Flowers hermaphrodite. Perianth regular or nearly so, straight or curved, the slender tube opening equally or along the lower side only, the limb ovoid oblong or linear, the laminæ remaining long coherent, or rarely separating as the tube opens. Anthers narrow, sessile in the concave lamine, the connective thick, usually very shortly produced beyond the cells. Hypogynous scales 4, very thin and membranous (rarely deficient?). Ovary very small and sessile; style usually longer than the perianth, rigid, curved and protruding from the slit in the perianth-tube until the end is set free by the separation of the lamine, and then either straightened or remaining hooked or curved received. and then either straightened or remaining hooked or curved, rarely straight from the first and not exceeding the perianth; the stigmatic end on a level with the anthers, of a different texture but smooth, or striate and furrowed, continuous with the style or with a prominent rim at the base, the real stigma small and terminal; ovules 2, collaterally attached about the middle. Fruit a compressed capsule, opening at the broad end (or rather outer margin, for the scar of the style is lateral) in two hard often woody horizontal valves. Seeds usually 2, compressed, with a terminal membranous wing broad and rounded like the valves, the seeds separated by a plate of the same shape (the con-solidated outer integuments of the inner side of the two seeds) free from the ripe seeds, simple (completely consolidated) between the nuclei, double (remaining distinct) between the wings.—Trees or shrubs. Leaves alternate or rarely verticillate or nearly so, usually narrow, entire toothed pinnatifid or pinnate, with numerous (rarely few) short teeth lobes or segments, the primary veins numerous and transverse, rarely inconspicuous or irregular and the minute reticulations numerous on the under surface, with a minute tomentum rarely wanting in the areolæ, and sometimes white and covering the whole under surface, the upper surface almost always glabrous and smooth. Flowers sessile in pairs, in dense terminal cylindrical oblong or globular spikes, either terminal and sessile above the last leaves or rarely lateral or on short lateral branches; each pair of flowers subtended by one bract and two lateral rather smaller bracteoles, both bracts and bracteoles densely woolly-villous on the sides, the tips glabrous tomentose or villous, either clavate and obtuse or truncate, or shortly acuminate, always densely imbricate in parallel spiral or rarely vertical lines. Perianth-tube very slender and entire within the bracts, ultimately splitting beyond them. In fruit the bracts and bracteoles become consolidated with the rhachis into a thick woody cone, either covered with the withered remains of the perianths amongst which the capsules are entirely concealed, or, where the flowers are wholly deciduous, the valves of the capsules protrude more or less beyond the bracts, the

lower indehiscent portion containing the nuclei of the seeds remaining imbedded among the bracts. The proportion of perfect capsules is usually very small in relation to the number of flowers, of which there are often from 500 to above 1000 in the same spike.

The genus is endemic in Australia, and the greater number of species are Western, two only of the Eastern species penetrate into the tropics, besides one which is exclusively tropical, if it be really more than a variety of the most widely diffused of the Eastern species.

Sect. 1. Oncostylis.—Leaves linear or rarely lanceolate, with revolute margins or nearly flat but very white underneath, entire denticulate or pinnate with small numerous regular segments. Style remaining hooked after the perianth-limb has opened, the stigmatic end very small.

Perianth-tube villous, less than half as long as the style, the limb glabrous. Leaves small, entire. Western species. glabrous. Leaves small, entire. Western species.

Perianth-tube about 4 lines long. Leaves incurved or erect, ‡ to

lin. long

Perianth-tube about 3 lines long. Leaves spreading or reflexed, not exceeding \(\frac{1}{4} \) in.

Perianth-tube more than half as long as the style, silky as well as

Leaves linear with closely revolute entire margins and not truncate at the end. Western species.

Leaves mostly short. Perianth under 1 in. long. Bracts

with glabrous tips
Leaves mostly long. Perianth above 1 in. long. Bracts en tirely woolly-villous
Leaves linear, truncate or notched at the end and often denticu-

late, especially near the end.

late, especially near the end.

Western species, leaves long.

Leaves (2 to 4 in.) very narrow, with closely revolute entire margins. Bracts villous to the end.

Leaves (2 to 4 in.) with revolute or recurved margins, entire or denticulate towards the end. Bracts with glabrous tips Leaves (4 to 8 in.) more open, showing the tomentose under surface. Bracts tomentose at the end. Eastern species.

Leaves (about 1 in.) very narrow with closely revolute entire Leaves (1½ to 3 in.) narrow-linear with closely revolute entire or denticulate margins

Leaves (1½ to 3 in.) linear, more open, showing the white

1. B. pulchella.

2. B. Meissneri.

3. B. nutans.

4. B. sphærocarpa.

5. B. tricuspis.

6. B. occidentalis.

7. B. littoralis.

8. B. ericifolia.

9. B. spinulosa.

. 11. B. verticillata

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Leaves pinnate with numerous small regular contiguous but
            distinct segments.
         Leaf-segments broad, triangular. Spikes small, globular or
                                                                             . 12. B. dryandroides.
         Leaf-segments narrow, falcate. Spikes large, oblong or
           Sect. 2. Cyrtostylis .- Leaves flat or undulate, the margins not revolute, toothed,
   pinnatifid or pinnate. Style arched or nearly straight and turned upwards after flowering, not hooked, the stigmatic end small, not striate. Western species.
    Perianth obtuse or acute, not aristate.
      Leaves narrow, regularly serrate, usually white underneath.

Spikes narrow. Perianth glabrous, under \( \frac{3}{4} \) in. long
                                                                            . 14. B. attenuata
     Spikes broad. Perianth 1 in. long, the tube villous, the limb
. . 15. B. media.
  . 16. B. Solandri.
                                                                          . 17. B. Goodii.
       trate stem
     Leaves erect along the prostrate stem, white underneath,
18. B. petiolaris.
Perianth 1 in. long, the limb hirsuite with loose usually persistent hairs

Perianth scarcely \(^2\) in. long, the limb clothed with intricate loose ferruginous very deciduous hairs

Leaves large, pinnate, with triangular distinct but contiguous segments. Spikes cylindrical

Perianth acuminate with long awn-like points. Leaves nearly sessile, not very large, irregularly toothed or lobed.

Spikes 3 to 4 in. long, rather narrow. Bracts with glabrous tips

22. B. quercifolia. Spikes 4 to 8 in. long, very thick. Bracts villous at the end

23. B. Baueri.
Sect. 3. Eubanksia.—Leaves linear-lanceolate, oblong or cuneate, with recurved or revolute, entire or dentate margins, white underneath. Style at first curved, straight and very spreading or reflexed after the perianth-limb has opened, the stigmatic end small, not strate. Eastern or tropical species.
Leaves (mostly 1 to 2 in.) entire or rarely toothed, reticulate under-
   neath, without any or with few and irregular primary trans-
                                                                      . . 24. B. marginata.
primary veins underneath, usually numerous but not much more
   prominent than the reticulations and white like them . . . . 25. B. integrifolia.
Leaves (mostly 4 to 8 in.) broad, coarsely toothed, the transverse primary veins prominent underneath and not so white as the
   (B. latifolia, has nearly the flowers and style of Eubanksia, but flat leaves not white
underneath).
   SECT. 4. Orthostylis.—Leaves flat or undulate (irregularly in B. Caleyi and B.
coccinea), serrate, pinnatifid or pinnate, with short lobes or segments. Perianth usually straight. Style, after the perianth-limb has opened, curved upwards near the base, then straight and erect, the stigmatic end prominently angled and furrowed or
striate.
 Eastern species.
   Leaves 2 to 3 in. long, broad, irregularly toothed. Style end of
   Style-end cylindrical
      Style-end ovoid, very short .
   . 29. B. æmula.
 Perianth villous.
      Leaves 4 in. broad or more, very shortly sinuate, toothed.

Leaves 14 to 24 in. long, very broad, often cordate. Perianths, before opening, in double-straight rows alternating
         with double rows of styles
      Leaves under 1 in. broad, regularly serrate, the veins incon-
            spicuous underneath.
         Leaves 2 to 4 in. long. Spikes globular. Style-end small
           and slender
         Leaves 4 to 8 in. long. Spikes oblong. Style-end long,
                                                                             34. B. lævigata.
            with a thickened base .
      Leaves deeply and regularly serrate or lobed, the transverse
veins connivent in each lobe. Style end stipitate above
                                                                            . 35. B. Hookeriana.
           its thickened base.
         Leaf-lobes short and broad, not reaching halfway to the
        midrib .
Leaf-lobes triangular, acuminate, reaching more than half-
                                                                            . 36. B. prionotes.
                                                                             37. B. Victoria.
      Leaves pinnate with contiguous broad acute segments. Style
         Spikes oblong. Perianth-limb obtuse. Leaves often 1 ft.
        Spikes globular. Perianth-limb acute. Leaves under 6 in 38. B. speciesa.
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NIB

PROTEACEAE

Banksia dentata

Linn.

(Conchium, Sm.)

Flowers hermaphrodite. Perianth irregular or rarely regular, the tube revolute or curved under the limb or rarely straight, the limb globular or rarely ovoid, often oblique, the laminæ often cohering long after the tube has opened. Anthers all perfect, sessile in the base of the concave laminæ, the connective not produced beyond the cells. Hypogynous glands united in a single semiannular or semicircular rarely disk-shaped gland occupying the upper side of the torus, in some species very small. Ovary stipitate but usually very shortly so, with 2 amphitropous ovules laterally attached about the middle; style either long and protruding from the slit of the perianth before the summit is set free from the limb as in Grevillea, or not exceeding the perianth, more or less dilated at the end into a straight or oblique or lateral cone or disk, bearing the small stigma in the centre of the disk or at the summit of the cone. Fruit a hard usually woody capsule opening in 2 valves. Seeds 2, compressed and collateral, the testa produced at the upper end into a broad membranous wing usually longer than the nucleus and more or less decurrent down the upper or both margins and sometimes completely surrounding the nucleus, the nucleus itself flat and smooth on the inner face (next the other seed), convex on the outer face and usually rugose or muricate, the protuberances fitting into corresponding cavities in the valve; each seed with its wing sometimes covering the whole inner surface of the valve, more frequently placed near the upper margin and covering about half only or rather more, the remainder of the valve a hard woody mass.—Shrubs or rarely small trees. Leaves alternate, very diversified in shape, flat or terete, the margins rarely recurved and the two surfaces usually similar and equally veined. Flowers in pairs along the rhachis of a short and dense raceme or cluster or rarely in a longer raceme; the clusters or racemes sessile in the axils or rarely also terminal or in a very few species all terminal. Indumentum

as in Grevillea, consisting of closely appressed hairs attached by the centre, rarely of erect or spreading hairs.

centre, rarely of erect or spreading hairs.

The genus is limited to Australia. As will be perceived on comparing the above character with that of Grevillea, there is no one organ in which the two genera are absolutely distinct excepting the seed-wing, and even that, although essentially terminal in Hakea and annular when present in Grevillea, is exceptional in Hakea playsperma, for instance, where the wing is almost of equal breadth all round the nucleus; but even there the texture and venation of the wing is that of Hakea, not of Grevillea, and the two genera are with few exceptions so natural, that there are very few species that would not at once be referred to their right genus even without the fruit, especially as the wing of the seed can generally be traced in the ovule immediately after fecundation. The racemes are generally axillary and reduced to sessile clusters in Hakea, terminal and loose in Grevillea, but they are loose and elongated in the section Grevilleoides of Hakea, and terminal in H. ruscifolia and a few others; the inflorescence of Hakea. The so called involucres or imbricate bud scales enveloping the nascent inflorescences of Hakea, appear to be wanting in Grevillea, but they are loss enveloping the nascent inflorescences of Hakea, appear to be wanting in Grevillea, but they are also deficient in the section Grevilleoides of Hakea, and are always so deciduous as to be generally absent from flowering specimens. The same variations of form in the perianth occur in the two genera, but in Hakea the hairs or beard inside the tube of many Grevillea are always wanting and the ovary is always glabrous. Hakea has also the various modifications of the pistil of Grevillea, except the turgid style of the section Manglesia. The fruit is in general totally different in the two genera, and yet that of Grevillea gibbosa is certainly a near approach to that of Hakea platysperma.

The determination of the species of Hakea generally requires the presence both of flowers and fruit. Species, especially amongs

Sect. 1. Grevilleoides.—Flowers in oblong or cylindrical or rarely short racemes, without any involucre. Perianth much revolute. Etigmatic disk oblique or lateral, flat or broudly conical. Tropical or subtropical species.

Leaves terete, usually very long.
Racemes as well as the whole plant quite glabrous . . . 1. H. chordophylla. Racemes pubescent or villous.

Leaves mostly above 1 ft. long.

Perianth-tube 4 to 5 lines. Torus scarcely oblique 2. H. Cunninghamii. 3. H. lorca. Leaves slender, mostly about 1 ft. long. Racemes 1 to 2 in. Perianth-tube under 3 lines

Leaves flat, linear, usually long.
Seed-wing not at all or scarcely decurrent along the nucleus.
Racemes 3 to 6 in. long. Perianth villous, 5 to 6 lines

long Racemes under 1 in. long, pedunculate. Perianth silky, Seed-wing decurrent on both sides round the base of the nucleus Leaves flat, 3-nerved, oblong or lanceolate. Racemes glabious, about 2 in. long. Perianth 3 lines.

8. H. trineura. Sect. 2. Euhakea. - Racemes usually short or reduced to sessile clusters, enclosed before their development in an involucre or bud of imbricate scales. Perianth revolute,

5. H. macrocarpa. 6. H. arborescens.

7. H. stenophylla.

Senies 1. Oblique.—Perianth pubescent. Torus oblique, the ovary at the shortest margin, the remainder occupied by a large very concave advate gland. Leaves entire. Species all Western. Leaves flat, tapering at the base, obscurely several-nerved.

Leaves 4 to 8 in. long. Fruit curved with a broad, rather long, closely inflexed beak.

Leaves under 3 in. Fruit large and thick, nearly smooth, with a very small inflexed beak.

Leaves 2 to 4 in. long. Fruit very large and thick, covered with large conical tubercles

Leaves narrow, under 2 in. Fruit unknown

Leaves linear-terete. 9. H. cyclocarpa. 10. H. crassifolia. 11. H. pandanicarpa. Leaves linear-terete. Leaves erect, with short erect or curved points. Fruit rather large, very broad, with a small inflexed beak 13. H. adnata. Leaves spreading, pungent-pointed. Fruit twice as long as broad, with a short nearly straight beak 14. H. obliqua. Series 2. **Pubifioræ.**—Perianth pubescent. Torus straight or rarely oblique, the gland thick or semiannular. Leaves entire, toothed or divided. Leaves flat. Fruit-valves without dorsal appendages (except in the two doubtful species).

Leaves thick, tapering at the base, obscurely several-veined (unless very narrow). Western species. (unless very narrow). Western species.

Leaves (mostly 3 in. or more), oblong-spathulate or lanceolate, obtuse, entire. Fruit large and thick

Leaves (1 to 2 in.) oblong-linear or linear-lanceolate, entire.

Fruit large and thick

Leaves fan-shaped, toothed at the end.

Leaves fruncate at the toothed end. Perianth-tube narrow, under 3 lines long

Leaves rounded at the toothed end. Perianth-tube broad above 3 lines long. . 15. H. Hookeriana. . 16. H. incrassata. . 17. H. flabellifolia. 20. H. ceratophylla. Fruit-valves with dorsal appendages.

Leaves obovate-oblong (12 to 3 in.). Fruit above 2 in. Leaves obovate-oblong (1½ to 3 in.). Fruit above 2 in. long, 1½ in. broad

Leaves narrow-oblong (1 to 2 in.). Fruit ¾ in. long, under ½ in. broad

Leaves mixed linear-terete and flat, or some or all linear-terete and divided. Western species.

Leaves narrow-linear or rarely terete, entire or pinnate, grooved underneath. Fruit large, with a long straight beak

25. H. ortherrhyncha. Leaves some linear-terete and some linear and flat, all entire, not grooved. Perianth loosely villous. Fruit rather large, with a short inflexed beak. Leaves all or almost all terete and divided. Perianth villous. 26. H. Candolleana. Leaves mostly 1½ to 3 in., with 3 segments; a few often entire and flat. Stigmatic disk broad.

Leaves mostly 1 in. with 3 or 5 segments. Stigmatic disk oblong linear. 28. H. erinacea. Leaves all entire, linear-terete. Western species.

Leaves thick, 3 to 5 in long. Perianth above 4 lines.

Fruit globular, smooth, 1½ to 2 in diameter. Seeds winged all round . 29. H. platysperma . 31. H. Kippistiana. Leaves thick, short. Perianth 2 lines. Fruit narrow, twohorned. Seed-wing decurrent on one side 32. H. Preissii. Eastern species. Fruit-beak straight or obsolete. Fruit narrow, with an obliquely transverse crestlike rugose prominence below the beak
Fruit with a broad gibbous base and scarcely distinct
broad beak, without any crest
Fruit ovoid, nearly smooth, with a broad smooth dark
line down each suture . 33. H. pugioniformis. . 34. H. Pampliniana. Fruit recurved at the base, then incurved with an inflexed heak

at least under the limb. Stigmatic disk oblique or lateral, flat or slightly convex, without any cone (except in H. rugosa and H. rostrata).

Series 3. Glabrifloræ.—Perianth glabrous. Torus stratthe gland semiannular or none.	ight	or	slightly	oblique,
Leaves flat, 1-nerved or obscurely penniveined. Western species, except H. saligna. Leaves prickly-toothed or lobed, stem-clasping at the base. Leaves 4 to 8 in. long, gradually expanded at the base into large prickly-toothed auricles Leaves 1½ to 3 in., more or less obovate or oblong-cuneate, usually contracted near the base Leaves 1½ to 3 in., narrow, dilated at the end, with 3 to 5 prickly teeth or lobes, auriculate at the base Leaves distinctly petiolate, obovate, undulate and prickly-toothed Leaves linear-lanceolate, sessile, prickly-toothed or entire Leaves 3 to 4 in., oblong-cuneate, entire. Umbels axillary,	40. 41. 42. 43. 44. 45. 46.	H. H. H. H.	glabella auricula cristate linearis stenoca ruscifol saligna	ata. t. rpoides.
Leaves divided. Fruit scarcely horned. Seed-wing decurrent all round the nucleus. Style not twice as long as the perianth. Pedicels pubescent or hirsute, perianth alone glabrous. Branches densely villous. Fruit as broad as long, with	48.	Η.	purpure	ea.
a short incurved beak				
beak. Leaves slender	51. 52.	H. H.	nodosa. acicular	ris.
Flowers in sessile clusters. Leaves all terete. Fruit 1½ in. long and nearly as broad. Seed-wing decurrent all round the nucleus Leaves some terete and some flat. Fruit ½ in. long ¼ in. broad. Seed-wing not decurrent	54.	Н.	cyclopte	ra.
Leaves terete. Western species. Pedicels always glabrous. Leaves 3 to 5 in., rigid, thick, spreading or recurved. Perianth 3 lines long. Leaves \(\frac{3}{2} \) to 1\(\frac{1}{2} \) in. long, terete and smooth. Branches tomentose. Perianth 2 lines. Racemes or				
clusters mostly terminal. Seed-wing decurrent all round the nucleus Quite glabrous. Racemes or clusters mostly axillary. Perianth near 3 lines. Fruit about ½ in. long. Seed- wing decurrent on one side of the nucleus				
Perianth 2 lines. Fruit 11 to 2 in. long, very thick and broad. Seed-wing decurrent all round the nucleus				
Sect. 3. Conogynoides.—Racemes usually short or red rarely elongated, enclosed before their development in an involscales. Perianth glabrous, revolute under the limb. Stigmatoblique.	ucre	or	bud of i	mbricate
Series 1. Longistylæ.—Leaves flat, entire, oblong-lance at least twice as long as the perianth. Stigmatic cone long species, one a'so central.	and	or l no	narrou ırrow.	v. Style Western
Leaves (6 to 8 in.) very finely many-nerved. Racemes oblong, 1 to 3 in. long Leaves (4 to 6 in.) 3- or 5-nerved, often falcate, on long petioles. Racemes globular Leaves (under 3 in.) 3-nerved, sessile Leaves (4 to 7 in.) very thick, narrow, very prominently triplinerved, tapering at the base Leaves (under 3 in.) thick, 1-nerved, tapering to the base. Flower-clusters almost verticillate	60. 61. 62.	H. H.	cinerea	
Series 2. Petiolares.—Leaves broad, triplinerved and renent or obscure), tapering into a distinct petiole. Style not rianth. Western species.	twice	a 8	long a	s the pe-
Leaves prickly-toothed, prominently-veined	. 65	. H	. undula	ia.

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Leaves prominently veined. Perianth near 3 lines long.
           Fruit with a rather long straight beak.
        Leaves acuminate. Petiole long. Seed-wing decurrent on
                                                                                  66. H. petiolaris.
        both margins
Leaves scarcely acuminate. Petiole short. Seed-wing de-
     . 67. H. neurophylla.
                                                                               . 68. H. loranthifolia.
        with a short slightly curved beak . . . . . . .
     Series 3. Sessiles .- Leaves broad to oblong lanceolate, 3- or more nerved and re-
  ticulate, sessile or nearly so. Western species.
  Leaves (of the flowering stems) broadly orbicular-cordate, entire
 Leaves blong-elliptical to lanceolate, 3-nerved . . . . 72. H. elliptica. . . . . 73. H. ambigua.
     Series 4. Nervosæ.—Leaves lanceolate or linear, prominently 3- or more-nerved
  (rarely 2- or 1-nerved when very narrow), smooth between the nerves.
  Eastern species. Seed-wing decurrent on one side of the nucleus.
Leaves 4 to 6 in. long, falcate, 5- to 9-nerved. Perianth 2 lines
                                                                                . 74. H. plurinervia.
     Leaves lanceolate or linear-lanceolate, usually 3-nerved.
       Perianth 1 line long.

Leaves usually lanceolate, obtuse or acute, not pungent.

Pedicels silky-pubescent.

Leaves usually linear-lanceolate or linear, pungent-pointed.
                                                                                 75. H. dactyloides.
                                                                                . 76. H. ulicina.
           Pedicels glabrous
  Series 5. Uninerves.—Leaves narrow or small, flat, 1-nerved with nerve-like margins. Fruit-valves without dorsal appendages. Western species.
 Leaves linear, very thick and silky, 4 to 8 in. long . . . . 78. H. pycnoneura Leaves linear or lanceolate, 1½ to 4 in. long. Fruit 1 to 1½ in. long, 2 to 3 lines broad . . . . . . . . . . . . . . . . . 79. H. stenocarpa. Leaves lanceolate, ¾ to 1½ in. long. Fruit ¾ in. long, 3 to 4
                                                                              . 78. H. pycnoneura.
 Series 6. Enerves.—Leaves mostly flat, obscurely penniveined, the midrib not prominent, entire prickly toothed or lobed. Fruit-valves with dorsal horns or protuberances. Western species.
  Leaves oblong-lanceolate, quite entire or very rarely with 1 or
 Series 7. Teretifoliæ.—Leanes linear-terete entire, usually angular or striate (rarely a few flat ones intermixed). Fruit-valves without dorsal appendages. Western
 species except H. flexilis.
Leaves seleate, occasionally flat.

Fruit ovoid; beak straight. Flowers in close clusters . . 86. H. sulcata.

Fruit small, ovoid-globular, with an inflexed beak. Flowers
Sect. 4. Manglesioides.—Racemes short or reduced to sessile clusters, enclosed before their development in an involucre or hud of imbricate scales. Perianth glabrous, straight, the limb erect in the bud. Stigmatic cone erect. Western species.
Leaves obovate oblong or lanceolate, entire or prickly-toothed . 91. H. niti la. Leaves terete (under 2 in.), smooth, undivided, pungent-pointed 92. H. Oldfieldii. Leaves terete (3 to 4 in.), simply pinnate or also undivided,
                                                                                93. H. suaveolens.
Leaves terete (1 to 1½ in.), twice or simply pinnate with few
      segments.
   Rhachis of the clusters under 1 in. long. Fruits 1 to 3 in.
   H. carduicolia, Lodd., H. echinata, Mackay, H. Lamberti, Sweet, H. latifolia, Lodd., and H. subulata, Cunn., entered in Steud. Nom. Bot. ed. 2, are garden names without descriptions, belonging probably to some of the species here enumerated.

H. longifolia and H. tenuifolia, Dum. Cours. in Roem. and Schult. Syst. iii. 425, are also garden plants described only as to their foliage, and quite insufficiently for recognition
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Leaves quite entire.

**Western species. Ovary glabrous, the stipes articulate above the base. Leaves linear or linear-lanceolate, factate, 5 to 8 in long. 22. P. longifi lia. Leaves long-lance-lade, straight, 8 to 6 in long. 23. P. articulata, Leaves broadly ovate or elliptical, 14 to 3 in, long. 24. P. elliptica. Leaves broadly ovate or elliptical, 14 to 3 in, long. 25. P. described and the second of the se		Sect. 3. Amblyanthera.—Style elongated beyond the anther cells, with a terminal stigma. Connective of the anthers not produced beyond the cells.
Leaves Index or linear-lanceolate, falcate, 5 to 8 in. long		* Western species. Ovary glabrous, the stipes articulate above the base. Leaves
Ovary villous (rarely almost glabrous in P. media). Leaves glabrous, dat, ovats, obovate, elliptical or broadly lanceolate. Perianth pubescent with appressed hairs. Perianth pubescent with appressed hairs. Leaves mostly lanceolate. Perianth-segments without points of the property o		Leaves linear or linear-lanceolate, falcate, 5 to 8 in. long
Leaves mostly lander, spreading 4 in the spread to the spr		Ovary villous (rarely almost glabrous in <i>P. media</i>). Leaves glabrous, flat, ovate, obovate, elliptical or broadly lan-
Leaves mostly obovate. Perianth-segments tipped with Leaves mostly obovate. Perianth-segments tipped with Leaves pubescent or silky-villous, flat or with recurved margins, from lanceolate to obovate. Leaves mostly obovate or oblong-spathulate 29. P. sericea. Leaves mostly harvow 30. P. Midohellii. Leaves sarrow-linear, spreading, incurved, \(\frac{1}{2}\) to \(\frac{1}{2}\) in long Leaves mostly harvow 30. P. Midohellii. Leaves sarrow-linear, spreading, incurved, \(\frac{1}{2}\) to \(\frac{1}{2}\) in long 31. P. fastigiata. 32. P. hirsuta. Leaves smooth, linear-subulate, with recurved margins, about \(\frac{1}{2}\) in Leaves smooth, linear-subulate, with recurved margins, about \(\frac{1}{2}\) in Leaves smooth, linear-subulate, with recurved margins, about \(\frac{1}{2}\) in Leaves smooth, linear-subulate, with recurved margins, about \(\frac{1}{2}\) in long. Perianth 8 or 9 linea long (6 lines or under in all the following species) Leaves mostly falcet, 4 to 8 in. long. Pedicels 2 to 4 lines long. Stems prostrate or trailing. Leaves usually short and broad. Pedicels short Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly lanceolate or elliptical. Pedicels very short. Flowers solitary or rarely 2 together Flowers in axillary short racenes or clusters of 6 to 10. 38. P. confertiflora. (See also 28. P. media). Leaves linear, often very narrow. Flowers axillary. Ovary Leaves filiform. Flowers in dense racemes with short floral leaves. Ovary Jouvalee Ovary glabrous. Flowers erect on very short pedicels. Leaves with recurved margins or sometimes flat, unanaly obtuses, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth-segments tipped with subu- late points. Leaves form ob-vate-oblong to oblong-lanceolate, very obluse. 40. P. delival. Perianth about 5 lines long. Leaves narrow-linear oblong to oblong-lanceolate, very obluse. 45. P. Gunnii. Ovary glabrous. Flowers erect, almost sessific. Leaves with nouth r		Perianth pubescent with appressed hairs. Leaves mostly lanceolate. Perianth-segments tipped with
Leaves mostly obovate. Perianth-segments tipped with dorsal points Leaves pubescent or siky-villous, flat or with recurved margins, from lanceolate to obovate. Leaves mostly obovate or oblong-spathulate 29. P. sericca. 30. P. Mitchellii. Leaves cabrous or hispid, with revolute margins. Leaves cabrous or hispid, with revolute margins. Leaves mottly flowers erect. Leaves flat, veined, mostly about 14 in. long Ovary glabrous. Flowers erect. Leaves flat, veined, mostly about 14 in. elliptical, flateate, lanceolate or linear, usually glabrous. Perianth 8 or 9 lines long (6 lines or under in all the following species) Leaves mostly falcate, 4 to 8 in. long. Pedicels 2 to 4 lines long. Stems prostrate or trailing. Leaves usually short and broad. Pedicels short. Stems erect. Leaves rarely above 4 in. when narrow, always are short and the prostrate or trailing. Leaves usually short and broad. Leaves when broad. Leaves in axillary short accemes or clusters of 6 to 10. 88. P. confertifiora. (See also 28. P. media). Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves oblong linear. Perianth-segments tipped with subulate points. Leaves oblong linear. Perianth-segments tipped with subulate points. Leaves hard of lines long. Leaves linear, often and the proper leaves, silky underentalh, not exceeding 2 in. Perianth about 5 lines long. Leaves linear, often proper leaves, silky undereneath. Leaves spathulate or linear-spathulate. Perianth pluses. Leaves practing, smooth above, lanceolate or linear-lancoulate, 14 to 24 in. long. Leaves incurved, excibious short, flat (4 to 1 in.). Perianth pluses. Leaves practing of the proper linear lanceolat		Leaves mostly elliptical. Perianth-segments without
Leaves mostly obvased to to obvate. Leaves mostly obvase or oblong-spathulate Leaves abround hirear, spreading, incurved, \$\frac{1}{2}\$ to \$1\frac{1}{2}\$ in. long 31. P. fastiglata. Leaves smooth, hearistbulate, with recurved margins, about \$\frac{1}{4}\$ in. long Ovary glabrous. Flowers erect. Leaves flat, veined, mostly about \$1\frac{1}{4}\$ in. long Ovary glabrous. Perianth 8 or 9 lines long (6 lines or under in all the following species) Leaves mostly falcate, 4 to 8 in. long. Pedicels 2 to 4 lines long. Stems prostrate or trailing. Leaves usually short and broad. Pedicels short. Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly hanceolate or elliptical. Pedicels very short. Flowers solitary or rarely 2 together Flowers in axillary short racemes or clusters of 6 to 10. 38. P. confertifiora. (See also 26. P. media). Leaves linear-lanceolate, acute, rather long. Pedicels 1 to 3 lines long. Leaves linear, often very narrow. Flowers axillary. Ovary 2-voulate Leaves (Ovary Lovulate) Leaves (Ovary Lovulate) Leaves obtong-linear. Perianth-segments without points. Leaves obtong-linear. Perianth-segments without points. Leaves obtong-linear. Perianth-segments without points. Leaves spreading, incurved, paring or sometimes flat, usually obtuse, veinless, glabrous. Flowers erect, almost sessile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves hird to \$\frac{2}{2}\$ in the proper leaves mostly with a few hairs in P. oblongata. \$\frac{2}{2}\$ P. Calryi. 20 vary glabrous. Flowers erect, almost sessile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves hird to \$\frac{2}{2}\$ in long. Leaves ovate-lanceolate, under 1 in. Pedicels 1 to 4 lines long. Perianth glabrous, without points. Leaves		Leaves mostly obovate. Perianth-segments tipped with
Leaves mostly obovate or oblong-spathulate Leaves seabrous or hispid, with revolute margins. Leaves scabrous or hispid, with revolute margins. Leaves scabrous or hispid, with revolute margins, about Leaves smooth, linear-subulate, with recurved margins, about in long Vary glabrous. Persanth 8 or 9 lines long (6 lines or under in all the following species) Leaves mostly falcate, 4 to 8 in. long. Pedicels 2 to 4 lines long Stems prostrate or trailing. Leaves usually short and broad. Pedicels short Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly lanceolate or elliptical. Pedicels short Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly lanceolate or elliptical. Pedicels short Flowers solitary or rarely 2 together Flowers solitary or rarely 2 together Flowers in axiliary short racemes or clusters of 6 to 10. 38. P. confertifiora. (See also 26 P. medic). Leaves linear, often very narrow. Flowers axiliary. Ovary Leaves filiform. Flowers in ense racemes with short floral leaves. Ovary Lovulate Ovary glabrous. Flowers erect on very short pedicels. Leaves with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky undermeath, not exceeding 2 in. Perianth about 5 lines long. Leaves from ob vate-oblong to oblong-lanceolate, very obtuse 45. P. Gunnii. Ovary glabrous. Flowers erect almost sessile. Leaves with much recurved margins or sometimes flat, usually obtuse. Perianth about 5 lines long. Leaves flat to exceeding 2 in. Perianth about 9 lines long. Leaves flat to exceed the 4 to 2 in. long. Perianth about 9 lines long. Leaves flat to exceeding 2 in. Perianth about 9 lines long. Leaves flat (applied to the perianth should be perianth segments without points 44. P. rev. lata. Perianth about 9 lines long. Leaves flat (applied to the perianth should be perianth segments without points 44. P. rev. lata. Perianth about 9 lines long. Leaves flat or with recurved margins, the midrib compsicuous, under 14 in. long. Le		Leaves pubescent or silky-villous, flat or with recurved mar-
Leaves narow-inear, spreading, incurved, \$\frac{1}{2}\$ to \$\frac{1}{4}\$ in. long \$3.\$ \$P. hirstata.\$ Leaves smooth, linear-subulate, with recurved margins, about \$\frac{1}{4}\$ in. long \$3.\$ \$P. kirstata.\$ Vary glabrous. Flowers erect. Leaves flat, veined, mostly about \$1\$ \frac{1}{4}\$ in., elliptical, falcate, lanceolate or linear, usually glabrous. Perianth \$\frac{3}{2}\$ or \$9\$ lines long (\$6\$ lines or under in all the following species) \$3.\$ \$P. salicina.\$ Perianth \$6\$ or \$9\$ lines long (\$6\$ lines or under in all the following species) \$3.\$ \$P. salicina.\$ Stems prostrate or trailing. Leaves usually short and broad. Pedicels short \$3.\$ \$P. salicina.\$ Stems prostrate or trailing. Leaves usually short and broad. Pedicels short \$3.\$ \$P. prostrata.\$ Stems erect. Leaves rarely above \$4\$ in. when narrow, always shorter when broad. Leaves mostly lanceolate or elliptical. Pedicels very short. Flowers solitary or rarely \$2\$ together \$3.\$ \$P. tonefertiflora.\$ (See also \$2.6\$ \$P. medica). Leaves linear, often very narrow. Flowers axillary. Ovary \$2.\$ ovulate \$3.\$ \$P. confertiflora.\$ (See also \$2.6\$ \$P. medica). Leaves linear, often very narrow. Flowers axillary. Ovary \$2.\$ ovulate \$4.\$ \$P. tonizaria.\$ Leaves splintoms of sulky underneath, not exceeding \$2\$ in. Perianth about \$2\$ lines long. Leaves narrow-linear. Perianth segments tipped with subulate points and sull sull segments and sull segments and sull segments and sull segments and sullenges and sull segments and sullenges and		Leaves mostly obovate or oblong-spathulate 29 P series
Ovary glabrous. Flowers erect. Leaves flat, veined, mostly about 1½ in, elliptical, falcate, lanceclate or linear, usually glabrous. Perianth 8 or 9 lines long (6 lines or under in all the fellowing species) Leaves mostly falcate, 4 to 8 in. long. Pedicels 2 to 4 lines long Stems prostrate or trailing. Leaves usually short and broad. Pedicels short. Stems prostrate or trailing. Leaves usually short and broad. Pedicels short. Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly lanceclate or elliptical. Pedicels very short. Flowers solitary or rarely 2 together. Flowers solitary or rarely 2 together. Flowers solitary or rarely 2 together. Flowers in axillary short racemes or clusters of 6 to 10. 38. P. conjectifiora. (See also 26, P. medic). Leaves linear, often very narrow. Flowers axillary. Ovary 2-voulate. Leaves flifform. Flowers in dense racemes with short floral leaves. Ovary 1-ovulate. Ovary glabrous. Flowers erect on very short pedicels. Leaves with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth-segments tipped with subulate points. Leaves flow ob-vate-oblong to oblong-lanceolate, very obtuse 44. P. resc. luta. Perianth about 9 lines long. Leaves flat, thick, very obtuse 45. P. Gunnii. Ovary glabrous. Flowers erect, almost eessile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 14 to 2½ in. long. Leaves narrow-linear Perianth pubescent ovary glabrous (rarely with a few hairs in P. oblongata). Flowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 1½ in. long. Leaves ovate, flat (½ to 1 in.). Perianth glabrous, with long points to the segments. Leaves broad or lanceolate, under 1 in. Pedicels 1 to 4 lines broad above or nearly flat without any prominent midrib. Leaves mostly 1		Leaves narrow-linear, spreading, incurved, \(\frac{1}{4} \) in long 31. P. fastigiata. Leaves oblong, rarely exceeding \(\frac{1}{4} \) in. Leaves smooth, linear-subulate, with recurved margins, about
Perianth 8 or 9 lines long (6 lines or under in all the fellowing species) Leaves mostly falcate, 4 to 8 in. long. Pedicels 2 to 4 lines long Stems prostrate or trailing. Leaves usually short and broad. Redicels short Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly lanceolate or elliptical. Pedicels very short. Flowers solitary or rarely 2 together Flowers in axillary short racenes or clusters of 6 to 10 38. P. confertiflora. (See also 26. P. media). Leaves linear, lonecolate, acute, rather long. Pedicels 1 to 3 lines long Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves Gilform. Flowers in dense racemes with short floral leaves. Ovary 1-ovulate Ovary glabrous. Flowers erect on very short pedicels. Leaves with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth-segments without points 42. P. Calryi. Leaves bolong-linear. Perianth-segments without points 43. P. leitjoilia. Leaves from 6b vate-oblong to oblong-lanceolate, very obtuse 44. P. res. luta. Perianth about 9 lines long. Leaves flat, thick, very obtuse 44. P. res. luta. Perianth about 9 lines long. Leaves flat, thick, very obtuse 44. P. Rev. luta. Perianth about 9 lines long. Leaves flat, thick, very obtuse 44. P. Rev. luta. Perianth about 9 lines long. Leaves flat, thick, very obtuse 44. P. Rev. luta. Perianth about 9 lines long. Leaves flat, thick, very obtuse 45. P. Gunnii. Ovary glabrous, Flowers erect, almost sessile. Leaves with mach recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, \$to 14 in. long. Leaves narrow-linear. Perianth pubescent Ovary glabrous for respective the with recurved margins, the midrib conspicuous, under 14 in. long. Leaves narrow-linear. Perianth segments swithout points 5. 10. P. curninghamii. Leaves broad or lanceolate (1 to 14 in.). Pedicels about \$		Ovary glabrous. Flowers erect. Leaves flat, veined, mostly about 1½ in., elliptical, falcate, lanceolate or linear, usually
Leaves mostly falcate, 4 to 8 in. long. Pedicels 2 to 4 lines long Stems prostrate or trailing. Leaves usually short and broad. Pedicels short Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly lanceolate or elliptical. Pedicels very short. Flowers solitary or rarely 2 together. Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly lanceolate or elliptical. Pedicels very short. Flowers in axillary short racemes or clusters of 6 to 10 .38. P. confertiflora. (See also 26. P. media). Leaves linear lanceolate, acute, rather long. Pedicels 1 to 3 lines long. Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves filiform. Flowers in dense racemes with short floral leaves. Ovary 1-ovulate Ovary glabrous. Flowers erect on very short pedicels. Leaves with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth segments without points. Leaves oblong-linear. Perianth segments without points. Leaves from ob-vate-oblong to oblong-lanceolate, very obtuse. 45. P. Gunnii. Ovary glabrous. Flowers erect, almost esselle. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky unlerneath. Leaves sprakting, smooth above, lanceolate or linear-lanceolate, 1½ to 2½ in. long. Leaves narrow-linear. Perianth pubescent Plowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 1½ in. long. Leaves ovate-lanceolate (1 to 1½ in.). Pedicels 1 to 4 lines long. Leaves ovate, flat (½ to 1 in.). Perianth glabrous, without points Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines). Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines). Leaves narrow-linear (broad or narrow), concave or reproved above or nearly flat without points Leaves narrow-linear or subulate, pungent-pointed. Leaves narrow-linear or subulate, pungent-pointed. Leaves narrow-linear or subul		Perianth 8 or 9 lines long (6 lines or under in all the follow-
Stems prostrate or trailing. Leaves usually short and broad. Pedicels short. Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad. Leaves mostly lanceolate or elliptical. Pedicels very short. Flowers in axillary short racemes or clusters of 6 to 10 38. P. confertiflora. (See also 26. P. media). Leaves linear lanceolate, acute, rather long. Pedicels 1 to 3 lines long. Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves fliiform. Flowers in dense racemes with short floral leaves. Ovary 1-ovulate verificates with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth segments tipped with subulate points. Leaves from ob-vate-oblong to oblong-lanceolate, very obtuse 44. P. reactural. Leaves from ob-vate-oblong to oblong-lanceolate, very obtuse 44. P. reactural. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1 to 2 in. long. Leaves narrow-linear. Perianth pubescent 48. P. carvifolia. Leaves particulare or linear-spathalate. Perianth villous 47. P. rigida. Leaves particulare or linear-spathalate. Perianth villous 47. P. rigida. Leaves narrow-linear. Perianth pubescent 48. P. carvifolia. Ovary glabrous (rarely with a few hairs in P. oblongate). Flowers spreading or nodding. Leaves flat to 4 lines long. Leaves ovate, flat (½ to 1 in.). Periceles about ½ in. long. Perianth glabrous, without points 49. P. oblongata. Leaves ovate, flat (½ to 1 in.). Perianth glabrous, with moderate points 59. P. ovayorocoides. Leaves narrow-linear or subulate (3 to 6 lines). Perianth glabrous without points 59. P. ovayorocoides. Leaves narow-linear or linear-lanceolate, 1 to 1 to 2 lines broad. Pedicels short and thick 54. P. angulata. Leaves narow-linear or linear-lanceolate, 150. P. virgata. Leaves narow-linear or linear-lanceolate, 150. P. virgata. Leaves narow-linear or linear-lanceolate, 550. P. virgata. Leaves narow-linear or linear-lanceolate, 551. P. i		Leaves mostly falcate, 4 to 8 in. long. Pedicels 2 to 4 lines
Leaves mostly lanceolate or elliptical. Pedicels very short. Flowers in axillary short racemes or clusters of 6 to 10 38. P. confertiflora. (See also 26. P. media). Leaves linear lanceolate, acute, rather long. Pedicels 1 to 3 lines long. Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate		Stems prostrate or trailing. Leaves usually short and broad
Leaves mostly lanceolate or elliptical. Pedicels very short. Flowers oil tarry or rarely 2 together. Flowers in axillary short racemes or clusters of 6 to 10. 38. P. conjertiflora. (See also 26. P. media). Leaves linear-lanceolate, acute, rather long. Pedicels 1 to 3 lines long. Leaves linear-lanceolate, acute, rather long. Pedicels 1 to 3 lines long. Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves flifform. Flowers in dense racemes with short floral leaves. Ovary 1-ovulate overy short pedicels. Leaves with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth-segments tipped with subulate points. Leaves should linear. Perianth-segments without points. Leaves oblong-linear. Perianth segments without points. Leaves oblong-linear. Perianth segments without points. Leaves mob-vate-oblong to oblong-lanceolate, very obtuse. Ovary glabrous. Flowers erect, almost sessile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1½ to 2½ in. long. Leaves spathulate or linear-spathulate. Perianth villous. 47. P. rigida. Leaves spathulate or linear-spathulate. Perianth villous. 47. P. rigida. Vary glabrous (rarely with a few hairs in P. oblongata). Flowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 1½ in. long. Leaves ovate-lanceolate (1 to 1½ in.). Pedicels about ½ in. long. Perianth glabrous, without points. Leaves ovate, flat (½ to 1 in.). Perianth glabrous, with long points to the segments. Leaves ovate, of 3 lines; to lanceolate (3 to 6 lines). Perianth glabrous, without points. Leaves ancrow-linear. Perianth segments without pointed. Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines). Perianth glabrous, without points. Leaves narrow-linear or inhear-lanceolate, 1½ to 2 lines broad. Pedicels short and thick Leaves nar		Stems erect. Leaves rarely above 4 in. when narrow, always shorter when broad
(See also 26. P. media). Leaves linear-lanceolate, acute, rather long. Pedicels 1 to 3 lines long. Leaves linear, often very narrow. Flowers axillary. Ovary 2-ovulate Leaves liliform. Flowers in dense racemes with short floral leaves. Ovary 1-ovulate Leaves diphorous. Flowers erect on very short pedicels. Leaves with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth-segments tipped with subulate points. Leaves oblong-linear. Perianth segments without points. 43. P. leatylia. Leaves from ob vate-oblong to oblong-lanceolate, very obtuse. 44. P. rev. luta. Perianth about 9 lines long. Leaves flat, thick, very obtuse. 45. P. Gunnii. Ovary glabrous. Flowers erect, almost sessile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 14 to 24 in. long. Leaves spathulate or linear-spathulate. Perianth villous. 46. P. mollis. Leaves spathulate or linear-spathulate. Perianth villous. 47. P. rigida. Leaves spathulate or linear-spathulate. Perianth villous. 48. P. curvifolia. Ovary glabrous (rarely with a few hairs in P. oblongata). Flowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 14 in. long. Leaves ovate, flat (4 to 1 in.). Pedicels about \(\frac{1}{2}\) in. long. Perianth glabrous, without points. 49. P. oblongata. Leaves broad or lanceolate (1 to 1\(\frac{1}{2}\) in.). Pedicels about \(\frac{1}{2}\) in. long. Leaves flat (\(\frac{1}{2}\) to 1 \(\frac{1}{2}\) in.). Perianth plabrous, with noderate ponts. 49. P. ovyorocoides. Leaves anrow-linear. 49. In account of the segments. 50. P. Cunninghamii. Leaves dave (2 to 3 lines) to lanceolate (3 to 6 lines). Perianth glabrous, without points. 52. P. ovyorocoides. Leaves marrow-linear or ilinear-lanceolate, 1\(\frac{1}{2}\) to 1\(\frac{1}{2}\) in. long. Leaves ovate (2 to 3 lines) to lanceo		Leaves mostly lanceolate or elliptical. Pedicels very short.
Leaves linear-lanceolate, acute, rather long. Pedicels 1 to 3 lines long 1		Flowers in axiliary short racemes or clusters of 6 to 10. 38. P. confertiflora.
Leaves filiform. Flowers in dense racemes with short floral leaves. Ovary 1-ovulate Ovary glabrous. Flowers erect on very short pedicels. Leaves with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth-segments tipped with subulate points. Leaves oblong-linear. Perianth-segments without points. Leaves oblong-linear. Perianth segments without points. Leaves from ob-vate-oblong to oblong-lanceolate, very obtuse. 44. P. rew luta. Leaves promober and thick very obtuse. 45. P. Gunnii. Ovary glabrous. Flowers erect, almost seasile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1½ to 2½ in. long. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1½ to 2½ in. long. Leaves spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 14 in. long. Leaves narrow-linear. Perianth pubescent. Ovary glabrous (rarely with a few hairs in P. oblongata). Flowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 14 in. long. Leaves ovate-lanceolate (1 to 1½ in.). Pedicels about ½ in. long. Perianth glabrous, without points Leaves ovate (2 to 3 lines) to lanceolate of the lines long. Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines). Leaves narrow-linear Ovary glabrous Leaves linear (broad or narrow), concave or grooved above or nearly flat without any prominent midrib. Leaves mostly 1 to 1½ in. long. Leaves mostly 1 to 1½ in. long. Leaves narrow-linear or linear-lanceolate, 1½ to 2 lines broad. Pedicels short and thick Leaves narrow-linear or linear-lanceolate, 1½ to 2 lines broad. Pedicels short and thick Leaves narrow-linear or linear-lanceolate, 250. P. chamzepeuce. Leaves marrow-linear or linear-lanceolate, 250. P. chamzepeuce. Leaves marrow-linear or linear-lanceolate, 250. P. chamzepe		Leaves linear lanceolate, acute, rather long. Pedicels 1 to
Leaves inform. Flowers in dense racemes with short floral leaves. Ovary 1-ovulate		
with recurved margins or sometimes flat, usually obtuse, veinless, glabrous or silky underneath, not exceeding 2 in. Perianth about 5 lines long. Leaves narrow-linear. Perianth-segments tipped with subulate points Leaves oblong-linear. Perianth-segments without points Leaves oblong-linear. Perianth-segments without points Leaves oblong-linear. Perianth-segments without points Leaves from ob-vate-oblong to oblong-lanceolate, very obtuse Perianth about 9 lines long. Leaves flat, thick, very obtuse Perianth about 9 lines long. Leaves flat, thick, very obtuse Perianth about 9 lines long. Leaves flat, thick, very obtuse Perianth about 9 lines long. Leaves flat, thick, very obtuse Perianth about 9 lines long. Leaves flat, thick, very obtuse Perianth about 9 lines long. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1½ to 2½ in. long. Leaves spathulate or linear-spathulate. Perianth villous Perianth about 9 lines long. Leaves flat or with recurved margins, the midrib conspicuous, under 1½ in. long. Leaves ovate-lanceolate (1 to 1½ in.). Pedicels about ½ in. long. Perianth glabrous, without points Leaves broad or lanceolate, under 1 in. Pedicels 1 to 4 lines long. Leaves ovate, flat (½ to 1 in.). Perianth glabrous, with long points to the segments Leaves ovate, flat (½ to 1 lines) to hanceolate (3 to 6 lines). Perianth glabrous, without points Leaves ovate (2 to 3 lines) to hanceolate (3 to 6 lines). Perianth glabrous, without points Leaves narrow-linear Leaves linear (broad or narrow), concave or grooved above or nearly flat without any prominent midrib. Leaves mostly 1 to 1½ in. long. Leaves mostly 1 to 1½ in. long. Leaves mostly ½ to ¾ in. long. Leaves narrow-linear or linear-lanceolate, 1½ to 2 lines broad. Pedicels short and thick Leaves narrow-linear. Pedicels slender Pedicels short and thick Pedicels slender Pedicels short and thick Pedicels slender Pedicels slender Pedice		Leaves filterm. Flowers in dense racemes with short floral
Leaves narrow-linear. Perianth-segments tipped with subulate points . 42. P. Calryi. Leaves oblong-linear. Perianth segments without points . 43. P. leavipolia. Leaves from ob-vate-oblong to oblong-lanceolate, very obtuse . 44. P. rev. luta. Perianth about 9 lines long. Leaves flat, thick, very obtuse . 45. P. Gunnii. Ovary glabrous. Flowers erect, almost sessile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1½ to 2½ in. long		Ovary glabrons. Flowers erect on very short pedicels. Leaves with recurved margins or sometimes flat, usually obtuse, veinless, glabrons or silky undergrath, not exceeding 2 in
Perianth about 9 lines long. Leaves flat, thick, very obtuse 44. P. reve lula. Perianth about 9 lines long. Leaves flat, thick, very obtuse 45. P. Gunnii. Ovary glabrous. Flowers erect, almost sessile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1½ to 2½ in. long. Leaves incurved, scabrous above, ½ to 1½ in. long. Leaves pathulate or linear-spathulate. Perianth villous 47. P. rigida. Leaves pathulate or linear-spathulate. Perianth villous 48. P. curvifolia. Ovary glabrous (rarely with a few hairs in P. oblongata). Flowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 1½ in. long. Leaves ovate-lanceolate (1 to 1½ in.). Pedicels about ½ in. long. Perianth glabrous, without points 49. P. oblongata. Leaves broad or lanceolate, under 1 in. Pedicels 1 to 4 lines long. Leaves ovate, flat (½ to 1 in.). Perianth glabrous, with long points to the segments 50. P. Cunninghamii. Leaves lanceolate to almost ovate, flat (½ to 1 in.) Perianth pubescent, with moderate points 51. P. myrtilloides. Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines). Perianth glabrous, without points 52. P. oxycoccoides. Leaves narrow-linear 53. P. nutans. Ovary glabrous Leaves linear (broad or narrow), concave or grooved above or nearly flat without any prominent midrib. Leaves mostly 1 to 1½ in. long. Leaves oblong-linear or linear-lanceolate, 1½ to 2 lines broad. Pedicels short and thick 54. P. angulata. Leaves narrow-linear, not pungent. Ovary 1-ovulate 56. P. chamæpeuce. Leaves filiform, not pungent. Ovary 2-ovulate. Perianth-segments without pointe.		Leaves narrow-linear. Perianth-segments tipped with subn-
Ovary glabrous. Flowers erect, almost sessile. Leaves with much recurved or revolute margins, narrow, acute, nerveless, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1\(\frac{1}{2}\) to 2\(\frac{1}{2}\) in long. Leaves spathulate or linear-spathulate. Perianth villous 47. P. rigida. Leaves spathulate or linear-spathulate. Perianth villous 47. P. rigida. Leaves narrow-linear. Perianth pubescent 0-blongata). Flowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 1\(\frac{1}{2}\) in. long. Leaves ovate-lanceolate (1 to 1\(\frac{1}{2}\) in.). Pedicels about \(\frac{1}{2}\) in. Leaves broad or lanceolate, under 1 in. Pedicels 1 to 4 lines long. Leaves ovate, flat (\(\frac{1}{2}\) to 1 in.). Perianth glabrous, with loug points to the segments 50. P. Cunninghamii. Leaves lanceolate to almost ovate, flat (\(\frac{1}{2}\) to 1 in.) Perianth pubescent, with moderate points 51. P. myrtilloides. Leaves ovate, with moderate points 52. P. oxycoccoides. Leaves narrow-linear 53. P. nutans. Ovary glabrous Leaves linear (broad or narrow), concave or grooved above or nearly flat without any prominent midrib. Leaves mostly 1 to 1\(\frac{1}{2}\) in. long. Leaves narrow-linear or linear-lanceolate, 1\(\frac{1}{2}\) to 2 lines broad. Pedicels short and thick 54. P. angulata. Leaves narrow-linear. Pedicels slender 55. P. virgata. Leaves narrow-linear or subulate, pungent-pointed 57. P. juniperina. Covary 2-ovulate. Perianth-segments without points 55.		Leaves oblong-linear. Perianth segments without points . 43. P. Catry. Leaves from the rate oblong to oblong horseless without points . 43. P. leatifolia.
less, silky underneath. Leaves spreading, smooth above, lanceolate or linear-lanceolate, 1\(\frac{1}{2}\) to 2\(\frac{1}{2}\) in. long. Leaves incurved, scabrous above, \(\frac{3}{4}\) to 1\(\frac{1}{2}\) in. long. Leaves spathulate or linear-spathulate. Perianth villous 47. P. rigidz. Leaves narrow-linear. Perianth pubescent 48. P. curvifolia. Ovary glabrous (rarely with a few hairs in P. oblongata). Flowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 1\(\frac{1}{2}\) in. long. Leaves ovate-lanceolate (1 to 1\(\frac{1}{2}\) in.). Pedicels about \(\frac{1}{2}\) in. long. Leaves ovate-lanceolate, under 1 in. Pedicels 1 to 4 lines long. Leaves ovate, flat (\(\frac{1}{2}\) to 1 in.). Perianth glabrous, with long points to the segments 50. P. Cunninghamii. Leaves lanceolate to almost ovate, flat (\(\frac{1}{2}\) to 1 in.) Perianth pubescent, with moderate points 50. Perianth pubescent, with moderate points 50. Perianth glabrous, without points 50. Perianth glabrous Leaves linear (broad or narrow), concave or grooved above or nearly flat without any prominent midrib. Leaves mostly 1 to 1\(\frac{1}{2}\) in. long. Leaves mostly 1 to 1\(\frac{1}{2}\) in. long. Leaves narrow-linear or linear-lanceolate, 1\(\frac{1}{2}\) to 2 lines broad. Pedicels short and thick 54. P. angulata. Leaves narrow-linear. Pedicels slender 55. P. chamæpeuce. Leaves narrow-linear, not pungent. Ovary 1-ovulate 56. P. chamæpeuce. Leaves narrow-linear or subulate, pungent-pointed 57. P. juniperina. Ovary 2-ovulate. Perianth-segments without points.		Peranth about 9 lines long. Leaves flat, thick, very obtuse . 45. P. Gunnii.
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Leaves narrow-linear. Perianth pubescent		late, 14 to 24 in. long
Flowers spreading or nodding. Leaves flat or with recurved margins, the midrib conspicuous, under 1½ in. long. Leaves ovate-lanceolate (1 to 1½ in.) Pedicels about ½ in. long. Perianth glabrous, without points		Leaves spatialize or linear spathulate. Perianth villous . 47. P. rigida.
Leaves ovate-lanceolate (1 to 1½ in.) Pedicels about ½ in. long. Perianth glabrous, without points	į	Ovary giabrons (rarely with a few hoirs in P oblangate)
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Leaves ovate, flat (½ to 1 in.). Perianth glabrous, with long points to the segments		long. Perianth glabrous, without points
Leaves lanceolate to almost ovate, flat (\frac{1}{2}\) to 1 in.) Perianth pubescent, with moderate points Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines). Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines). Perianth glabrous, without points Leaves narrow-linear Ovary glabrous Leaves linear (broad or narrow), concave or grooved above or nearly flat without any prominent midrib. Leaves mostly 1 to 1\frac{1}{2}\) in. long. Leaves oblong-linear or linear-lanceolate, 1\frac{1}{2}\) to 2 lines broad. Pedicels short and thick Leaves narrow-linear. Pedicels slender Leaves mostly \frac{1}{2}\) to \frac{2}{3}\) in. long. Leaves narrow-linear, not pungent. Leaves narrow-linear or subulate, pungent-pointed Leaves filiform, not pungent. Ovary 2-ovulate. Perianth-segments without points 50. P. Cunninghamii. 51. P. myrtilloides. 52. P. oxycoccoides. 53. P. nutans. 54. P. angulata. 55. P. virgata. 56. P. chamæpeuce. 57. P. juniperina.		Leaves ovate, flat (1 to 1 in) Parienth clahrons -: 1
Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines). Leaves narrow-linear Ovary glabrous Leaves linear (broad or narrow), concave or grooved above or nearly flat without any prominent midrib. Leaves mostly 1 to 1½ in. long. Leaves oblong-linear or linear-lanceolate, 1½ to 2 lines broad. Pedicels short and thick Leaves mostly ½ to ¾ in. long. Leaves mostly ½ to ¾ in. long. Leaves narrow-linear. Pedicels slender Leaves narrow-linear, not pungent. Ovary 2-ovulate. So. P. chamæpeuce. Leaves filiform, not pungent. Ovary 2-ovulate. Ovary 2-ovulate. Perianth-segments without points.		Leaves lanceolate to almost ovate, flat (\frac{1}{2} to 1 in) Periorth
Leaves mostly \(\frac{1}{2} \) in long. Leaves narrow-linear, not pungent. Ovary 1-ovulate \(\frac{56}{57} \) P. chamæpeuce. Leaves narrow-linear or subulate, pungent-pointed \(\frac{57}{2} \) P. juniperina. Ovary 2-ovulate. Perianth-segments without points.		Leaves ovate (2 to 3 lines) to lanceolate (3 to 6 lines) Pa
grooved above or nearly flat without any prominent midrib. Leaves mostly 1 to 1½ in. long. Leaves oblong-linear or linear-lanceolate, 1½ to 2 lines broad. Pedicels short and thick		Leaves narrow-linear
Leaves oblong-linear or linear-lanceolate, 1½ to 2 lines broad. Pedicels short and thick		grooved above or nearly flat without any prominent mid- rib.
Leaves narrow-linear. Pedicels slender		Leaves oblong-linear or linear-lanceolate 11 to 2 lines
Leaves narrow-linear, not pungent. Ovary 1-ovulate		Leaves narrow-linear. Pedicels slender 55. P. angulata.
Ovary 2-ovulate. Perianth-segments without points		Leaves narrow-linear, not pungent. Ovary 1-ovulate 56. P. chamæpeuce. Leaves narrow-linear or subulate nungent pointed
	_	Ovary 2-ovulate. Perianth-segments without points

6. H. arborescens, R. Br. in Trans. Linn. Soc. x. 187, Prod. 386. A tall shrub or small tree, the young shoots silky. Leaves linear linear-lanceolate or sometimes rather broader and slightly falcate, obtuse or acuminate, contracted at the base, longitudinally but obscurely several-veined, minutely silky-pubescent on both sides, 3 to 6 in. long. Flowers small, in short dense almost globular racemes or clusters on lateral peduncles of \(\frac{1}{4} \) to \(\frac{1}{2} \) in., often on the old wood. Pedicels filiform, 1 to 2 lines long. Perianth silky-pubescent, the tube slender, scarcely \(1\frac{1}{2} \) lines long, revolute under the limb. Torus straight. Gland semiannular, not very prominent. Ovary shortly stipitate. Stigmatic disk nearly straight with a short broad cone. Fruit nearly straight, \(1\frac{1}{2} \) to nearly 2 in. long, 1 in. broad, very shortly beaked. Seedwing decurrent along the upper margin of the nucleus to the base.—Meissn. in DC. Prod. xiv. 410.

N. Australia. Islands of the Gulf of Carpentaria, R. Brown, Henne; Copeland island, A. Cunningham; Victoria river, F. Mueller; Port Essington, Armstrong.

Queensland. Rockingham Bay, Dallachy; Mount Elliott, Fitzalan.

1. K. chordophylla, F. Muell. in Hook. Kew Journ. ix. 23. A tree 1. W. chordophylla, F. Muell. in Hook. Kew Journ. ix. 23. A tree perfectly glabrous and more or less glaucous. Leaves terete, smooth, mostly from ½ to 1 ft. long. Racemes from the old wood, loosely cylindrical, 3 to 4 in. long, quite glabrous. Pedicels about ½ in. long. Perianth glabrous, the tube 4 to 5 lines long, much dilated and oblique at the base, revolute under the limb. Torus very oblique. Gland large, horseshoe-shaped. Ovary supitate; style long; stigmatic disk broad, oblique, not convex. Fruit obliquely lanceolate, about ½ in. long and ½ in. broad near the base, tapering into a short slightly incurved beak. Seed-wing not decurrent along the nucleus.—Meissn. in DC. Prod. xiv. 699.

W. Australia. Sturt's Creek, F. Mueller (the perianth-tube scarcely 4 lines long); Kekwick springs, Waterhouse (the perianth-tube fully 5 lines long).

2. **YI. Cunninghamii**, R. Br. Prot. Nov. 26. A small tree of 12 to 16 ft. Leaves terete, rigid, mostly above 1 ft. long, but usually not so long as in H. lorea. Racemes lateral on the old wood, loosely cylin-

drical, 3 to 6 in. long, the rhachis pedicels and perianths clothed with appressed silky hairs. Pedicels 3 to 5 lines long. Perianth-tube 4 to 5 lines long, somewhat dilated and very oblique at the base, attenuate and revolute under the limb. Torus very oblique. Gland large, horse-shoe-shaped. Ovary on a long stipes. Style very long, slightly clavate under the oblique convex or broadly conical stigmatic disk. Fruit obliquely ovate-lanceolate, $1\frac{1}{4}$ to $1\frac{1}{2}$ in. long and $\frac{3}{4}$ in. thick. Seed-wing not decurrent along the nucleus or only very shortly so on the upper margin.—Meissn. in DC. Prod. xiv. 394; H. longifolia, A. Cunn. Herb.; F. Muell. Fragm. vi. 190.

N. Australia. Bay of Rest, N.W. coast, A. Cunningham; Nichol Bay, F. Gregory's Expedition; Victoria river, F. Mueller.

5. **H. macrocarpa,** A. Cunn. in R. Br. Prot. Nov. 30. A tree of 15 to 20 ft. of robust growth with a rugged bark. Leaves linear-lanceolate, 6 to 8 in. long, 2 to 5 lines broad, mostly obtuse, tapering at the base, thick, minutely silky-pubescent on both sides, the veins longitudinal, slightly anastomosing, scarcely prominent. Racemes loosely cylindrical, 3 to 6 in. long, tomentose-pubescent as in H. lorea. Pedicels 2 to 5 lines long. Perianth-tube about 5 lines, oblique, dilated

below the middle, revolute upwards. Torus oblique. Gland large, semicircular. Ovary shortly stipitate, style rather thick, not long; stigmatic disk oblique, broadly conical. Fruit ovate-lanceolate, $1\frac{1}{2}$ to $1\frac{3}{4}$ in. long, 7 to 8 lines broad.—Meissn. in DC. Prod. xiv. 411; F. Muell. Fragm. vi. 191; Grevillea Alphonsiana, F. Muell. in Hook. Kew Journ. ix. 22; Meissn. l.c. 699.

N. Australia. Arid shores of Cygnet Bay, N.W. coast, A. Cunningham; Roebuck Bay and Glenelg river, Martin; remotest parts of Sturt's Creek, F. Mueller.
W. Australia. Three hundred miles up the Murchison river, Walcott.

NIB

PROTEACEAE

Hakea morrisoniana w.v. Fitzg.

NED

PROTERCERE

Hakea rhombalis

F. muell.

7? **H.** stenophylla, A. Cunn.; Meissn. in DC. Prod. xiv. 417. A small tree of 12 to 15 ft., glabrous or the young shoots minutely hoary. Leaves very narrow-linear, entire, flat, 2 to 4 in. long, rather thick, veinless or with a scarcely prominent midrib. Flowers unknown. Fruit rather above 1 in. long, $\frac{8}{4}$ in. thick, smooth with a very short conical straight beak. Seed-wing broad, more or less decurrent all round the nucleus.

N. Australia. Arid sands, Bay of Rest, N.W. coast, A. Cunningham.—Appears allied to H. arborescens, but the affinities must be very uncertain until the flowers are known.

Hakea suberea?

Hakea suberosa

(Lysanthe and Stylurus, Salisb., Anadenia, R. Br., Manglesia, Endl., Strangea and Molloya, Meissn.)

Flowers hermaphrodite. Perianth irregular or regular, the tube revolute or curved under the limb or straight and slender, the limb globular or rarely ovoid, usually oblique, the laminæ usually cohering long after the tube has opened. Anthers all perfect, ovate, sessile in the base of the concave laminæ, the connective not produced beyond the cells. Hypogynous glands united in a single semi-annular or semicircular gland occupying the upper (often the shortest) side of the torus or rarely completely annular surrounding the ovary, or altogether wanting. Ovary stipitate or rarely sessile, with 2 amphitropous ovules laterally attached about the middle; style filiform or somewhat dilated, usually long and protruding from the slit on the lower side of the perianth tube before the summit is set free from the limb, ultimately straightened and erect or in a few species of Lissostyles and Conogyne remaining hooked, more or less dilated at the end into a straight oblique or lateral cone or disk bearing the small stigma in the centre of the disk or at the summit of the cone. Fruit a follicle, usually oblique with the ventral suture curved, either coriaccous and opening along the upper margin, or rarely woody and opening almost or quite in two valves. Seeds 1 or 2, flat orbicular or oblong, bordered all round by a membranous wing, or narrowly winged at the end or outer margin only or entirely wingless.—Shrubs or trees. Leaves alternate, very diversified in shape. Flowers in pairs along the rhachis of a short and umbel-like or elongated raceme, rarely reduced to a single pair; the racemes either terminal or also axillary, rarely all axillary. The indumentum usually consists of closely appressed hairs attached by the centre, rarely of erect or spreading hairs, and then usually forked at the base or clustered.

With the exception of three or four New Caledonian species the genus is limited to Australia. In the distributing the numerous species of this beautiful genus into sections, I have been unable in all respects to follow Brown, and still less Meissner, especially as to the foliage or seeds, for the former is far too variable to serve for much beyond specific distinction, and the seeds are unknown in a large number of the species. The following sectional characters are derived chiefly from the inflorescence and flowers, and if less absolute than could have been wished, are the best I could devise. The first eight sections constitute Meissner's subgenus Eugrevillea, with the perianth revolute under the limb, and the stigmatic disk oblique or lateral, usually flat or convex, the tenth and eleventh proposed as subgenera by Meissner, have the perianth straight, and the stigmatic disk replaced by a straight cone, the intermediate ninth section, Conogyne, and most of the species of the sixth, with the perianth recurved or revolute at the top, as in the preceding ones, have the straight stigmatic cone of Anadenia and Manglesia. A very few of the species of the eighth section, Lissostyles, have also the stigmatic cone shaped as in the last sections, but very oblique. The absence of the hypogynous gland, one of the chief characters on which the genus Anadenia was founded, occurs also in a tew species belonging to other sections of true Grevilless. The peculiar style of Manglesia passes into that of Anadenia through G. aerobotrya, and G. didynobotrya closely connects Conogyne with Anadenia.

Sect. 1. Eugrevillea.—Racemes secund, and elongated, or few-flowered. Perianth-tube dilated below the middle and usually opening on the lower side, revolute under the limb. Torus small, straight or slightly oblique. Stigmatic disk lateral.

Series 1. Leiogynæ.—Ovary glabrous, stipitate. Torus sometimes ollique, but with the gland side the longest. Species all Western, one also in S. Australia.

Razemes sessile or nearly so on leafy branches. Leaves linear, undivided, obtuse.	
Racemes loose, several-flowered. Stipes of the ovary thick and flattened.	
Leaves narrow-linear	 G. pinaster. G. obtusijolia.
Rucemes mostly reduced to a single pair of flowers. Leaves very narrow-linear	
Racemes sessile, few-flowered. Leaves lobed or divided. Styles very long.	
Leaves with 3 broad triangular pungent pointed lobes Leaves with 3 or 5 narrow-linear divaricate rigid pungent-	4. G. macrostylis.
pointed segments. Racemes 2- or 4-flowered, usually several on a short leafless flexuose peduncle or branch	5. G. tripartita.
Leaves once or twice 3-lobed with broad rigid lobes Bhacking	6. G. platypoda.
very flat Leaves once or twice ternately divided into narrow rigid divaricate pungent pointed segments.	
Leaves regularly pinnate with parrow rigid but not pungont	7. G. patentiloba.
segments	8. G. pectinata.
Leaves regularly pinnate with long narrow-linear rigid but not pungent segments	0 (7
not pungent segments Leaves simple, narrow-linear, often very long Racemes rather dense, many-flowered. Leaves pinnate with narrow-linear or filiform segments.	
Leaves simply pinnate	 G. stenomera. G. Thelemanniana.

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Series 2. Hebegyne.—Ovary sessile or scarcely stipitate, densely villous. Torus sometimes but very rarely slightly oblique, with the gland side the shortest.
     Leaves obtuse or mucronate, not pungent.

Leaves narrow-linear, rigid, mostly undivided, 1 to 2 in. long. Racemes short.

Leaves mostly pinnate with narrow-linear rigid segments doubly grooved underneath.

Leaf-segments 3 to 9, under 2 in. long. Racemes silky,
                                                                                                       . 13. G. concinna.
             ovate.
Leaves long, lanceolate. Perianth silky.
Tall and erect. Racemes dense. Perianth-tube narrow 22. G. asplenijolia.
Prostrate. Racemes loose. Perianth-tube broad, experimental experimental disk. 23. G. cirsiifolia.
           . 25. G. Barlilyana.
     Leaves or leaf-lobes pungent-pointed (the first five species
             all Eastern).
         Leaves ovate or cuneate, with prickly teeth or lobes.
            Prostrate. Leaves ovate, undulate, shortly prickly-toothed.
Torus slightly oblique
           Torus slightly oblique

Erect or spreading. Leaves ovate oblong or cuneate, irregularly lobed. Torus straight.

Leaves usually villous, pinnately many-toothed or lobed. Stipes of the ovary very short.

Leaves glabrous above or nearly so, silky underneath, cuneate with few lobes. Stipes of the ovary as long
                                                                                                      . 26. G. repens.
                                                                                                   . 27. G. aquifolium.
       conneate with new lobes.

as the ovary.

Leaves glabrous, deeply pinnatifid, with broad prickly lobes.

Leaf-lobes oblong or ovate, entire or rarely 2- or 3-lobed 29. G. Gaudichaudii.

Leaf-lobes mostly cuneate, very rigid, 2- or 3-lobed.

30. G. acanthifolia.
      Racemes dense
Leaf-lobes mostly again pinnatifid. Racemes loose.
Western species
Leaves once or twice ternately divided into linear rigid divaricate segments. Western species.
Racemes dense. Flowers numerous, about 1 in. long, nearly sessile
Racemes loose. Flowers nearly 1 in. long, on slender pedicels

33. G. asparagoides.
  Sect. 2. Ptychocarpa.—Racemes short, often umbel·like. Perianth-tube dilated below the middle and usually opening on the lower side, revolute under the limb. Torus small, straight or nearly so. Ovary sessile or very shortly st pitate, densely villous or rarely with only a tuft of hairs at the base. Stigmatic disk lateral. Leaves
  entire. Species all Eastern.
  Perianth densely villous.
     Leaves ovate to oblong mostly obtuse, the upper surface glabrous or minutely scabrous.

Leaves ovate to oblong-lanceolate, mucronate-acute, the upper surface scabrous-dotted
                                                                                                   . 34. G. floribunda.
                                                                                             . . 35. G. cinerea.
                           (See also 39, G. arenaria.)
     Leaves oblong to linear, obtuse, pubescent or villous on both
 Perianth sprinkled or silky with appressed hairs.

Leaves oblong or lanceolate, obtuse or with a small callous
            point.
        Leaves glabrous or scabrous above, mostly narrow.
             . 38. G. obtusiflora.
                                                                                                 . 40. G. mucronulata.
   the branches, or slightly pulescent.

41. G. Baueri.
Leaves linear, obtuse, much revolute, villous or hirsute as
well as the branches
Leaves linear or linear-lanceolate, mostly acute and revo-
           lute, the upper surface glabrous, scabrous or slightly
       Ovary villous. Spreading or diffuse shrub, usually villous 43. G. ericifolia.
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SECT. 3. Plagiopoda.—Racemes various. Perianth-tube dilated below the middle and usually opening on the lower side, revolute under the limb. Torus very oblique, the gland-side the shortest. Ovary villous except in a few axillary-flowered species. Stigmatic disk very oblique or lateral. Racemes terminal, erect, sometimes secund. Ovary densely villons. Style very long. Eastern species (except G. Leaves entire, narrow or rarely ovate.

Branches sparingly or shortly pubescent.

Leaves ovate or lanceolate, ½ to ¾ in. long or oblong and longer, obtuse

Leaves linear or lanceolate, ½ to 2 in. long. Flowers small. . 53. G. Brownii. 58. G. Drummondii. 62. G. acuaria. Leaves ovate or orbicular, small, flat. Ovary glabrous. Style . 63. G. singuliflora. Leaves linear-cuneate or oblong, 1-nerved. Ovary glabrous.
Fruit small . 66. G. cynanchicarpa. Sect. 4. Calothyrbus.—Racemes secund, usually many-flowered. Perianth-tube more or less dilated below the middle and usually opening on the lower side, revolute under the limb. Torus oblique, the gland-side the shortest. Ovary glabrous, stipitate. Species all tropical except G. quercifolia and G. Huegelii. Leaves undivided, ovate or lanceolate, angular or pricklytoothed toothed.

.eaves petiolate or tapering at the base.

Leaves glabrous, mostly sinuate-toothed.

Racemes mostly terminal on long peduncles. Perianth
bearded inside with very short hairs
Racemes axillary, shortly pedunculate. Perianth
densely bearded inside with erect hairs

Leaves silky-pubescent at least when young, mostly angular. Racemes axillary. Perianth bearded inside
with spreading or reflexed hairs.

Perianth slightly dilated at the base as in G. angulata
Perianth much dilated at the base as in G. Cunninghamii

70. G. agrifolia. Leaves petiolate or tapering at the base. Leaves sessile, deeply cordate with large stem-clasping auricles, sinuate and prickly-toothed

Leaves sessile, deeply and regularly pinnatifid with rigid pungent pointed lobes. 71. G. Cunninghamii. pungent pointed lobes.

Leaves once or twice divided into short linear rigid divaricate segments. Racemes very short with long flowers. Desert . 72. G. pungens. Leaves not toothed, entire or divided into long narrow seg-. 73. G. Huegelii. ments. Racemes usually paniculate.

Leaves undivided, broadly falcate, longitudinally reticulate 74. G. dimidiata.

Leaves mostly pinnate, the segments oblong lanceolate, longitudinally reticulate 75. G. heliospermed linear, penniveined with numerous oblique parallel primary veins 76. G. refracta.

Leaf-segments numerous, linear, obscurely veined above, 1-nerved underneath. Racemes long. Perianth above 15. G. Dryandri. . 75. G. heliosperma.

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Sect. 5. Cycladenia.—Racemes many flowered, paniculate (scarcely secund?) Perianth nearly of Cycloptera, but larger. Torus straight. Hypogynous g'and annular
         (deficient on the lower side in all other sections). Ovary glabrous, stipilate. Western
        Leaves divided into short rigid linear divaricate pungent-
        . 80. G. annulifera.
             Sect. 6. Cycloptera.—Racemes dense, usually paniculate. Flowers small Perianth-
tube narrow, recurved or reflexed under the limb. Torus straight. Ovary glabrous,
stipitate. Fruit usually broad. Seeds winged all round. Tropical or subtropical
       Leaves longitudinally veined.
             Leaves mostly pinnate.
            Leaf-segments linear, very long and narrow . . . . . 82. G. leucadendron. Leaf-segments linear cuneate, obtuse, under 5 in. long . 83. G. pyramidalis. Leaves undivided, very long, with 9 to 13 closely parallel
                                                            · · · · · · · · · · · . . . . 84. G. striata.
          Leaves undivided, falcate, longitudinally reticulate and irre-
     Sect. 7. Eriostylis.—Racemes umbel·like, sessile or nearly so. Flowers small, villous. Perianth-tube narrow or rather broad, revolute under the limb. Torus straight. Ovary shortly stipitate, villous as well as the style; stigmatic disk lateral.
    Leaves entire.
    Hairy style produced into an appendage beyond the stigmatic disk. Eastern species.
         Leaves orsate to broadly lanceolate. Stigmatic disk orbicular, the hairy appendage refexed

Leaves lanceolate or linear. Stigmatic disk oblong, the hairy appendage erect
                                                                                                                                           88. G. buxifolia.
    Hairy style not produced (or obscurely so in G. sphacelata), the disk orbicular or oval. Western species (except G.
                                                                                                                                          89. G. phylicoides.
              sphacelata).
       sphacetata).

Leaves lanceolate or linear, scabrous-punctate. Young branches closely silky. Stigmatic disk oval.

Stipes of the ovary much longer than the gland. Stigmatic disk not projecting beyond the hairy style. Stipes of the ovary very short. Stigmatic disk with a free glabrous margin.
                                                                                                                                        . 90. G. sphacelata.
       free glabrous margin

Young branches villous. Stigmatic disk thick, with an incurved turbinate glabrous back

Leaves narrow-linear, rarely lanceolate, smooth.

1 Occidentalis 1 Occidentalis 2 Occidenta
                                                                                                                                           91. G. occidentalis.
            Leaves linear-terete, pungent-pointed. Stigmatic disk
oval, flat
            Leaves linear, not pungent. Stigmatic disk orbicular,
 93. G. umbellulata.
      Sect. 8. Lissostylis.—Racemes short and dense (except G.Victoriæ and G. trachytheca). Perianth-tube narrow, revolute or recurved under the limb. Torus straight. Ovary glabrous, stipitate. Stigmatic disk (or cone in the last two species) very oblique
     Series 1. Puniceæ. - Flowers not numerous or in a loose raceme, the perianth
about & in. long. Leaves entire. Eastern species.
Leaves penniveined, ovate to broadly lanceolate. Racemes
          loose. Style not very long.
     Leaves oval or ovate-oblong (11 to 21 in.), veinless above,
          penniveined underneath
    Leaves obovate or oval ($\frac{3}{2}$ to 1$\frac{1}{2}$ in.), veinless above, 1-nerved underneath

Leaves lanceolate (2 to 4 in.), penniveined above, 1-nerved underneath
                                                                                                                                        97. G. Miqueliana.
                                                                                                                                    . 98. G. brevifolia.
                                                                                                                                      99. G. Victoria.
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Series 2. Sericeæ.—Flowers numerous in a short dense raceme. Perianth-tube under 4 lines long. Leaves entire. Fruit usually smooth. Eastern species.
    Leaves oblong-lanceolate or almost linear, obtuse or with a
          small point, silky underneath.
    small point, silky underneath.

Flowers silky-pubescent. Leaves rarely 1½ in, long . . . 104. G. sericea.

Flowers ferruginous-villous. Leaves mostly 1½ to 2 in, long 105. G. capitellata.

Leaves oblong-lanceolate or linear, flat, green on both sides . 106. G. leiophylla.

Leaves mostly linear, very acute.

Leaves with the midrib very prominent underneath, doubly
      neath, singly grooved when narrow. Perianth-tube about
         2 lines long
                          Series 3. Occidentales.—Flowers numerous in a dense raceme or head. Perianth-
tube under 4 lines long. Leaves entire or divided. Fruit usually (but not always)
rugose or tuberculate. Western species.
   Racemes short. Bracts none or minute and falling off early.
      Stigmatic disk flat or convex.

Leaves rather thick, obtuse or mucronate, oblong-cuneate or linear, entire or divided.
        Racemes ovate, on short peduncles. Perianth-tube about
              2 lines long.
        Leaves entire or rarely 2- or 3-toothed when broad . 111. G. commutata. Leaves mostly pinnate with narrow linear segments . 112. G. pinnatisecta Racemes globular, on filiform peduncles. Perianth-tube
                                                                          . 112. G. pinnatisecta.
     about 1 line long .
Leaves rather thick, narrow-linear, all entire.
                                                        · · · · . . . 113. G. argyrophylla.
        Leaves doubly grooved underneath. No hypogynous gland. Fruit smooth
                                                                          . 114. G. brachystachya.
     Leaves long, 1-nerved underneath, concave and nerveless above. Gland pulvinate

Leaves not very thick, varying from broadly cuneate and acutely toothed or lobed to narrow-linear and very
                                                                          . 115. G. Endlicheriana.
       very small.

Leaves 4 to 6 in, long. Racemes axillary and ter-
               minal
          . . 120. G. teretifolia.
 Racemes short. Bracts membranous, broad, imbricate in the
      young racemes, persisting nearly to the flowering. Stig-
matic disk flat or convex.
    Racemes on long terminal leafless simple or branched pe-
         duncles.
      Leaves large, glaucous, undulate, deeply pinnatifid, with obovate or oblong lobes
                                                                         121. G. eryngioides.
 Leaves narrow-linear, rigid, entire or deeply trifid, doubly grooved underneath

Racemes dense, terminal. Stigmatic disk conical in the centre
                                                                        . 122. G. bracteosa.
    or replaced by an oblique cone.
Racemes short, sessile. Leaves short, crowded, with 3 or 5
      narrow-linear segments
                                                                        . 123. G. crithmifolia.
   Sect. 9. Conogyne.—Racemes dense or rarely slender, short or cylindrical. Flowers small. Perianth-tube slender, recurved under the limb. Torus straight. Ovary stipitate. Style filiform, with an erect stigmatic cone.
Leaves cuneate or linear, 3-fid or 3 toothed.

Racemes short and sessile. Entire base of the leaf
short and broad or linear
     . 132. G. leptobotrya.
      Leaves twice or thrice ternately divided into linear pun-
           gent-pointed segments.
         Leaf-segments short. Racemes short and sessile .
                                                                       . 133. G. brevicuspis.
        Leaf-segments long. Racemes cylindrical elongated
           and loose . .
134. G. intricata.
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SECT. 10. Anadenia.—Racemes dense, short or cylindrical. I'lowers small. Periunth-tube slender, straight, limb erect. Torus straight. Style filiform or dilated upwards, not contracted under the erect stigmatic cone. Western species except G. anethifolia.
Hypogynous gland semiannular. Leaves linear-terete, ter- nately divided.
Leaf-segments divaricate, under 1 in. long, pungent-pointed. Racemes short, sessile. Style dilated and flattened 138. G. anethifolia.
Racemes cylindrical, spike-like, sessile, the rhachis densely
villous. Style long, filiform
Leaf-segments erect, above 1 in. long, not pungent. Racemes spike-like, pedunculate along a common leafless
Peduncle
Leaves flat, pinnate, with 3-lobed or pinnatifid pinnæ.
Pinnæ 3 or 5. Perianth 23 lines long
Pinnæ 7 to 11. Perianth 14 lines long 142. G. pulchella.
Pinnæ 3 or 5. Perianth 2½ lines long
Leaves narrow cuneate, 3-lobed or 3-toothed at the end.
Ovary villous
Leaves obovate-oblong or lanceolate, entire. Ovary
Leaves glabrous
Leaves narrow-linear. Ovary glabrous. Fruit 3 or 4 times as long as broad
Sect. 11. Manglesia.—Racemes short, dense, axillary. Flowers small. Perianth- tube straight, slender or fusiform; limb erect. Torus straight. Ovary glabrous, stipi- tate. Style turgid in the middle or fusiform, constricted under the erect stigmatic cone. Western species.
Hypogynous gland none. Style fusiform. Stem-leaves broadly cuneate; floral leaves with 3 linear pungent seg-
ments
Capsule very rugose. Leaves mostly above 1 in. long.
Leaves quite glabrous. Racemes branching
Leaves broad, once or twice trifid with short lobes . 148. G. glabrata.
Leaves narrow, with 3 lanceolate lobes 149. G. ornithopoda. Leaves mostly biternate with terete pungent-pointed
segments. Fruit erect
Leaves more or less hoary, at least when young. Racemes
simple. Leaves mostly biternate with narrow pungent-pointed
segments. Fruit transverse
100 (+ tr)/oba
Capsule smooth. Leaves mostly under 1 in. long, with pungent-pointed lobes or segments or teeth.
Leaves broad, stem-clasping with large auricles, prickly-
toothed
Leaf-segments narrow-linear, very rigid, doubly grouved
underneath
underneath
G. berberifolia, podocarpifolia and trifurcata, Sweet, and G. Flindersii and mucronifolia, A. Cunn., included in Steud. Nom. Bot. ed. 2, are garden names of unpublished species, which, if genuine Grevillea, must be the same as some of those here described.

PROTERCEAR

Grevillea erythroidada

F:+29.

NIB

PROTEACEAE

Grevilled heteromero w.v. Fitzg

NIO

PROTEACEA

Grevillea latifolia

c.A. Gard

OIO

PROTENCEME

Grevillea miniata

w.v.Fitzg.

Grevillea viscidula,

C.A. GOR

7. P. falcata, R. Br. in Trans. Linn. Soc. x. 162, Prod. 373. Usually a small tree, glabrous or the young shoots minutely tomentose-pubescent. Leaves linear or lanceolate, falcate, 4 to 8 in. long, and very variable in width, obtuse or acuminate, contracted into a petiole, the midrib prominent, the margins usually nerve-like, the lateral veins obscure or fine and very oblique. Pedicels slender, $\frac{1}{4}$ to $\frac{1}{2}$ in. long, glabrous as well as the perianth or very minutely hoary-pubescent, sometimes all axillary, but more frequently forming a long raceme with the lower floral leaves reduced to bracts and ground out at the end into a leafy shoot. Ovary glabrous, of nearly uniform thickness with the short stipes and incurved style, the stigma oblique under the upper anther. Anthers all perfect, but the upper one usually smaller, the connective produced into a long

or short point.—Meissn. in DC. Prod. xiv. 331; P. mimosoides, A. Cunn.

N. Australia. Islands of the Gulf of Carpentaria, R. Brown; M'Adam Range, F. Mueller; Escape Cliffs, Hulls; Victoria river, Bynoe; Cygnet Bay, N.W. coast, A. Cunningham (a narrow-leaved form, with the pedicels only remaining, but apparently rather this species than P. longifolia).

Queensland. Cape York, Daemel; Dayman's island, Endeavour Straits, W. Hill; Endeavour river, A. Cunningham, W. Hill; Estuary of the Burdekin, Fitzalan; Kennedy district, Daintree; Edgecombe and Rockingham Bays, Dallachy; Cape and Bowen rivers, Bowman.

SECT. 2. ACRANTHERA.—Style elongated beyond the anthers, with a terminal stigma. Anthers all perfect, the connective produced into an appendage beyond the cells.

27. STENOCARPUS, R. Br.

(Agnostus, A. Cunn.)

Flowers hermaphrodite. Perianth slightly irregular, the tube opening along the lower side, the limb nearly globular and recurved, the segments at length separating. Anthers broad, sessile within the concave laminæ, the connective not produced beyond the cells. Hypogynous glands united in a short semiannular disk or cup or almost obsolete. Ovary stipitate, tapering into a long style dilated at the top into a flat oblique disk, stigmatic in the centre; ovules several, laterally attached at or near the top, imbricate downwards in 2 rows. Fruit a follicle, usually narrow, coriaceous; seeds produced at the lower end into a membranous wing.—Trees. Leaves alternate or scattered, entire or deeply pinnatifid with few lobes. Peduncles terminal or in the upper axils, sometimes several in an umbel or short raceme, each bearing an umbel of pedicellate red or yellow flowers. Bracts none or falling off at a very early stage.

The genus extends to New Caledonia, the Australian species are however all endemic.

Leaves 6 in. to 1 ft. long. Perianths above 1 in. long, the pedicels radiating in a single row round the disk-like end of the peduncle

the peduncle

Leaves under 6 in. Perianths ½ in. long or less, the pedicels irregularly crowded on the summit of the peduncle.

Ovary usually pubescent.

Ovary quite glabrous 1. S. sinuatus.

S salignus.
 S. Cunninghamii.

- 3. S. Cunninghamii, R. Br. Prot. Nov. 34. A tall bushy shrub or small tree, glabrous or the inflorescence slightly pubescent, the specimens closely resembling those of S. salignus in which the leaves are rather narrow, thick and obscurely veined. Leaves oblong-lanceolate, obtuse or acuminate, varying in breadth, about 2 to 4 in. long, tapering into a short petiole, faintly tripli- or quintupli-nerved, the smaller veins rarely visible. Flowers precisely as in S. salignus, except that the ovary appears to be constantly quite glabrous.—Meissn. in DC. Prod. xiv. 451.
- N. Australia. Vansitiart's Bay, N.W. coast, A. Cunningham (with small flowers and a slightly pubescent inflorescence); sources of the Roper river, F. Mueller (with small flowers and a nearly glabrous inflorescence); Liverpool river, Cudell's Expedition (with rather larger flowers and the inflorescence quite glabrous). The whole should probably be considered as varieties of S. salignus.

2. S. salignus, R. Br. in Trans. Linn. Soc. x. 202, Prod. 391. A moderate-sized tree, glabrous or the inflorescence minutely pubescent.

Leaves in the typical form ovate-lanceolate or elliptical, acute acuminate or rarely obtuse, tapering into a short petiole, 2 to 4 in. long, varying from penniveined to triplinerved (the lower primary veins scarcely longer or much longer and thicker than the others), but the veins usually indistinct slightly prominent or almost immersed, a few leaves on young trees or barren branches larger and pinnatifid. Peduncles slender, terminal or in the upper axils, usually shorter than the leaves, bearing a single umbel of 10 to 20 flowers or in luxuriant specimens as many as 30 flowers. Pedicels \(\frac{1}{4}\) to \(\frac{1}{2}\) in. long, irregularly crowded on the summit of the peduncles. Perianth usually under \(\frac{1}{2}\) in. long. Ovary slightly silky-pubescent or nearly glabrous. Ovules 6 to 8, not so closely imbricate nor so narrow and compressed as in S. sinuatus.—Meissn. in DC. Prod. 451; Bot. Reg. t. 441; Halea rubricaulis, Colla, Hort. Ripul. App. i. 114, t. 3; Embothrium rubricaule, Giord. Obs. 1837 (Meissn.); Stenocarpus acacioides, F. Muell. Fragm. i. 135.

Queensland. Warwick, Nernst.
N. S. Wales. Grose river, R. Brown; Blue Mountains, A. and R. Cunningham; Tweed river, C. Moore; Illawarra, A. Cunningham, Shepherd; Sydney woods, Paris Exhibition, 1855, M'Arthur, n. 187. Known under the name of "Silky Oak."

Var. Moorei. Leaves broader and usually more distinctly tripli- or quintupli-nerved, the ovary minutely pubescent.—S. Moorei, F. Muell. Fragm. i. 134, v. 154.—Rockingham Bay, Dallachy; Mount Lindsay, W. Hill; Illawarra, C. Moore; Mount Warning, C. Moore (with a few leaves deeply pinnatifid with 3 or 5 long narrow lobes).

Var. concolor. Leaves more prominently tripli- or rarely quintupli-nerved, the reticulations also more distinct. Flowers rather larger. Ovary glabrous or nearly so.—S. concolor, F. Muell. Fragm. iii. 147, v. 154.—Broad Sound and near Maryborough, Bouman.

70. **G. agrifolia**, A. Cunn. in R. Br. Frot. Nov. 24. A shrub of strong growth, the young shoots minutely silky-tomentose, often ferruginous and the old foliage scarcely glabrous. Leaves petiolate, obovate-cuneate, more or less undulate and angular or sinuate with prickly-pointed angles or teeth, tapering from the middle downwards,

1½ to 3 in. long, more obliquely penniveined than in G. Wichhami, the reticulations prominent on both sides. Racemes rather dense, secund, 1 to 1½ in. long, on short peduncles, axillary or terminating short branches. Pedicels 1 to 2 lines long, glabrous as well as the rhachis. Perianth glabrous outside, densely bearded inside with reflexed hairs, the tube 3 or 4 lines long, scarcely dilated at the base, much revolute under the globular limb. Torus oblique. Gland large, horseshoeshaped. Ovary glabrous, on a slender stipes, at the upper margin of the torus; style long, slender, glabrous; stigmatic disk lateral. Fruit obliquely globular, 7 or 8 lines diameter.—Meissn. in DC. Prod. xiv. 380.

N. Australia. Cape Pond, Sims's, Lacrosse, and Goulburn Islands, A. Cunningham; Nichol Bay, F. Gregory's Expedition; Gulf of Carpentaria, F. Mueller; in the interior, M'Douall Stuart's Expedition.

68. G. angulata, R. Br. Prot. Nov. 24. A shrub of 3 to 6 ft., quite glabrous and usually glaucous, or the young shoots scarcely pubescent. Leaves petiolate, ovate or oblong, cuneate at the base, more or less undulate and prickly-toothed, 1 to 2 in. long or rather more when narrow, reticulate on both sides. Racemes dense, secund, axillary and terminal, on peduncles of ½ to 1 in., the rhachis 6 to 8 lines long. Pedicels slender, 1½ to 2 lines long. Perianth glabrous or pubescent with short appressed hairs outside, densely bearded inside with erect hairs, the tube nearly 4 lines long, not much dilated at the base, attenuate and much revolute under the globular limb. Torus oblique. Gland prominent, horseshoe-shaped. Ovary glabrous, stipitate on the upper margin of the torus; style rather long; stigmatic disk ovate, lateral. Fruit very obtuse with the base of the style lateral, 4 to 6 lines long.—Meissn. in DC. Prod. xiv. 380; G. ilicifolia, A. Cunn. Herb. not of R. Br.

N. Australia. Sims's Island, A. Cunningham; Victoria river, Bynoe, F. Mueller; Fitzmaurice river, F. Mueller.

Var.? lancifolia, F. Muell. Leaves oblong-lanceolate, 2 to 3 in. long.—Stony ranges, Central Australia, Herb. F. Mueller (collector not named).

19. G. chrysodendron, R. Br. in Trans. Linn. Soc. x. 176, Prod. 379. A tree of 15 to 20 ft., the young branches tomentose. Leaves pinnate with numerous very narrow linear segments of 4 to 8 in. the lower ones sometimes forked, the rhachis angular, 6 in. to 1 ft. long, the segments silky underneath, becoming glabrous above, rarely rather broader and veined, the margins revolute. Racemes erect, terminal or in the upper axils, rather dense, secund, 3 to 5 in. long. Flowers yellow. Pedicels 1 to 2 lines long, tomentose-villous as well as the rhachis. Perianth pubescent or villous outside, glabrous inside, the tube not broad, scarcely 3 lines long, slightly contracted and much revolute under the globular limb. Torus straight. Gland almost or quite divided into two, broad and short. Ovary sessile, villous; style long, the stigmatic disk oblique or lateral, with a prominent central umbo. Fruit obliquely ovate-oblong, compressed, about $\frac{3}{4}$ in. long. Seedwing surrounding the nucleus, but narrow.—Meissn. in DC. Prod. xiv. 383; G. ptcridifolia Knight, Prot. 121; G. Mitchellii, Hook. in Mitch. Trop. Austral. 265; Meissn. l.c.

N. Australia. Islands of the Gulf of Carpentaria, R. Brown; Victoria river, Bunoe, F. Mueller; Port Essington, Arms'ring; Port Darwin, Schulz; Melville island, Fraser, and other points of the N. coast, A. Cunningham, and others.

Queensland. Endeavour river, R. Brown; Rockingham Bay, Dallachy; Mistake Creek, Fitzalan; Cape river, Bowman; Brigalow scrub on the Belyando, Mitchell.

Queensland. Endeavour river, R. Brown; Rockingham Bay, Dataent; Mistake Creek, Fitzalan; Cape river, Bowman; Brigalow scrub on the Belyando, Mitchell.

Meissner distinguishes two species amongst Mitchell's specimens, differing chiefly in the breadth of the perianth-tube and in the degree of obliquity of the stigmatic disk, differences which however I have failed to appreciate in the specimens quoted.

71. **G. Cunninghamii,** R. Br. Prot. Nov. 23. A glabrous and more or less glaucous shrub attaining 10 ft. Leaves sessile or nearly so, ovate, deeply cordate with broad stem-clasping auricles, undulate and prickly-toothed, 1 to 2 in. long and broad, prominently but finely reticulate on both sides. Racemes axillary, short and few-flowered, on slender peduncles of about ½ in., the pedicels 1 to 2 lines long, all quite glabrous. Perianth glabrous outside, sparingly bearded inside about the middle, the tube scarcely 3 lines long, broad and very oblique below the middle, contracted and much revolute under the globular limb. Torus oblique. Gland horseshoe-shaped, large but slightly prominent. Ovary glabrous, shortly stipitate near the upper margin of the torus; style not very long, broad and flattened, stigmatic disk oval-oblong, lateral. Fruit oblique, very obtuse, 4 to 5 lines long.—Meissn. in DC. Prod. xiv. 379; G. carduifolia, A. Cunn. Herb.

N. Australia. Montague Sound, N.W. coast, A. Cunningham.

74. **G. dimidiata,** F. Muell. Fragm. iii. 146. A tree (?), quite glabrous with a glaucous foliage resembling in some respects G. mimosoides, but at once distinguished by the broad leaves and large differently shaped flowers. Leaves falcate, 6 to 10 in. long and 1 to 3 in. broad in the middle in the few specimens seen, tapering into a short petiole, flat, rather thick, with numerous almost longitudinal veins and reticulations, not very prominent but acqually visible on both sides. Bacemes tiat, rather thick, with numerous almost longitudinal veins and reticulations, not very prominent but equally visible on both sides. Racemes rather loose, 2 to 4 in. long, pedunculate and collected several together in a loose terminal paniele. Pedicels 1 to 1½ lines long. Perianth quite glabrous as well as the whole inflorescence, the tube about 4 lines long, revolute under the globular limb. Torus very oblique, concave. Gland adnate, scarcely prominent. Ovary glabrous, on a long stipes on the upper part of the torus; style long, flattened; stigmatic disk oblique, shortly conical in the centre.

N. Australia. Careening Bay, A. Cunningham (leaves only); Victoria river, F. Mueller; Roper river, M. Douall Stuart's Expedition.

75. G. heliosperma, R. Br. in Trans. Linn. Soc. x. 176, Prod. 380. A small slender tree, the young shoots minutely silvery or fulvous-pubescent, the adult foliage glabrous and more or less glaucous. Leaves once or twice pinnate, the segments not very numerous, oblong-lanceolate, obtuse, flat, 3 to 4 in. long, tapering at the base and often petiolulate, triplinerved or penniveined with few almost longitudinal primary veins and numerous almost longitudinal reticulations conspicuous on both sides, the whole leaf 6 in. to 1 ft. long. Racemes very loose, secund, 2 to 4 in. long, terminal or lateral, often branched but shorter

than the leaves. Perianth glabrous outside as well as the whole inflorescence, bearded inside below the middle, the tube fully 4 lines long, dilated towards the base, somewhat contracted upwards and much revolute under the obliquely globular limb. Torus very oblique and narrow, 3 lines long. Gland adnate, scarcely prominent. Ovary glabrous, stipitate at the upper end of the torus; style very long; stigmatic disk very oblique or lateral, very convex. Fruit nearly globular, oblique, 1 in. diameter, with very thick hard valves. Seed broadly winged all round.—Meissn. in DC. Prod. xiv. 380.

N. Australia. N. coast. R. Room: Part Beffles. A. Cunningham: Melville.

N. Australia. N. coast, R. Brown; Port Raffles, A. Cunningham; Melville island, Fraser; Point Pearce, M'Adam Range, Roper river, F. Mueller; Port Darwin, Schultz; Caledon Bay and Liverpool river, Gull.

85. G. mimosoides, R. Br. in Trans. Linn. Soc. x. 177, Prod. 380, Prot. Nov. 25. A tree quite glabrous, but the foliage glaucous. Leaves undivided, lanceolate, falcate, 6 to 10 in. long, varying from under ½ in. to above 1 in. in breadth, obtuse or with a callous point, tapering into a short petiole, flat, with several sometimes many longitudinal veins or nerves and very oblique almost longitudinal veinlets visible on both sides, but not very prominent. Flowers small, "pinkish white" in slender glabrous racemes of 3 or 4 in. shortly pedunculate and usually several in a terminal leafless panicle. Pedicels ½ to 1 in. long. Perianth glabrous, the tube narrow, about 2 lines long, revolute under the globular limb. Torus small. Disk semiannular, scarcely prominent or very obscure. Ovary glabrous, on a long stipes; style long, with a short nearly straight stigmatic cone or conical disk. Fruit broad, very oblique, somewhat compressed, fully 1 in. long. Seed-wing narrow, coriaceous.—Meissn. in DC. Prod. xiv. 385.

N. Australia. Careening Bay, N.W. coast, A. Cunningham; Victoria river,

M'Adam Range, Fitzmaurice river, F. Mueller; islands of the Gulf of Carpentaria, R. Brown, Henne,

The leaves closely resemble those of some of the tropical phyllodinous Acacia; when broad they are also very nearly those of G. dimidiata, which has however very different flowers

136. **G. polybotrya,** Meissn. in DC. Prod. xiv. 386. An erect probably tall shrub, the branches and inflorescence tomentose-pubescent, the young foliage sprinkled with silvery shining hairs, glabrous but pale when full grown. Leaves entire, oblong and obtuse or oblong-lanceolate and acute, contracted into a short petiole, $\frac{3}{4}$ to $1\frac{1}{2}$ in. long, flat and rather thick, veinless or the midrib and sometimes 2 lateral veins slightly prominent. Racemes or spikes shortly pedunculate, cylindrical, dense, $1\frac{1}{2}$ to 2 in. long, numerous in a large, dense leafless terminal panicle. Flowers nearly sessile. Perianth sprinkled with appressed hairs, slender, revolute, fally 2 lines long, the limb globular. Torus straight. Gland prominent, semiannular. Ovary glabrous or slightly viscid, very shortly stipitate; style long and filiform; stigmatic cone rather short, with a prominent margin. Fruit about $\frac{1}{2}$ in. long, compressed, apparently viscid.—G. Martinii, F. Muell. Fragm. iv. 129, t. 32; G. polybotrya, F. Muell. Fragm. vi. 208, but not the one described in Hook. Kew Journ. ix. 23.

N. Australia. Glenelg river, N.W. coast, Martin. W. Australia, Drummond, n. 90, 162, 4th coll. n. 279. 78. G. polystachya, R. Br. in Trans. Linn. Soc. x. 177, Prod. 380. A tall shrub or small tree, attaining about 30 ft., the branches minutely silky-pubescent or hoary when young. Leaves linear or linear-lanceolate and undivided, or dilated upwards and irregularly divided into 2 to 6 long linear-lanceolate segments, the whole leaf 6 to 10 in. long, adminate, tapering into a petiole, glabrous above, more or less silky-pubescent underneath, with the midrib and often longitudinal lateral veins prominent. Racemes rather dense, secund, 3 to 4 in. long. glabrous, usually several in a short terminal paniele. Pedicels 1 to 2 lines long. Perianth white, glabrous outside, shortly bearded inside, the tube about 4 lines long, not much dilated at the base, narrow and revolute under the globular limb. Torus oblique but not very much so. Gland semicircular. Ovary glabrous, stipitate; style rather long, shortly thickened under the very oblique stigmatic disk. Fruit woody, obliquely orbicular, \$\frac{3}{4}\$ to 1 in. diameter. Seeds broadly winged.—Meissa, in DC. Prod. xiv. 384; G. parallela, Knight, Prot. 121; G. pelybitrge, F. Muell, in Hook, Kew Journ, ix. 23; Meissn, l.c. 698, not of Meissn, l.c. 386.

N. Australia. Macadam Range and S. Alligator river, F. Mueller.
Queensland. Shoalbay passage, R. Brown; Gilbert river, F. Mueller: Edge-combe and Rockingham Bays, Dallachy; Port Denism, Fitzalan; Broad Sound Tinders and Bowen rivers, Bawman; Liverpool river, Gulliver; Port Mackay, Nernst.

Var. hebestachya. Racemes minutely hoary-pubescent. Flowers rather smaller.—Cape York, Daemel; Dayman's island, W. Hill. Some of the Rockingham Pay specimens are intermediate between these and the typical form.

G. angustata, R. Br. Prot. Nov. 24; Meissn. in DC. Prod. xiv. 384, described from specimens in leaf only from Cape Cloveland, A. Gunningham, is probably only a very narrow leaved form of G. polystachya.

83. G. pyramidalis, A. Cunn. in R. Br. Prot. Nov. 25. A tall shrub or small tree, the adult foliage glabrous and glaucous. Leaves once or twice pinnate, the segments not numerous, linear-cuneate or oblanceolate, obtuse, 3 to 5 in. long, tapering at the base and often petiolulate, flat, rather thick, longitudinally but irregularly veined on both sides. Flowers very small, in paniculate glabrous racemes like those of G. leucadendron, and agreeing precisely in structure and proportions with that species, of which G. pyramidalis may prove to be a short-leaved variety.—Meissn. in DC. Prod. xiv. 381.

N. Australia. Regent's river, N.W. coast, A. Cunningham.

76. G. refracta, R. Br. in Trans. Linn. Soc. x. 176, Prod. 380. A tall shrub or small tree, the young branches tomentose. Leaves mostly pinnate with 3 to 11 segments 2 to 5 in. long, linear-lanceolate or the terminal one broader, or sometimes reduced to a single oblong-cuneate leaf, the segments acute or obtuse when broad, tapering at the base and sometimes petiolulate, the margins usually recurved, nearly glabrous above and penniveined with numerous very oblique and nearly parallel primary veins, densely silky-pubescent underneath with the midrib alone prominent. Racemes short, secund, nearly sessile, usually several together in a small sessile terminal panicle, the rhachis of each raceme rarely above 1 in. long, the pedicels 2 to 3 lines, hoary-tomentose. Perianth silky-pubescent outside, bearded inside about the middle, the tube 4 to 5 lines long, dilated towards the base, contracted upwards and much revolute under the obliquely globular limb. Torus very oblique. Gland very prominent, half cup-shaped, 2-lobed. Ovary glabrous, stipitate on the upper margin of the torus; style thick, not very long; stigmatic disk lateral. Fruit very hard, nearly globular, about 1 in. diameter. Seed broadly winged.—Meissn. in DC. Prod. xiv. 382.

N. Australia. Islands of the Gulf of Carpentaria, R. Brown; Cambridge Gulf, N.W. coast, A. Cunningham; Cygnet Bay, Wickham; Victoria river, Bynoe, F. Mueller; Sea Range and Fitzmaurice river, F. Mueller; Short's Range, Newcastle water, Rilliart's springs, M'Douall Stuart's Expedition.

Var. ceratophylla. Leaf-segments often rather broader and several of the leaves undivided, the primary veins more conspicuous underneath.—G. ceratophylla, R. Br. in Trans. Linn. Soc. x. 177, Prod. 380; Meissn. in DC. Prod. xiv. 382; G. heterophylla, A. Cunn. in R. Br. Prot. Nov. 24; Meissn. l.c. 381.—Islands of the Gulf of Carpentaria, R. Brown; N.W. coast, A. Cunningham.

Var. veluting. Meissn. Segments of the leaves all broadland densely silly formuring

Var. velutina, Meissn. Segments of the leaves all broad and densely silky-ferruginous on both sides.—G. velutina, A. Cunn. Herb.—Greville island, Regent's river, A. Cunningham; Glenelg river, Martin.

69. G. Wickhami, Meissn. in DC. Prod. xiv. 380. A shrub of 4 to 6 ft. or a small tree, the young branches and foliage minutely silky-pubescent, the older leaves nearly glabrous. Leaves petiolate, ovate, angular or sinuate, with prickly-pointed angles or teeth, cuneate at the base, 1 to 1½ in. long, reticulate as in G. angulata, or thicker with the reticulations less conspicuous. Racemes secund, ½ to 2 in. long, on short axiliary peduncles or terminating short branches. Pedicels 1 to 2 lines long, glabrous as well as the rhachis. Perianth glabrous outside, bearded inside about the middle, the tube scarcely 3 lines long, broad and very oblique at the base, contracted and much revolute under the globular limb. Torus oblique. Gland horseshoe-shaped, large but not very prominent. Ovary glabrous, stipitate on the upper margin of the torus; style glabrous or minutely papillose-pubescent, with a large lateral stigmatic disk. Fruit very obtuse, 4 to 5 lines long.

N. Australia. Usborne's Harbour, N.W. coast, Wickham; Roebuck Bay, Martin; King's Sound and Collier Bay, Chapman; Port Darwin, Schuitz; Gulf of Carpentaria, F. Mueller.