

of a Potato; when so ripe as to split, it has a mealy subacid taste.

*Mesembryanthemum equilaterale*; *Pig-faces*, called by the Aborigines by the more elegant name of *Canagong*. The pulp of the almost shapeless but somewhat obconical fleshy seed-vessel of this plant is sweetish and saline; it is about an inch and a half long, of a yellowish, reddish, or green colour.

*Polygonum adpressum* (Bot. Mag. t. 3145). The *Macquarie Harbour Vine*, either as an insignificant trailing plant, or as a magnificent climber, according to soil and situation, is found on the coast of various parts of Van Diemen's Land, and also as far inland as within four miles of New Norfolk. This plant has a small but sweet fruit, formed of the thickened divisions of the calyx of the flower, enclosing a triangular seed of unpleasant flavour.

*Gaultheria hispida*, the *Wax-Cluster*, abundant in the middle region of Mount Wellington, and in other elevated and moist situations of the Colony. This fruit is formed by the thickened divisions of the calyx, enclosing the small seed-vessel, which, when ripe, is of a snowy white. The flavour is difficult to describe, but not unpleasant; in tarts it somewhat resembles young gooseberries, with a slight degree of bitterness.

*Astroloma humifusa* (Bot. Mag. t. 1429). The *native Cranberry* has a fruit of a green, reddish, or whitish hue, about the size of a black currant, consisting of a viscid, apple-flavoured pulp, enclosing a large seed; this fruit grows singly on the trailing stems of a small shrub resembling Juniper, bearing beautiful scarlet blossoms in autumn.

*Leucopogon Gnidium* (probably *Leucopogon Richeii*, Bot. Mag. p. 325.—ED.) A large bush, with numerous harsh-leaves, growing along the sea-shore with some other smaller inland shrubs of the same tribe, produces very small white berries of a sweetish and rather herbaceous taste. These are called, promiscuously, *Red* or *White Currants* in the Colony. There are in the mountains some dry red-berried

shrubs allied to this, the fruit of which may serve to allay hunger, but is too disagreeable to be eaten under other circumstances.

*Oxalis microphylla*, *Yellow-flowered Sorrel*. This little plant, which displays its lively yellow blossoms on almost every grassy spot in the Colony, and has acid leaves resembling in form those of Clover, is very pleasant, eaten raw, to allay thirst, and when made into tarts is almost equal to the Barberry.

*Casuarina torulosa*. The *Sne Oak*. The young fruit and young shoots afford an agreeable acid by chewing, which allays thirst.

*Leptospermum laagerum*, *Hoary Tea-Tree*.—*Acacia dcurrrens*, *Black Wattle*.—*Correa alba*, *Cape Barren Tea*.—The foliage of all these has been used for tea in the Colony, as have also the leaves and bark of *Cryptocarya glaucescens*, the Australian Sassafras.

I do not think it necessary to enter upon any description of the *Barilla Shrubs*, (*Atriplex Halimus*, *Rhagodia Billardieri*, and *Salicornia Arbuscula*,) which, with some others, under the promiscuous name of *Botany Bay Greens*, were boiled and eaten along with some species of sea-weed by the earliest settlers, when in a state of starvation. The thick young shoots of some of the humbler species of *Salicornia*, would, no doubt, like that of the *S. annua* (*Glass-wort*, or *Marsh Sampire* of England) be serviceable for pickling.

## CONTRIBUTIONS TOWARDS A FLORA OF SOUTH AMERICA AND THE ISLANDS OF THE PACIFIC.

By Sir W. J. Hooker, LL.D. and G. A. W. Arnott, Esq., A.M. F.R.S.E.

### I. EXTRA-TROPICAL SOUTH AMERICA.

(Continued from Vol. I. p. 244, of this Work.)

In addition to the collections of *extratropical South American plants*, mentioned at p. 234 of our first volume, as having been lately received by us, we have now

the pleasure to announce another, which we owe to the kindness of the Rev. Professor Henslow. It was formed by C. Darwin, Esq., of H. M. S. Beagle, in various countries between Maldonado, in the North, and Terra del Fuego, in the South, including the Falkland Islands, and hence, as may be supposed, it has afforded several new plants, and new localities for some rarities which had been described before.

In order to render our Catalogue as complete as opportunities will allow, we have thought it best, before printing the continuation of the *Compositæ*, to introduce several plants recently received, which belong to such groups of this family as have already been treated of in the first volume of this Work.

**HYPOCHÆRIDÆÆ.** Less.—Hook. et Arn.  
*hujusce vol. p. 30.*

735. (4.) *Seriola āpargioides*, Less.—Var. *glabra*.—Add, an *Hypochæris arenaria*? *Gaudich. in Freyc. Voy. p. 46.*—Falkland Islands and Port Desire, C. Darwin, Esq. (n. 338.) Port Gregory, Patagonia. (*Herb. nostr.*)

737. (7.) Add, *Seriola incana* (Hook. et Arn.) *n. sp.*; tota tomento deciduo canescens, caule simplici monocephalo, foliis radicalibus anguste linearibus subulato-pungentibus subsessilibus exterioribus integerrimis intimis pinnatifidis segmentis remotis linearibus brevibus, involucri foliolis lanceolato-acuminatis obtusis.—St. Julian, C. Darwin, Esq. (n. 347.)—A small annual plant, three to four inches high, with the scapiform stem scarcely twice as long as the radical leaves, and bearing one or two leafy bracteas.

739. (1.) *Macrorhynchus Chilensis*, Less.—Add, Falkland Islands, C. Darwin, Esq. (n. 335.)

740. (1.) *Sonchus oleraceus*, L.—Add, Bahja Blanca, coast of Patagonia, C. Darwin, Esq. (n. 342.)

751. (1\*) *Picrosia longifolia*, Don.—Add, S. Chili, Mr. Reynolds. (n. 45.)

751\* (1.) Add *Hedyopsis rhagadiloides*, Willd.—Banda Orientale, Tweedie.—Probably introduced.

758. (5.) *Trixis discolor*, Gill.—Add, Woods of Tucuman, Tweedie. (n. 1157.)

759. (6.) *Trixis papillosa*, Gill.—Add, St. Jago and Tucuman, frequent, Tweedie. (n. 1129.)

761\* (2\*) Add *Perezia* (*Homœanthus*) *squarrosa*, Less. in *Linnaea*, v. 5. p. 13.—*Perdicium squarrosum*, Vahl, in *Skriut. Nat. Selsk. v. 1. p. 11. t. 6.*—*Homœanthus ambiguus*, Cass.—*Chætanthera ciliata*, Spr. (non R. et P\*)—Banks of the Uruguay, near Salta, Tweedie, who observes that the flowers have the odour of violets.—Lessing describes this plant as having the foliola of the involucre entire: but they are not so in our plant, nor in the original one of Vahl, according to the latter author.

763\* (4\*) Add, *Perezia* (*Stenophyllum*) *recurvata*, Less. in *Linnaea*, v. 5. p. 21. *Syn. Comp. p. 412.*—*Perdicium recurvatum*, Vahl, in *Skriut. Nat. Selsk. v. 1. p. 10. t. 7.*—*Homœanthus echinulatus*, Cass. *Dict. v. 38. p. 455.*—Port Desire, C. Darwin, Esq. (n. 311.) Port George, Patagonia. (*Herb. nostr.*)

763\*\* (4\*\*) Add, *Perezia* (*Stenophyllum*) *linearis*, Less. *Syn. Comp. p. 412.*—Add, Araucania, Mr. Reynolds. (n. 16.)

763\*\*\* (6\*) Add, *Perezia lanigera* (Hook. et Arn.), *n. sp.*; nana, subcaulis, cæspitosa, foliis subulatis rigidis pungentibus marginibus revolutis glabris integerrimis basi dilatato-amplexantibus axillis dense lanigeris, involucri foliolis oblongis mucronatis omnibus integerrimis.—Port Desire, C. Darwin, Esq. (n. 314.)—A very small, cæspitose plant; scarcely an inch high, with rigid, subulate leaves; longer than the stem. The nearest affinity of this is with the section "*Stenophyllum*," Less.; but the leaves and involucre are quite destitute of teeth or ciliae.

764. (5.) *Perezia* (*Euperezia*) *Magellanica*, Less.—Add, Cape Tres Montes, C. Darwin, Esq. (n. 369.)

767\* (9.) Add, *Perezia* (*Clarionia*) *lactucoides*, Less. in *Linnaea*, v. 5. p. 22. *Syn. Comp. p. 413.*—*Perdicium lactucoides*, Vahl, in *Skriut. Nat. Selsk. v. 1. p. 10. t. 5.*—Straits of Magellan, at Cape Negro, C. Darwin, Esq. (n. 315.)

769. (1.) *Leuchæria senecionides*, Hook. et Arn.—Add, Araucania, Mr. Reynolds. (n. 20.)

773. (5.) *Leuchæria runcinata*, Gill.—Add, Araucania, Mr. Reynolds. (n. 1.)

776\* (8\*) Add, *Leuchæria volcanica* (Hook. et Arn.), *n. sp.*; caule arachnoideo albo-tomentoso subsimplici eglanduloso, foliis lineari-lanceolatis pinnatifidis basi attenuatis superioribus integerrimis segmentis patenti-recurvatis mucronato-acuminatis, involucri campanulati foliolis oblongo-lanceolatis acumi-

1 Some interesting extracts from the letter addressed by this gentleman to Professor Henslow, chiefly relating to the Geology of the countries, have been printed by the latter for private distribution.

- natis eglandulosis, ligula oblonga.—Volcano of Antuco, S. Chili, at an elevation of six thousand feet above the level of the sea, *Mr. Reynolds*. (n. 103.)—Allied in general habit to *L. Gilliesii*, but the leaves are different, and it altogether wants the glandular hairs of that species.
- 776.\* (8\*) Add, *Leucheria* (Cassiopia) *achillaeifolia* (Hook. et Arn.); caule gracili dichotome ramoso puberulo, foliis remotis bipinnatifidis segmentis parvis ovatis obtusis, axillis rachibusque præcipue dense lanosis, involucri campanulati foliolis lineari-oblongis obtusiusculis puberulis, ligula oblonga.—Port Desire, *C. Darwin*, *Esq.* (n. 391.)—This plant is about six to eight inches high, and differs remarkably from the other species of this section and genus.
- 779.\* (12.) Add, *Leucheria* (Lasiorrhiza) *purpurea*, Less.—*Perdicium purpureum*, *Vahl*, in *Skrivt. Nat. Selsk.* v. 1. t. 3.—E. coast of Terra del Fuego, *C. Darwin*, *Esq.* (n. 376.)
- 779.\* (13.) Add, *Leucheria* (Lasiorrhiza) *gossypina* (Hook. et Arn.); dense lanata, caule simplici folioso unifloro, foliis radicalibus—?, caulinis plurimis lato-lanceolatis acuminatis supra subdenudatis, involucri campanulati foliolis oblongo-lanceolatis obtusis, ligula oblonga.—East Falkland islands, *C. Darwin*, *Esq.* (n. 355.)—A very remarkable plant, of which we do not possess the root-leaves. The stem and cauline leaves, and, especially, the involucre, which is nearly as long as the florets, are clothed with very thick and fine cottony wool, which seems partially to wear off from the upper side of the foliage.
- 784.\* (4.) Add, *Panargyrum* (Piptostemma) *Darwini* (Hook. et Arn.); cæspitosum basi ramosum, foliis lineari-subulatis pungentibus integerrimis appressericis, capitulis congestis.—Port Desire, *C. Darwin*, *Esq.* (n. 313.) Port Gregory, Patagonia, near the Straits of Magellan. (*Herb. nostr.*)—Very different from *P. spinosum*, which has the nearest affinity with it, in the unarmed leaves, and their white silky surface. The pappus is very plumose and silky and exceedingly caducous.
- 784.\* (5.) Add, *Panargyrum* (Piptostemma, Don), *abbreviatum* (Hook. et Arn.) n. sp.; cæspitosum basi ramosum, foliis patenti-recurvius lineari-acuminatis mucronatis integerrimis glabris basi ciliatis, axillis tomentosis, capitulis congestis.—Fort Gregory, Patagonia. (*Herb. nostr.*)—This is not dissimilar in habit to the other individuals of the section (*Piptostemma*); but its pappus, as in the preceding species (*P. Darwini*) is much more plumose than in the original *P. plumosum*; although much less so than in *Caloptilion*, in which last the pappus is also deciduous; so that were it not for the difference in habit, the *Piptostemma*-group might be united with *Caloptilion*.
- 788.\* (2.) Add, *Acanthophyllum rosulatum* (Hook. et Arn.); nanum cæspitosum, e basi ramosum, foliis sublanosis primariis lato-subulatis spinescentibus basi amplexantibus, secundariis brevissimis obtusis concavis rosulatis caulibus partes inferiores densissime tegentibus, capitulis subglomeratis lateralibus brevipedunculatis.—Port Desire, *C. Darwin*, *Esq.* (n. 324.)—This is a most remarkable looking little plant, with the secondary leaves forming beautiful rosulæ in the axils of their primary ones, which latter they soon obliterate, and clothe entirely the old parts of the stems.
- 789.\* (1.) *Triptilion spinosum*, R. et P.—Add, South Chili; *Mr. Reynolds*. (n. 105.)
- 790.\* Add, *Triptilion capillatum*, Hook. et Arn.—*Nassauvia capillata*, *Don* in *Phil. Mag. Apr. 1832*, p. 390; in *Guill. Arch.* v. 2. p. 465.—Baths of Collina, Chili, *Mr. Macrae*.—Pappus as in *Triptilion spinosum*; but the habit of the plant is more slender than that species, more diffuse, the leaves thinner, their laciniae or serratures furnished with a much longer and less rigid point.
- 790.\*\* (1.) *Mustigophorus Gaudichaudi*, Cass. *Dict. Sc. Nat.* v. 34, p. 222.—*Nassauvia Gaudichaudi*, Cass. in *Gaudich. Ann. Soc. Nat.* v. 5. p. 103. t. 3. f. 3.—Falkland Islands, *C. Darwin*, *Esq.* (n. 327, 328.)

MUTISIACEÆ. Cass.—Hook. et Arn. l. c. p. 102.

796. (2.) *Chevreulia stolonifera*, Cass.—Add, Banda Orientale, *Tweedie*.
801. (1.) *Leria nutans*, DC.—Add, Bahia Blanca, Coast of Patagonia, *C. Darwin*, *Esq.* (n. 349.)
- 806.\* *Trichocline maxima*, Less. in *Linnaea*, v. 5. p. 290.—Rio Grande do Sul, S. Brazil, *M. Isabelle*.
- 806.\*\* (7.) Add, *Trichocline foliosa* (Hook. et Arn.), n. sp.; caule folioso albo-tomentoso, foliis lineari-spathulatis integerrimis subtus albo-tomentosis, involucri foliolis uniformibus folia subsi-

mulantibus squarrosopotentibus oblongo-acuminatis subtus albo-tomentosis. —Rio Grande do Sul, S. Brazil, *M. Isabelle*.—The portion of the stem which we have is rather more than a foot long, bearing leaves to the summit, where they become smaller, but more crowded, and pass gradually into the leaflets of the involucre, which are all alike, and singularly lax, large, and very patent.

828\* (1.) Add, *Mutisia truncata*, Don, in *Linn. Trans.* v. 16. p. 269.—Province of Maule, *Cuming* (n. 83.); St. Mary, S. Patagonia, *Dr. Eights*; Antuco, in S. Chili, *Mr. Reynolds*. (n. 105. 38.)—Upon a close comparison of this plant with *M. spinosa*, we are inclined to consider it distinct from that species. It has a more southern locality; its leaves are thinner, less toothed, they turn black in drying, and the peduncle is longer. Our South Patagonia and Maule stations of *M. spinosa*, must now be referred to this plant.

833. (6.) *Mutisia subspinosa*, Cav.—Add, *Araucania!* *Mr. Reynolds*. (n. 15.)—Our specimens of this are too imperfect to enable us to decide with certainty as to the species.

834 (7.) *Mutisia subulata*, R. et P.—and *Cavanillesii*, Valley of Antuco, S. Chili, *Mr. Reynolds*. (n. 16. 106.)

845. (6.) *Gochnathia* (*Nardophyllum*) *revoluta*, Don.—We have now seen flowers of this plant, and find the anthers to be *ecaudate*; so that it must be removed from the present genus (as now constituted), and we would propose for it the following name and character:

*NARDOPHYLLUM*, Hook et Arn.  
(Nov. Gen.)

*Capitulum* 5—6-florum, homogamum, homocarpum. *Rachis* ebracteolata.) *Flosculi* 5—6, tubulosi regulares. *Filamenta* levia glabra. *Antheræ*, ecaudate. *Stylus* gibberimus elongatus. *Achenium* sericeo-villosum. *Pappus* conformis pluriserialis subplumosus. *Involucrum* involucreatum, foliis scariosis acuminatis.—Frutices, ramis junioribus albo-tomentosis. Folia linearia, rigida, Capitula terminalia solitaria.

1. *Nardophyllum revolutum*, Hook. et Arn.—*Gochnathia revoluta*, Don.—Hook. et Arn. l. c.—To this genus we have to add a second species.

2. *Nardophyllum obtusifolium* (Hook. et Arn.) n. sp.; foliis teretibus obtusissimis patenti-recurvis subdecurrentibus dorso

sulcatis. —Port Desire, *C. Darwin, Esq.* (n. 325).—This is a small shrubby species, three to four inches high, much branched upwards. Leaves one and a half line long.—It may readily be distinguished from the preceding by the very rounded, blunt, and somewhat decurrent leaves.

849. (4.) *Chuquiraga oppositifolia*, Gill.—Add; Port Desire, *C. Darwin, Esq.* (n. 312.)

853. (5.) *Chuquiraga erinacea*, Gill.—Add, Bahia Blanca, Coast of Patagonia, *C. Darwin, Esq.* (n. 329.)

*VERNONIEÆ*, Less.—Hook. et Arn.:  
l. c. p. 236.

875\* (6\*) Add, *Vernonia squamulosa* (Hook. et Arn.), n. sp.; fruticosa, foliis oblongis subcoriaceis brevi-petiolatis integerrimis v. subseratis supra scabris subtus puberulis, capitulis corymbosis, involucri turbinati squamis oblongis obtusis erectis inferioribus numerosissimis minutis squamæformibus imbricatis longe descendentibus, achenio pubescente, pappo exteriori brevi latiore.—Plentiful in woods of Tucuman, *Tweedie*. (n. 1224).—A very remarkable species, with the base of the involucre singularly attenuated into a stalk, and clothed with minute closely imbricated scales.

889\* (21?) Add, *Vernonia cinerea*, Less. Hab. ?—*C. Darwin, Esq.*—The station of this is not indicated upon the ticket. If found in extratropical S. America, it is probably introduced. We had previously only seen East Indian specimens.

918\* (16\*) Add, *Eupatorium dodoneæ-folium* (Hook. et Arn.), n. sp.; fruticosum ubique glutinosum, foliis alternis anguste lanceolatis in petiolum brevem attenuatis dentatis coriaceis glanduloso-punctatis pinnatim-nervis, corymbis densis terminalibus, involucri oblongi pluriserialis foliolis nitidis glabris exterioribus brevibus oblongo-ovatis, intimis linearibus acuminatis flosculos æquantibus.—Plentiful in the plains of St. Jago and Mendoza, *Tweedie*. (n. 1208.)

920. (18.) *Eupatorium tremulum*; ß. Hook. et Arn.—Add, Plains of Mendoza, *Tweedie*. (n. 1207.)

940. (38.) *Eupatorium glechonophyllum*, Less.—Add, Valparaiso, *C. Darwin, Esq.* (n. 377.)

If the species now mentioned (23) be added to those already noticed, it will make the number 976; so that we continue our memoir with n. 977.

## TRIB. VII.—ASTEROIDEÆ.—Less.

## SUB-TRIB. I.—ASTEREÆ.—Less.

977. (1.) *Chilotrichium amelloides*, Cass. —Berkley Sound, Falkland Islands. *C. Darwin, Esq. (n. 321.)*

978. (1.) *Grindelia speciosa*, Gill.; "suffruticosa glutinosa, foliis petiolatis cuneato-lanceolatis acutis dentatis planis, involucri subgloboso squarroso foliolis basi ovatis appressis coriaceis apice elongato-subulato recurvato-patenti ligulis dimidio brevioribus." *Don*.—Foot of the Andes of Mendoza, *Dr. Gillies*.

*Caulis erectus, bi-tripedalis, purpurascens. Folia 2—3-pollicaria. Capitulum solitarium, magnum. Radix aurea; flosculi pollicares. Don.*

979. (2.) *Grindelia puberula* (Hook. et Arn.); suffruticosa, tota puberula, ramis usque ad capitulum foliosis, foliis obovato-ellipticis semiamplexicaulibus basi auriculatis mucronatis argute dentato-serratis, involucri foliolis lanceolato-subulatis fusco-puberulis, radio involucrum plus duplo superante.—Dry woods in the colony of Victoria, *Tweedie*.

980. (3.) *Grindelia diffusa*, Gill.; "suffruticosa ramosissima glutinosa, foliis sessilibus angusto-oblongis mucronatis spinuloso-dentatis, involucri globoso squarroso foliolis e basi appressa lanceolato-subulatis revolutis, radio involucrum duplo superante." *Don*.—Province of San Luis, San Isidro, and Andes of Mendoza, *Dr. Gillies*; Fort Argentino, Patagonia, *Tweedie*; Port Desire, *C. Darwin, Esq. (n. 383.)*

981. (4.) *Grindelia discoidea* (Hook. et Arn.); fruticosa subglutinosa, foliis oblongo-linearibus mucronatis spinuloso-dentatis, involucri hemisphærici squarrosi foliolis exterioribus e basi appressa linearibus recurvis, radio nullo.—Monte Video and Maldonado. *Tweedie*.—Perhaps this may be a variety of *G. diffusa*, of which it has the habit, but none of our specimens from different localities, and gathered at different periods, possess any ray to the capitula.

982. (5.) *Grindelia scorzonifolia* (Hook.

et Arn.); suffruticosa, foliis anguste linearibus sessilibus semiamplexicaulibus basi æqualibus v. paulo latioribus apice acuminatis mucronatis subintegerrimis, involucri foliolis e basi ovata breviter subulatis, radio involucrum duplo superante.—Parana, Buenos Ayres, and Rio, *Tweedie*.—A dwarf plant, with singularly narrow leaves, and very slightly branched stems.

983. (6.) *Grindelia resinosa*, Gill.; "suffruticosa glutinosa, foliis lineari-lanceolatis acutis spinuloso-dentatis integerrimisve basi in petiolum attenuatis involucri hemisphærico ligulis dimidio brevioribus, foliolis e basi ovato elongato-subulatis." *Don*.—Abundant near Las Arbolitas, Mendoza; *Dr. Gillies*.

984. (7.) *Grindelia foliosa*, Don; "suffruticosa glutinosa, foliis basi attenuatis lanceolatis acutis dentatis vel integerrimis undulatis, involucri hemisphærico radio subdimidio brevioribus foliolis e basi ovata subbreviter subulatis." *Don*.—Andes of Chili and Mendoza, and banks of Rio Diamante, *Dr. Gillies*.—This species appears to us to be too closely allied to the last, differing only by the broader leaves, which have an inclination to become wavy; by the larger capitula; and by the broader leaflets of the involucre, which have shorter points.

985. (8.) *Solidago odora*, Willd. (*ex Lessing in Linnaea, v. 6. p. 125.*)—S. Chilensis, *Kunze*.—*a. glabriuscula*; acheniis sparse et breviter pilosis. S. Bonariensis. *Don, MSS.* Buenos Ayres; Laguénilla, near Mendoza, *Dr. Gillies*; Chili, *Cuming (n. 68.)*, *Bridges*.—*β. scabra*; acheniis sparse pilosis.—Monte Video, *Tweedie*.—*γ. glabra*; acheniis glabris.—S. repens. *Don, MSS.*—Mendoza, and banks of the Rio Uspallata, *Dr. Gillies*; Buenos Ayres, Maldonado, and N. Patagonia, *Tweedie*; Chili, *Mr. Cruikshanks*; Sta. Cruz of Buenos Ayres, *C. Darwin, Esq. (n. 354.)*

986. (9.) *Diplopappus foliosus* (Hook. et Arn.); fruticosus glutinosus, ramis crassis densissime foliosis, foliis obovato-spathulatis reflexis rigidis dentato-spinosis, floribus solitariis terminalibus, involucri foliolis erectis linearibus obtusis membranaceis margine scariosis, achenio parce pubescente, pappi serie exterioris dimidio brevioribus conformi.—Fissures of rocks near the bay, Villa de la Mar, Chili, *Bridges, Cuming. (n. 66.)*

987. (10.) *Diplopappus mucronatus*, (Hook. et Arn.)—*Baccharis mucronata*, *Hook. et Arn. Bot. of Beech. Voy. p. 30.*—Coquimbo, *Messrs. Lay et Col-*

<sup>1</sup> All the North American species called *Donia*, have the anthers without awns at the base, and belong therefore to *Grindelia*. Lessing's *Donia Canariensis* alone agrees with his generic character, and the name may be retained for it. Of *Grindelia*, the best characters of the species seem to be taken from the shape of the involucre; but it must be confessed that it is very difficult to define their limits in a satisfactory manner.

- lie*; Valparaiso, *Cuming*, (n. 73.) *Macrae*.
988. (11.) *Diplopappus foliosus* (Hook. et Arn.); fruticosus glutinosus, ramis usque ad apicem foliosis, foliis obovato-rotundatis sessilibus coriaceis, mucronato-dentatis resinoso-punctatis, capitulis terminalibus subglomeratis, involucri foliolis oblongis erectis obtusis scarioso-marginatis interioribus angustioribus, achenio lineari-elongato sericeo, pappi serie exteriori interiore plusquam dimidio brevioris conformi.—*Exothamnus ilicifolius*, *Don*, MSS.—Andes of Mendoza, *Dr. Gillies*.—In all *Dr. Gillies*' specimens there is no ray to the flowers, on which account it appears *Mr. Don* made it a new genus: but the habit is so much that of *D. mucronatus*, which has usually a ray, that we are unwilling to separate it from *Diplopappus*.
989. (12.) *Diplopappus spinulosus* (Hook. et Arn.); fruticosus humilis subsimplex, foliis obovato-lanceolatis acutis mucronatis spinoso-dentatis rigidis reticulatis ciliatis, pedunculo solitario terminali elongato bracteato pubescenti-tomentoso monocephalo, involucri foliolis imbricatis subpubescentibus lineari-oblongis exterioribus brevioribus mucronatis, achenio sericeo, pappi serie exteriori conformi interiore subduplo brevioris.—*Las Cuevillas*, Andes of Mendoza.— $\beta$ . foliis hirsuto-pubescentibus. *Port Desire*, *C. Darwin*, *Esq.* (n. 310.)
990. (13.) *Diplopappus inuloides*, (Hook. et Arn.); fruticosus subramosis, foliis obovato-lanceolatis acutis mucronatis spinoso-dentatis rigidis reticulatis ciliatis, pedunculo terminali solitario elongato bracteato subglabro monocephalo, involucri foliolis numerosis imbricatis glabriusculis lineari-subulatis pungentibus uniformibus, achenio sericeo.—*Cliffs*, Valparaiso; *Bridges*, *Cuming*, (n. 404.)
991. (14.) *Diplopappus grindelioides* (Less); caule herbaceo ramoso glabro, foliis obovato-spathulatis obtusis inaequaliter spinoso serratis submembranaceis obscure reticulatis glabris, pedunculis elongatis terminalibus remote bracteatis monocephalis, involucri glabri foliolis numerosis imbricatis lineari-subulatis subpungentibus uniformibus, achenio sericeo.—*D. grindelioides*, *Less. in Linnaea*, v. 6. p. 115.—Valparaiso, *Cuming*, (n. 502.) *Mathews* (n. 331).—This is decidedly a herbaceous plant, with very obtuse spatulate leaves, and capitula which are an inch and a half in diameter. The original species of *Lessing* seems to differ by the pubescent leaves.
992. (15.) *Diplopappus cuneatus* (Hook. et Arn.); pumilus fruticosus glaber, caule brevi dense folioso, foliis obovato-cuneatis coriaceis subpetiolatis obtuse dentatis dentibus brevi-mucronulatis obscure reticulatis, pedunculo terminali remote bracteato monocephalo, involucri imbricati foliolis lineari-oblongis mucronulatis subundulatis uniformibus exterioribus brevioribus, achenio sericeo.—*Aplpappus diversifolius*, *Don*, MSS.—Cumbre of the Cordillera of the Andes, *Dr. Gillies*.—A small and apparently very distinct plant, with the peduncle equal in length with the very leafy stem. Capitula an inch and a quarter in diameter.
993. (16.) *Diplopappus bellidifolius* (Hook. et Arn.); fruticosus glaber glutinosus, caule brevi ramosissimo dense folioso, foliis obovato-spathulatis in petiolum angustum attenuatis grosse acute dentatis obtusis rigidis, pedunculis gracilibus parcissime bracteatis monocephalis, involucri imbricati foliolis lineari-subulatis subpungentibus uniformibus exterioribus multo brevioribus, achenio sericeo.—Cordillera of Chili, *Cuming* (n. 233.); *Los Ojos de Agua*, *Bridges* (n. 224).—Scarcely larger than the preceding, very much branched, with numerous slender peduncles almost destitute of bracteas. Capitula nearly an inch in diameter.
994. (17.) *Diplopappus macrocephalus*, *Pæpp*; caule fruticoso subnullo, foliis rosulatis obovato-spathulatis obtusis basi in petiolum gracilem attenuatis glutinosos rigidis argute ciliato-serratis ciliis spinulentibus albis, pedunculo scapiformi 1-2-bracteato vernicoso monocephalo, involucri imbricati foliolis numerosis lineari-subulatis pungentibus exterioribus minoribus uniformibus, achenio sericeo.—*Less. in Linnaea*, v. 6. p. 114.—Maule province, *Cuming*, (n. 840.); *S. Chili*, *Mr. Reynolds*. (n. 152).—This is a very beautiful and well-marked species, which we think is the one described by *Lessing* under the above name: but we must confess that in the present, and in numerous other instances of the like kind, we find the greatest difficulty in discriminating that author's species, on account of the very diffuse descriptions, and the total absence of specific characters.
995. (18.) *Diplopappus coronopifolius*, *Less.*; fruticosus glaber, caule brevi decumbente, ramis numerosis caespitosus

valde foliosis, foliis lineari-spathulatis rigidis pinnatifidis subpinnatifidisque laciniis oblongis acutis mucronatis, pedunculis gracilibus nudis v. hic illic bracteolatis monocephalis, involucri glabri folioliis imbricatis lineari-subulatis subpungentibus exterioribus minoribus uniformibus, achenio sericeo.—*Less. in Linnaea*, v. 6. p. 112.—*Alopappus glutinosus*, *Cass. (ex Less.)*.—*Conception, Cuming (n. 818.)*; *Valdivia*, shady places near rivers in *Los Andes, Bridges. (n. 640.)*.—This likewise is a small, but very distant and well-marked species, with copious foliage of a pale and almost glaucous hue.

998. (19.) *Diplopappus Coquimbensis* (Hook. et Arn.); fruticosus pubescens, ramis elongatis, foliis obovato-lanceolatis coriaceis grosse dentato-serratis in petiolum attenuatis, pedunculis elongatis bracteatis v. nudis monocephalis, involucri pubescentis foliolis imbricatis lineari-subulatis acuminatissimis exterioribus uniformibus, radio involucri superante, achenio sericeo, pappo rufo.—*Coquimbo, Cuming (n. 892.)*; *Valparaiso (?) Macrae*.—Closely allied to the following, but the leaves are shorter, broader upwards, more petiolated, and the pappus is of a very red-brown colour. Mr. Macrae's specimen precisely accords with that from Mr. Cuming, whence we are led to infer that it may probably have been gathered in the same locality.

997. (20.) *Diplopappus canescens* (Hook. et Arn.); fruticosus, ubique canescenti-tomentosus, foliis lanceolatis coriaceis in petiolum attenuatis grosse acute dentatis dentibus subrecurvis, pedunculis elongatis bracteatis v. subfoliosis monocephalis, involucri pubescentis foliolis lineari-acuminatis exterioribus minoribus angustioribus, radio involucri superante, achenio sericeo, pappo testaceo.—*Chilian Andes, Cuming (n. 177.)*; *Baths of Collina, Macrae*.—This seems to be a *Cordillera* plant, distinguishable from the following by its more downy leaves and stem, not in the least glutinous.

998. (21.) *Diplopappus Donianus* (Hook. et Arn.); fruticosus læviter pubescens subglutinosus, foliis lanceolatis coriaceis grosse acute dentatis in petiolum attenuatis, pedunculis elongatis bracteatis monocephalis, involucri villosopubescentis foliolis lineari-acuminatis exterioribus minoribus angustioribus, achenio sericeo, pappo testaceo.—*Valparaiso, Cuming (n. 785.)*.— $\beta$ . radio nullo. Val-

paraiso, *Cuming (n. 786.)*, *Bridges*.—In this we can distinguish no ray to the flowers: the stems and leaves are much less downy than the preceding, but the upper part of the peduncle is more so.

999. (22.) *Diplopappus Paepigianus* (Hook. et Arn.); fruticosus ubique tomentososericeus, foliis lanceolatis acutis rigidiusculis inferne attenuatis omnino integerrimis, pedunculis elongatis bracteatis (demum glabris) monocephalis, involucri pubescenti-tomentosi foliolis lineari-subulatis exterioribus gradatim minoribus magisque subulatis, radio nullo, achenio sericeo, pappo testaceo.—*Cordillera of Chili, Cuming. (n. 203.)*

1000. (23) *Diplopappus integerrimus* (Hook. et Arn.); fruticosus glaberrimus glutinosus dense foliosus, foliis lanceolatis acutis rigidis integerrimis inferne attenuatis, pedunculis elongatis remote bracteatis monocephalis, involucri glaberrimi viscidii foliolis subulatis apicibus recurvis exterioribus minoribus uniformibus, radio perbrevis, achenio sericeo, pappo testaceo.—*San Felipe de Aconcagua, Bridges (n. 222.)*; *Cordillera of Chili, Cuming. (n. 258.)*.—A very distinct and well-marked species.

1001. (24.) *Diplopappus glutinosus*, Paep. ? fruticosus glaberrimus glutinosus, foliis obovato-lanceolatis subspathulatis coriaceis obtusis in petiolum attenuatis superne dentato-serratis, pedunculis elongatis subnudis monocephalis, involucri puberuli glutinosi foliolis arcte imbricatis lineari-subulatis exterioribus minoribus angustioribus, radio involucri superante, achenio sericeo, pappo testaceo.—*Valparaiso, Bridges (n. 225.)*; *Cordillera of Chili, Cuming. (n. 285.)*.—Leaves almost exactly spathulate.

1002. (25.) *Diplopappus setiger* (Hook. et Arn.); fruticosus glaber glutinosus, foliis densis linearibus rigidis pinnatifidis segmentis rigido-setigeris, pedunculis elongatis multibracteatis bracteis subulatis setigeris, involucri pubescentis foliolis spinoso-setigeris subulatis intimis lineari-oblongis, radio obsolete, achenio setigero, pappo fulvo.—*Baths of Collina, Macrae*; *Questa de Chuenboco, Bridges (n. 221.)*; *Chilian Andes, Cuming (n. 178.)*

1003. (26.) *Diplopappus sericeus* (Less.); herbaceo-villosus glanduloso-pubescentis vel sericeo-villosus subramosus, radice perrenni, foliis radicalibus petiolatis lanceolato-spathulatis, caulibus lanceolatis sessilibus, involucri foliolis paucisera-

- libus pubescenti-glandulosis linearibus acutis intimis membranaceis margine coloratis, radio purpureo, achenio nervoso pubescente, pappo fulvo.—*Less. in Linnæa*, v. 6. p. 110.—*D. candidus*, *Gill. et Don, MSS.*—*D. vestitus*, *Gill. MSS.*—Near Valparaiso and Talca, *Dr. Gillies, Cuming* (n. 67.); Las Animas, near Valdivia, *Bridges* (n. 749.); Buenos Ayres and Pampas of Santa Fé, *Dr. Gillies*; Island of Los Morinheros, Entre Rios and North Patagonia, *Tweedie*.— $\beta$ . glandulosa; caule foliisque minus villosis magis minusve glandulosis.—*Aplopappus lividus*, *Gill. et Don, MSS.*—Peral, Chili, *Dr. Gillies*; Sierras de San Isidro, Quillota, Chili, *Bridges* (n. 299.)
1004. (27.) *Diplopappus diffusus* (Hook. et Arn.)—*Erigeron diffusus*, *Pers.*—El Morro, Prov. of St. Luis, *Dr. Gillies*.—This is more branched than the preceding, with smaller leaves and a much deeper (dark purple-brown) pappus. In this and all the preceding species of *Diplopappus*, the achenium is silky or hairy, both the rows of the pappus pilose, though the outer one be shorter than the inner: hence belonging to the genus or group of *Aplopappus* of Cassini.
1005. (28.) *Diplopappus pinnatifidus* (Hook. et Arn.); fruticosus glaberrimus glutinosus, foliis pinnatifidis, segmentis paucis elongatis subdistantibus anguste linearibus mucronatis, pedunculis elongatis parce foliosis monocephalis, involucri hemisphærici foliolis oblongis mucronatis, achenio glabro, pappi setis inæqualibus rigidis subcornicis serrulato-ciliatis.—Province of Maule, *Cuming* (n. 848.)—This has a very peculiar habit, with fleshy leaves, resembling some maritime species of *Senecio*, large capitula, with a white (?) ray and a singularly harsh and rigid pappus.
1006. (29.) *Diplopappus hispidus*, *Gill.*; perennis hispido-pilosus, caule herbaceo striato, foliis erectis lineari-oblongis linearibusve, pedunculis rariter foliosis monocephalis, involucri foliolis anguste linearibus acuminatis pilosis adpressis, ligulis anguste linearibus, acheniis scabris, pappo exteriori paleaceo 3–4-plo brevior. — Villavicencio, El Rio Diamante, and Andes of Mendoza, *Dr. Gillies*; Las Loamas of Bahía Blanca in North Patagonia, Uruguay, and Banda Oriental, *Tweedie*.—This and the two next have quite a different habit from the others we have described: the ray likewise appears to consist of sev-
- eral rows, as in *Erigeron*, but the outer paleaceous pappus removes it entirely from that genus.
1007. (30.) *Diplopappus villosus* (Hook. et Arn.); annuus molliter villosus arcte foliosus supere ramosus, foliis latolinearibus acutis integerrimis radicalibus spatulatis, pedunculis terminalibus foliolis monocephalis, involucri hirsuti foliolis pauciserialibus linearibus acutis ligulis angustis (albis), achenio sericeo, pappo exteriori anguste paleaceo.—Rio Grande do Sul, S. Brazil, *M. Isabelle*.—Similar in habit to the last, but smaller in all its parts, clothed with softer hairs, and decidedly an annual plant.
1008. (31.) *Diplopappus stenophyllus* (Hook. et Arn.); perennis? caule herbaceo dense folioso, foliis angustissime linearibus ciliatis, pedunculis nudiusculis monocephalis, involucri foliolis lineari-subulatis pilosis, ligulis angustis, acheniis scabris, pappo exteriori paleaceo 3–4-plo brevior. — Uruguay, *Tweedie*.— $\beta$ . foliis minus ciliatis. Rio Grande, *Tweedie*.
1009. (32.) *Diplopappus pinifolius* (Hook. et Arn.); caule subherbaceo, foliis erectis filiformibus acutis glaberrimis, pedunculis nudiusculis monocephalis, involucri foliolis linearibus glabris.—Rio Grande, *Tweedie*.—Of this we possess but an imperfect specimen, but that has much the habit of the preceding species. The leaves, however, are short and filiform, quite glabrous.
1010. (33.) *Diplopappus? corymbosus* (Hook. et Arn.); perennis, caule herbaceo subsimplici, foliis lineari-lanceolatis erectis rigidiusculis acutis parce pilosis integerrimis subtus trinerviis, pedunculo terminali corymboso, involucri glabri foliolis pauciserialibus linearibus acutis albo-marginatis, radio nullo.—Rio Grande, *Tweedie*.—This differs somewhat in habit from all our other species of *Diplopappus*, especially in the corymbose inflorescence. The capitula are small. Pappus and achenia too young to be satisfactorily described.
1011. (1.) *Aster erigeroides* (Hook. et Arn.); ramosissimus glaber valde foliosus basi fruticosus, foliis lineari-lanceolatis membranaceis subtrinerviis acuminatis sessilibus inciso-serratis, paniculis corymbosis densis, involucri pubescentis foliolis pauciserialibus imbricatis lineari-subulatis exterioribus multifidis, radio subpluriseriali albo.—Juan Fernandez, in rocky places, *Douglas, Cuming*. (n. 1334.)— $\beta$ . *proliferus*; foliis 3–4-plo majoribus inciso-subpinnatifidis, corym-



- bis quasi lateralibus. Stony elevated woods, Juan Fernandez, *Bertero*.—This seems to have as much claim to a place in the genus *Erigeron* as in *Aster*: and in some flowers, the florets of the ray appear to be in more than one series.
1012. (2.) *Aster subulatus*. Mich.—A. inconspicuus. *Less. in Linn. v. 5. p. 143.* *A. scorzonerifolius*. *Less. Comp. p. 182.* *Tripolium subulatum*, *Nees. Ast. p. 156.* *Erigeron dracunculoides*, *Don, MSS.* *E. flexuosus*. *Gill. Conyza graminifolia!* *Spr. Syst. Veget. v. 3. p. 515.* Quillota and Valparaiso. *Bridges (n. 183. 185.), Cuming (n. 654.);* Monte Video, Buenos Ayres, Uruguay, North Patagonia, *Tweedie*; San Luis, *Dr. Gillies*.—A very variable plant; but in all our specimens the scales of the involucre are broader and less acuminate than in the original *A. subulatus* from N. America. It is probably a common plant on the sea-shore, and by the margins of salt lakes throughout the greater part of N. and S. America, both intra- and extra-tropical.
1013. (3.) *Aster VahlII* (Hook. et Arn.); herbaceus glaberrimus paucis ramosus, foliis lineari-lanceolatis integerrimis obtusiusculis basi semiamplectantibus infimis spatulatis basi subvaginantibus subseriatis, capitulis solitariis, involucri pauciserialis foliolis glaberrimis imbricatis linearibus acutis, radio purpureo, pappo cinereo.—*Erigeron VahlII*, *Gaudich. Ann. des S. Nat. v. 5. p. 104.* *Diplopappus glabellus*. *Gill. et Don, MSS.*—Andes of Chili, *Dr. Gillies*; Chiloe, *Cuming (n. 55.);* Valdivia, *Bridges (n. 623.);* Cape Negro, Straits of Magellan (*n. 390.*), and Falkland Islands (*n. 389.*), *C. Darwin, Esq.*—It was in this latter country that this species was first detected by Gaudichaud.
1014. (4.) *Aster Gilliesii* (Hook. et Arn.); piloso-scaber, caulibus erectis subramosis angulatis, foliis linearibus obtusis integerrimis obtusis basi sublonge attenuatis, pedunculis paucis terminalibus monocephalis, involucri hispido-strigosi foliolis pauciserialibus linearibus acuminatis imbricatis, radio (purpureo) subuniseriatis discum triplo superante, achenio strigoso, pappo fulvo.—*Diplopappus elongatus*. *Gill. et Don, MSS.*—Quebrado de Rios, Andes of Chili and Mendoza. *Dr. Gillies*.
1015. (1.) *Sommerfeldtia spinulosa*, *Less. Compos. p. 190.*—*Conyza spinulosa*, *Spreng.*—Rio Grande, *Tweedie*. *Microgyne trifurcata*. *Less. Comp. p. 190.*—*Erigeron trifurcatus*. *Gill. et Don, MSS.*—Pampas of Buenos Ayres, Rio Saladillo, *Dr. Gillies*. Buenos Ayres, Maldonado and N. Patagonia, *Tweedie*.
1016. (1.) *Erigeron Canadensis*, L.—*E. sordidus*, *Don et Gill. MSS.*—Valparaiso, *Dr. Gillies, Cuming (n. 1435.), Bridges (n. 188.);* Buenos Ayres, *Dr. Gillies*; Uruguay and N. Patagonia, *Tweedie*; Cape Negro, Straits of Magellan, *C. Darwin, Esq.*—Valparaiso. (*n. 387.*) of *Cuming* has the ligula of the ray about one-fourth the length of the tube, while in the others it is scarcely one-sixth.
1017. (2.) *Erigeron spiculosus* (Hook. et Arn.), *Bot. of Beech. Voy. p. 32.*—Chilian Andes, *Cuming (n. 159, 160, and 227.)* Valdivia (*n. 504.*);  $\alpha$ . Valparaiso, *Bridges (n. 184. 186.), Cuming (n. 432 and 407.)*— $\beta$ . *glabellus*. Port Gregory, Patagonia (*Herb. nostr.*).—A most variable plant, nearly allied to the preceding, but having the capitula twice as large, and forming a broad terminal panicle. The leaves are sometimes entire, sometimes serrated and even sinuate, the ligule of the ray is sometimes short, about one-sixth the length of the tube, at other times it occupies about one-half the length of the floret: but their diversities do not appear to be accompanied by other distinguishing characters. The short form of the ligula belongs to our *Conyza ambigua*, Hook. et Arn. in *Bot. of Beech. Voy. p. 32.*
1018. (3.) *Erigeron stenophyllus* (Hook. et Arn.); suffruticosus, radice crassa fusiformi lignosa multicipite, caulibus foliisque cano-pubescentibus, his angustissime linearibus obtusiusculis integerrimis, involucri foliolis linearibus acuminatis interioribus majoribus membranaceis coloratis, achenio parce strigoso.— $\alpha$ . radio perbrevis, caulibus vix angulatis.—Valparaiso, *Cuming (n. 74.), Bridges (n. 182.)*.— $\beta$ ? radio discum duplo superante, caulibus angulatis, minus pubescentibus.—Valparaiso, *Dr. Gillies, Cuming (n. 406.)*—Our var.  $\alpha$ . approaches very closely to the next species, but the root is of a more woody nature, the stems shorter, more slender, but more wiry and harder, and the pubescence more minute, but more copious and white. Of our var.  $\beta$ . we have not seen the root: it is a much taller plant, and is probably a distinct species.
1019. (4.) *Erigeron strictus* (Hook. et Arn.); herbaceus perennis pubescens,

caulibus usque ad florescentiam simplicibus angulatis, foliis inferioribus linearilanceolatis basi longe attenuatis serratis, superioribus angustolinearibus acutis integerrimis, involucri foliolis linearibus acuminatis interioribus majoribus membranaceo-marginatis, radio per brevi, achenio parce strigoso.—Valparaiso, *Cuming*. (n. 589.) Juan Fernandez, *Dr. Scouler*.

1020. (5.) *Erigeron canescens* (Hook. et Arn.); capo-pubescent, caulibus virgatis usque ad florescentiam simplicibus, foliis anguste spathulato-linearibus inferioribus paucidentatis superioribus integerrimis apiculatis, involucri foliolis linearibus acuminatis interioribus longioribus submembranaceis coloratis, radio (albo) discum duplo superante, achenio strigoso.—Valparaiso, *Cuming*. (n. 75.)

1021. (6.) *Erigeron cinereus* (Hook. et Arn.); piloso-hispidus, caule brevi decumbente 1—3—5-cephalo, foliis integerrimis radicalibus spathulatis caulinis linearilanceolatis, involucri tomentoso-hirsuti foliolis imbricatis pauciserialibus linearibus acutis subæqualibus, radio discum duplo superante, achenio pappi longitudine compresso-ancipiti glaberrimo, pappi subbiserialis serie exteriori brevissimo.—Diplopappus cinereus. *Don et Gill. MSS.*— $\alpha$ . caule 2—5-cephalo, Los Palomares, Andes of Mendoza, *Dr. Gillies*.— $\beta$ . caule monocephalo, involucreo colorato. San Pedro Nolasco, Andes of Chili, *Dr. Gillies*.

1022. (7.) *Erigeron uniflorus*, Linn.—*E. myosotoides?* *Juss.*—Diplopappus bellidioides, *Gill. et Don, MSS.*—Quebrado de Rios, Andes of Chili, *Dr. Gillies*.— $\beta$ . foliis glabris (petiolis ciliatis exceptis) involucri colorati foliolis nudiusculis. Cordillera of Chili, *Cuming*. (n. 195.)—Strange as it may appear, we are quite unable to distinguish this plant from the European *E. uniflorum*. The achenium is slightly hirsute, short in proportion to the length of the pappus, by which characters it is chiefly distinguished from the preceding.

1023. (8.) *Erigeron othonnifolius* (Hook. et Arn.); ubique densissime piloso-pannosus, caule brevi erecto monocephalo, foliis omnibus spathulatis integerrimis, superioribus sensim minoribus, involucri foliolis linearibus acutis pannosis, radio (albo) discum vix duplo superante.—Maule Province, *Cuming*. (n. 831.)—Our specimens of this appear to be truly distinct from the two preced-

ing, in the densely matted covering of hairs on the stem and foliage.

[Allied to the three last are the following specimens of *Erigeron* in our Herbarium:—1, caule ramoso polycephalo, from Patagonia—2, caule bifloro simplici. Cape Negro, Straits of Magellan, *C. Darwin, Esq.* (n. 394.)—3, radice tenui elongato, caule gracili 1—2-floro foliis elongatis. Gregory Bay, Straits of Magellan. *C. Darwin, Esq.* (n. 385.): all are too imperfect to describe from.]

1024. (9.) *Erigeron Tweediei* (Hook. et Arn.); caule erecto elongato striato glabro, foliis remotis oblongo-acuminatis basi cordatis amplexantibus glandulospunctatis integerrimis marginibus callis denticulato-ciliatis, paniculis terminalibus paucifloris glomeratis, pedicellis pilosis, involucri foliolis oblongo-linearibus exterioribus ciliatis, radio brevi (flavo), pappo rufo-fulvo.—Maldonado, in boggy ground. *Tweedie*. (n. 1058.)—A very fine and remarkable plant, one and a half to two feet high, and the leaves four to five inches long: the flowers yellow, those of the disk marked with purple lines.

#### PODOPAPPUS. *Hook. et Arn.*

*Involucrum* imbricatum, foliolis angustissimis linearibus acuminatis. *Capitulum* heterogamum: flores *fem.* pluriserialis in ambitu, corollis tenuibus ligulas angustas gerentibus; *reliqui* hermaphroditi. *Antheræ* ecaudatæ. *Rachis* ebracteolata. *Achenium* oblongum compressum margine incrassatum, rostro tenui lopiugusculo instructum. *Pappus* pilosus pluriserialis.—*Herbæ simpliciusculæ*. Folia *alterna*.—Forsan idem genus ac *Podocoma*, Cass. (cui certe valde affine, quam propter nomen affine datur), at illi, secundum Lessingium, radius uniserialis.

1025. (1.) *P. hirsutus* (Hook. et Arn.); hirsuto-pilosus, caule subsimplici, foliis inferioribus (magnis) elliptico-oblongis sinuato-dentatis, superioribus amplexantibus valde decrescentibus angustioribus, summis integerrimis, capitulis corymboso-racemosis, pedicellis capitulo sub brevioribus, involucreo glabriusculo, radio 4—6-seriali involucreo vix superante.—Rio Grande, and Guardia Argentino in North Patagonia; *Tweedie*.

1026. (2.) *P. pubescens* (Hook. et Arn.); hispido-pubescent, caule versus apicem ramoso, foliis caulinis oblongis vel cordato-ovatis sessilibus integerrimis, rame-

alibus sursum decrescentibus et angustioribus, capitulis corymbosis pedicellis inferioribus capitulo triplo longioribus, involucrio pubescente, radio biseriali involucrium longe superante. — Buenos Ayres, *Tweedia*.

1027. (3.) *P. tomentosus* (Hook. et Arn.); foliis dense approximatis linearibus sessilibus et involucrio albide lanato-tomentosis, capitulis (magnis) solitariis, radio involucrium duplo superante. — Province of Rio Grande do Sul; *M. Isabelle*. — It is impossible for us to say whether our specimen be a branch of a large plant, or whether the stem be one-flowered. The flowers are fully two inches across, while in the two preceding they are scarcely so large as in *Conyza Chilensis*.

1028. (1.) *Lepidophyllum cupressiforme* Cass. *Dict. Sc. Nat. v. 26. p. 37, Less. Comp. p. 191.* — *Baccharis cupressiformis, Pers.* — *Conyza cupressiformis, Lam.* — Port Desire, *C. Darwin, Esq. (n. 323.)*

1029. (1.) *Gutierrezia linearifolia* (Lag.); foliis linearibus planiusculis, capitulis turbinatis 5—10-radiatis, pappi paleis linearilongatis acutis. —  $\alpha$ . foliis angustis papilloso-scabris. — *Galinsogea?* resinosa. *Hook. et Arn. in Bot. Beech. Voy. p. 32.* — Villa Vicenzio, Andes of Mendoza, *Dr. Gillies*; Valparaiso, *Cuming, (n. 71)*; Coquimbo, *Messrs. Lay and Collie.* —  $\beta$ . foliis angustis lævibus. — *Aguaite*, prov. of San Luis, *Dr. Gillies.* —  $\gamma$ . foliis latioribus subtrinerviis papilloso-scabris. — Los Tolditas, El Guindo, and Los Chacacs, Andes of Mendoza, *Dr. Gillies*; East Coast of Patagonia, *Dr. Eights*; Port Desire, *C. Darwin, Esq. (n. 319.)*

“*Planta suffruticosa. Caulis* spithameus vel pedalis, gracilis, flexuosus, plerumque ramosissima. *Rami* angulati, scabri, viminei. *Folia* sparsa, linearia, mucronulata, impresso-punctata, sæpius papilloso-scabra, supra canaliculata, pollicaria; superiora subulata. *Capitula* laxa corymbosa, paniculata, turbinata, unguicularia. *Pedunculi* angulati, scabri, bracteis subulatis subadpressis ornati. *Involucrium* multiplici ordine polyphyllum, imbricatum: *foliis* ovato-oblongis, recurvato-mucronatis, cartilagineis, margine scariosis, ciliatis. *Rachis* haud favosum, ebracteolatum. *Corollæ radii* 5—10, elliptico-oblongæ, cartilagineæ, rigide, femineæ: *disci* 8—12, infundibuliformes, 5-dentatæ, hermaphroditæ, 5-dentatæ, dentibus ovatis, recurvatis, glabris. *Filamenta* complana-

ta, glabra, gracilia. *Antheræ* in tubum coaditæ, semiexsertæ, basi mucosæ, appendicula ovata acutiuscula membranacea coronatæ. *Styli* hermaphroditorum rami lineares, obtusi, dense papillosi, exappendiculati; femineorum linearilongulati, obtusi, læves. *Achenia* cuneata, angulata, pilosa. *Pappi* radii paleacei, lineares, acuti, biseriales, apice erosodenticulati.” *Don. in litt.*

1030. (2.) *Gutierrezia laricifolia* (Don.); foliis linearilongulatis angustissimis canaliculatis, capitulis globosis multiradiatis, involucri foliolis subulato-acuminatis, pappi paleis truncatis brevissimis. — Coquimbo, *Mr. Caldelegui*.

*Planta* suffruticosa, erecta, glutinosa, sesqui-v. bipedalis. *Caulis* dense foliosus, corymboso-ramosissimus. *Rami* numerosi, elongati, plerumque monocephali. *Folia* anguste linearia, mucronulata, canaliculata, patentia, 1—2-pollicularia. *Capitula* triplo majora quam in præcedente, globosa, multi- (30—40)-flora. *Involucri foliola* scariosa, apice elongato-subulata, recurvo-patentia. *Receptaculum* breviter paleaceo-fimbriiferum. *Radii* copiosi, ligulati, revoluti, aurei? *Achenia* angulata, sericea. *Pappus* polyphyllus, brevissimus, truncatus.” *Don, in litt.* — This we have not seen, nor does Mr. Don state whether the pappus consists of one or two rows of paleæ. *Brachyris* of Nuttall has much of the character of this genus, and appears to differ only by the pappus being in a single row.

1031. (1.) *Lagenophora Commersonii*, Cass. *Dict. Sc. Nat. v. 25. p. 160*; *Less. Compos. p. 193.* — *Calendula pumila, Frost.* — *C. magellanica, Willd.* — Cape Horn, *Dr. Eights.* —  $\beta$ . *hirsuta*; foliis hirsutis — *L. hirsuta, Less. ? in Linn. v. 6. p. 131.* — Cape Horn, *C. Darwin, Esq. (n. 346.)* — We are doubtful about Lessing’s *L. hirsuta*, as he says that the whole plant is hirsute, while in our  $\beta$ , the peduncle is glabrous as in  $\alpha$ ; this variety being thus intermediate between the two South American species.

1032. (1.) *Madia viscosa*, Cav. — *M. mellosa, Mol.* — Province of San Luis, *Dr. Gillies*; Valparaiso, *Dr. Gillies, Cuming, (n. 409, 410.) Bridges*; Conception, *Mr. Caldelegui*; Antuco, *Mr. Reynolds.* — *M. stellata, Fisch. and Mey. Ind. Sem. Petrop. p. 32,* appears to be the same species. If *M. sativa, Mol.*, of which Cassini has constituted his genus *Bititia*, be distinct, we are unacquainted with it.

1033. (1.) *Crinitaria Linosyris*, Less.—Buenos Ayres, *Tweedie*; (perhaps cultivated.)
1034. (1.) *Kleinia Porophyllum*, Willd.—Rio Grande, Rio Parana, St. Catherine's, and woods of Tucuman, *Tweedie* (n. 1163.)
1035. (2.) *Kleinia linifolia* (Gill. et Don.); suffruticosa erecta ramosissima glauca, ramis virgatis, foliis remotiusculis linearibus callosio-mucronatis carnosis, involucri foliolis mucronatis pappum subæquantibus acheniis subhirsutis.—Rio Cuarto, Provinces of Cordova, and Jarral, Mendoza, *Dr. Gillies*; Rio Grande, *Tweedie*.—Perhaps this may prove to be *K. obscura*, Spr., but the description differs in several particulars.
1036. (3.) *Kleinia filifolia* (Spr. ?); suffruticosa erecta ramosissima glauca, ramis virgatis, foliis crebriusculis angustissimis subfoliiformibus, pedunculis subgeminis, involucri foliolis oblongis submucronatis pappum dimidium attingentibus, acheniis subhirsutis.—Island of Los Morineros of Rio Grande, *Tweedie*.—The leaves of our plant are not fasciated, hence arise our doubts as to whether Sprengel's plant may not be distinct.
1037. (4.) *Kleinia exserta* (Hook. et Arn.); suffruticosa erectiuscula ramosissima glauca, ramis virgatis, foliis crebriusculis angustissimis subfoliiformibus, pedunculis geminis, involucri foliolis cuneato-oblongis obtusis achenia hirsutula æquantibus.—Fields and hedge-sides of Portalegre, *Tweedie*.—Readily distinguished from the last by the short and proportionally broader leaflets of the involucre.
1038. 5.) *Kleinia pumila* (Hook. et Arn.); suffruticosa adscendens multicaulis glauca, ramis simpliciusculis, foliis crebris linearibus vel subfoliiformibus, pedunculis solitariis elongatis, involucri foliolis mucronulatis pappum æquantibus, acheniis hirsutulis.— $\alpha$ . foliis elongatis; Monte Video, *Tweedie*.— $\beta$ . foliis abbreviatis; Parana and Buenos Ayres, *Tweedie*.
1039. (6.) *Kleinia brevifolia* (Hook. et Arn.); suffruticosa diffusa ramosissima valde glauca, ramis flexuosis, foliis spatulato-linearibus mucronatis, pedunculis solitariis, involucri foliolis mucronulatis pappum dimidium superantibus, acheniis hirsutulis.—Rocky point of Gorrita on the coast of Maldonado, *Tweedie*.

(To be continued.)

## ILLUSTRATIONS OF INDIAN BOTANY; PRINCIPALLY OF THE SOUTHERN PARTS OF THE PENINSULA.

By R. WIGHT, M. D. F.L.S. &amp; G. A. W. ARNOTT, Esq., &amp;c.

(Continued from p. 228, Vol. I.)

*Oxystelma esculentum*; foliis lineari-lanceolatis venosis, corolla margine ciliata, folliculis oblongis acuminatis. (Tab. XXIV.) *Roem. et Sch. Syst. Veget.* 6. p. 89. *Spreng. Syst. Veget.* p. 850. *Wall. Asclep.* n. 94. *Wight, Cat.* n. 1547. *Wight, Contrib. to the Bot. of Ind.* p. 54.

*Periploca esculenta*. *Linn. fil. Suppl.* p. 168. *Willd. Sp. Pl.* v. 1. p. 1250. *Roxb. Cor.* v. 1. p. 13. t. 14.

*Asclepias rosea*. *Roxb. Fl. Ind.* v. 2. p. 40. *Pluk.* t. 359. f. 6.

Root fibrous. Stems filiform, round, smooth, green, voluble. Leaves shortly petioled, opposite, linear-lanceolate, acute, rounded and subcordate at the base, entire, smooth, deep green above, paler and veined beneath, deciduous? from two to three inches long, by about half an inch broad. Racemes axillary, long-peduncled, bearing from three to eight large, subcampanulate, five-cleft flowers; their segments triangular, acute, externally of a pale rosy hue, internally purplish, marked with darker lines. Column of fructification prominent; crown of five inflated leaves, broad, and somewhat compressed at the base, tapering to a sharp incurved point. Anthers terminated by a membrane. Pollen-masses compressed, attached by their attenuated apex, pendulous. Stigma large, flat, covered on the edges by the membranous lips of the anthers. Pericarps two, large, inflated follicles: these consist of two coats or layers, loosely attached to each other, and it is between these that the inflation takes place, as the inner coat is of a firm texture, and closely embraces the seeds, which are numerous and comose.

This plant always grows near water, or even with its roots in water; its stems twining round whatever support they can