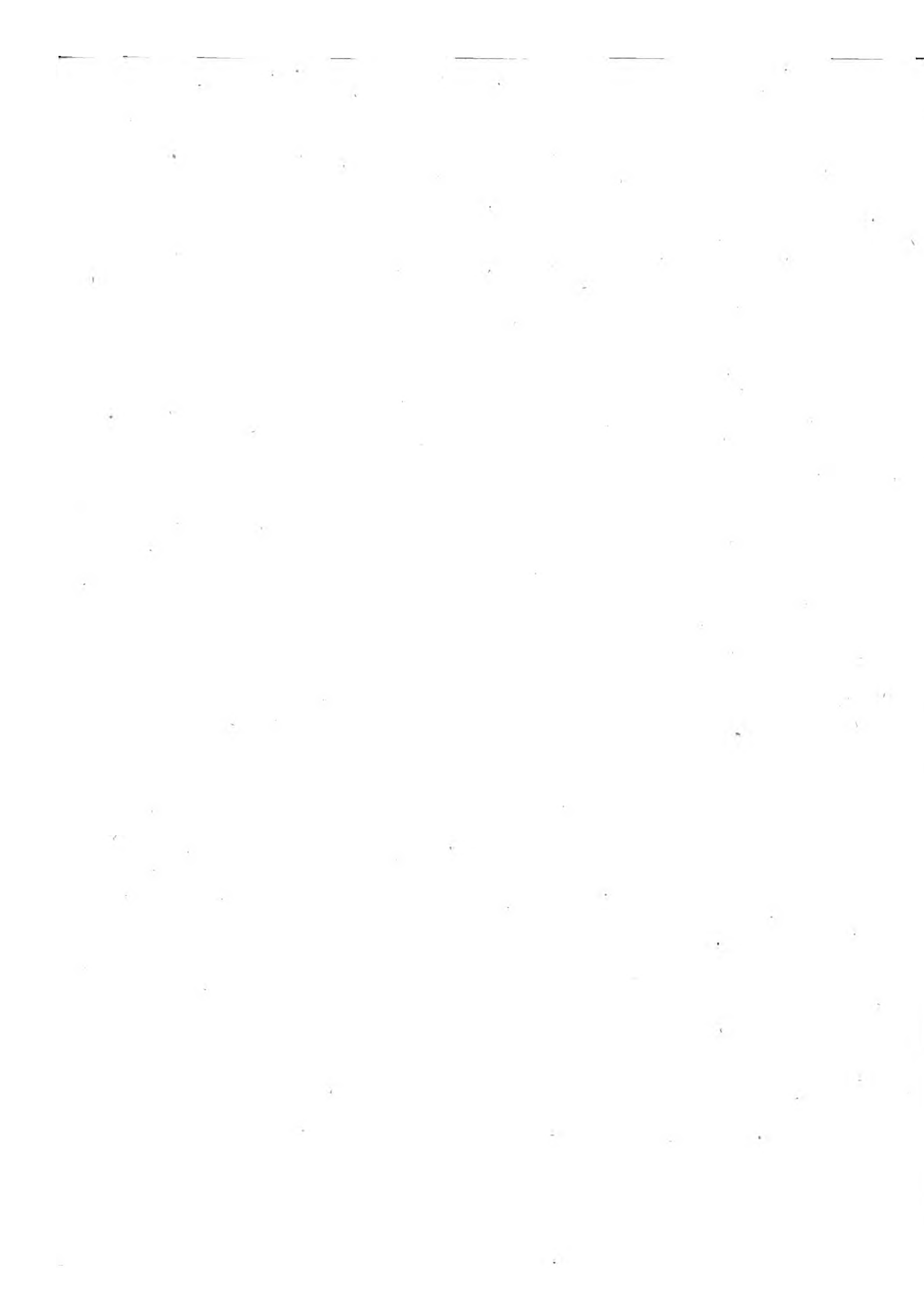


PLATE CCCXCIV.
MIMOSA LINIFOLIA.
Flax-leaved Mimosa.

CLASS XXIII. ORDER I.
POLYGAMIA MONÆCIA. Various Dispositions upon one Plant.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|--|
| <p>HERMAPH. Calyx 5-dentatus. Corolla 5-fida. Stamina 5 sive plura. Pistillum 1. Legumen.</p> <p>MASCUL. Calyx 5 dentatus. Corolla 5-fida. Stamina 5—10, sive plura.</p> | | <p>HERMAPH. Empalement 5-toothed. Blossom 5-cleft. Chives 5 or more. Pointal 1. A Pod.</p> <p>Male. Empalement 5-toothed. Blossom 5-cleft. Chives 5—10, or more.</p> |
|--|--|--|

SPECIFIC CHARACTER, &c.

| | | |
|--|--|--|
| <p>MIMOSA, foliis sparsis suberectis angustissime linearibus.</p> | | <p>MIMOSA, with scattered erectish very narrow linear leaves.</p> |
|--|--|--|

MIMOSA linifolia. *Ventenat Plantes Nouvelles*, tab. 2.

REFERENCE TO THE PLATE.

1. The empalement and blossom magnified.
2. The empalement detached and magnified.
3. A chive magnified.
4. The seed-bud and pointal magnified.

THE *Mimosa linifolia* is a native of New South Wales, from whence it was introduced to this country several years ago.

It has been considered in the gardens as a new species, and is known under the name of *pinifolia*; but as it has been recently named *linifolia*, by M. Ventenat in his *Plantes Nouvelles*, from plants which we believe were sent to France from England, we have adopted the latter name.

It is a very elegant greenhouse shrub; and arises with stiff erect slender branches to the height of several feet, and does not flower when young.

The Flax-leaved *Mimosa* is propagated chiefly by seeds, and either not at all, or with great difficulty, from cuttings; and is usually cultivated in light rich earth.

The individual here represented flowered very fine in the month of May at Mrs. Wright's, Bayswater; where our drawing was made.



Umosa lonifolia

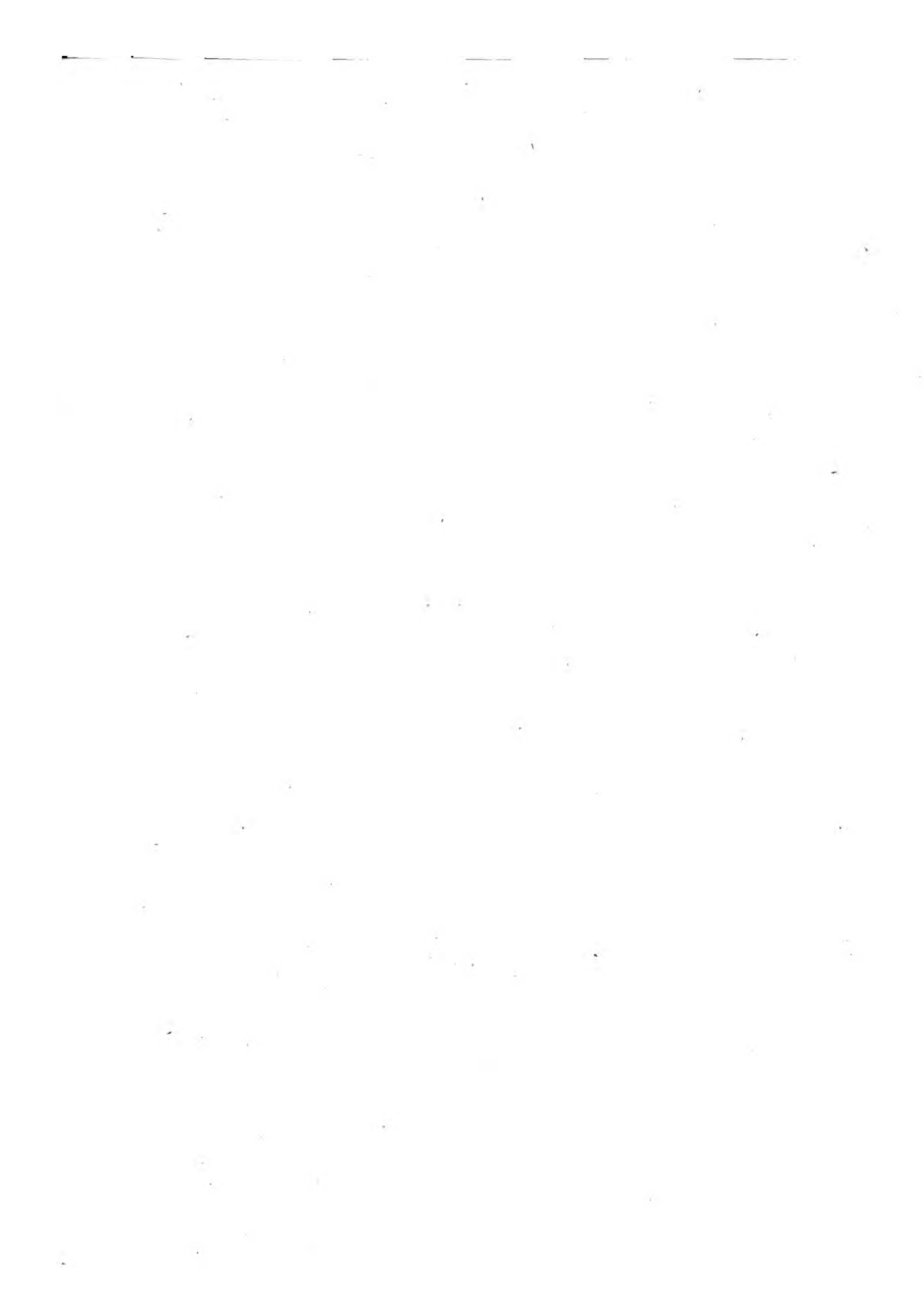


PLATE CCCXCV.
ANTHERICUM PANICULATUM.
Panicled Anthericum.

CLASS VI. ORDER I.

HEXANDRIA MONOGYNIA. Six Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|--|
| CALYX patens aut connivens. Stamina filamentis filiformibus hirsutis. Stigma 1. Semina angulata. <i>Juss. Gen. Pl. 52.</i> | | EMPALEMENT expanding or converging. Chives thread-shaped hairy. Summit 1. Seeds angulated. |
|--|--|--|

SPECIFIC CHARACTER.

| | | |
|--|--|---|
| ANTHERICUM, foliis canaliculato-ensiformibus gramineis, scapo paniculato diffuso, radice tuberosâ. | | ANTHERICUM, with channel-sword-shaped grassy leaves, diffuse panicled flower-stem, and a tuberous root. |
|--|--|---|

REFERENCE TO THE PLATE.

1. A leaf.
2. The chives and pointal.
3. The pointal and seed-bud, the summit magnified.
4. The seed-bud magnified.

THE *Anthericum paniculatum* is a native of New Holland, and was lately introduced from that country to this. In its tuberous root and woolly filaments, it accords very well with the genus *Anthericum*, as defined by Jussieu, in his celebrated *Genera Plantarum*; yet recedes from it in wanting thick and fleshy leaves; which all the African species of that genus have: hence it approximates, in habit at least, the genus *Phalangium* of Jussieu, which Willdenow makes a division only of *Anthericum*.

But there is nothing peculiarly remarkable in the present species differing a little from its African congeners, because most of the Australasian plants differ in some very striking particular or other from their nearest affinities in all other parts of the world; and very often constitute new genera.

It succeeds with the treatment of the Cape species, loves water, when in active growth; continues in flower several of the summer months, and is propagated by parting its roots in autumn, and by seeds, which it sometimes perfects in this country.



ithericum paniculatum

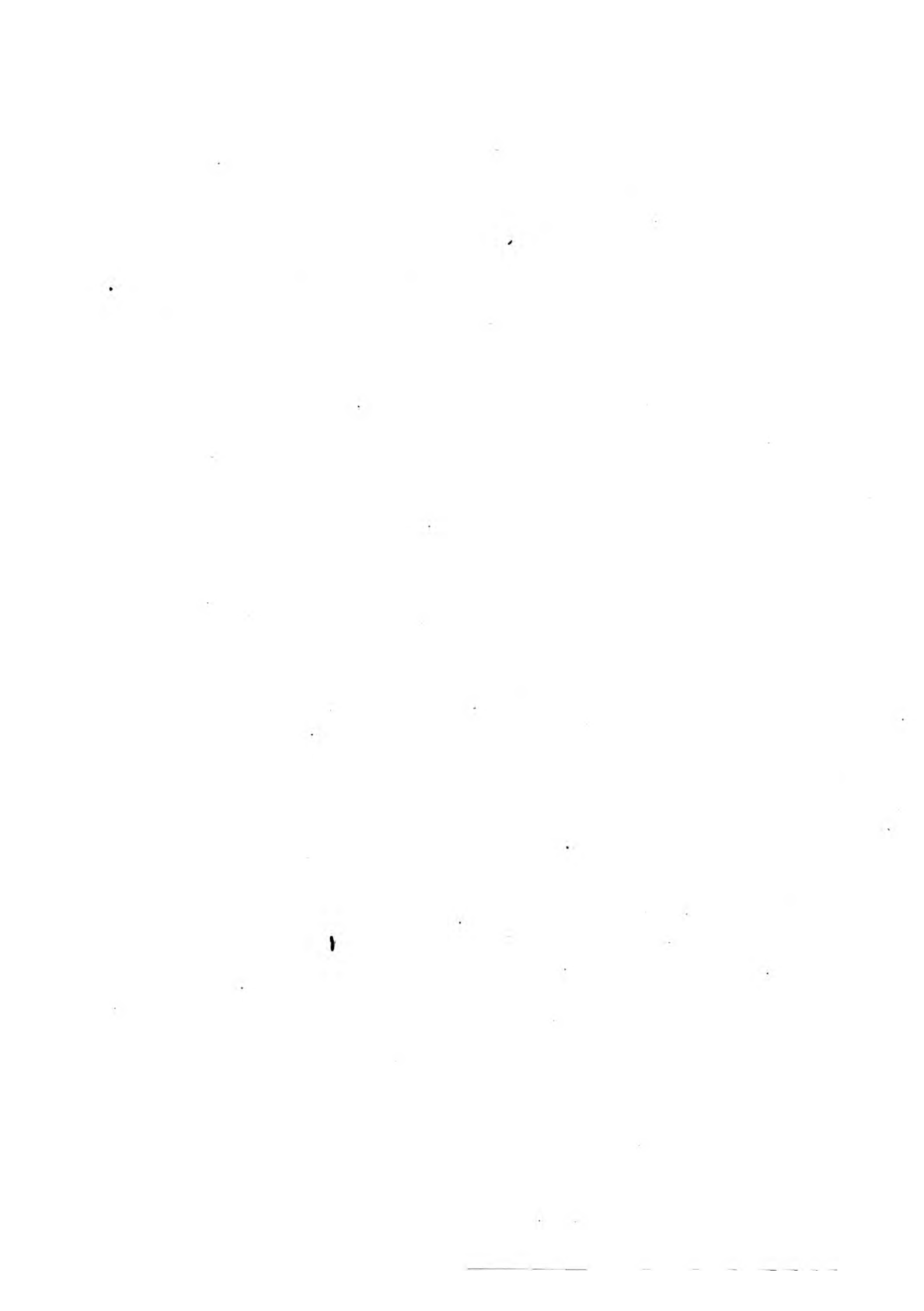


PLATE CCCXCVI.
CAMPANULA VERSICOLOR.
Various-coloured Bell-flower.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA campanulata, fundo clauso valvis
staminiferis. Stigma 3-fidum. Capsula
infera poris lateralibus dehiscens.

COROLLA bell-shaped with the mouth closed
by stamiferous valves. Summit 3-cleft.
Capsule beneath gaping with lateral
pores.

SPECIFIC CHARACTER.

CAMPANULA, foliis glabris cordato-ovatis un-
dulatis, foliolis calycinis subulatis reflexis,
corollis rotato-campanulatis.

BELL-FLOWER, with smooth heart-ovate waved
leaves, calyx leaflets awl-shaped reflexed,
and wheel-bell-shaped blossoms.

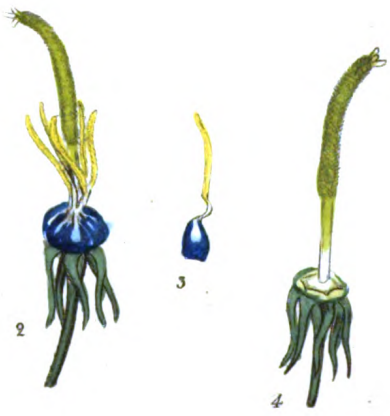
REFERENCE TO THE PLATE.

1. A radical leaf.
 2. The empalement, chives and pointal.
 3. A chive.
 4. The seed-bud and pointal.
-

WITHOUT a doubt the present is not only a new species, but likewise one of the most showy in the extensive genus *Campanula*; nearly all the individuals of which have charms enough to entitle them to a place in the flower-garden.

When our readers are told that it is an inhabitant of Greece, most of them will readily perceive it is the very species announced in our last number, as one that in beauty surpasses the *fairest of the fair*, and was communicated to us, as well as the *laciniata*, by the Hon. W. H. Irby, of Farnham Royal, Bucks.

It was first raised from seeds brought to this country from Greece, by the late and much regretted Professor Sibthorp. There are two or three varieties of it, which are all hardy, and flower in July; rising to the height of about two feet, and making a very splendid appearance. They succeed best in peat earth and loam; and are propagated by seeds and by parting their roots: and are at present much sought after by all collectors.



Campanula versicolor

Painted on the Bot. Garden, Sept. 1804
by G. Lindemann & C. G. Gleditsch

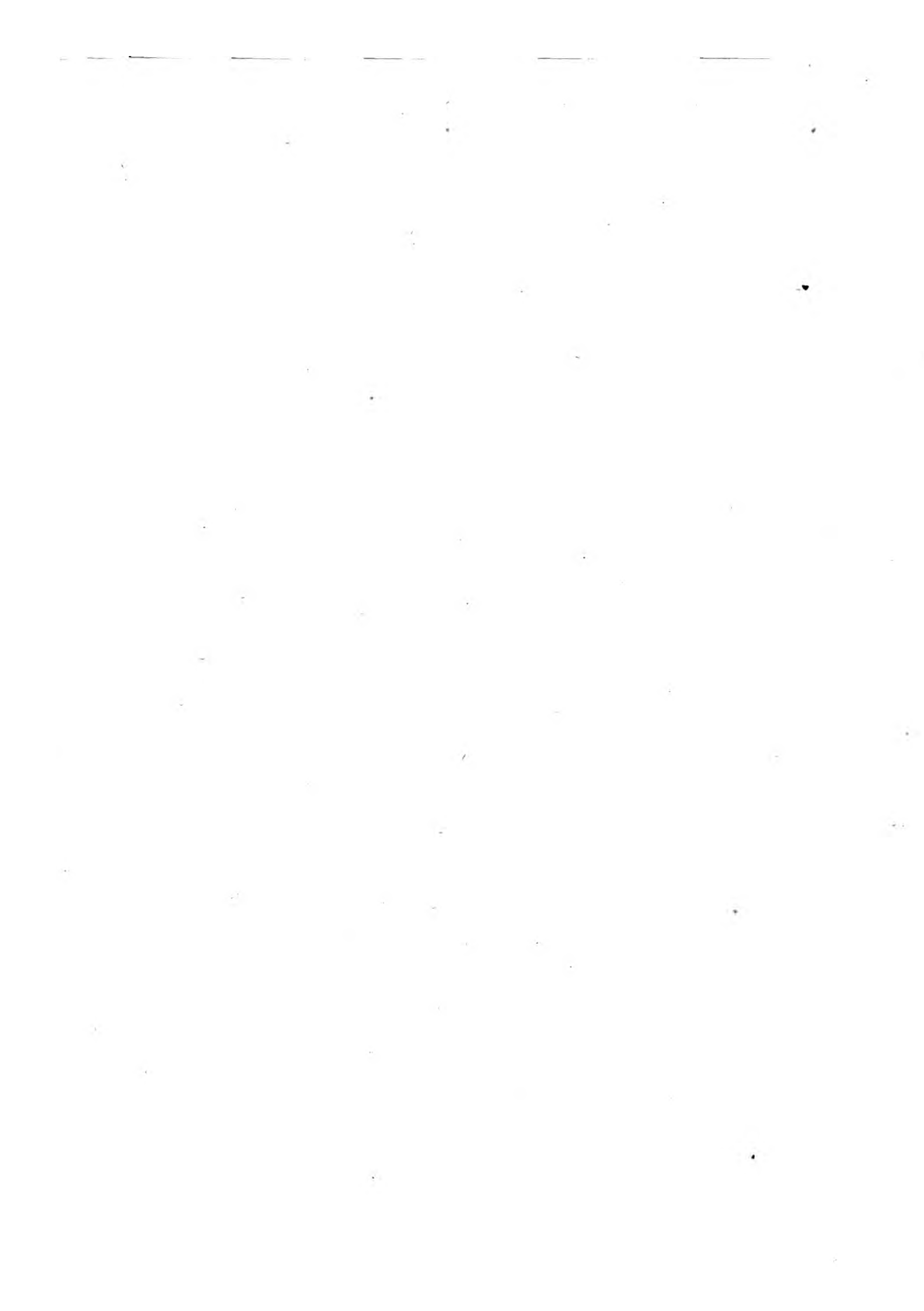


PLATE CCCXCVII.
STEWARTIA MARILANDICA.
Maryland Stewartia.

CLASS XVI. ORDER XIII.

MONADELPHIA POLYANDRIA. One Brotherhood. Many Chives.

ESSENTIAL GENERIC CHARACTER.

CALYX quinquepartitus. Petala quinque. Stamina numerosa. Stylus 1. Stigma capitatum subquinquelobum. Capsula lignosa conica, calyci reflexo persistenti insidens, quinquelocularis quinquevalvis, valvis crassis ligneis medio septiferis; loculis 1—2-spermis. *Uster's Juss. Gen. Pl. 324.*

EMPALEMENT five-parted. Petals five. Chives numerous. Style one. Summit headed somewhat five-lobed. Capsule woody conical, sitting on the reflexed persistent empalement, five-celled five-valved, with the valves thick woody and with partitions in the middle; with cells one- or two-seeded.

SPECIFIC CHARACTER.

STEWARTIA, foliis alternis ellipticis acuminatis obsolete et remote serrulatis, subtus villosis; floribus solitariis albis.

STEWARTIA, with alternate elliptic acuminated obscurely and remotely serrulated leaves, hairy beneath; and solitary white flowers.

REFERENCE TO THE PLATE.

1. The calyx, seed-bud and pointal.
2. The chives spread open.

THE *Stewartia*, which we have here represented, is known and cultivated in His Majesty's, and in various other collections of plants in the vicinity of the metropolis, under the name of *Marilandica*; under which title it likewise occurs in the third edition of *Donn's Hortus Cantabrigiensis*: but we do not find the name in any other book: neither can we, for want of sufficient specimens, ascertain whether it is specifically distinct from *Stewartia virginica*, or a variety only of that species. From *S. virginica*, however, as figured by *Cavanilles* in his *Dissertationes*, (tab. 159) it appears to differ, in having larger and much less serrated leaves, and in their being villose beneath; and likewise in its larger and entirely white petals. *Cavanilles'* plant has one of its petals of a yellow-green colour. From *Stewartia Malachodendron* it is known, at first sight, by its entire, not lacerated petals; independent of the other *generical* distinctions, according to *Jussieu* and *Cavanilles*, which exist between them.

The *Maryland Stewartia* is, as its name imports, a native of *Maryland* in *America*. It is a hardy shrub, and is propagated by layers; but does not thrive unless in a moist situation, planted in a mixture of peat earth and a little loam; and flowers in *August* and *September*.

The plant here figured was obligingly communicated to us, in bloom, by the *Marquis of Blandford*, with whom it flowered in *July* last, we believe for the first time in this country.



Magnolia Marilandica

Pub. at the Am. Acad. Sci. Philad. by G. S. & H. Knight

PLATE CCCXCVIII.
WACHENDORFIA VILLOSA.
Villose Wachendorfia.

CLASS III. ORDER I.

TRIANDRIA MONOGYNIA. Three Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA sex-petala, inæqualis, infera. Capsula trilocularis, supera. || BLOSSOM six-petalled, unequal, beneath. Capsule above three-celled.

SPECIFIC CHARACTER.

WACHENDORFIA, foliis lineari-ensiformibus plicatis triplinerviis, cauleque villosis, floribus paniculatis. || WACHENDORFIA, with the triple-nerved plicated linear-sword-shaped leaves, and stem villous; and panicled flowers.

REFERENCE TO THE PLATE.

1. A floral leaf.
 2. The chives and pointal.
 3. The pointal and summit magnified.
 4. The seed-bud cut transversely.
-

THE villous-leaved Wachendorfia is not enumerated in Professor Willdenow's new edition of *Species Plantarum*, and appears to be a new species. It is very closely allied to *W. hirsuta*, but differs sufficiently from that species in the shape of the leaves. It is likewise extremely near akin to *W. graminea*, which, however, is destitute of all pubescence, whilst ours is pubescent all over. Its flowers are yellow, like those of *hirsuta* and *paniculata*; it rises to the height of a foot and a half, prospers with the usual treatment of Cape Bulbs; and was communicated to us in flower, in June last, by W. Anderson, botanic gardener to J. Vere, Esq. Kensington Gore, where it flowers in great perfection, and increases pretty readily by the roots.



Sendorfia villosa.

PLATE CCCXCIX.
COMMELINA TUBEROSA.
Tuberous-rooted Commelina.

CLASS III. ORDER I.
TRIANDRIA MONOGYNIA. Three Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA sex-petala. Nectaria quinque, cruciata, filamentis propriis inserta. || BLOSSOM, six-petalled. Nectaries five, cross-shaped, inserted on their proper filaments.

SPECIFIC CHARACTER.

COMMELINA, corollis æqualibus, foliis sessilibus ovato-lanceolatis, subtus villosis et inde ciliatis, radice tuberosâ. || COMMELINA, with equal flowers, sessile ovate-spear-shaped leaves, villose beneath and thence ciliated, and a tuberous root.
Commelina tuberosa. Willd. Sp. Pl. 1. 251.—
Dill. Eth. t. 79.

REFERENCE TO THE PLATE.

1. The empalement, chives, and pointal.
2. A petal.
3. One of the nectaries.
4. A chive magnified.
5. The seed-bud and pointal, ummit magnified.

THE herbaceous genus *Commelina* is a very singular one ; and many of its species are remarkable, not so much for the size, as for the structure and brilliancy of their flowers ; which, according to the words of the generic character, ought to have six petals : but the present species appears to have but three petals, the three outer being entirely of the nature of a calyx ; and effectually answering the purposes of one.

The tuberous-rooted *Commelina* is a native of Mexico, and in this country requires the treatment of a hot-house herbaceous plant. It is an old, but not common inhabitant of the British gardens ; thrives well in rich earth, and is propagated by dividing the tubers of its root, when in a quiescent state ; at which period much water is particularly inimical to it.

The genus *Commelina* can only be distinguished from *Tradescantia* when the flowers are open ; but nevertheless differs very sufficiently, not only in having double the number of stamina, but more especially in the extraordinary cruciform nectaries.

Our drawing was made from very complete specimens communicated to us by the Hon. W. H. Irby, of Farnham Royal, Bucks.



Smilax tuberosa

Smilax tuberosa L.
at C. & G. Engelm.

PLATE CCCC.
EUCALYPTUS RESINIFERA.
Resinous Eucalyptus.

CLASS XII. ORDER I.

ICOSANDRIA MONOGYNIA. About Twenty Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX superus persistens truncatus, ante anthesin tectus *operculo* integerrimo deciduo. Corolla nulla. Capsula quadrilocularis, apice dehiscens polysperma.

EMPALEMENT above persistent truncated, before the flowering covered by an entire deciduous *lid*. Blossom none. Capsule four-celled, gaping at the point and many-seeded.

SPECIFIC CHARACTER.

EUCALYPTUS, *operculo* conico tereti coriaceo calyce duplo longiori, umbellis lateralibus solitariis. *Smith in Linn. Tr. 3. p. 284.—Willd. Sp. Pl. 2. 977.*

EUCALYPTUS, with a conical columnar leathery lid twice the length of the empalement, and lateral solitary umbels.

REFERENCE TO THE PLATE.

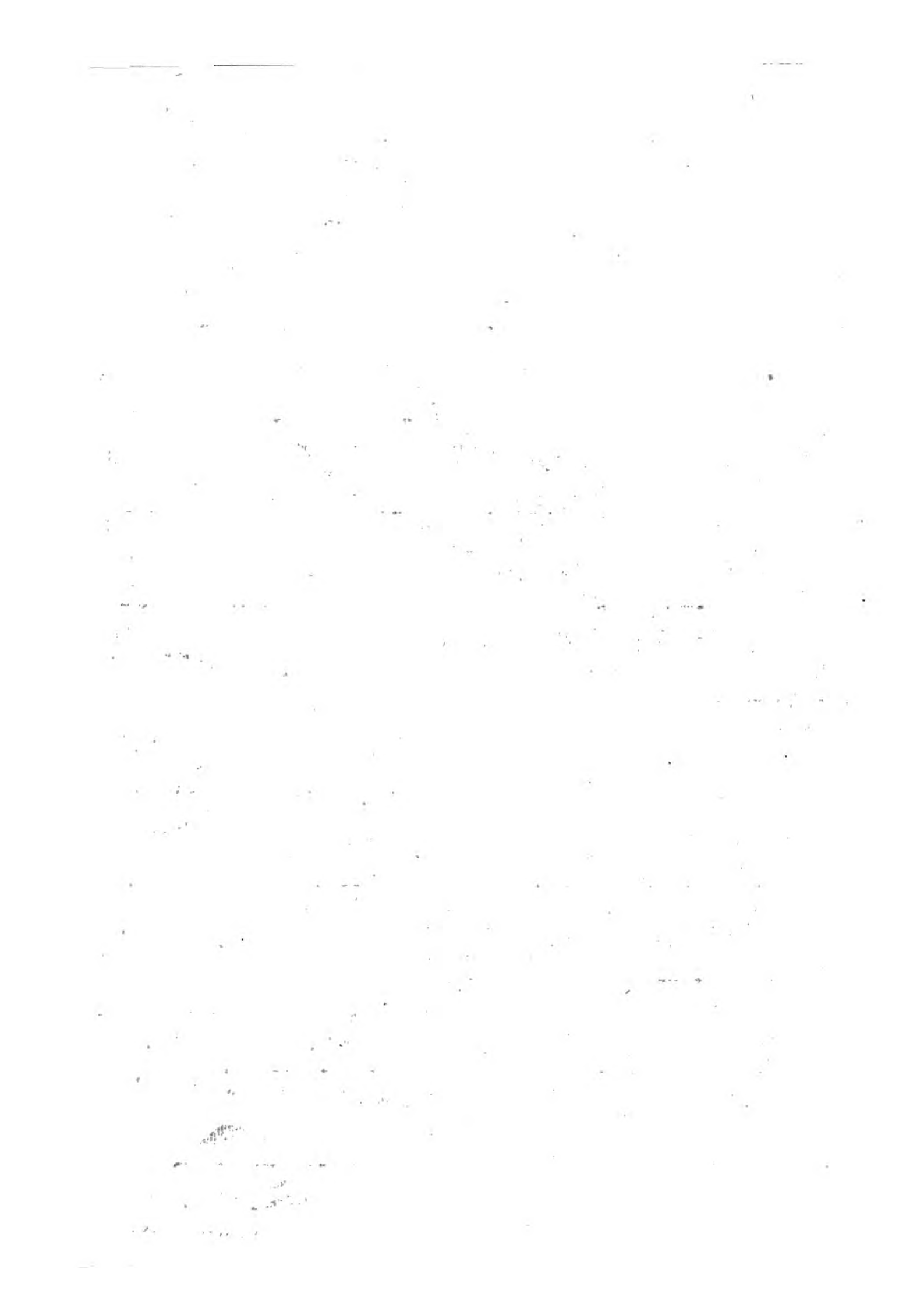
1. A bud in its infant state.
2. The calyptra or lid, when in perfection.
3. A chive magnified.
4. The pointal and seed-bud.

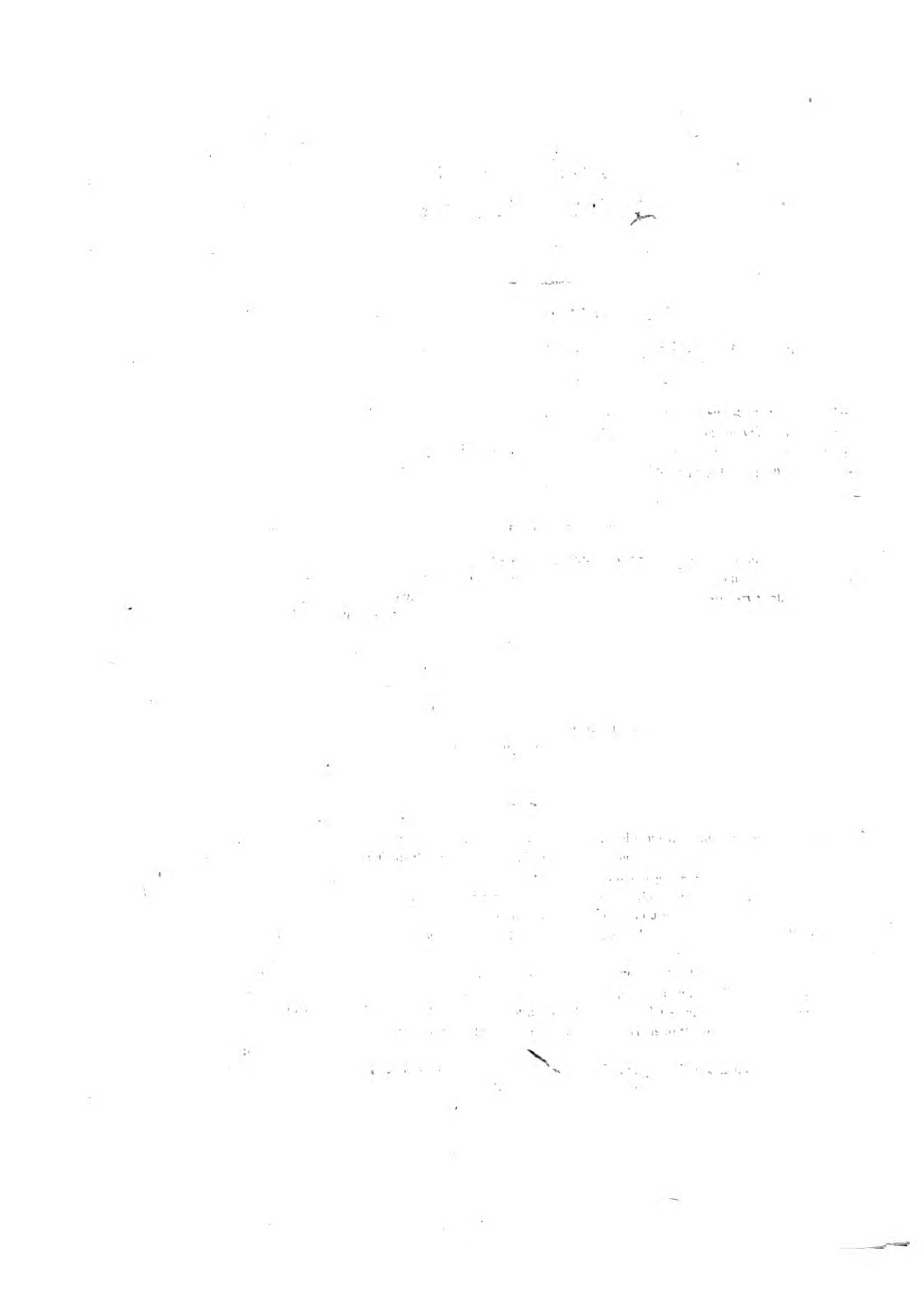
THIS species of the genus *Eucalyptus*, a genus well characterized from the singular operculum, which, instead of a corolla, defends the infantile fructification from external injuries, is a native of New South Wales; and was introduced, by seeds from that country, into our gardens, along with some other *Eucalypti*, several years ago; but has never flowered in Britain until the present summer, in Lady de Clifford's collection at Paddington, where our drawing was made in July last.

It is a shrub of considerable size, and handsome growth and foliage; and its younger shoots droop considerably, after the very elegant manner so much admired in the weeping willow.

But the most singular trait in the plant is its tardy and protracted mode of flowering. It has already shown flowers, which it will not expand until next July: they are scarce half the size they will then be, and have upon the tip of the large calyptra one of a far smaller size, but similar in shape, and which will soon fall off, as will also the large one, a little previous to the expansion of the stamina next July.

It requires a great deal of root-room, and rich earth; is a very hardy green-house plant, and has hitherto been propagated by imported seeds only.







Eucalyptus resinifera



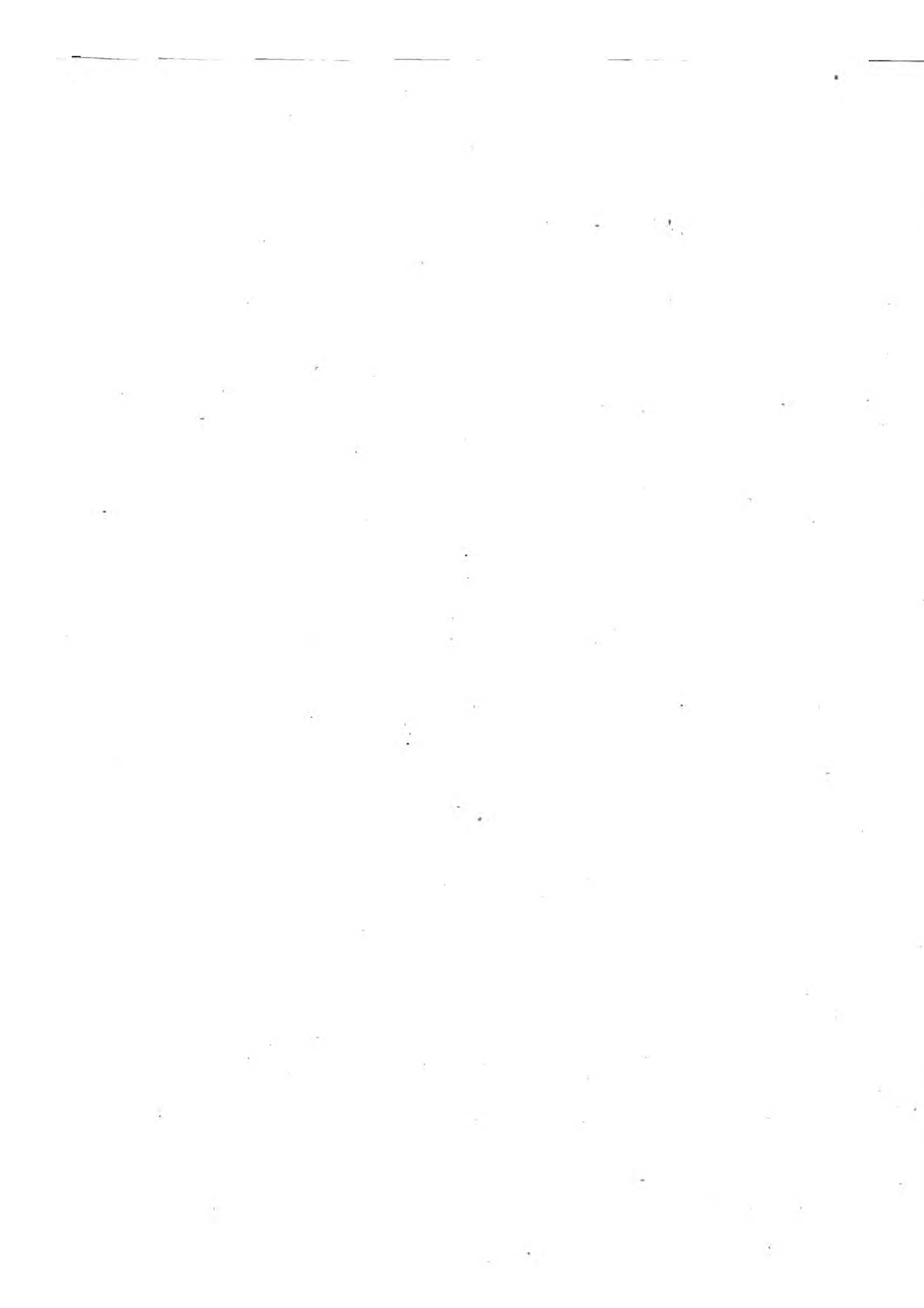


PLATE CCCCI.
SERRATULA SPICATA.
Spiked-flowered Saw-wort.

CLASS XIX. ORDER I.

SYNGENESIA POLYGAMIA ÆQUALIS. Tips united. Æqual Polygamy.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|-----------|---|
| <p>CALYX subcylindricus, imbricatus, muticus.</p> | <p> </p> | <p>EMPALEMENT nearly cylindrical, imbricated, without awns.</p> |
|---|-----------|---|

SPECIFIC CHARACTER, &c.

| | | |
|---|-----------|--|
| <p>SERRATULA, foliis linearibus, basi ciliatis, floribus sessilibus lateralibus spicatis, caule simplici. <i>Gmel. Syst. Nat.</i> 2. 1185.—<i>Ait. Hort. Kew.</i> 3. 138.</p> | <p> </p> | <p>SERRATULA, with linear leaves, ciliated at the base, sessile lateral spiked flowers, and a simple stem.</p> |
|---|-----------|--|

REFERENCE TO THE PLATE.

1. A radical leaf.
2. The empalement spread open.
3. A floret.
4. The same, cut open.
5. The seed-bud and pointal.

THE *Serratula spicata* is a native of Carolina; but has been cultivated in the gardens of this country ever since the year 1732; notwithstanding which it is by no means a frequent plant in collections; which I should conceive arises from its being rather difficult to increase.

Although a syngenesious plant, its root is of the tuberous kind; which is a peculiarity almost unparalleled in that extensive class. The flowering-stems shoot up late in spring, and are chiefly simple: they rise to the height of one or two feet, furnished with long linear leaves; the uppermost of which are gradually shortened, and they are all more or less ciliated near the base; but in this respect they are either liable to differ very considerably, or there are several varieties (perhaps species) of the plant. There is likewise another strikingly singular trait in the character of this *Serratula*: the flowers commence opening at the top of the spike first, and continue flowering downwards; instead of upwards, in the usual manner; which is a circumstance I cannot recollect having seen in any other plants; except *Agave virginica* and *Allium descendens*. Cultivators usually suppose the name of the last-mentioned plant to apply to its roots striking deep into the earth: but this we apprehend is an erroneous supposition; for it is clearly allusive to its perverted mode of flowering.

The spiked-flowered Saw-wort flowers in July, loves a light soil in the open air; and is propagated, although slowly, by parting its roots after the stems die down.

Gmelin queries, and with propriety, in his edition of *Systema Naturæ* above cited, whether *S. spicata*, and *S. squarrosa*, (another North American species,) are not generically distinct from the other *Serratulæ*.

Our drawing was made from plants in the collection of Lady de Clifford, at Paddington.



Eryratula spicata

Publ. et del. G. C. S. G. Sculp. et lith. J. G. S.

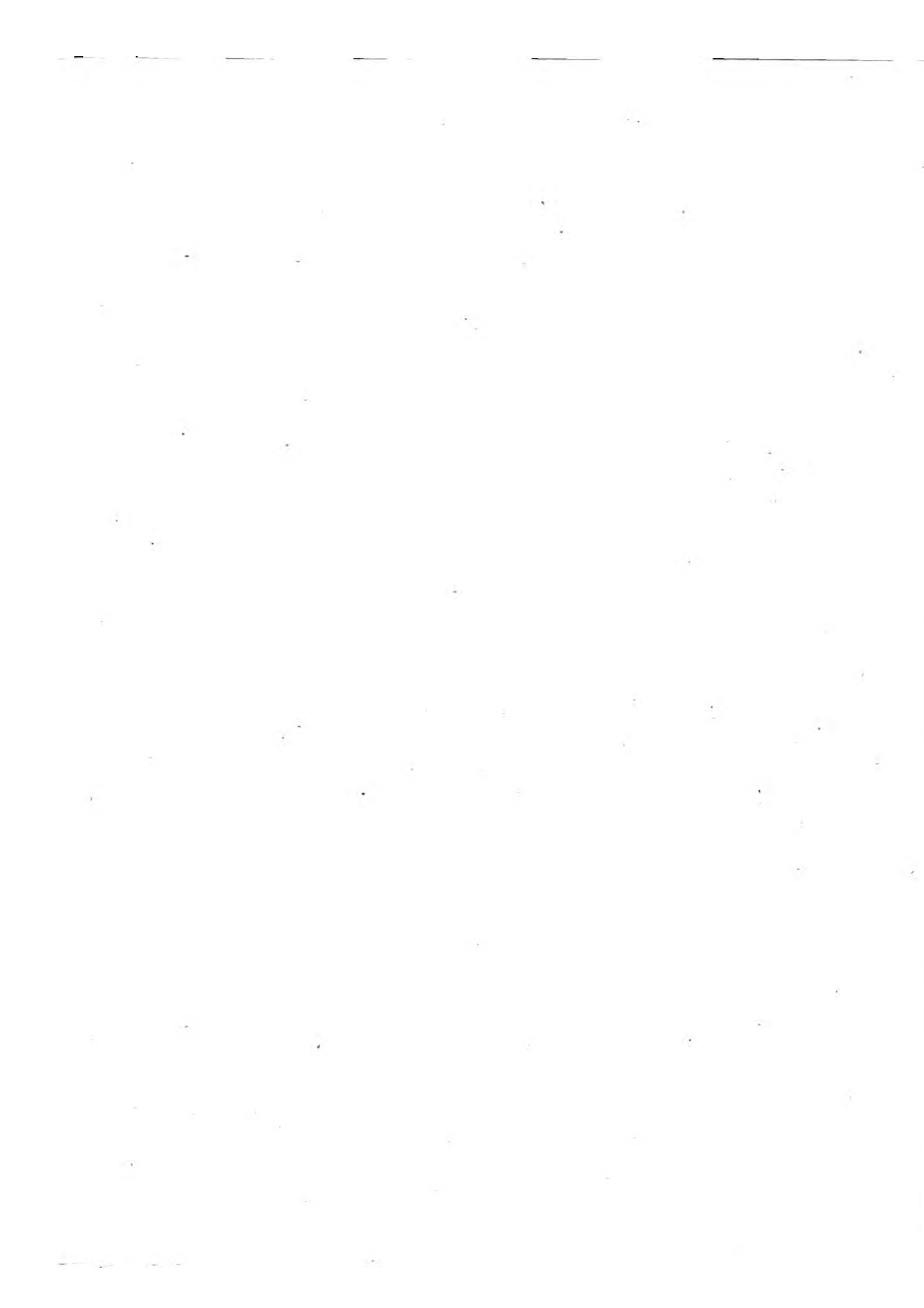


PLATE CCCCII.
CLEMATIS FLORIDA.
Large-flowered Virgin's Bower.

CLASS XIII. ORDER VI.
POLYANDRIA POLYGYNIA. Many Chives. Many Pointals.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|--|--|
| CALYX nullus. Petala quatuor, rarius quinque. Semina caudata. | | EMPALEMENT none. Petals four, rarely five. Seeds tailed. |
|---|--|--|

SPECIFIC CHARACTER.

| | | |
|---|--|---|
| CLEMATIS, foliis decompositis, foliolis binatis ternatisque, petalis ovatis. <i>Willd. Sp. Pl.</i> 2. 1287. | | CLEMATIS, with decomposed leaves, leaflets in twos and threes, and egg-shaped petals. |
|---|--|---|

REFERENCE TO THE PLATE.

1. A petal.
 2. The chives and pointals.
 3. The pointals.
-

THE large-flowered Virgin's Bower was introduced into the English gardens, in the year 1776, from Japan; of which country it is a native; and possesses by much the largest and most showy flowers in the whole genus.

Although introduced so long since, it is not often met with. Our drawing was made from very fine plants in the collection of Messrs. Colvill, Nurserymen in the King's Road, in the month of July last; where they made an exceeding fine appearance.

Like many of the Japanese plants, it is found capable of resisting the severity of our ordinary winters, without receiving much injury.

It thrives best when trained against a wall or other fence, planted in rich soil; and is usually propagated by laying down the lowest branches in a careful manner; which take root in due time, and may then be safely separated from the mother plant.



Clematis florida

Clematis florida (L.) DC.
 1840. Bot. Beechey, p. 107. t. 12. f. 1.



P L A T E C C C C I I I .
 I P O M Æ A G R A N D I F L O R A .
Great-flowered Ipomæa.

C L A S S V . O R D E R I .

P E N T A N D R I A M O N O G Y N I A . F i v e C h i v e s . O n e P o i n t a l .

E S S E N T I A L G E N E R I C C H A R A C T E R .

CALYX quinquefidus. Corolla infundibuliformis longa, limbo plicato quinquefido aut quinqueidentato. Stigma capitatum. Capsula trilocularis polysperma. *Uster's Juss. Gen. Pl. 149.*

EMPALEMENT five-cleft. Blossom funnel-shaped long, with a five-cleft or five-dentated border. Summit headed. Capsule three-celled, with many seeds in each cell.

S P E C I F I C C H A R A C T E R , & C .

I P O M Æ A , foliis cordatis acuminatis integerrimis, pedunculis subunifloris.

I P O M Æ A , with heart-shaped acuminate very entire leaves, and chiefly one-flowered peduncles.

C O N V O L V U L U S *grandiflorus*, foliis cordatis ovatis obtusiusculis integerrimis, pedunculis subbifloris, calycibus coriaceis, caule petiolisque pubescentibus. *Linn. Supp. Pl. 136.—Willd. Sp. Pl. 1. 859.*

R E F E R E N C E T O T H E P L A T E .

1. The empalement.
2. The tube of the flower cut open, to show the structure and insertion of the chives.
3. The pointal.
4. A capsule nearly ripe, cut horizontally and lifted up to show the seeds.

THIS magnificent species of *Ipomæa* (the *Convolvulus grandiflorus* of authors) was obligingly communicated to us in bloom in the month of September, by A. B. Lambert, Esq. who thinks that its root will only prove an annual one. If this indeed should eventually be the case, it will cause it to recede in a material manner from the *Convolvulus grandiflorus* as described in the *Supplementum Plantarum*, and consequently in *Willdenow's Species Plantarum*, which is there said to be an arborescent species: from *C. grandiflorus* it should also appear to differ, in its more pointed leaves and solitary peduncles; and likewise in having a stigma agreeing altogether in structure with the genus *Ipomæa*; which latter circumstance has occasioned us to separate it from *Convolvulus*, and transfer it to *Ipomæa*; because the conformation of the stigma in those extensive genera, often (but we fear not always) affords the most satisfactory characters for discrimination. All their species which we have examined, (and they have been very numerous,) possibly might be united into one genus, without committing much outrage against nature, or the natural affinities of her vegetable kingdom.



Ipomoea grandiflora

Drawn by the artist Demetri Nov. 1808
by H. Andrews & Knightbridge

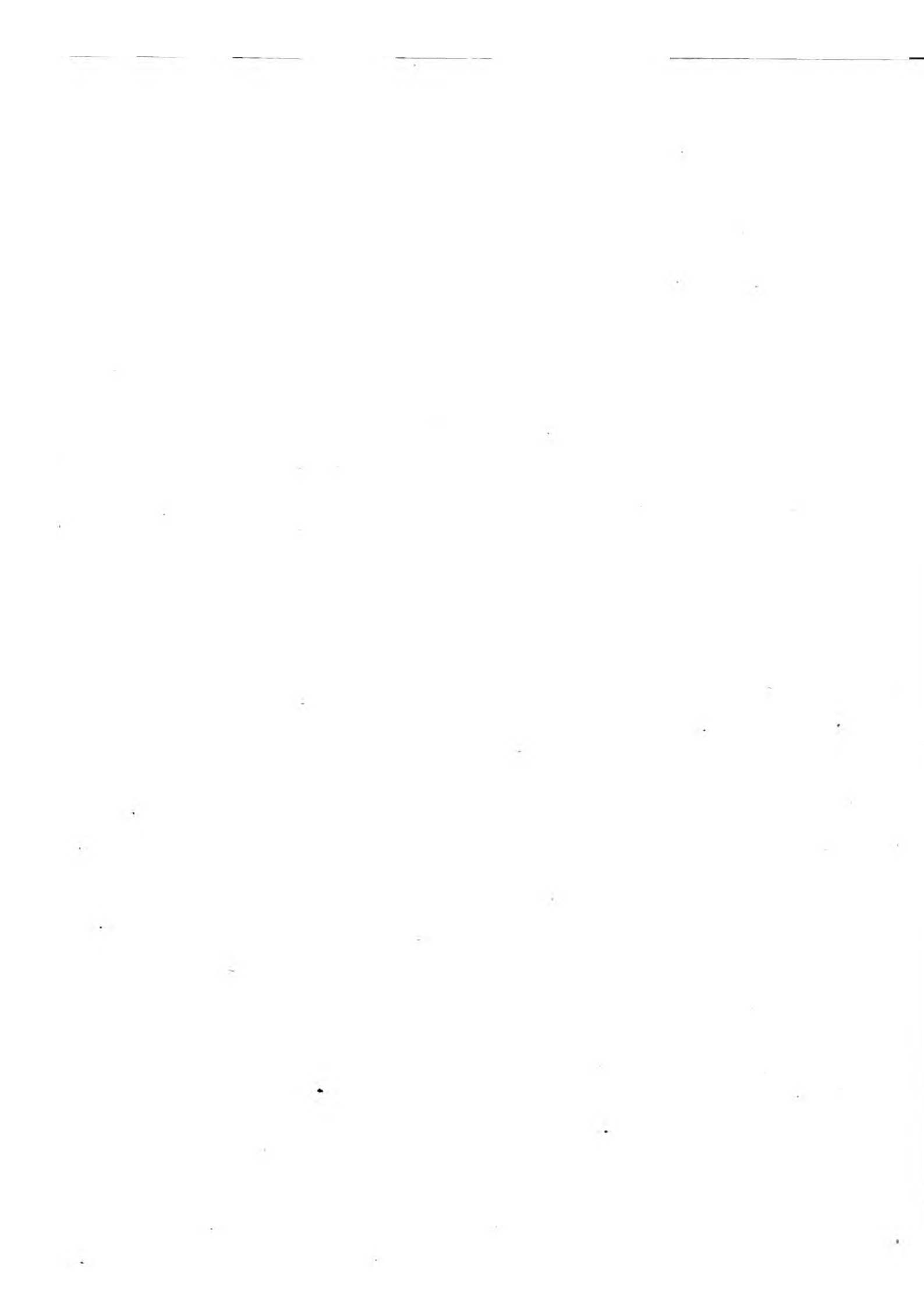


PLATE CCCCIV.
MORÆA MINIATA.
Red-lead-coloured Morœa.

CLASS III. ORDER I.
TRIANDRIA MONOGYNIA. Three Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

COROLLA hexapetala; petala tria interiora patentia; angustiora. Stigma trifidum. || BLOSSOM six-petalled, the three interior ones spreading Summit trifid.

SPECIFIC CHARACTER.

MORÆA, monadelphia, scapo tereti ramoso, foliis lineari-ensiformibus, caulinis spathaceis, petalis expansis sub-æqualibus ovalibus. || MORÆA, monadelphous, with a round branched scape, leaves linear-sword-shaped, stem ones spathaceous, and petals expanded nearly equal and oval.

REFERENCE TO THE PLATE.

1. The outer sheath of the flower.
2. The inner one.
3. The seed-bud, chives and pointal, as they stand in the flower.
4. The same magnified.
5. The monadelphous chives spread open.

IN vain have we turned over all the multifarious works of Jacquin, and many other publications, in search of information concerning this elegant plant: for our labour has not been rewarded with the east success. As a species, therefore, we conceive it to be entirely new; and in its generic characters, by no means destitute of botanical importance. With *Morœa* we have placed it, because it perhaps best agrees with that genus; yet cannot satisfactorily associate it with *Morœa tricuspis* (*Vieussieuxia De la Roche*) and its affinities. In its monadelphous stamina it approaches *Sisyrinchium* and *Ferraria*; and its flat red flowers remind us of the anomalous *Ixia Chinensis* *.

Our drawing was made from the Clapham collection, about the same time that *Iris Pavonia* of our 364th plate was drawn. It requires the same treatment as that splendid plant, and is a native of the same country: but we fear it is not at present to be found alive in Britain.

* This plant, after having been arranged under the several genera, *Ixia*, *Morœa*, and *Ferraria*, is now established as a new genus, by the name of *Pardanthus*, in the second number of *Annals of Botany*, just published.



Correa miniata

Correa miniata (L.f.) R.Br.





PLATE CCCC.V.
PRIMULA DENTIFLORA.
Toothed-flowered Primula.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|---|
| <p>CALYX tubulosus quinqueidentatus persistens. Corolla tubulosa quinqueloba, fauce per- viâ. Capsula apice decemvalvis. <i>Uster's</i> <i>Juss. Gen. Pl.</i> 108.</p> | | <p>EMPALEMENT tubulose five-toothed persistent. Blossom tubulose five-lobed, with a per- vious throat. Capsule at the apex ten- valved.</p> |
|--|--|---|

SPECIFIC CHARACTER.

| | | |
|--|--|---|
| <p>PRIMULA, foliis cordatis crenato-lobatis præru- gosis, corollis acute dentatis.</p> | | <p>PRIMULA, with heart-shaped crenately lobed very rough leaves, and sharply dentated flowers.</p> |
|--|--|---|

REFERENCE TO THE PLATE.

1. The empalement.
2. A blossom laid open, to show the insertion and structure of the chives.
3. The seed-bud and pointal.
4. The same magnified.

THE species of the favourite genus *Primula* which we have here represented, is a very elegant one; and greatly resembles *P. cortusifolia*, which is figured on our 7th plate; but differs from it in the extraordinary denticulations of the flowers; which we have been assured are a constant and permanent character of the plant, and, if so, affords an excellent and decisive mark of specific distinction, and at the same time a trivial name of undeniable goodness. We have not been able to ascertain with any kind of certainty its native place of growth. It was communicated to us in bloom in the month of September last, from the select collection of Lady de Clifford, at Paddington, and is found to be a hardy plant, and to succeed with the treatment of the other *Primulæ*; that is, as an alpine plant in bog earth, and a small portion of loam; and protected in summer from the mid-day and afternoon, but not the morning or evening sun. It is propagated by parting the roots in autumn; and as a new and at the same time beautiful *Primula*, it cannot fail to be acceptable to all our subscribers.



i. dentiflora



Pub. at the Bot. Garden, Berlin
by H. Kraus and J. Nees



P L A T E C C C C V I.
A P O N O G E T O N M O N O S T A C H Y O N.
Simple-spiked Aponogeton.

C L A S S X I. O R D E R I V.

DODECANDRIA TETRAGYNIA. Twelve Chives. Four Pointals.

E S S E N T I A L G E N E R I C C H A R A C T E R.

| | | |
|--|-----------|--|
| <p>A M E N T U M e squamis compositum. Calyx nullus. Corolla nulla. Capsulæ 4, trispermæ.</p> | <p> </p> | <p>C A T K I N composed of scales. Empalement none. Blossom none. Capsules 4, three-seeded.</p> |
|--|-----------|--|

S P E C I F I C C H A R A C T E R, & C.

| | | |
|---|-----------|---|
| <p>A P O N O G E T O N, spicâ simplici, foliis cordato-ovalibus. <i>Willd. Sp. Pl. 2. 927.</i></p> | <p> </p> | <p>A P O N O G E T O N, with a simple spike, and heart-oval shaped leaves.</p> |
|---|-----------|---|

R E F E R E N C E T O T H E P L A T E.

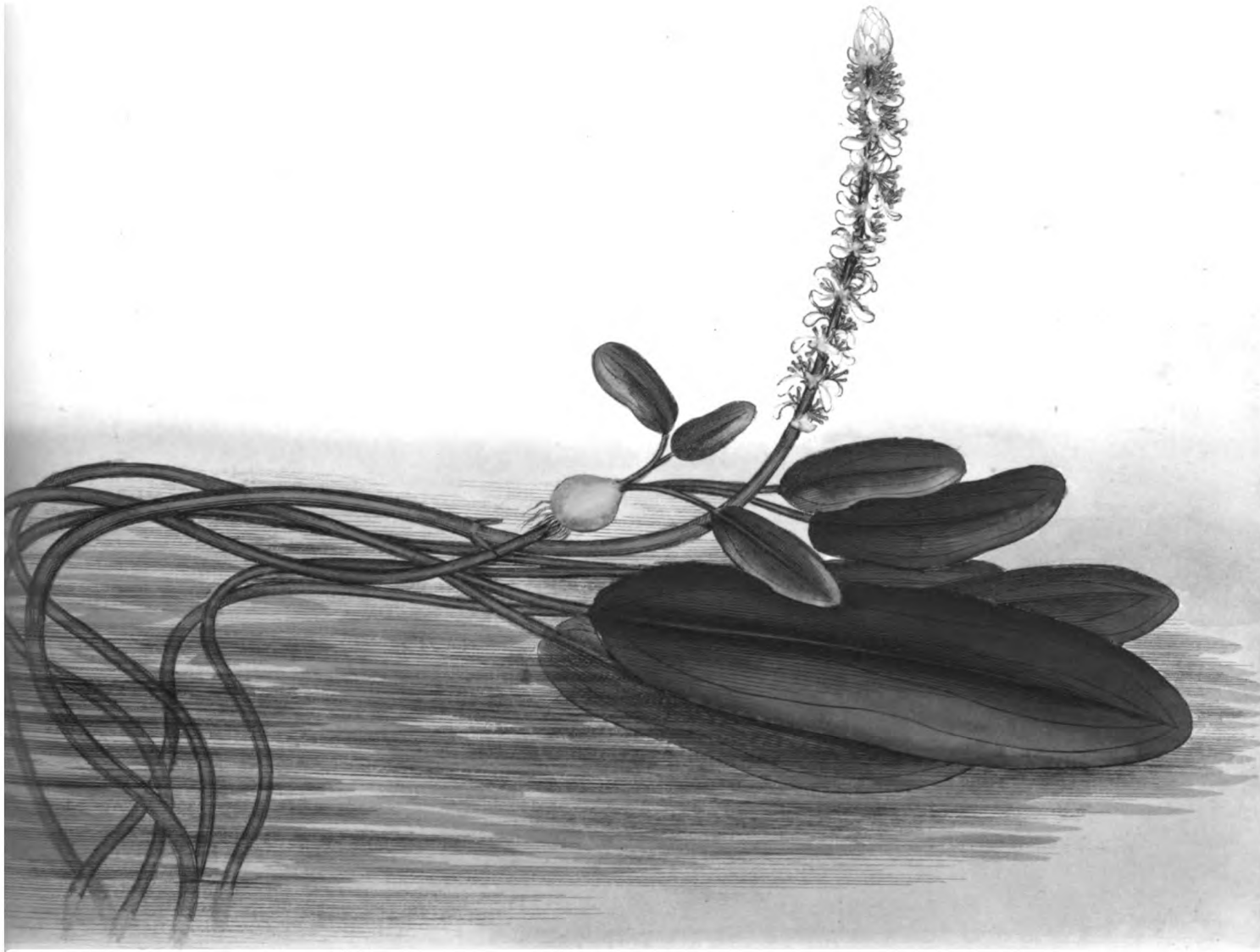
1. The chives detached.
 2. The pointals detached.
 3. The same magnified.
-

FOUR species only of this singular genus have hitherto been enumerated by authors: viz. the present one from the East Indies; *crispum*, a native of Ceylon; and *angustifolium* and *distachyon*, from the Cape of Good Hope; the last of which is the most showy, and is figured on our 290th plate.

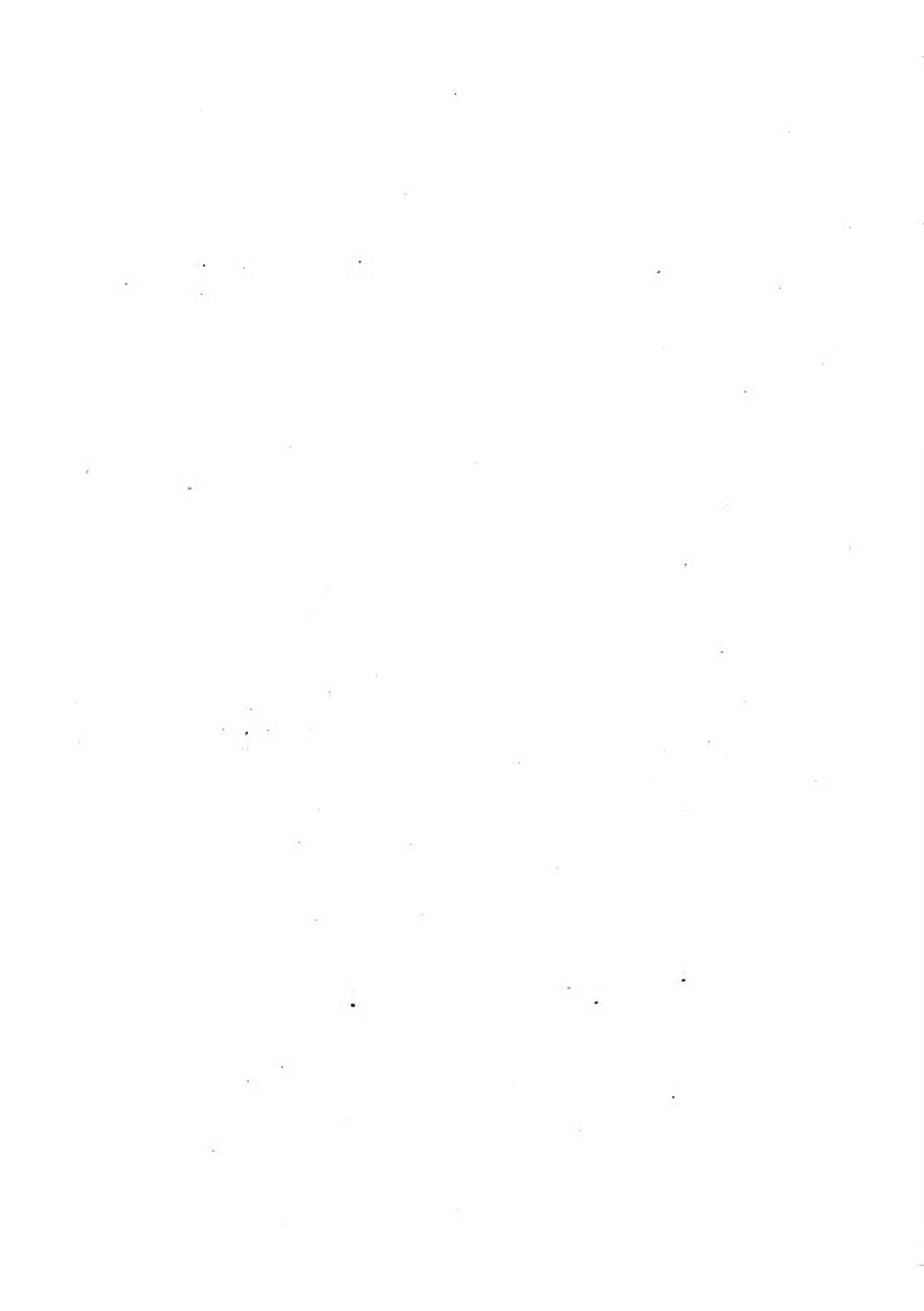
They are all water plants, and could no more thrive with their roots and natant leaves out of that element than an Aloe or *Stapelia* could prosper in it: they are therefore, along with other tropical aquatics, cultivated in our hot-houses in troughs or cisterns of rich earth and clear water; in which, consociated with the majestic *Nymphææ*, the stately *Thalia*, and the more humble but not less interesting *Menyanthes indica*, they produce a most fragrant and desirable appearance; that perhaps is indebted for some of its charms to the fine contrast formed by the terrestrial exotics which surround them.

In a collection of tropical plants, where a few cisterns of aquatics are judiciously interspersed, the oppressive heat of the stove in which they grow, is as it were delusively alleviated, "in the mind's eye," by the simple, yet cooling sight of the little pools of water in which they float. Few are the number of observers who contemplate them without imbibing pleasure. This unquestionably arises from the strong but agreeable contrast that is exhibited to the eye, by the happy junction of the productions of the waters with those of the earth. They are vegetables of widely different orders—productions of very different natures—and inhabitants of elements diametrically opposite.

The simple-spiked *Aponogeton* produces roundish tubers in various parts of its shoots; by the transplantation of which the plant is readily and speedily propagated. Our drawing of it was made in July last, at J. Vere's, Esq. Kensington Gore, in whose collection it thrives very well. We have not as yet seen it in any other.



mogeton monostachyon



P L A T E C C C C V I I .
C A L E N D U L A D E N T A T A .
Toothed-leaved Marygold.

C L A S S X I X . O R D E R I V .

SYNGENESIA POLYGAMIA NECESSARIA. Tips united. Necessary Polygamy.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|---|--|--|
| <p>RECEPTACULUM nudum. Pappus nullus. Calyx polyphyllus, subæqualis. Semina disci ut plurimum membranacea.</p> | | <p>RECEPTACLE naked. Pappus none. Empale- ment many-leaved, nearly equal. The seeds of the disk chiefly membranous.</p> |
|---|--|--|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|--|--|---|
| <p>CALENDULA, foliis alternis linearibus remote et acute dentatis ; caule fruticoso decum- bente.</p> | | <p>MARYGOLD, with alternate linear remotely and acutely dentated leaves, and a decum- bent shrubby stem.</p> |
|--|--|---|

Calendula dentata. Donn's Hort. Cantab. ed. 3. 163.

R E F E R E N C E T O T H E P L A T E .

1. The empalement.
 2. A floret of the circumference.
 3. A floret of the disk.
 4. The same laid open and magnified, to show the situation of the chives.
 5. The pointal, with the summit detached and magnified.
-

ALTHOUGH this species of *Calendula* appears to have been introduced to the British gardens so long since as the year 1790, from the Cape of Good Hope, its native country ; I do not find it enumerated either in Mr. Aiton's *Hortus Kewensis* or Gmelin's edition of *Systema Naturæ* ; but it will in all probability be taken up in Willdenow's *Species Plantarum*, when he arrives at that part of it which is to include the genus *Calendula*.

It is well known in the gardens by the applicable name of *dentata*, but is not a common plant,—although, from the beauty and size of its flowers, highly worthy of general cultivation : its branches are weak, yet shrubby ; and require support.

It is a green-house plant, and is propagated by cuttings in the usual way. Our drawing was made from the Clapham collection in July last.



Lendula dentata

... ..
...



P L A T E C C C C V I I I .
 D A H L I A P I N N A T A .
Pinnated Dahlia.

C L A S S X I X . O R D E R I I .

SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous
 Pointals.

E S S E N T I A L G E N E R I C C H A R A C T E R .

CALYX duplex. Corolla radiata, radiis laciniis calycis numero æquantibus : corollulæ pedicellatæ. Receptaculum paleaceum. Stigmata plumosa.

EMPALEMENT double. Blossom radiated, with the rays equalling in number the segments of the empalement : the florets pedicelled. Receptacle chaffy. Tips plumose.

S P E C I F I C C H A R A C T E R , & C .

DAHLIA, foliis oppositis, impari-pinnatis ; pinnulis quinque, ovatis, crenato-dentatis.
Cav. Ic. 1. 57. tab. 80.

DAHLIA, with leaves opposite, pinnated with an odd one ; the pinnules five, ovate, and notch-dentated.

R E F E R E N C E T O T H E P L A T E .

1. A young flower with the peduncle and empalement.
2. One of the radiating florets with its pedicel.
3. A floret of the disk.
4. The same spread open, to show the chives and pointal.
5. The pointal detached, with the summit magnified.

THE genus *Dahlia* was first established by the celebrated botanist Cavanilles *, (in honour of Andrew Dahl, a Swedish botanist, not Dale an Englishman,) for three lofty, thick-rooted, perennial plants, natives of the distant regions of Peru ; but all of which we have had the recent pleasure of seeing alive in the overflowing gardens of our own happy country. They are extremely desirable and showy plants ; and none of them more so than the present one ; which was raised from seeds sent from Madrid last spring, by the Right Hon. Lady Holland, and flowered last September and October, in the open ground, in her Ladyship's collection at Holland House, Kensington ; where our drawing was lately made. It has acquired the stately height of near eight feet, with a circumference of three ; and makes indeed a truly specious appearance : but we do not expect it will ripen its seeds ; the season being too far advanced to encourage any reasonable hope of that nature.

The best mode of propagation should seem to be that of dividing its somewhat tuberous roots, after the stems die down. As to treatment, we see no valid reason why it, and both the other *Dahlia*, (the *coccinea* and *rosea*,) should not be treated as hardy herbaceous plants ; placed in rich earth and a warm situation. But as they are both rare and valuable, it may at present be safer to consider them as greenhouse plants, keeping them in very large pots and well watered, until their stems show symptoms of dying down ; when moisture must be administered with a sparing hand.

There are considerable reasons for thinking that the pinnated *Dahlia* will hereafter be raised with double flowers, because the figure in Cavanilles' *Icones*, above cited, represents them nearly semi-double ; and the doubling of radiated syngenesious plants is well known to horticulturists to be a circumstance of pretty frequent occurrence.

* The public have now to regret the loss of this valuable botanist ; they are deprived of him : he died in May last at Madrid, aged 59.



Salvia pinnata

PLATE CCCCVIII.

DAHLIA



DESCRIPTION

The Dahlia is a perennial herbaceous plant, with a thick, tuberous root. The stems are upright and branched, bearing opposite, ovate leaves with serrated margins. The flowers are large, double, and composed of numerous overlapping petals, which may be single or double.

The Dahlia was first introduced into Europe by the celebrated Spanish Cavalier, (in the service of the Duke of Anjou), who brought it from Mexico in 1789. It is a native of Mexico, and is cultivated in the gardens of our own country. They are extremely numerous, and are distinguished by the number of petals, which may be single or double. The height of the plants varies from six to eight feet, with a diameter of the roots from one to two inches. They are very hardy, and will grow in any soil, but they do not expect it will give us any thing like the beautiful flowers of that nature.

The Dahlia is a very hardy plant, and will grow in any soil, but they do not expect it will give us any thing like the beautiful flowers of that nature. The Dahlia is a very hardy plant, and will grow in any soil, but they do not expect it will give us any thing like the beautiful flowers of that nature.

The Dahlia is a very hardy plant, and will grow in any soil, but they do not expect it will give us any thing like the beautiful flowers of that nature. The Dahlia is a very hardy plant, and will grow in any soil, but they do not expect it will give us any thing like the beautiful flowers of that nature.

* The Dahlia is a very hardy plant, and will grow in any soil, but they do not expect it will give us any thing like the beautiful flowers of that nature.



Dahlia pinnata

Publ. in the Bot. Beechey, 1847, vol. 1, p. 104, t. 1, f. 104
by W. Ansell, del. & engraver.



P L A T E C C C C I X .
P R O T E A S C O L Y M U S .
Smooth-leaved Protea . .

C L A S S I V . O R D E R I .

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|---|--|--|
| <p>COROLLA quadrifida sive quadripetala. Antheræ lineares insertæ petalis infra apicem. Calyx proprius nullus. Nux unisperma supera.</p> | | <p>BLOSSOM four-cleft or four-petaled. Tips linear, inserted on the petals below the apex. Empalement proper, none. Nut one-seeded above.</p> |
|---|--|--|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|--|--|--|
| <p>PROTEA, foliis lanceolatis acutis capituloque terminali rotundo glabris. <i>Protea Scolymus.</i> <i>Willd. Sp. Pl.</i> 1. 522.— <i>Schrad. Sert. Hann. tab.</i> 20.—<i>Ait. Hort. Kew.</i> 1. 127.</p> | | <p>PROTEA, with lance-shaped acute smooth leaves and a round terminal smooth head of flowers.</p> |
|--|--|--|

LEUCODENDRON (*Scolymocephalum*) foliis lanceolatis, floribus subrotundis, caule fruticoso ramoso. *Linn. Sp. Pl.* 2. 153.

LEPIDOCARPODENDRON acaulon, ramis numerosis e terra excrescens, calyce floris immaturo extus e rubro et flavo variegato, intus flavo. *Boerh. Lugb.* 2. p. 192. *tab.* 192.

SCOLYMOCEPHALUS africanus, fruticis æthiopici coniferi Breyonii foliis, capite majori squamato. *Raj. H.* 3. 10.

R E F E R E N C E T O T H E P L A T E .

1. A floret detached.
2. A petal with its tip magnified.
3. The seed-bud and pointal.

THE *Protea Scolymus* grows spontaneously on the Tiger mountain at the Cape of Good Hope ; but has long been an inhabitant of European conservatories, although a rare one. It was well known to several of the old botanists, who appear to have differed much concerning the general appellations which they thought proper to bestow upon it ; as will appear on consulting the synonyms above. They made several genera of *Proteæ* ; but the botanists of later times have melted them all down (we fear injudiciously) into one great genus : and Schrader has even added *Lambertia* to *Protea* ; and figured it in his *Sertum Hannoverianum*, under the name of *Protea nectarina* ; thereby alluding to the sweet juice which abounds in the tubes of its flowers :—*melliflua* would have been a still more expressive term. The smooth-leaved *Protea* requires the same treatment as the rest of the genus, and is a very fine species, producing its flowers in May and June. Our figure was taken at the Clapham collection.



a. Stelymus

PLATE CCCCX.
CYNANCHUM UNDATUM.
Waved Cynanchum.

CLASS V. ORDER I.
PENTANDRIA DIGYNIA. Five Chives. Two Pointals.

ESSENTIAL GENERIC CHARACTER.

CONTORTA. Nectarium cylindricum, quin- || CONTORTED. Honey-cup cylindrical, five-
quedentatum. || toothed.

SPECIFIC CHARACTER.

CYNANCHUM, caule volubili, foliis cordatis || CYNANCHUM, with a twining stem, heart-
oblongis obtusis cum acumine undatisque, || shaped oblong blunt leaves, but with a
umbellis axillaribus subproliferis. || sudden point, and waved, axillary some-
what proliferous umbels.

REFERENCE TO THE PLATE.

1. The empalement.
2. The blossom spread open.
3. The outer scale of the honey-cup.
4. The parts of fructification magnified.
5. The inner scale of the honey-cup.
6. The outside of the same.
7. The seed-bud, shaft, summit and chives magnified.

THE Waved Cynanchum is more remarkable for novelty than beauty; yet, as an addition to our volubious exotics, it possesses sufficient elegance to render it worthy our attention: especially as climbing plants have of late years become quite fashionable in most of the best conservatories in the vicinity of London.

As a species, we conceive it to be perfectly nondescript, although it should seem to possess several characters in common with *Cynanchum reticulatum*, and *C. undulatum* of Willdenow, &c.; both of which are known to us, but are described as having ovate, or oblong, not heart-shaped leaves. *C. reticulatum* is also a native of the same country, the East Indies; from whence seeds of the undatum were brought in the year 1803 by Captain Thomas Hardwicke; and were raised in the collection of the Marquis of Blandford, at White Knights, Berks, where they flowered last July; when that nobleman obligingly communicated to us the specimen from which the annexed figure was made.

The Waved Cynanchum is a hot-house plant, and requires nearly the same treatment as *Pergularia minor* of our 184th plate.



schum undatum

Pub. as the Act. Director Dec. 1, 1888
by H. Andrews & Knightsbridge



PLATE CCCCXI.
PSORALEA SPICATA.
Spiked-flowered Psoralea.

CLASS XVII. ORDER IV.

DIADELPHIA DECANDRIA. Two Brotherhoods. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

CALYX longitudine leguminis. Stamina diadelpa. Legumen monospermum subrostratum evalve.

EMPALEMENT the length of the pod. Chives diadelphous. Pod one-seeded roundish and valveless.

SPECIFIC CHARACTER, &c.

PSORALEA, foliis obovatis recurvato-mucronatis subtus punctatis, spica terminali oblonga. *Willd. Sp. Pl. 3. 1345.*

PSORALEA, with leaflets inversely egg-shaped, recurvedly mucronated and dotted beneath, and an oblong terminal spike of flowers.

REFERENCE TO THE PLATE.

- 1 The empalement.
 2. A standard.
 3. One of the wings.
 4. The keel.
 5. The chives and pointal.
 6. The seed-bud and pointal.
-

THE spiked-flowered *Psoralea* is a shrubby plant, and rises to the height of a foot or two; producing its spikes of flowers in the months of July and August, at the ends of its branches. It is a native of the Cape of Good Hope, and in this country is found to succeed very well in any green-house which has a flue to keep out the frost: and is propagated by seeds, and also by cuttings if carefully managed. Although not a very newly-introduced plant, it is certainly not a frequent one in our gardens; indeed we do not recollect having ever seen it in any collection, except the Nursery of Messrs. Whitley and Brames, Old Brompton; where our drawing was made some time since; and where it was considered and treated as a new species: which, however, as appears by our synonym above given, is not the case.



Soralea spicata

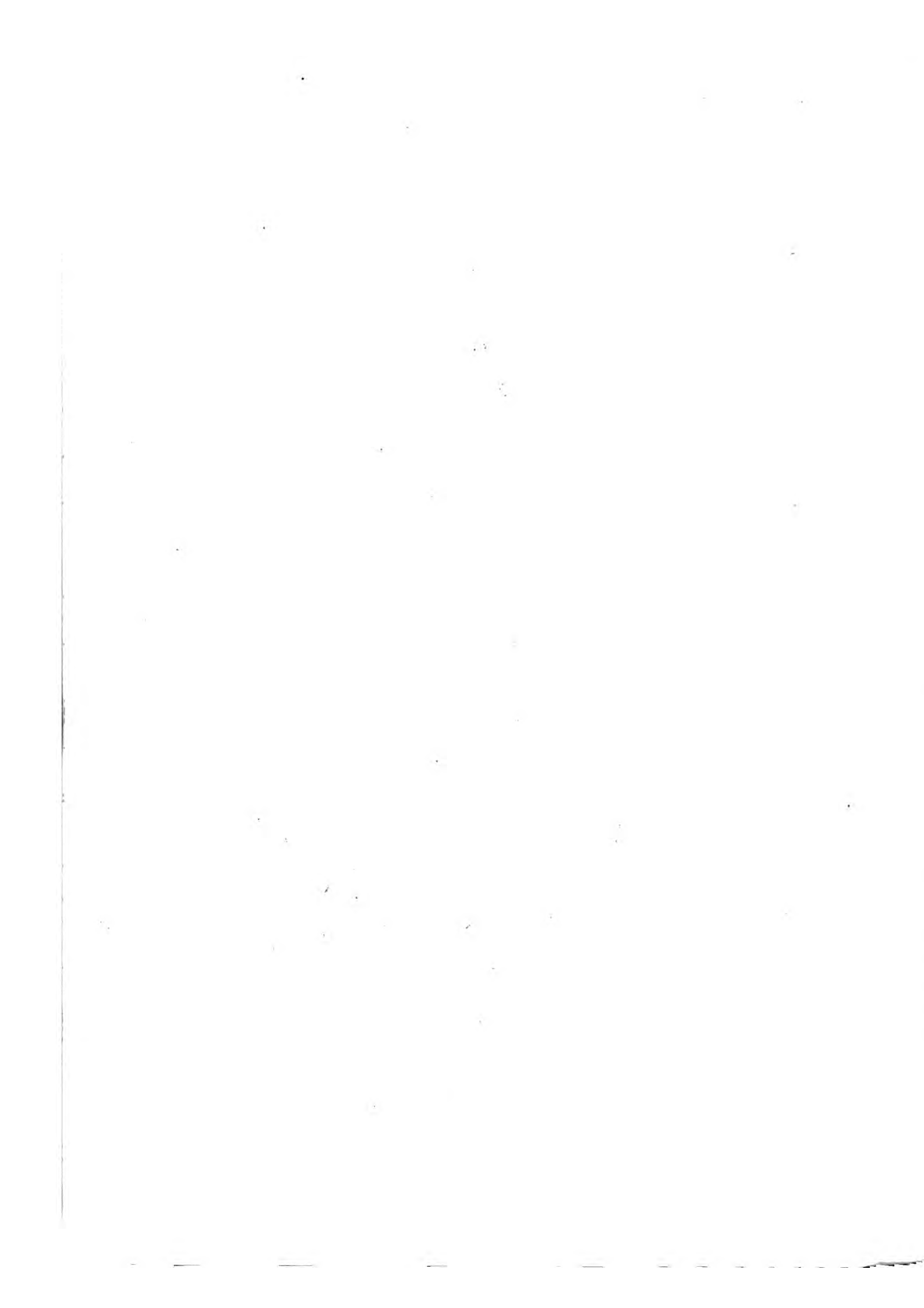




PLATE CCCCXII.
CALENDULA VISCOSA.
Viscous Marygold.

CLASS XIX. ORDER II.

SYNGENESIA POLYGAMIA NECESSARIA. Tips united. Necessary Polygamy.

ESSENTIAL GENERIC CHARACTER.

RECEPTACULUM nudum. Pappus nullus. Calyx polyphyllus, subæqualis. Semina disci ut plurimum membranacea.

RECEPTACLE naked. Pappus none. Empale-ment many-leaved, nearly equal. The seeds of the disk chiefly membranous.

SPECIFIC CHARACTER.

CALENDULA, viscosa, foliis alternis lineari-cuneatis pinnatifido-dentatis, calycibus lucidis tomentoso-ciliatis, caule fruticoso debili.

MARYGOLD, viscosa, with alternate linear-cuneated pinnatifid-toothed leaves, shining tomentosely-ciliated empalements, and a weak shrubby stem.

REFERENCE TO THE PLATE.

1. The empalement.
2. A floret of the ray.
3. A floret of the disk.
4. The same magnified.
5. The corolla spread open and magnified.
6. The seed-bud and pointal.

THE figure annexed represents a new and very ornamental species of the genus *Calendula*, which we lately discovered flowering beautifully, amongst many other rare plants in the charming collection of exotics at George Hibbert's, esq. Clapham; where it was lately raised from seeds, sent to him, we believe, from the Cape of Good Hope, of which country we understand it is a native.

It is a shrubby species, and possesses much of the growth and habit of *Calendula dentata* of our last number; and indeed in most things, except its considerable viscosity and the colour of its flowers, exhibits a very great similitude to that species; and will be found to succeed with the same treatment and mode of propagation; but is in every respect a much more desirable plant.



Endula viscosa

1820

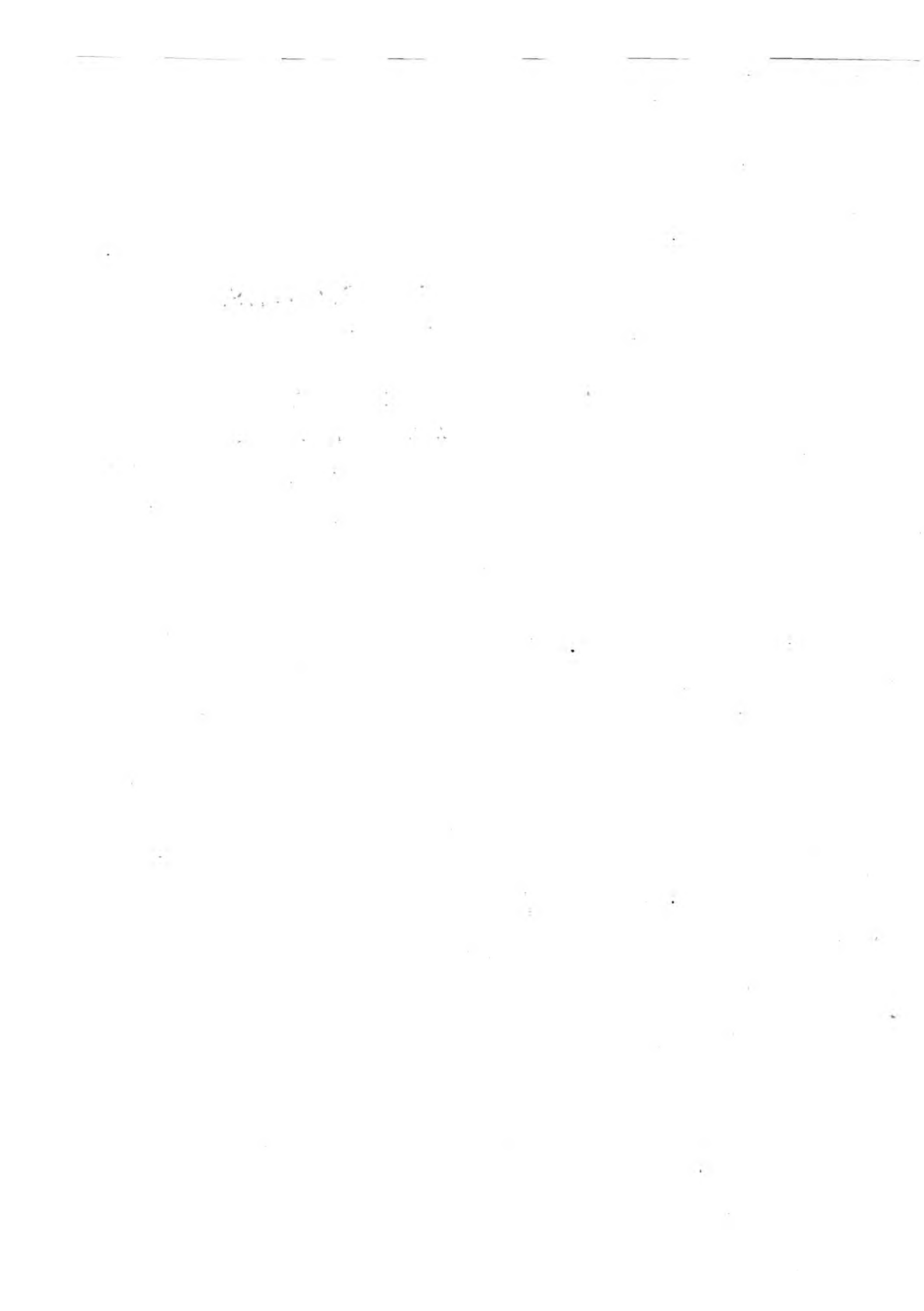


PLATE CCCCXIII.
GERANIUM HYMENODES.
Ternate-leaved Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|-----------|---|
| <p>MONOGYNA. Stigmata quinque. Fructus ros- tratus pentacoccus.</p> | <p> </p> | <p>ONE POINTAL. Five summits. Fruit beaked, five berries.</p> |
|---|-----------|---|

SPECIFIC CHARACTER, &c.

| | | |
|--|-----------|---|
| <p>GERANIUM, pedunculis multifloris, foliis ob- tusis inciso-dentatis, inferioribus ternatis, superioribus trilobis, caule erecto.</p> | <p> </p> | <p>GERANIUM, with many-flowered peduncles, obtuse gash-dentated leaves, the inferior ones ternate, the superior three-lobed, and an erect stem.</p> |
|--|-----------|---|

GERANIUM (*trifolium*) caule herbaceo crasso ramoso, foliis radicalibus ternatis lobatis, caulinis oppositis simplicibus lobatis, petalis venosis, superioribus maculatis. *Cav. Diss.* 4. p. 223. *tab. 97. fig. 3.*

ERODIUM hymenodes. *L'Herit. Geran. tab. 4.*

ERODIUM hymenodes. *Willd. Spec. Pl. 3. 635.*

REFERENCE TO THE PLATE.

1. The empalement and parts of fructification.
2. The seed-bud, chives and pointal magnified.
3. The seed-bud and pointals.
4. The same magnified.

THE ternate-leaved Geranium belongs to L'Heritier's genus *Erodium*. It is a native of mountainous, rocky situations, in the northern parts of Africa; but has been cultivated in most of our best collections of exotics several seasons; yet is not so frequently met with as it deserves to be, on account of the unusual delicacy in the veining and spotting of its flowers; which, from their size and number, make a good appearance; and are produced in succession most part of the year. The plant itself is of very humble, scarcely shrubby growth; yet rises somewhat higher than the real tuberous species; to which, however, in its contracted, thickened stems, it betrays a considerable affinity. It is propagated readily by seeds, and likewise by cuttings; and stands out in the open ground in mild winters uninjured, although it is generally killed in severe ones; which renders it necessary to preserve a supply of it in the conservatory.



Ranium Hymenoides



PLATE CCCCXIV.
CRASSULA OBLIQUA.
Oblique-leaved Crassula.

CLASS V. ORDER V.

PENTANDRIA PENTAGYNIA. Five Chives. Five Pointals.

ESSENTIAL GENERIC CHARACTER.

CALYX pentaphyllus. Petala quinque. Squamæ quinque nectariferæ ad basin germinis.

EMPALEMENT five-leaved. Petals five. Five honey-bearing pores at the base of the germ.

SPECIFIC CHARACTER, &c.

CRASSULA, foliis ovatis obliquis integerrimis acutis distinctis, margine cartilagineis. *Willd. Sp. Pl.* 1. 1553.—*Ait. Hort. Kew.* 1. 395.

CRASSULA, with leaves egg-shaped oblique very entire acute distinct, and cartilaginous on the margin.

REFERENCE TO THE PLATE.

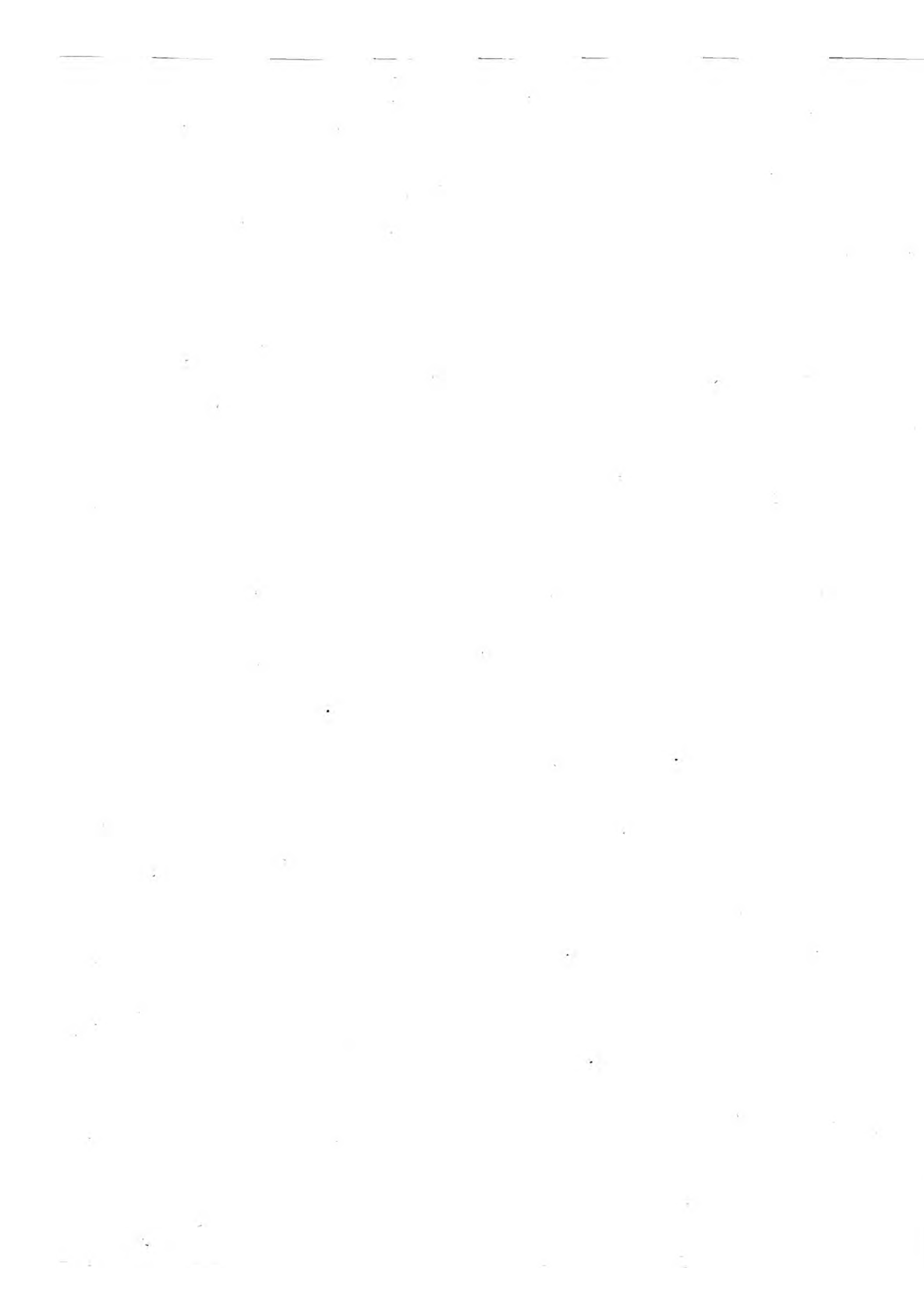
1. A flower with its empalement.
2. The seed-bud and pointals.
3. A detached pointal magnified.

ALTHOUGH the genus *Crassula* is a very extensive one, and possesses many species which are remarkable either for beauty, singularity, or fragrance; the one which we have here the satisfaction of illustrating is, we think, by far the most ornamental; and is at the same time both a stately and a singular plant. It is very succulent, and requires the heat of the hot-house to make it bloom; but prospers best, like all other succulent plants of the more tender kind, on the shelves of a dry stove. It is a native of the Cape of Good Hope, and is propagated with facility by cuttings; prefers a light loamy soil, and a dry treatment; and produces its large bunches of flowers late in the year; which are very showy and of considerable duration, particularly if removed into the green-house while in bloom, and at that time more liberally watered.

The oblique-leaved *Crassula* is an old inhabitant of our gardens, but not a frequent one. Our drawing was made from a fine specimen obligingly sent us by Thomas Evans, esq. from his fine collection at Stepney, last August.



Raflesia obliqua



P L A T E C C C C X V .
CANTUA CORONOPIFOLIA.
Coronopus-leaved Cantua.

C L A S S V . O R D E R I .

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|--|------------|---|
| <p>CALYX 3—5-fidus. Corolla infundibuliformis. Stigma trifidum. Capsula trilocularis, trivalvis, polysperma. Semina alata.</p> | | <p>EMPALEMENT from three- to five-cleft. Blossom funnel-shaped. Summit trifid. Capsule three-celled, three-valved, many-seeded. The seeds winged.</p> |
|--|------------|---|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|---|------|---|
| <p>CANTUA, floribus terminalibus, staminibus longitudine corollæ, foliis pinnatifidis.</p> | | <p>CANTUA, with terminal flowers, chives the length of the blossom, and feather-cleft leaves.</p> |
|---|------|---|

CANTUA (coronopifolia). *Willd. Sp. Pl.* 1. 879.

POLEMONIUM (rubrum), foliis pinnatifidis linearibus, floribus racemosis pendulis. *Linn. Sp. Pl. ed. 3.* p. 231.

IPOMEA (rubra). *Linn. Syst. Veg.* 171.

IPOMOPSIS (elegans), minutim pubescens, foliis lineari-pinnatifidis. *Mich. Fl. Boreali-Americ.* 1. 142.

QUAMOCLIT pinnatum erectum, floribus in thyrsium digestis. *Dill. Hort. Elth.* 321. *tab.* 241. *fig.* 312.

R E F E R E N C E T O T H E P L A T E .

- 1 The empalement.
2. The blossom spread open, with the chives attached.
4. The seed-bud and pointal, with the summit magnified.

ALTHOUGH the Coronopus-leaved Cantua was cultivated in Sherard's celebrated garden at Eltham, in the time of Dillenius, and is figured by him, in the *Hort. Elth.* above cited, as a species of *Quamoclit*, it has been an entire stranger to our modern gardens until very lately; having no doubt long since perished in all the old collections.

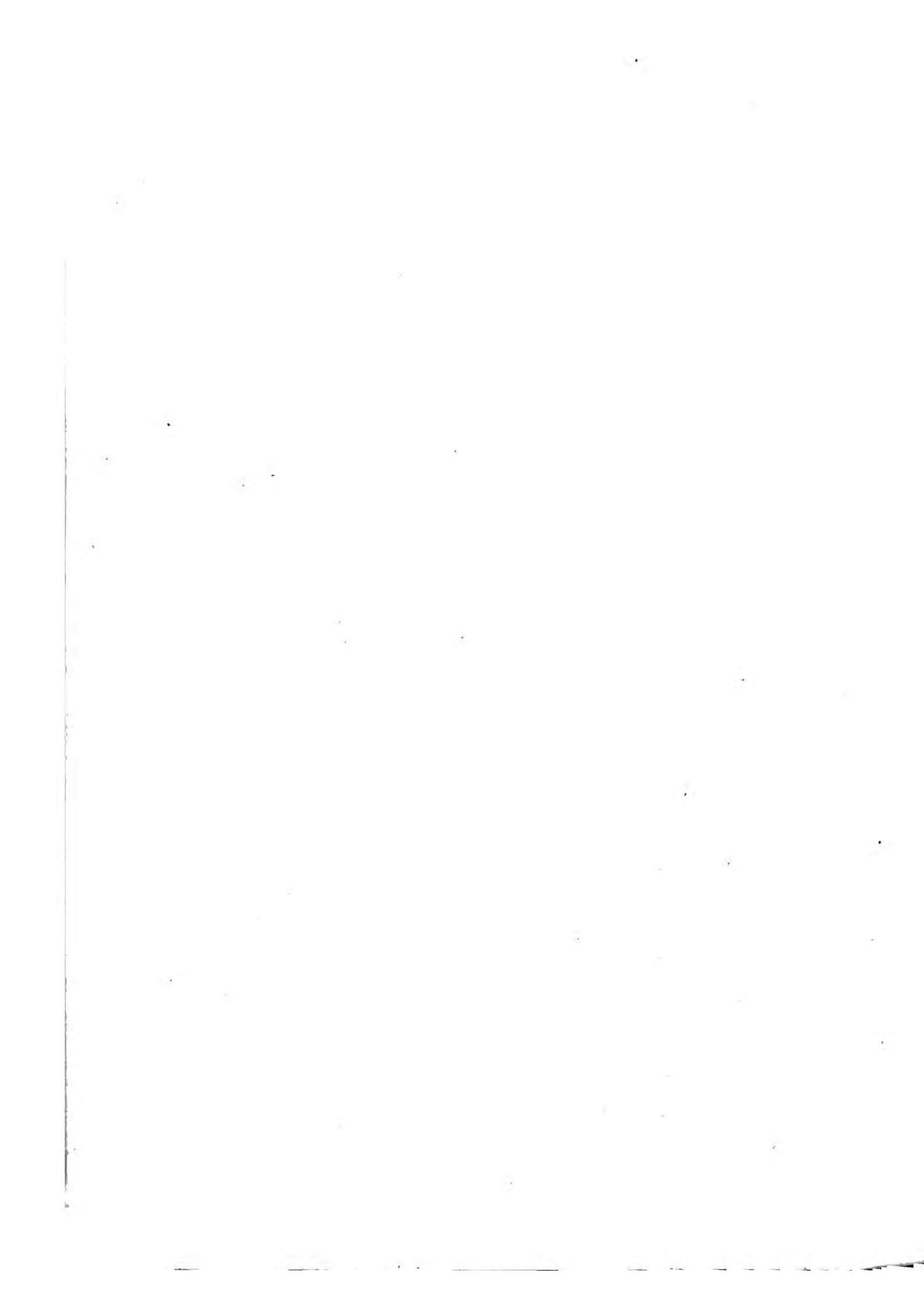
Who the reintroducer of this very elegant plant is, we have yet to learn: but the beautiful specimen here figured, was obligingly communicated to us by the Marquis of Blandford, from White Knights, Berks, about the end of November last.

It is a native of Carolina, and sufficiently hardy, we should think, to resist the cold of our ordinary winters: its root is herbaceous, and the plant admits of increase by parting the same, in spring or autumn.

Writers have differed in a very remarkable manner concerning the Genus to which they should refer this plant; and Linnæus himself seems to have been as undetermined as any of them concerning it; having at different times given it as a *Polemonium*, and an *Ipomea*; as will appear among our synonyms above. Michaux has called it *Ipomopsis*: and another foreign writer, whose work we have not got, has given it the appellation of *Noothea Pulchella*: but Willdenow has added it to the genus *Cantua*, with which we conceive, in our humble opinion, it sufficiently accords; and have therefore ventured to follow him in his arrangement of it.



Zantua coronopifolia



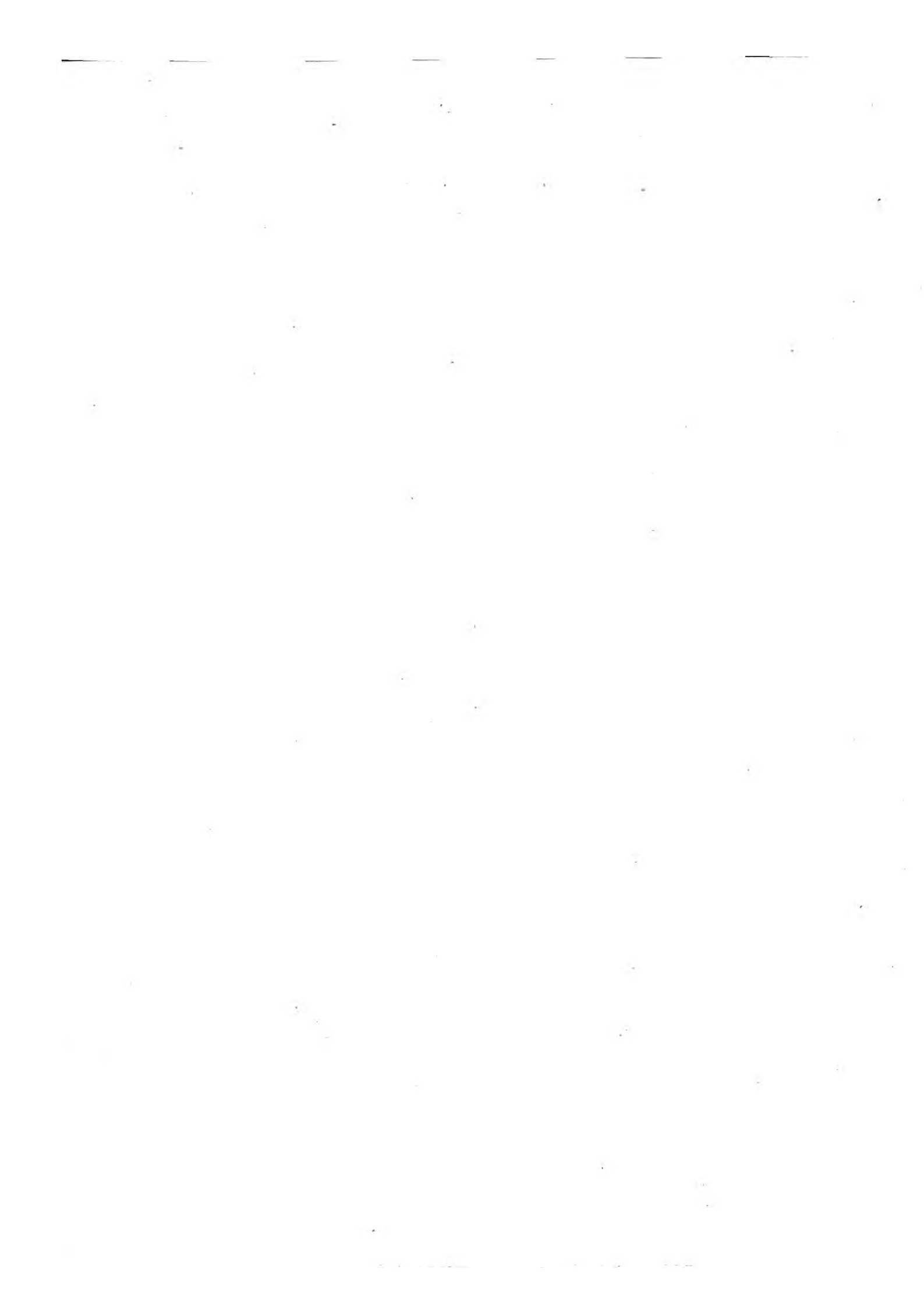


PLATE CCCCXVI.
SALVIA CHAMÆDRIFOLIA.
Germander-leaved Sage.

CLASS II. ORDER I.

DIANDRIA MONOGYNIA. Two Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|---|-----------|---|
| <p>COROLLA inæqualis. Filamenta tranverse pedicello affixa.</p> | <p> </p> | <p>BLOSSOM unequal. Chives affixed transversely to a pedicel.</p> |
|---|-----------|---|

SPECIFIC CHARACTER, &c.

| | | |
|--|-----------|---|
| <p>SALVIA, foliis ovalibus rugosis obsolete crenatis, verticillis terminalibus nudis quadrifloris, staminibus corolla brevioribus.</p> | <p> </p> | <p>SAGE, with oval rough obsolete notched leaves, terminal naked four-flowered whorls, and chives shorter than the blossom.</p> |
|--|-----------|---|

SALVIA Chamædrifolia. Donn's Hort. Cantab. p. 7.

REFERENCE TO THE PLATE.

1. The empalement.
2. The blossom with the chives attached.
3. The seed-bud and pointal, with the summit magnified.

OUR drawing was made from plants in the Hibbertian collection at Clapham last autumn: but we have also seen this Sage in other places; particularly at Cambridge; and know it to be the *Salvia Chamædrifolia* of the *Hortus Cantabrigiæ* ed. 3.: but we do not find that name in any other publication within our reach.

Mr. Donn marks it as a green-house perennial, and gives Spain as its native country, but with a note of interrogation; and adds that it flowers in July and August; and that it was introduced into our gardens in the year 1798.

We believe that A. B. Lambert, Esq. was the first introducer of it, and that gentleman thinks he received the seeds of it from Spain. The first time of our seeing it was at J. Vere's, Esq. in the autumn of 1802, where it was cultivated as a green-house shrub, and by the name of *S. citrina*, a name that well expresses the charming odour of its leaves when gently rubbed; which not a little resembles the pleasing, well-known scent of Lemon Thyme.

It is propagated by cuttings in the usual way: its stem and branches are very slender, but shrubby, and arise to the height of two or three feet. The flowers are terminal, large, showy, and possess a beautiful colour of the deepest blue.



Vicia Chamadriifolia

Vicia Chamadriifolia
Linn. Sp. Pl. 1000. 1753.
Lam. Bot. Franc. t. 1. p. 100. 1789.
Lam. Bot. Belg. t. 1. p. 100. 1795.
Lam. Bot. Ital. t. 1. p. 100. 1805.
Lam. Bot. Gall. t. 1. p. 100. 1815.
Lam. Bot. Pyr. t. 1. p. 100. 1825.
Lam. Bot. Sicil. t. 1. p. 100. 1835.
Lam. Bot. Corsic. t. 1. p. 100. 1845.
Lam. Bot. Græc. t. 1. p. 100. 1855.
Lam. Bot. Turc. t. 1. p. 100. 1865.
Lam. Bot. Pers. t. 1. p. 100. 1875.
Lam. Bot. Ind. t. 1. p. 100. 1885.
Lam. Bot. Japon. t. 1. p. 100. 1895.
Lam. Bot. Siam. t. 1. p. 100. 1905.
Lam. Bot. Austral. t. 1. p. 100. 1915.
Lam. Bot. Novæ Zeland. t. 1. p. 100. 1925.
Lam. Bot. Insul. Ind. t. 1. p. 100. 1935.
Lam. Bot. Insul. Austr. t. 1. p. 100. 1945.
Lam. Bot. Insul. Afric. t. 1. p. 100. 1955.
Lam. Bot. Insul. Europ. t. 1. p. 100. 1965.
Lam. Bot. Insul. Americ. t. 1. p. 100. 1975.
Lam. Bot. Insul. Asia. t. 1. p. 100. 1985.
Lam. Bot. Insul. Oceania. t. 1. p. 100. 1995.

P L A T E C C C C X V I I .
C R O T O L A R I A P U L C H E L L A .
Ternate Large-flowered Crotolaria.

C L A S S X V I I . O R D E R I V .
DIADELPHIA DECANDRIA. Two Brotherhoods. Ten Chives.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|---|--|--|
| <p>LEGUMEN turgidum, inflatum, pedicellatum. Filamenta connata cum fissura dorsali.</p> | | <p>POD turgid, inflated, pedicelled. Chives con- joined with a dorsal fissure.</p> |
|---|--|--|

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

| | | |
|--|--|---|
| <p>CROTOLARIA, frutescens, ramulis teretibus sericeis, foliis ternatis, foliolis lineari- lanceolatis acutis petiolis sesquialongioribus, subtus subpilosis.</p> | | <p>CROTOLARIA, shrubby, with cylindrical silky branches, and ternate leaves, with the leaflets linear-lanced acute-once, and-an- half the length of the foot-stalks, and somewhat hairy beneath.</p> |
|--|--|---|

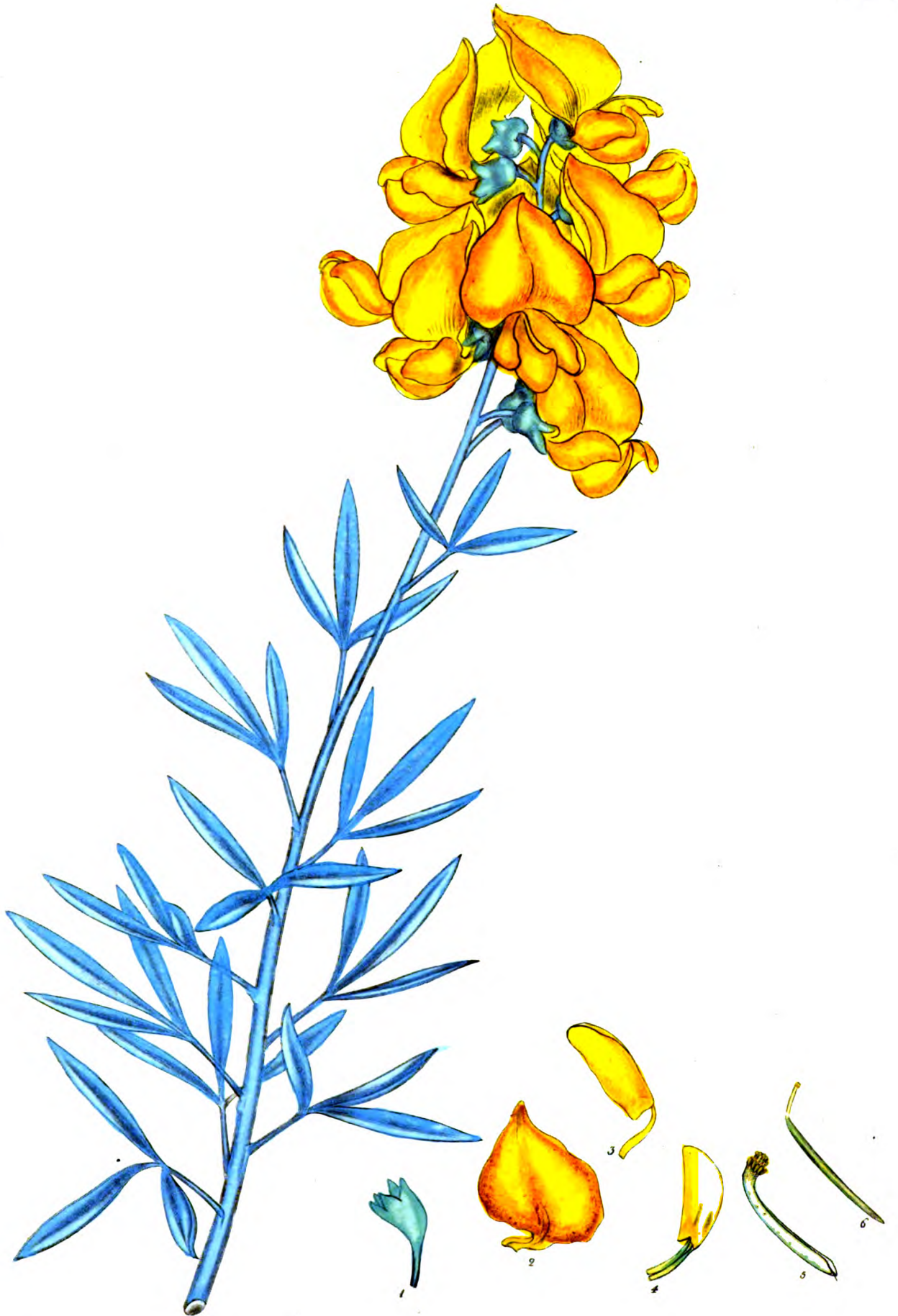
R E F E R E N C E T O T H E P L A T E .

1. The empalement.
2. The standard.
3. One of the wings.
4. The keel.
5. The chives.
6. The seed-bud and pointal.

The species of *Crotolaria* here represented, may perhaps be the "*C. (pilosa) foliis ternatis pilosis, foliolis mucronatis, floribus terminalibus,*" of Thunberg's *Prodromus*: but from so insufficient a character we have not ventured to determine it to be that plant; having rather chosen to give it as a new species by the name of *Pulchella*; which it well deserves.

It is a green-house plant, a native we understand of the Cape; and arises with a straight, but little branched, woody stem, to the height of about 3 feet: the branches are cylindrical and silky: the leaves alternate and ternate, inclining to hoary, with pubescent and channelled foot-stalks: the leaflets are lance-shaped, or linear-lanced, once and an half, or sometimes twice the length of their common foot-stalk, and furnished beneath with minute, close-pressed hairs: the flowers are in a terminal racemus, large, yellow, and showy; and are produced in the month of July.

Hitherto we have seen this plant only at the Nursery of Messrs. Colvill, in the King's Road, where our drawing was made. In favourable seasons the plant will probably ripen its seeds in this country: and at other times we have no doubt of its being capable of propagation by cuttings in the usual way; although we do not know that this has yet actually been done.



Vicia pumila

Vicia pumila
L. Sp. Pl. 1000. t. 10. f. 10.
1753.

P L A T E C C C C X V I I I .
G E N T I A N A C A T E S B Æ I .
Catesby's Gentian.

C L A S S V . O R D E R I I .

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|--|--|---|
| <p>COROLLA monopetala. Capsula bivalvis, unilocularis; receptaculis duobus longitudinalibus.</p> | | <p>BLOSSOM one-petalled. Capsule two-valved, one-celled; with two longitudinal receptacles.</p> |
|--|--|---|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|--|--|--|
| <p>GENTIANA, foliis remotis oppositis ternatisque, corollis verticillatis ventricosis decemfidis, laciniis alternis inæqualiter bifidis lacerisque; calycibus minute ciliatis.</p> | | <p>GENTIAN, with remote opposite and ternate leaves, whorled ten-cleft bellied flowers, with their alternate segments unequally bifid and torn; and minutely ciliated empalements.</p> |
|--|--|--|

GENTIANA (*Catesbæi*), corollis campanulatis ventricosis extus cæruleis, foliis lanceolatis remotis. *Walt. Fl. Carolin.* 109.

GENTIANA (*Saponaria*), corollis quinquefidis campanulatis ventricosis verticillatis, foliis ovato-lanceolatis trinerviis. *Willd. Sp. Pl.* 1. 1338.

R E F E R E N C E T O T H E P L A T E .

1. The empalement.
2. The blossom spread open.
3. The pointal.

THE beautiful species of *Gentiana* here represented, does not appear to be noticed either in Willdenow's edition of *Species Plantarum*, or the *Hortus Kewensis* of Mr. Aiton; except by the former of these authors, as being synonymous with *G. Saponaria*; from which as a species we conceive it distinct: neither do we find it enumerated in Mr. Donn's *Hortus Cantabrigiensis*: but it is described by Walter in his *Flora Caroliniana*, under the name of *Catesbæi*; and is known in several of the principal gardens in the neighbourhood of London by that appellation; which we have therefore thought it more eligible to adopt, than run any risk of occasioning confusion by applying a new one.

The plant is perennial and herbaceous, a native of Carolina, and is propagated by parting its roots in autumn, or early spring; but requires a moist sheltered situation, and peat earth in the open air, to make it flourish.

It rises with several stems to the height of a foot or upwards: the leaves are opposite, or in threes, remote, lanceolate, stem-clasping, and obscurely three-nerved, with scabrous margins, occasioned by minute, upwardly-directed serrulations, which at the base of the leaf are decurrent, and form four or six roughened lines on the stem: the flowers are irregularly whorled; but the uppermost whorl is by much the largest; each blossom is of a rich deep purple colour, ventricose, and opens very little at the mouth, where it is divided into ten incurving segments, every other of which is of a much paler colour than the rest, broader, unequally bifid, and minutely lacerated: the empalement is five-cleft, and its segments are linear-lance-shaped, with minutely ciliated edges, after the manner of the edges of the leaves.

The living specimen from which our figures were made, was obligingly communicated to us by the Hon. Mr. Irby, of Farnham Royal, Bucks.

PLATE CCCCXIX.
 GENISTA LUSITANICA.
Portugal Genista.

CLASS XVII. ORDER IV.

DIADELPHIA DECANDRIA. Two Brotherhoods. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

CALYX bilabiatus: 2—3 dentibus, binis superioribus brevissimis. Vexillum oblongum a pistillo staminibusque deorsum reflexum.

EMPALEMENT two-lipped: with 2—3 teeth, the two uppermost very short. The standard oblong, and reflexed downwards from the chives and pointal.

SPECIFIC CHARACTER, &c.

GENISTA, caule aphylo, spinis decussatis.
Willd. Sp. Pl. 2. 946.—Ait. Hort. Kew.
 2. 16.

GENISTA, with a leafless stem, and decussated spines.

SCORPIUS secundus. *Clus. Hist. 1. p. 107.*

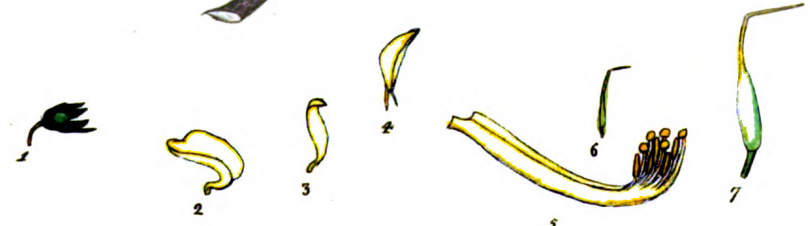
REFERENCE TO THE PLATE.

1. The empalement.
2. The standard.
3. One of the wings.
4. The keel.
5. The chives.
6. The seed-bud and pointal.
7. The same magnified.

THE Portugal Genista is a very spiny, and almost leafless shrub, of bushy growth; and although very well known to most of the old Botanists, does not appear to have been cultivated in the British gardens until the year 1771; when, according to Mr. Aiton's *Hortus Kewensis*, it was introduced by Mrs. Primmet. It is a native of Portugal and Spain, but is sufficiently hardy to resist the cold of our ordinary winters, if planted in a sheltered situation: yet is extremely liable to be injured, or even destroyed, in those which take place with rigour and severity: but as it very frequently produces good seeds, a supply of it is not difficult to be kept up that way. The best time of sowing them is spring, and they will require some slight protection from frost while young.

The plant blooms freely from March till May, and when decorated with its golden flowers, makes a very ornamental appearance in the shrubbery; in which, although it has been so long in cultivation, we cannot help regretting that it but seldom occurs: and we venture to recommend it along with *G. germanica* (a closely allied species) to the further attention of our cultivating friends.

Like many other shrubby leguminous plants, this Genista is averse to being frequently transplanted; and never suffers the operation of removal with impunity. Let that business therefore, when necessary, be performed with all possible diligence and care. Our figure was taken from plants in the Clapham collection.



ista lusitanica



PLATE CCCCXX.
GERANIUM FLORIBUNDUM.
Tuberous Many-flowered Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus ro- || ONE POINTAL. Five summits. Fruit beaked,
stratus pentacoccus. || five berries.

SPECIFIC CHARACTER.

GERANIUM, tuberosum, pinnis foliorum oppo- || GERANIUM, tuberosum, with the pinnæ of the
sitis bipartitis, laciniis ellipticis; scapis || leaves opposite and two-parted, with their
numerosis ramosis, petalis clavato-linea- || segments elliptical; numerous branched
ribus. || flower-stalks, and clavately-linear petals.

REFERENCE TO THE PLATE.

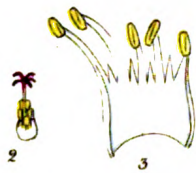
1. The empalement.
2. The seed-bud, chives, and pointal.
3. The chives spread open.
4. The seed-bud and pointal.
5. The same magnified.

GERANIUM floribundum appears to be not only a nondescript species of the Erodium family of this extensive tribe of plants; but at the same time, a new and brilliant one. Few in number are the species which equal it in beauty: and still more rare are those which can be allowed to surpass it.

It is of extremely humble growth, and its roots are tuberous: from the crowns of which it throws up, in the early part of summer, a considerable number of flowering stems, each adorned with many flowers; whence our specific name of floribundum.

It is a native of the Cape of Good Hope, and prospers with the same treatment as the other dwarf Geraniums; and is propagated like them, by carefully dividing the tubers of its roots.

Our figure was made from the Clapham collection, which it is well known abounds more in this description of plants, than any other existing in this country.



um floribundum

Handwritten text, possibly a signature or date.



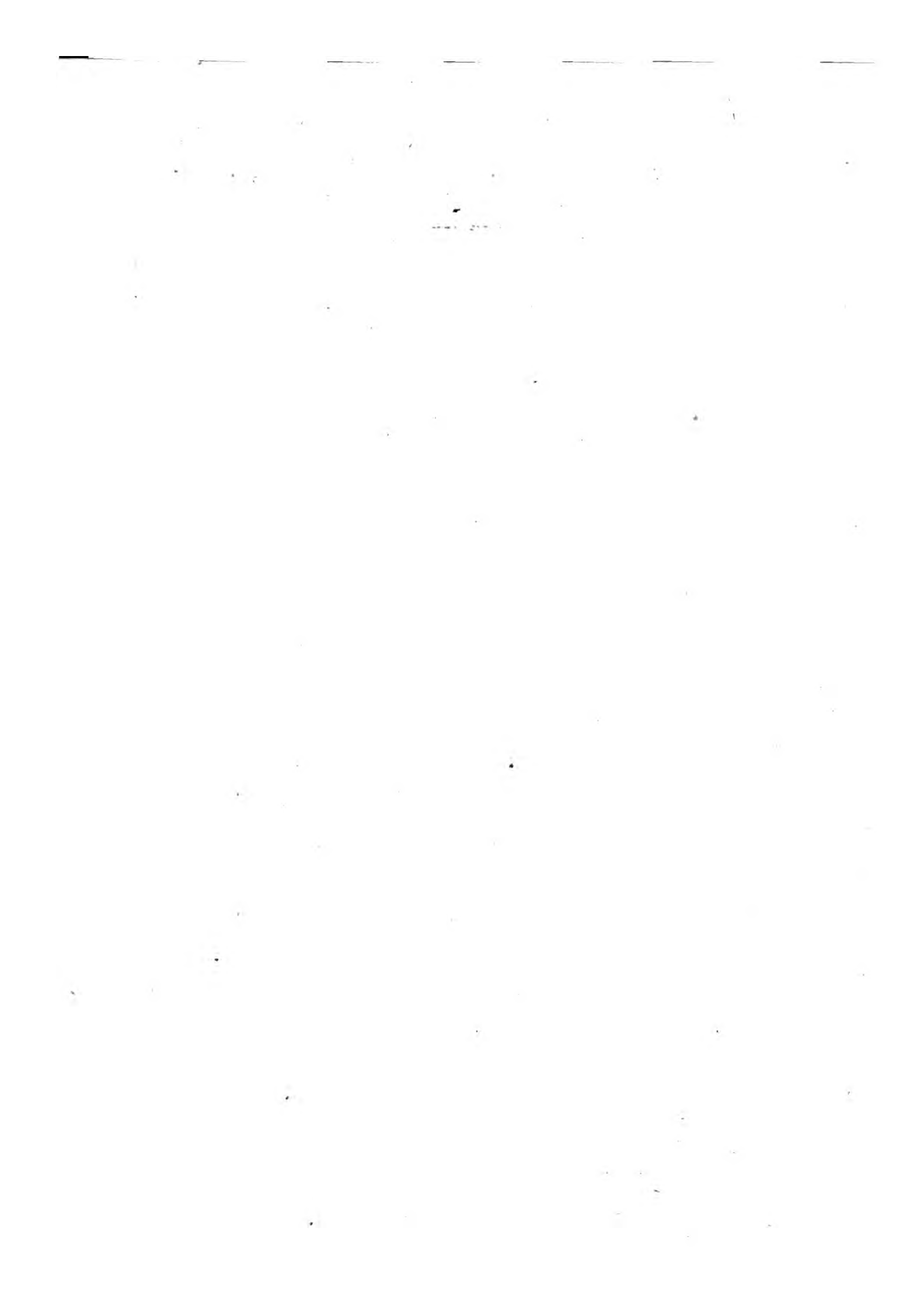


PLATE CCCCXXI.
RENEALMIA CALCARATA.
Upright-flowering Renealmia.

CLASS I. ORDER I.
MONANDRIA MONOGYNIA. One Chive. One Pointal.

ESSENTIAL GENERIC CHARACTER.

CALYX superus, monophyllus, in 2 sive 3 dentes irregulares rumpens. Corolla trifida. Nectarium oblongum. Anthera sessilis, nectario opposita. Bacca carnosa, trilocularis, profunde sulcata, et hirta. Semina plurima, alte truncata, arillo membranaceo niveo adpresso.

EMPALEMENT above the fruit, one-leafed, breaking into 2 or 3 irregular teeth. Blossom trifold. Nectary oblong. Chive sessile, opposite to the nectary. Berry fleshy, three-celled, profoundly sulcated, and hairy. Seeds many, deeply truncated, and furnished with a membranous, close-pressed, snow-coloured exterior skin.

SPECIFIC CHARACTER.

RENEALMIA foliis lanceolato-ensiformibus, racemo terminali erecto.

RENEALMIA with lance-sword-shaped leaves, and an erect terminal racemus of flowers.

REFERENCE TO THE PLATE.

1. The spathe.
2. A blossom divested of the chive and honey-cup.
3. The honey-cup.
4. The sheath which crowns the seed-bud.
5. The chive, pointal, and seed-bud.
6. The same without its chive.
7. A transverse section of the seed-bud magnified.

THE new and elegant plant here figured was obligingly communicated to us in September last by A. B. Lambert Esq. who informs us that it had grown vigorously to the height of about three feet in the bark-bed of his hot-house, without showing flowers; but that, on being removed from the tan and placed upon the flue, it soon produced those which we have here delineated; whence it is probable that the check to its growth, occasioned by the mere change of situation, was the cause of its blooming, as in other collections it has not hitherto done it. Mr. L. likewise informs us that its native country is Coromandel, and that it is intended for publication by Dr. Roxburgh under the name of *Amomum calcaratum*; and showed us a drawing of it, so named, copied from one that was made in the East Indies from a native specimen, and which represents the plant somewhat slenderer and less upright than the individual we have here depicted.

Whoever will carefully investigate and compare our dissected figures of this plant with those which are given with *Renealmia nutans* on our 360th plate, will not only find that they precisely agree with each other (as much as two distinct species of plants can do), but that both of them very sufficiently correspond with the essential characters of the genus *Renealmia*: yet both are, no doubt, specifically distinct from *Renealmia exaltata*; wherefore we have not hesitated to withdraw the present plant from the genus *Amomum*, from which, independent of its widely different mode of flowering, we believe it to be generically distinct. Neither are the above-mentioned all the species of *Renealmia* we have a knowledge of; for even in the British gardens (exclusive of those which have not yet been introduced to us alive) we are already acquainted with at least three more. But how far some of these plants are distinct from the four diandrous *Globbæ* enumerated by Willdenow, and from Schrader's *Zerumbet speciosum*, which is a true *Renealmia*, we are not at present prepared to determine; yet cannot help remarking that the last-mentioned plant should seem to resemble the *Globba Japonica* of Thunberg;—that our present subject may resemble *G. Marantina*;—that *G. nutans* greatly resembles *Renealmia nutans*; and that at least one of the figures cited by Willdenow for the former in Rumphius, is absolutely the same as *R. nutans*:—and, lastly, that *R. exaltata* of Linn. Supp. Pl. possesses, in a very striking and remarkable manner, the extraordinary habit of the remaining *Globba uviformis*.

As to culture, these are all stove plants, and in this country require the assistance of the tan-bed to make them flourish. Rich earth and great plenty of pot-room are likewise requisite, and also a large portion of water when they are vegetating briskly, but less when they are almost at a stand,—which is sometimes the case,—although they are never perfectly quiescent, as is common in the neighbouring genus *Amomum*. They are propagated easily by parting their perennial roots.



Amia calcarata.

Pub. in the Bot. Beechey's Voy. to the North Pacific, 1846, by H. Andrews & F. H. Townsend.



PLATE CCCCXXII.
CROTOLARIA JUNCEA.
Rushy-stalked Crotolaria.

CLASS XVII. ORDER IV.

DIADELPHIA DECANDRIA. Two Brotherhoods. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|---|
| LEGUMEN turgidum, inflatum, pedicellatum. Filamenta connata, cum fissura dorsali. | | POD turgid, inflated, pedicelled. Chives con- joined, with a dorsal fissure. |
|--|--|---|

SPECIFIC CHARACTER, &c.

| | | |
|--|--|---|
| CROTOLARIA, foliis simplicibus lanceolatis subsessilibus, leguminibus glabris, ra- cemo terminali, caule sulcato. <i>Willd. Sp.</i> <i>Pl. 3. 974.—Curt. Bot. Mag. 490.</i> | | CROTOLARIA, with simple lanceolate some- what sessile leaves, smooth pods, a ter- minal bunch of flowers, and a furrowed stem. |
|--|--|---|

REFERENCE TO THE PLATE.

1. The empalement.
2. The standard.
3. One of the wings.
4. The keel.
5. The chives.
6. The same spread open.
7. The seed-bud and pointal.

THE species of *Crotolaria* here represented is a native of Malabar and the coast of Coromandel. It was obligingly sent us in bloom last August by the Hon. Mr. Irby, of Farnham Royal, Bucks, and was raised by him from East Indian seeds. Its root is annual; and the plant, in consequence of it, admits of increase by seeds only, which should be sown early on a hot-bed, with the most tender annuals, and the young plants when large enough should be transplanted into separate pots of rich earth; and after they have sufficiently recovered the effects of removal, they should be taken into the hot-house, the assistance of which is requisite to bring them to maturity. They rise with slender and rather rushy stems, which are but slightly branched, to the height of two or three feet, and make a fine appearance when in flower; but they are, like many other tender leguminous plants, very subject to the annoyance of insects, and more especially to that almost indestructible pest of stoves, the red spider; the best mode of destroying which is that of steaming the plants; that is, keeping them well watered, and in a hot and humid air.

Some of our friends conceive this plant to differ from that which is figured in the *Botanical Magazine*, No. 490. It is true, I found the seed-bud quite silky; and if the full grown pod (which I never saw *) should likewise be so, it would certainly be worthy distinguishing from that plant, which is said to have smooth, and therefore, in all probability, naked pods.

* Neither have I yet seen the pod of the *Crotolaria* figured in the last number, which, if it should prove cylindrical and not turgid, would refer that plant to the genus *Lebeckia*, with which in habit it very well accords.



Clusia Juncea

Clusia Juncea (L.) Benth. 1845
by J. A. Smith 1845



PLATE CCCCXXIII.
GERANIUM LUTEUM.
Dwarf Yellow-flowered Geranium.

CLASS XVI. ORDER IV.

MONADELPHIA DECANDRIA. Threads united. Ten Chives.

ESSENTIAL GENERIC CHARACTER.

MONOGYNA. Stigmata quinque. Fructus pentacoccus. || ONE POINTAL. Five summits. Fruit beaked, five berries.

SPECIFIC CHARACTER.

GERANIUM, tuberosum, pinnis foliorum oppositis subovatis acutis inciso-bifidis seu trifidis integrisve, scapis simplicibus, petalis clavato-linearibus. || GERANIUM, tuberosum, with the pinnæ of the leaves somewhat ovate acute gash-bifid or trifid or entire, simple flower-stalks, and clavatedly-linear petals.

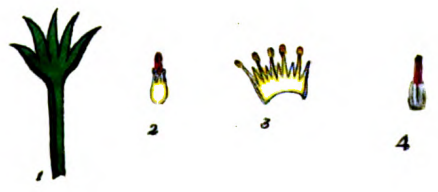
REFERENCE TO THE PLATE.

1. The empalement cut open.
2. The chives and pointal.
3. The chives spread open.
4. The seed-bud and pointal.

WE have here the pleasure of adding another tuberous-rooted Geranium, not enumerated by Willdenow, to the great variety of that description already given in this work. As a species it appears sufficiently distinct from any of them, although pretty closely allied to that which is delineated in our last number; and also to *G. fissifolium* of our 378th plate. Its flowers are yellow marked with red, as is frequently the case amongst the tuberous species of this extensive tribe of plants, but of very rare occurrence in the other departments of it.

From the Clapham collection, incomparably rich in this description of plants, our figure was derived, so long since as the summer of the year 1803.

Like its congeners, it is a native of the Cape; requires the treatment of a green-house plant; and is increased, but very slowly, by carefully dividing the tubers of its roots, when quiescent; taking especial care that no moisture comes in contact with the wounded parts, until nature has healed them by drying, and formed what the gardeners call a callus; that is, a dry and hardened external skin.



Ranunculus luteus

P L A T E C C C C X X I V .
P O L Y G A L A M I C R A N T H A .
Small-flowered Milkwort.

C L A S S X V I I . O R D E R I I I .

DIADELPHIA OCTANDRIA. Two Brotherhoods. Eight Chives.

E S S E N T I A L G E N E R I C C H A R A C T E R .

CALYX 5-phyllus, foliolis duobus alæformibus, coloratis. Legumen obcordatum, biloculare.

EMPALEMENT 5-leaved, with two of the leaves like wings, coloured. Pod inversely heart-shaped, two-celled.

S P E C I F I C C H A R A C T E R , & C .

POLYGALA, virgata, floribus imberbibus axillari-sessilibus solitariis subdistantibus folio brevioribus, foliis alternis subremotis internodio longioribus subulatisque.

MILKWORT, twiggly, with beardless axillary-sessile solitary rather distant flowers which are shorter than the leaf, and alternate remotish awl-shaped leaves, longer than the space they are distant from each other.

POLYGALA (micrantha) floribus imberbibus axillari-sessilibus, foliis linearibus mucronatis. *Thunb-Prod.* 121.—*Willd. Sp. Pl.* 3. 892.

R E F E R E N C E T O T H E P L A T E .

1. The empalement.
2. The same magnified.
3. The keel magnified.
4. One of the wings.
5. The same magnified.
6. The chives.
7. The same magnified.
8. The pointal.
9. The same magnified.

THERE is an elegance and a grace in the habit and appearance of this Polygala, which in a great measure compensates for its trifling flowers. It forms a small, and but little branched, twiggly shrub; is a native of the Cape of Good Hope; and belongs to the Heisteria division of the genus. We do not know that it has ever been figured before; but, notwithstanding the short character given by Thunberg, have little doubt of its being the plant he intended for *P. micrantha*. The honour of introducing it, and also some other shrubby Polygalæ, into this country, is due to G. Hibbert, Esq., from whose choice collection at Clapham our figure was taken.

Polygala micrantha continues flowering the greatest part of the year, winter as well as summer, is a very hardy green-house plant, and is propagated by cuttings in the usual way.

If we were to consider the flowers as resupinate, and perhaps they really are so, what we have called the keel would become the standard, and the small appendage which is a part of it below would answer as its keel. The expanded flowers of this species, and also those of *P. stipulacea* of our 363d plate, viewed in front, very remarkably resemble in outline, and almost in size, the insects which I have named *Tineæ Bombyciformes*; but the wings of the flower, which answer to the pectinated horns of the insects, appear rather too large. *P. alopecuroides* of our 371st plate possesses this extraordinary resemblance still more completely; inasmuch as the ciliæ of its keel correspond exactly to the fringes of the insects' wings! A more perfect similitude between objects in reality so remote and so different, I have very rarely, or never, beheld.



Lygala micrantha.





PLATE CCCCXXV.
MANGIFERA INDICA.
Indian Mango Tree.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

FLORES pentapetali, inferi. Drupa reniformis.
Corolla petalis lanceolatis. Nux lanuginosa.

|| FLOWERS 5-petalled, beneath the fruit. Drupe kidney-shaped. Blossom with lanceolate petals. Nut woolly.

SPECIFIC CHARACTER, &c.

MANGIFERA, foliis oblongo-lanceolatis, floribus submonandris, drupa maxima reniformi. *Willd. Sp. Pl.* 1. 1150.

|| MANGO, with oblong-lanceolate leaves, somewhat monandrous flowers, and a large kidney-shaped drupe.

REFERENCE TO THE PLATE.

1. A front view of a detached flower magnified.
 2. A back view of the same.
-

THE Mango tree very seldom produces its flowers, and, we believe, never perfects its fruit, or, as Miller calls it, its plum, in Europe. In India this tree acquires considerable size, with a rough bark, and luxuriant foliage, and its fruit is held in great esteem. For the sake of its fine leaves alone it is worthy cultivation in our hot-houses, where, according to Miller, it prospers better out of, than in the tan; yet I believe most of the horticulturists of the present day prefer the bark-bed for their Mangoes, planting them in rich earth and large pots. They are propagated by layers or cuttings, seldom by seeds, because these will not keep long after they are mature, and therefore perish before they reach this country and can be sown in it. The flowers are extremely trifling, but they are curious in their conformation, and remarkable in constantly having four out of their five chives abortive, imperfect, and destitute of anthers; wherefore the plant is monandrous. Our figure was taken at Whitley and Brames's in the month of December last.



scigifera indica



PLATE CCCXXVI.
LIMODORUM TANKERVILLIÆ.
Chinese Limodorum.

CLASS XX. ORDER I.

GYNANDRIA DIANDRIA. Chives on the Pointal. Two Chives.

ESSENTIAL GENERIC CHARACTER.

NECTARIUM monophyllum, concavum, pedicellatum, intra petalum infimum.

NECTARY one-leafed, concave, on a pedicel, upon the lower petal.

SPECIFIC CHARACTER, &c.

LIMODORUM, floribus racemosis imberbibus.
Ait. Hort. Kew. 3. 302.—Gmel. Syst. Nat. tom. 2. p. 60.

LIMODORUM, with beardless racemose flowers.

REFERENCE TO THE PLATE.

1. A miniature figure of the plant.
2. The spathe.
3. The honey-cup.
4. The parts of fructification as they stand in the plant. The upper part of the same with its lid elevated, and one chive detached and magnified.

No coloured representation of this magnificent plant within our knowledge has yet been published, either in this country or on the continent; but a large folio black print of it was given in Aiton's *Hortus Kewensis*, along with the above specific character, and with the circumstance of its having been introduced into the British gardens by the late Dr. Fothergill, in the year 1778, from China; of which country it is a native. In England it requires the artificial heat of the tan-bed to make it flower, which it does annually, with good management, from the month of November to that of April. It requires rich earth, and in dry weather frequent waterings; when in bloom makes a very stately appearance, and is propagated pretty readily by parting the tubers of the roots. Our drawing was made from fine plants in the Hibbertian collection at Clapham last month.



dorum Jankovilla

Handwritten text, possibly a signature or date, located in the bottom right corner of the illustration.

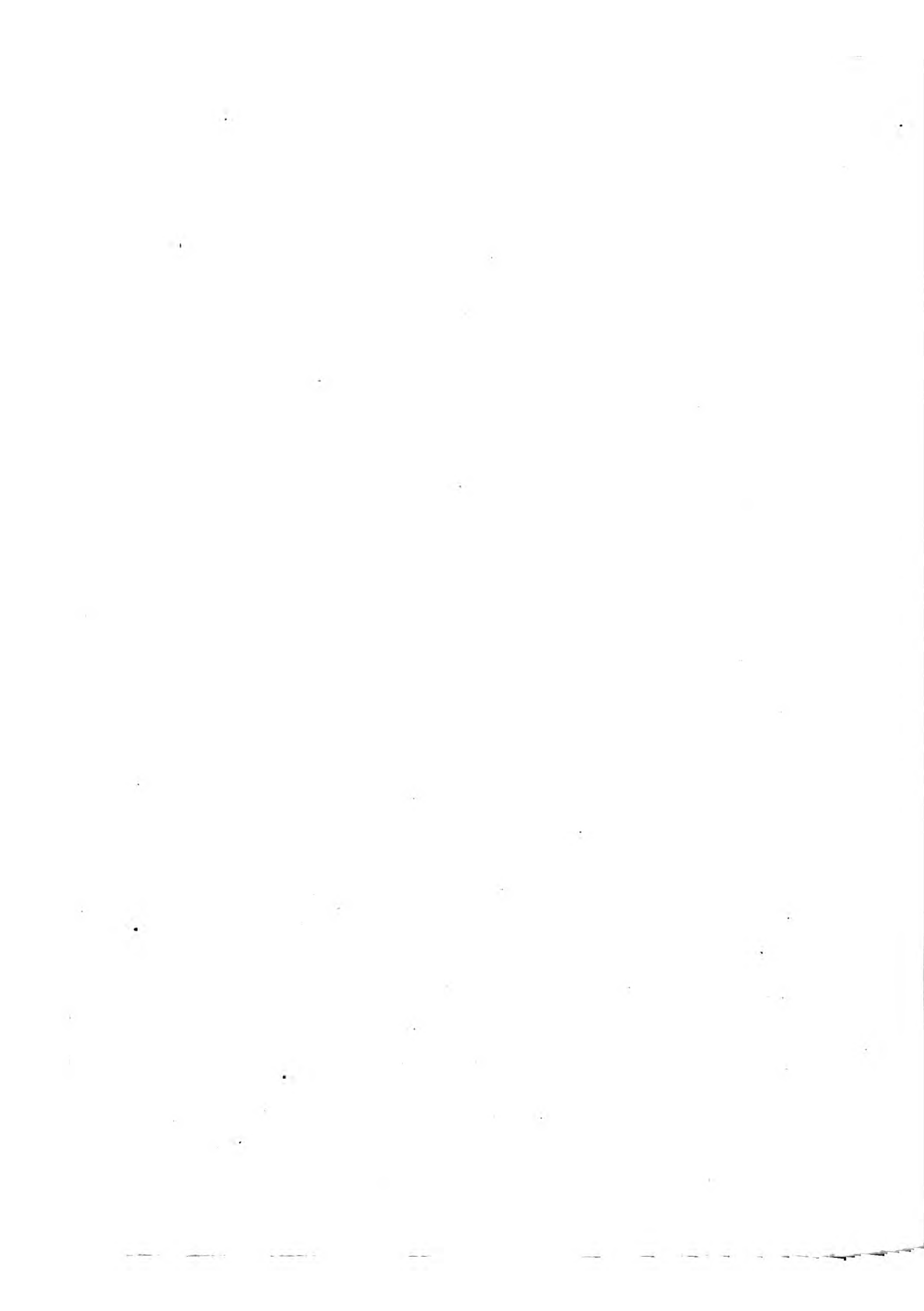




PLATE CCCCXXVII.
GOMPHOLOBIUM MACULATUM.
Maculated Air-pod.

CLASS X. ORDER I.

DECANDRIA MONOGYNIA. Ten Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

| | | |
|--|--|---|
| CALYX campanulatus, simplex, albe 5-fidus. Corolla papilionacea. Stigma simplex, acutum. Legumen inflatum, sphericum, uniloculare, polyspermum. | | EMPALEMENT bell-shaped, simple, deeply five-cleft. Blossom butterfly-shaped. Summit simple, acute. Pod inflated, spherical, one-celled, many-seeded. |
|--|--|---|

SPECIFIC CHARACTER.

| | | |
|--|--|--|
| GOMPHOLOBIUM, foliis ternatis linearibus nu- dis, senioribus declinatis, pedunculis basin versus bibracteatis, ramulis tereti- bus nudis. | | GOMPHOLOBIUM, with leaves in threes and na- ked, the older ones bent downwards, pe- duncles with 2 floral leaves near the base, and naked round branches. |
|--|--|--|

REFERENCE TO THE PLATE.

1. A leaf.
2. The empalement, peduncle, and floral leaves.
3. A front view of the standard.
4. A back view of the same.
5. One of the wings.
6. The keel.
7. The chives and pointal.
8. The seed-bud and pointal.

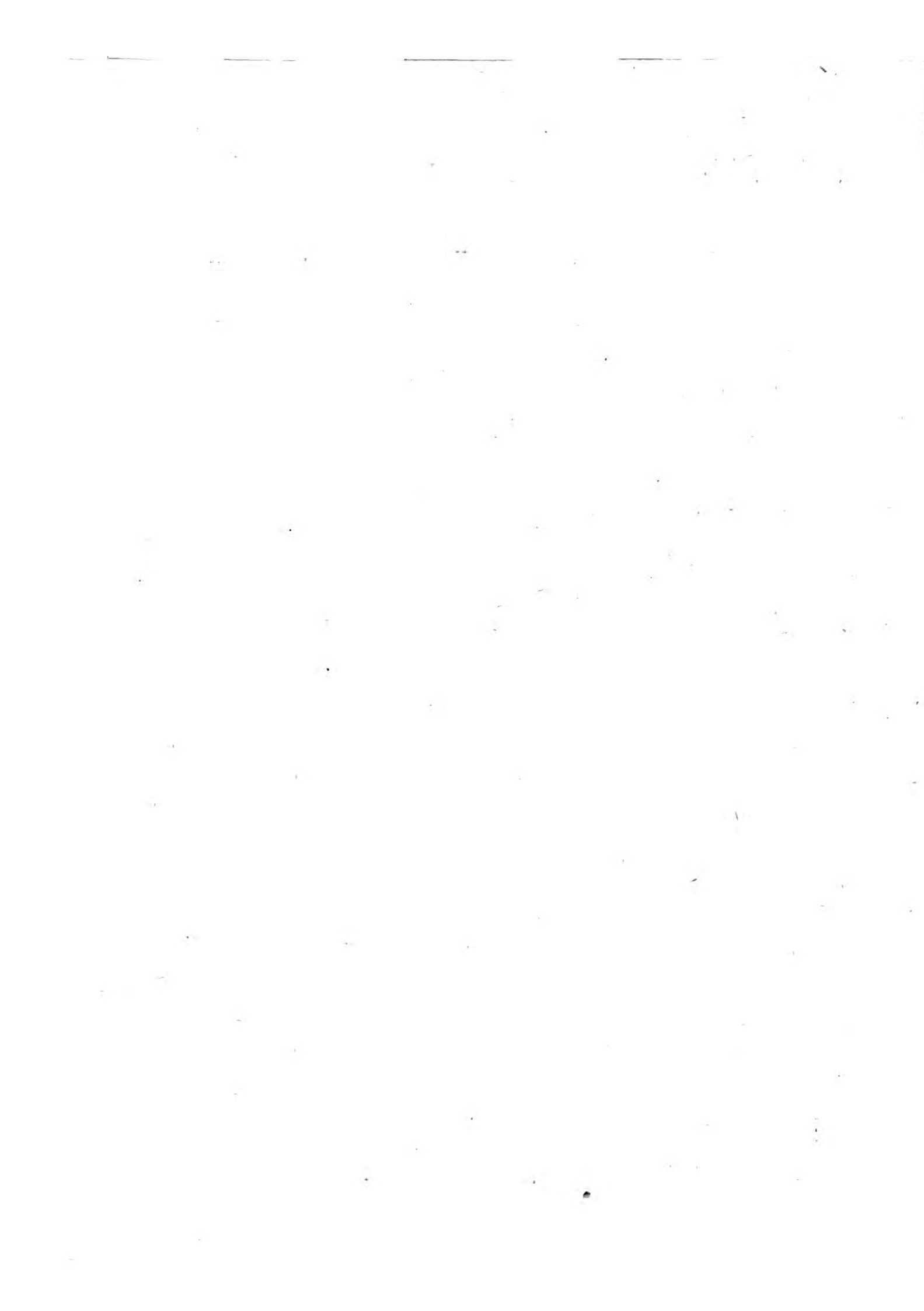
THE plant here represented is quite a new species, and is said to be a native of New Holland: it is a stiff little shrub, and prospers in the green-house; and its yellow flowers, deeply blotched with brown on the standard, make a good appearance.

In its habit, and in the generic characters, it comes nearer to Gompholobium of Dr. Smith in Exotic Botany, tab. 5, than to any other genus within our knowledge; yet the dissections here given, will be found to swerve from the characters there advanced, in several perhaps not unimportant particulars. The stamina appear more united. The stigma appears slightly capitated, instead of acute; and the infant pod somewhat too long. The bractæ also differ in number as well as structure.

Our drawing was made from living plants in the Hibbertian collection in the year 1803, but the above description from the drawing only.



Lupinus maculatum.



P L A T E C C C C X X V I I I .
E L Y C H R I S U M S T Æ H E L I N A .
Stæhelina-like Eternal-flower.

C L A S S X I X . O R D E R I I .

SYNGENESIA POLYGAMIA SUPERFLUA. Tips united. Superfluous Polygamy.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|--|--|--|
| RECEPTACULUM nudum. Pappus pilosus, vel plumosus. Calyx imbricatus, radiatus, radio colorato. | | RECEPTACLE naked. Down hairy, or feathery. Empalement imbricated, rayed, with the ray coloured. |
|--|--|--|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|--|--|---|
| E L Y C H R I S U M , fruticosum, erectum, foliis oblongo-lanceolatis basi attenuatis sericeis, pedunculis nudis unifloris terminalibus. <i>Willd. Sp. Pl. 3. 1910.</i> | | E L Y C H R I S U M , shrubby, erect, with leaves oblong-lanced attenuated at the base and silky, and terminal naked one-flowered peduncles. |
|--|--|---|

XERANTHEMUM (Stæhelina) pedunculis terminalibus exertis nudis unifloris, foliis lanceolatis tomentosis. *Syst. Veg. 624.*

XERANTHEMUM foliis lanceolato-oblongis carinatis lanatis, caule erecto. *Thunb. Prod. 153.*

Obs. Caulis lignosus, tener, paniculato-ramosus, ut tota herba albo-tomentosus. Pedunculi longi terminales. *Willd. l. c.*

R E F E R E N C E T O T H E P L A T E .

1. A flower cut open.
2. An hermaphrodite floret with its down.
3. The same without the down.
4. The same spread open.
5. The seed-bud and pointal, with the summit detached and magnified.

IN the last volume of Willdenow's Species Plantarum, containing the great class Syngenesia, are found many valuable botanical alterations and amendments, respecting the division and distribution of the genera and species; and amongst others, we find the Linnæan genus Xeranthemum, and even its species the annum, with its supposed variety the inapertum, divided and arranged exactly after the manner proposed in our account of X. bracteatum (Plate 375), now Elychrisum bracteatum: those few species only being now called Xeranthema which have a squamous receptacle: viz. the annum, and inapertum, of European origin; and the orientale, a native of Armenia.

The plant here depicted was drawn from a living specimen in the Clapham collection, last December, where at first it only threw up one flower-stalk; but it has since become stronger, and shows a peduncle from the end of almost every branch.

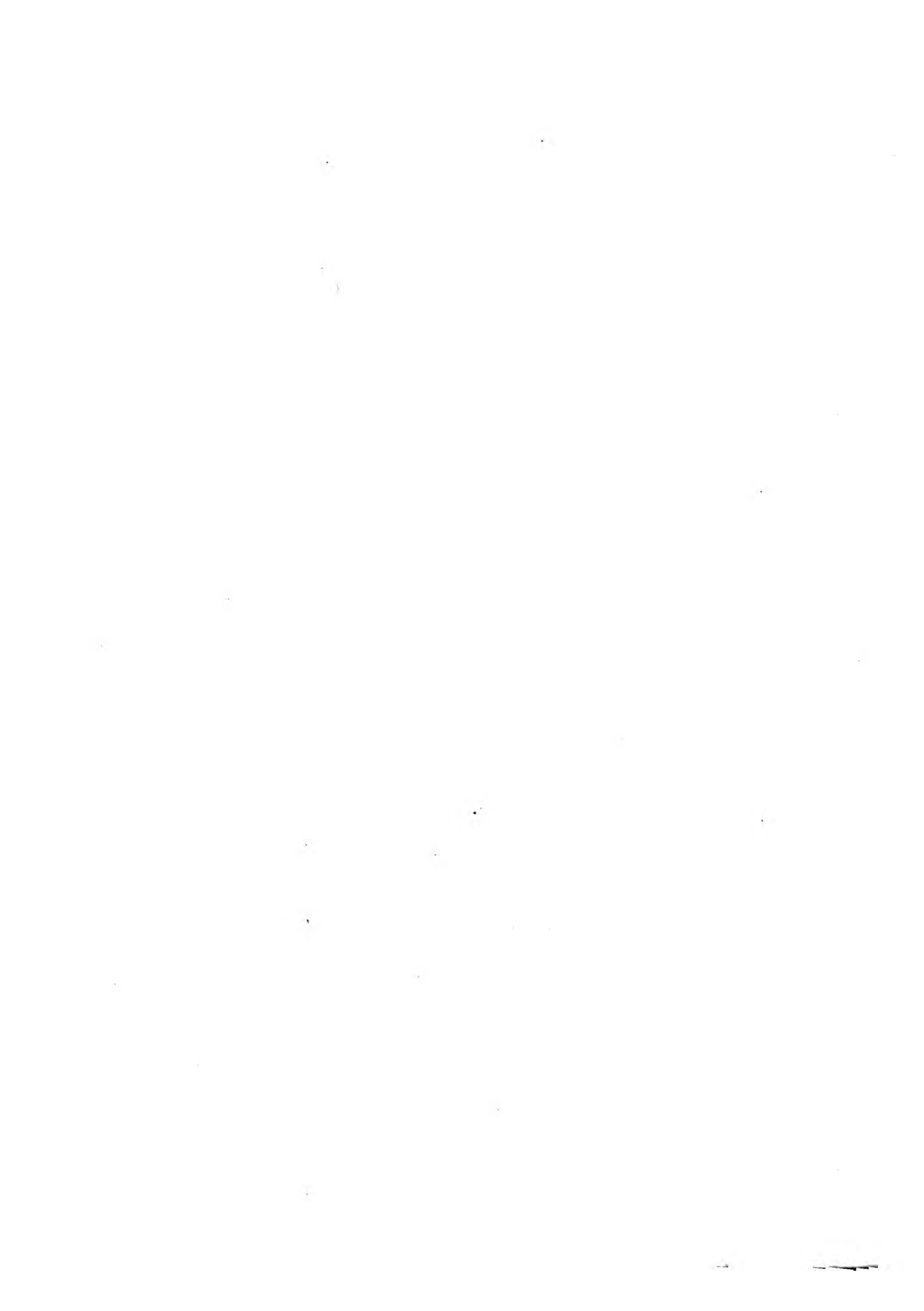
Although this species comes nearer Elychrisum in its generic characters than to any other genus, Gnaphalium not excepted, yet still we cannot help remarking, how much it recedes from the external appearance of most of its congeners, in being quite destitute of radiating scales.

It is a green-house plant, a native of the Cape, and is propagated by cuttings; but is not at present in any collection we are acquainted with, except Mr. Hibbert's.



Plychnisum Stachelina

Pl. 428. 1847. 1848. 1849. 1850. 1851. 1852. 1853. 1854. 1855. 1856. 1857. 1858. 1859. 1860. 1861. 1862. 1863. 1864. 1865. 1866. 1867. 1868. 1869. 1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900.



P L A T E C C C C X X I X .
P R O T E A I N C U R V A .
Incurved-leaved Protea.

C L A S S I V . O R D E R I .

TETRANDRIA MONOGYNIA. Four Chives. One Pointal.

E S S E N T I A L G E N E R I C C H A R A C T E R .

| | | |
|---|--|--|
| <p>COROLLA quadrifida, sive quadripetala. Antheræ lineares, insertæ petalis infra apicem. Calyx proprius, nullus. Nux unisperma, supera.</p> | | <p>BLOSSOM four-cleft, or four-petaled. Tips linear, inserted on the petals below the apex. Empalement proper, none. Nut one-seeded, above.</p> |
|---|--|--|

S P E C I F I C C H A R A C T E R , & C .

| | | |
|--|--|---|
| <p>PROTEA, foliis filiformibus incurvis glabris, capitulis racemoso-spicatis tomentosis. <i>Thunb. Prod. 26.—Diss. no. 22. tab. 3. fig. 2.—Willd. Sp. Pl. 1. 516.</i></p> | | <p>PROTEA, with thread-shaped incurved smooth leaves, and heads of flowers racemose-spiked and woolly.</p> |
|--|--|---|

R E F E R E N C E T O T H E P L A T E .

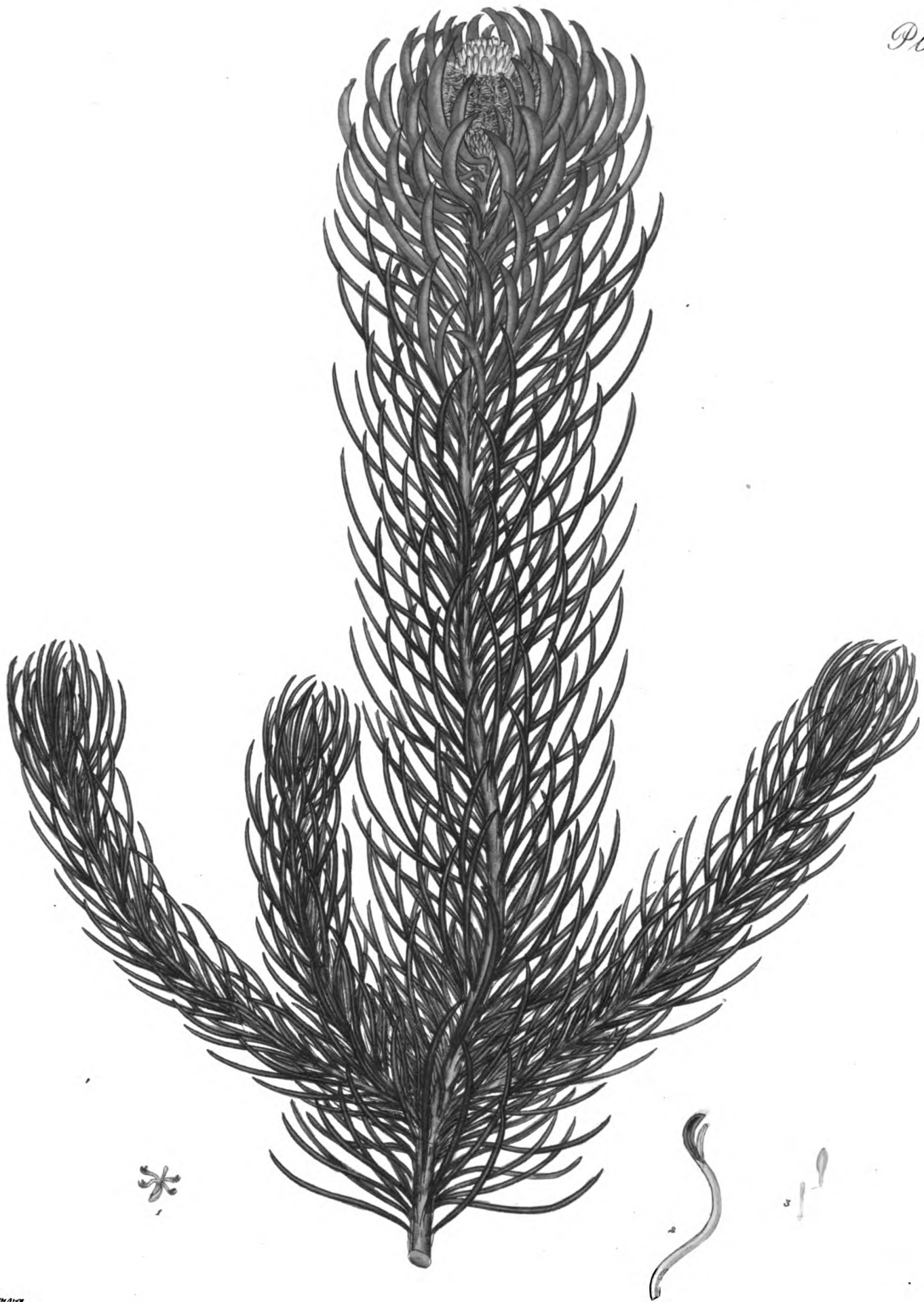
1. A flower.
2. A petal magnified.
3. The seed-bud and pointal, with the summit detached and magnified.

THE *Protea incurva* is a native of the Cape of Good Hope, which is also the native country of by far the greater part of this extensive genus.

In this country it is considered and treated as a hardy green-house plant; and requires, like most of its congeners, a fresh loamy soil, and an airy situation in the winter. A very abundant supply of fresh air, indeed, is of essential consequence in the cultivation of most of the Cape plants; they benefit by it in the day time in most sorts of weather, even if rainy, provided the plants are not wetted by the rain, and the temperature of the atmosphere is not lower than forty degrees of Fahrenheit's thermometer.

In many collections, we are of opinion, too little air is usually admitted in the green-house; especially in winter, and early spring: and we are also of opinion, that where we have seen the most given, the plants are the most healthy and robust. The fine collection at Mr. Hibbert's is a powerful argument in favour of this theory.—In few places is air so freely given; in none are plants in finer health: therefore much air is essentially necessary; for plants, like animals, are now known to absorb from the atmosphere, through a process analogous to respiration, its oxygenous particles; thence deriving strength and vigour, and without which no animal or vegetable can at all maintain either health or life.

Our figure was made from the Clapham Collection last June. The plant is shrubby, erect, and is propagated by cuttings in the usual way.



Protea incurva.

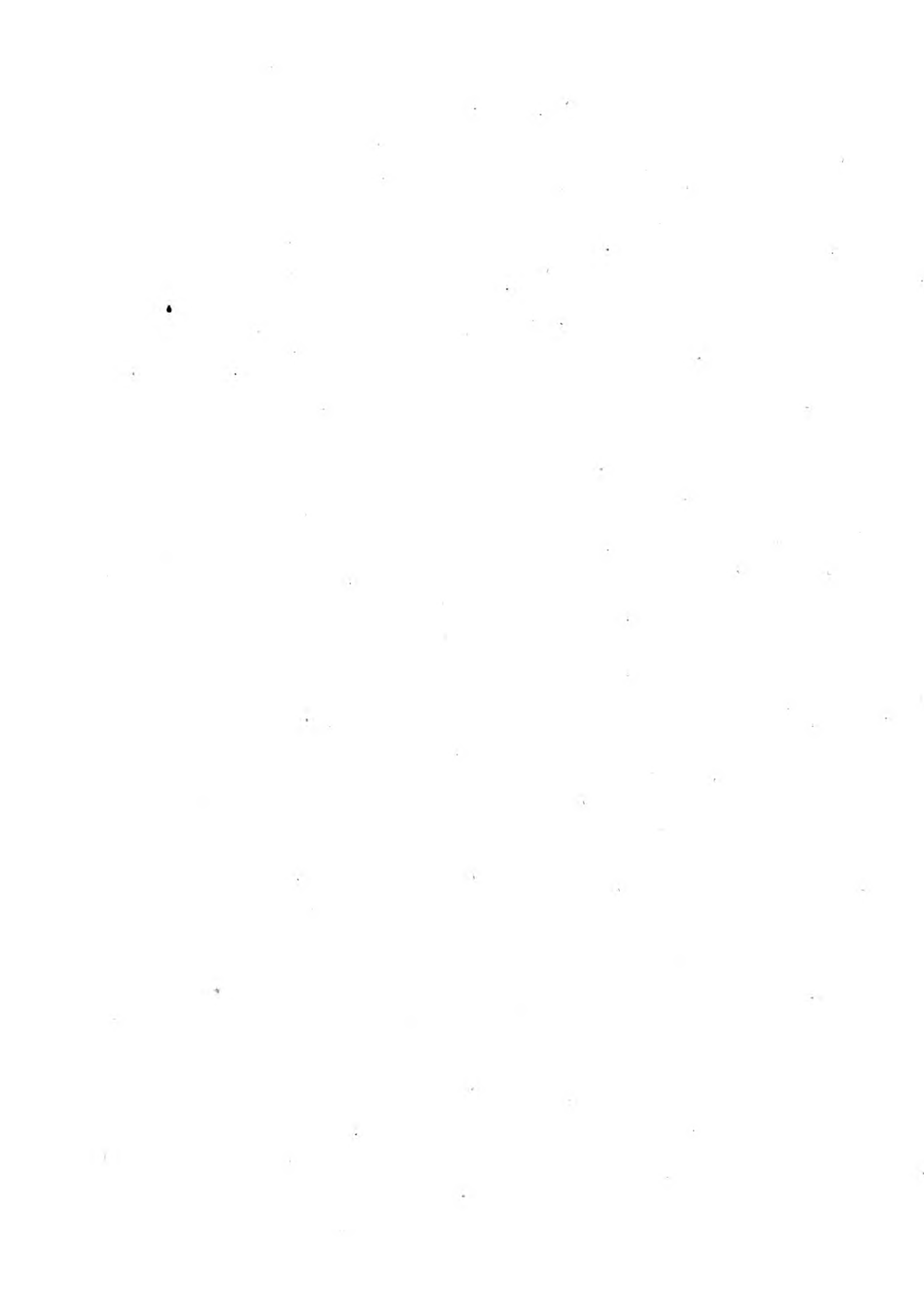


PLATE CCCCXXX.
RICINUS ARMATUS.
Prickly-capsuled Ricinus.

CLASS XXI. ORDER VIII.

MONOECIA MONADELPHIA. One House. One Brotherhood.

ESSENTIAL GENERIC CHARACTER.

MAS. Calyx 5-partitus. Corolla 0. Stamina numerosa.

FEMINA. Calyx 3-partitus. Corolla 0. Pistilli 3, bifidi. Capsula 3-locularis. Semen 1.

MALB. Empalement 5-parted. Blossom none
Chives numerous.

FEMALE. Empalement 3-parted. Blossom none. Pointals 3, 2-cleft. Capsule 3-celled. Seed one.

SPECIFIC CHARACTER.

RICINUS, foliis peltatis alte palmato-novemfidis serratis, petiolis glandulosis, capsulis undique spinis herbaceis.

RICINUS, with leaves peltated deeply palmate-9-cleft and serrated, with glandulose petioles, and capsules every where furnished with herbaceous spines.

REFERENCE TO THE PLATE.

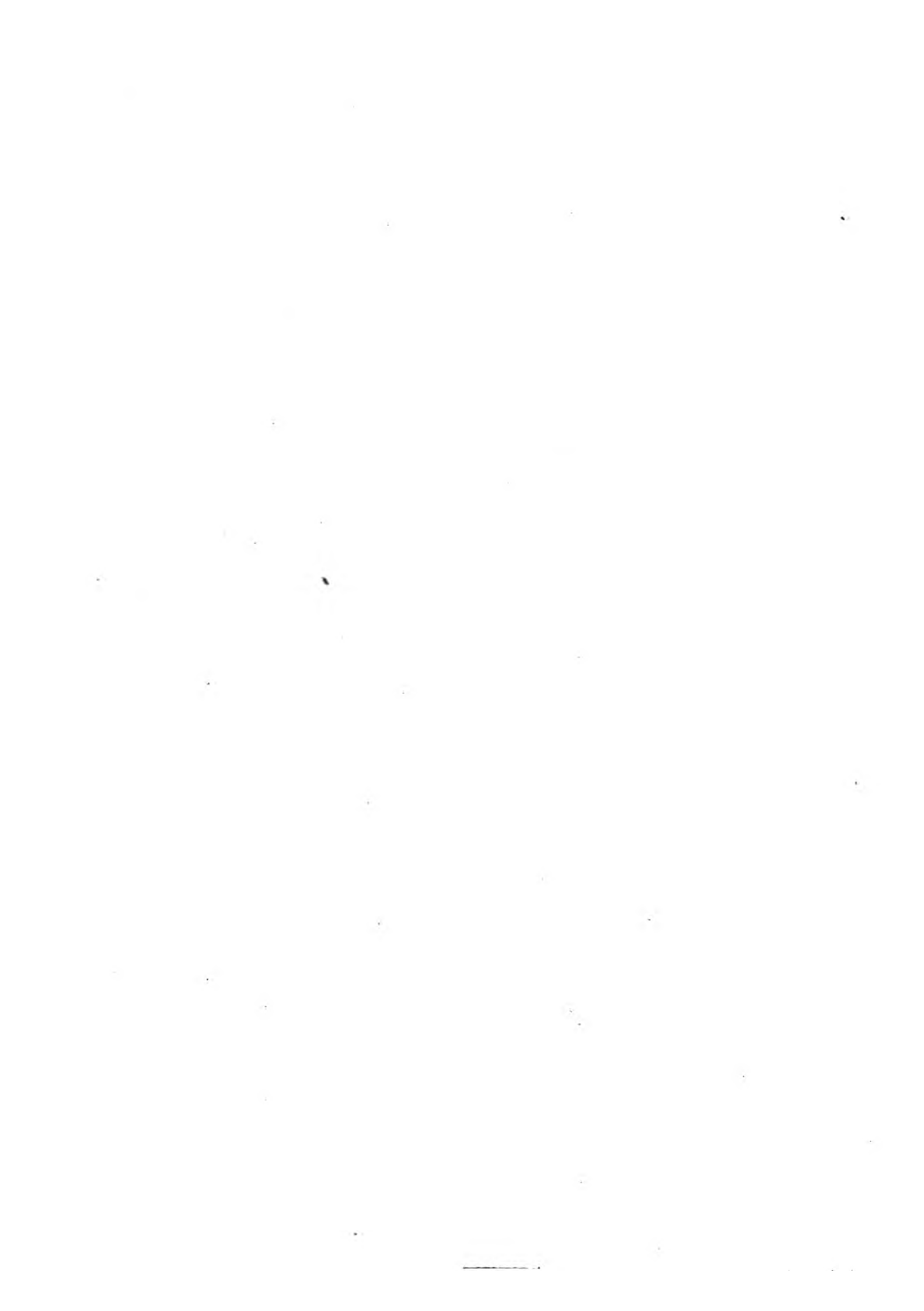
1. A male flower.
2. The male empalement.
3. The pointals.
4. A capsule.
5. A seed.

THE species of *Ricinus* here depicted, was raised in Lady Holland's garden at Kensington last summer, from seeds sent by her ladyship from Malta, where the plant has been cultivated for medicinal purposes about four years; and where it is considered as a new sort. And such indeed it appears to us: for as a species, although it comes extremely near to *R. communis*, *R. inermis*, and perhaps *R. medicus* of Forskall, it appears to be sufficiently distinct; differing from the former and latter, in its deeper cloven, and more numerous lobed, and glandular petioled leaves; and from *R. inermis*, in having its capsules thickly beset with considerable, but herbaceous spines; whence our specific name of *armatus*, in contradistinction also to *R. inermis*, which has smooth capsules. The plant from which our drawing was taken was eight feet high and very much branched; and its ample yet elegant foliage, and red stalks and veins, communicated that kind of appearance to it which is often attributed to Asiatic plants—stately, and magnificent. Its root is biennial; it requires the protection of the greenhouse, and can be increased very readily by seeds, which should be raised on a hot-bed in spring, and afterwards transplanted into very large pots. There were two glands at the top of the petioles.

The valuable drug called castor oil is extracted from the seeds of this and other species of *Ricinus*.



Ricinus armatus.



P L A T E C C C C X X X I .
 C Æ S U L I A A X I L L A R I S .
Axillary-flowered Cæsulia.

C L A S S X I X . O R D E R I .

SYNGENESIA POLYGAMIA ÆQUALIS. Tips united. Æqual Polygamy.

E S S E N T I A L G E N E R I C C H A R A C T E R .

RECEPTACULUM paleaceum, paleis semina involventibus. Pappus nullus. Calyx triphyllus.

RECEPTACLE chaffy, with the chaff enveloping the seeds. Down none. Empalement three-leaved.

S P E C I F I C C H A R A C T E R , & C .

CÆSULIA, foliis lanceolatis basi attenuatis serratis alternis. *Willd. Sp. Pl.* 3. 1796.

CÆSULIA, with alternate lanceolate serrated leaves attenuated at the base.

R E F E R E N C E T O T H E P L A T E .

1. A floret with its seed enveloped by the chaff.
 2. The same divested of its seed and chaff.
 3. The same spread open and magnified.
 4. The seed-bud, pointal, and chaff.
 5. and 6. The same in different states.
-

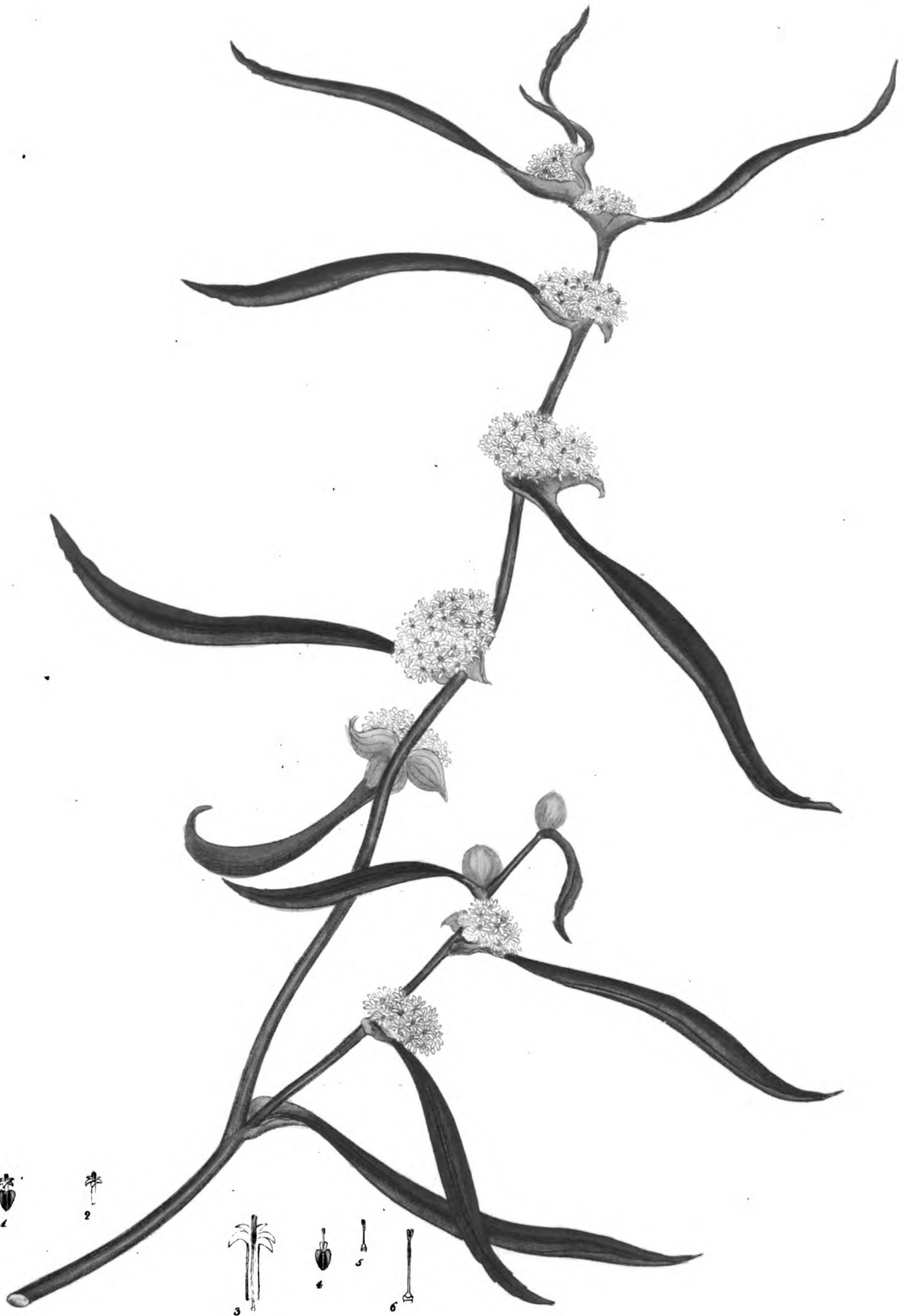
NOVELTY, oddity, and a very unusual appearance in every part, for a syngenesious plant, must in the present subject compensate for its trifling flowers.

Few of our cultivating friends, except those who are the most botanical, will be inclined to add this *Cæsulia* to their collections; although a very rare, and, in many respects, an interesting species.

It was first described and figured by Dr. Roxburgh, as a new genus, and by the name it here bears, in his sumptuous work on the plants of the coast of Coromandel, of which country it is a native; and it has since been taken up by Professor Willdenow, in his edition of *Species Plantarum*, and has had a new species (the *radicans*), from Guinea, added to it by that botanist.

The axillary-flowered *Cæsulia* is quite new in the gardens, and is said to have a perennial root, by the parting of which we suppose it may be increased; and must be considered as a hot-house plant in this country.

Our figure was taken from a living specimen, obligingly communicated to us last summer by the Marquis of Blandford, from White Knights, Berks; who, we believe, first raised it in this country, from East Indian seeds.



Verbena axillaris





PLATE CCCCXXXII.
STRELITZIA REGINÆ.
The Queen's Strelitzia.

CLASS V. ORDER I.

PENTANDRIA MONOGYNIA. Five Chives. One Pointal.

ESSENTIAL GENERIC CHARACTER.

SPATHA universalis, partialesque. Calyx 0.
Corolla 3-petala. Nectarium 3-phyllum,
genitalia involvens. Capsula 3-locularis;
loculis polyspermis.

SPATHE a common one, and partial spathes.
Empalement none. Blossom three-petalled.
Nectary three-leaved, involving the organs
of fructification. Capsule three-celled;
with many seeds.

SPECIFIC CHARACTER, &c.

STRELITZIA, foliis ellipticis basi undulatis
parallelo-costatis.

STRELITZIA, with leaves elliptic undulated at
the base, and ribbed in a parallel manner.

STRELITZIA Reginæ. *Willd. Sp. Pl.* 1. 1190.—*Curt. Bot. Mag. tab.* 119.—*Ait. Hort. Kew.* 1. 235.
tab. 2.

REFERENCE TO THE PLATE.

1. A miniature figure of the plant.
2. The two-petal-like nectary.
3. The upper short petal of the nectary.
4. The seed-bud, chives and pointal.

At the request of several of our subscribers, who compliment us in saying this work contains nearly all the more showy plants now in cultivation; and who moreover are desirous that it should not long want any of them: we here beg leave to present them with that queen of hot-house plants, the superb *Strelitzia*: although strictly against our rules and plan; a coloured quarto print of it having already been given in the *Botanical Magazine*.

Of this majestic genus, first established in the *Hortus Kewensis*, there are now living in the British gardens, not fewer than four species, and several varieties; all natives, we believe, of the Cape of Good Hope, and all hot-house plants: viz. 1st, *Strelitzia alba* (*Hortulanorum*), which, towering far above the rest, and quite erect, attains the kingly height of twenty feet or upwards: it ought to have been called *S. Regis*;—2nd, *S. Reginæ*, here delineated, of which there are three or four varieties, differing only in the undulation of the leaves, and in their length, which (including the petiole) is usually from three to five feet;—3d, A nondescript narrow-leaved species, with very long petioles; this should be called *S. Principis*;—and 4th, another nondescript, but smaller sort, whose leaves are mere petioles, and scarce ever expand in the slightest manner into laminæ: this should be called *S. juncea*: it is very rare, and we believe at present only in the royal collection at Kew. All the *Strelitzia* are propagated, though slowly, by carefully dividing their perennial roots, which are usually planted either in very large pots, or small beds annexed to the tan-bed in hot-houses. Our figure was made from a plant at Messrs. Colvill's, in the King's Road, last autumn, but the plant flowers freely at various seasons.



Strelitzia Reginae

