(Vachellia, W. and Arn.; Tetracheilos, Lehm.; Chithonanthus, Lehm.)

Sepals 5, 4, or 3, free or united (wanting in A. Huegelii and A. squamata). Petals as many, free or united (wanting in A. squamata). Stamens indefinite, usually very numerous, free or slightly connected at the very base. Pod linear or oblong, flat or nearly cylindrical, straight, falcate or variously twisted, opening in 2 valves or indehiscent. Seeds more or less flattened, usually marked in the centre of each face with an oval or horseshoe-shaped depression or opaque spot or ring, sometimes very obscure. Funicle usually thickened into a fleshy aril under or round the seed.—Trees, shrubs, climbers, or rarely undershrubs, with or without prickles or stipular spines. Leaves twice pinnate or reduced to a simple phyllodium or dilated petiole. Flowers usually yellow or white, in globular heads or cylindrical spikes, often polygamous.

A very large genus, dispersed over the warmer regions of the globe, and in Australia the most numerous in species of all Phænogamous genera. Of the Australian species, one only, A. Farnesiana, is common to the warmer regions of the New and the Old World, the remainder are all endemic. Of these by far the greater number belong to the phyllodineous series, which is entirely Australian, with the exception of a very few from New Caledonia, the Indian Archipelago, and the Pacific Islands, none of which can be specifically identified with any Australian ones, although very near some of the tropical species. Acacias are also very generally distributed over every part of Australia, but are entirely absent from New Zealand.

Taken as a whole, the genus is the most marked of those which have been dismembered from the Linnæan Mimosa, being at once distinguished from Inga and its allies by the free stamens, and from the true Mimoseæ by their indefinite number; but, for its subdivision, notwithstanding considerable differences in the flowers and more striking ones in the fruit, it has been found impossible to establish upon these differences any definite sections, even among those species where both flowers and fruit are well known, and in the majority of specimens gathered, the pod is neglected by collectors. Species with the most discrepant pods are sometimes almost identical in foliage, and, on the other hand, pods apparently identical, sometimes belong to species widely different in foliage and even in flower. I have therefore on each of the three occasions when I have gone through the genus in detail, with a large number of specimens before me, in vain sought for any better mode of distributing the species than in Series, founded chiefly upon foliage and inflorescence. There are only one or two species in which the cylindrical spike appears to pass into the globular head, and the venation of the phyllodia and on the common petiole in the compound leaf seldom afford even a specific distinction, and the bracts in the flower-head still less so, and I have therefore in the descriptions seldom mentioned them. The bracts are almost always narrow, closely packed in with the flowers, and more or less dilated at the end, sometimes quite peltate; generally the outer ones of each head are flatter, the inner ones more slender and pro-

portionally more dilated at the end, where they are usually ciliate and sometimes acuminate. The characters derived from the united or free sepals must be used with caution, for the sepals, at first united, often separate as the flowering advances. The forms assumed by the pod are tolerably constant in species, although rarely available for classing them in groups; so it is also with the seeds, transverse or longitudinal, and with the infinite variety of forms assumed by the funicle. This funicle on the ripe seed rarely remains short and filiform, it almost always forms two or three folds under the seed, the end of the last fold or the whole of the last and more or less of the lower folds being thickened into a variously-shaped small fleshy aril, usually described as a strophiole, but always a part of the funicle and continuous with the lower filiform part, or forming the whole funicle; occasionally the thickened part is much elongated extending round one side of the seed, returning on the same side and forming another double fold on the other side, or completely encircling the seed in a double fold returning on the same side, or extending twice round without a return, or even encircling it in a triple fold. All these and other modifications appear to be constant in each species, but only rarely available for specific diagnosis, for in many species the funicle is as yet unknown; it is often unsafe to rely on it unless the seed is quite ripe, and then the thin part of the funicle is so brittle that it is often destroyed merely by the elastic opening of the pod.

Leaves all or mostly reduced to flat terete or subulate phyllodia or minute scales without leaflets. (Phyllodiness.)

Taylounea.)	
Flowers in globular heads.	
Phyllodia none or reduced to minute scales.	
	77 4
Branches rush-like, not spinescent	11. A. spinescens.
Phyllodia (either small and tooth-like or vertically flattened or	IV. CALAMIFORMES.
elongated) decurrent on or continuous with the branches.	
Branches flat or 2-winged by the decurrent phyllodia	T 4
Branches 3-winged or the phyllodia (usually pungent) very	I. ALATÆ.
shortly or scarcely decurrent, but not articulate	II Communication
Phyllodia articulate on the stems, at least when old.	II. Continu.E.
Phyllodia rigid, tapering into pungent straight points, usually	
narrow or short, not whorled (except in 43 A perticulate)	III, PUNGENTES.
Inyllodia linear-subulate, terete or tetragonous rerely slightly	III. I UNGENIES.
flattened, obtuse or with incurved or innocuous points, not	
whorled	IV. CALAMIFORMES.
Physiodia terete or slightly flattened, usually short, all whorled	I'' CHEMITORNES.
or crowded and irregularly whorled or clustered	V. BRUNIOIDEÆ.
Phyllodia vertically flattened, broader than thick obtuse acute	La L
or with incurved or innocuous points.	
Phyllodia 1-nerved, the veins pinnate, reticulate or rarely 1	
or 2 secondary small nerves from the base on one side of	
the midrib. Phyllodia with 2, 3 or more parallel nerves Flowers in cylindrical or oblong spikes.	VI. UNINERVES.
Phyllodia with 2, 3 or more parallel nerves	VII. PLUBINERVES.
Flowers in cylindrical or oblong spikes.	
Phyllodia rigid, tapering into pungent points.	
Phyllodia several-nerved, decurrent on the stem	10. A. triptera.
Inflorid 1- of 5-nerved, articulate on the stem	III PHNGENTER
Phyllodia obtuse or with a callous, innocuous or hooked point	VIII. JULIFLORÆ.
Leanes all hinimate Florens in alabelen 1.	
Leaves all bipinnate. Flowers in globular heads or rarely in spi	kes. (Bipinnatæ.)
Stipules none or brown and scarious. Spines none or axillary.	
Flower-heads several, in axillary or paniculate racemes	IX. BOTRYOCEPHALE.
Flower-heads or spikes single, on axillary solitary or clustered	
peduncies	X. Pulchellæ.
Stipules all or some of them spinescent. Flower-heads single on	
axillary peduncles	XI GUMMITTED E

DIV. I. PHYLLODINE E.—Leaves mostly phyllodineous without lea Series I. Alatæ.—Phyllodia bifariously decurrent, forming 2 opposite	flets.
stem, the free part short, broad, and acute, or rigid and pungent-pointed. Fl. bular heads, on axillary simple peduncles, rarely appearing racemose by the the flowering branches.	announ in ala
Wings broad, continuous with the next below, removing the avillary	
bud to a distance from the stem	næoides.
Wings broad, free part of the phyllodia usually short and broad, with an almost central nerve.	
Phyllodia without glauds. Flowers numerous in a small compact head. 2. 4. gla.	ucoptera.
6 to 12-flowered	a.
Wings narrow, free part narrow or with the nerve almost marginal. Phyllodia erect, incurved. Flowers numerous in the head,	
5-merous. Petals smooth Phyllodia rigid, recurved. Flowers few in the Lead, 4-merous. Petals strongly striate	
Series II. Continue.—Phyllodia narrow, rigid, tapering into a pungent tinuous with the stem and shortly and trifariously or irregularly decurrent. heads or spikes on axillary simple peduncles.	maint
Flowers in globular heads.	
Phyllodia linear or linear-lanceolate, flattened, 1-nerved. Heads nearly sessile, with 4 to 8 flowers	rva.
Heads pedunculate, compact, with above 40 flowers 7. A. trigo Phyllodia terete, very shortly decurrent.	mophylla.
Lower phyllodia 1 to 2 in. long, upper ones short and distant. Pod curved or twisted, about 2 lines broad 8. A. conti	nua.
Phyllodia crowded on the branchlets, slender and rigid, 2 to 4 in. long. Pod nearly 1½ in. broad	e.
nerved	lera.
(106, A. anceps, has some of the phyllodia only half articulate on the angles of and 59, A. extensa, has the branches often narrowly winged, with phyllodia so distinguished from them.)	arcely to be
Senies III. Pungentes.—Rigid shrubs, branches in some species spinesce lodia articulate on the stem, rigid, tapering into pungent points, subulate, lin	
(Besides the following species, a few of the short-leaved Calguitermes and o	les.
rigid-leaved Flurinerves might almost be classed among the Pungentes.)	t the small
A. Aphyllæ.—Phyllodia none. Branches spinescent. Heads globular, sessile	
B. Plurinerves.—Phyllodia 2- or more nerved, or terete and nerveles. globular.	s. Heads
Phyllodia falcate, not exceeding ½ in. (See Series VII. Plurinerves.) Phyllodia linear-lanceolate, 3- or more nerved. Petals smooth or	
with prominent midribs. Sepals distinct, narrow, spathulate (Western species except A.	
Oswaldi). Phyllodia attached by a broad base very rigid and nungent 19 4 1-4	
Phyllodia slightly contracted at the base, very rigid and pungent 13. A. cochle Phyllodia linear-lanceolate, with 3 prominent nerves, scarcely	earis.
Phyllodia rigid, but scarcely pungent, several-nerved. Flower-	
heads almost sessile (Eastern species)	ldi.
woolly	era
Seeds obliquely transverse. Branches glabrous, somewhat viscid (tronical succies)	rvata.
Phyllodia nearly terete, striate with several nerves or nerveless. Petals smooth.	carpa.
Stipules lanceolate, small and very deciduous. Phyllodia divaricate, straight or slightly incurved. Peduncles	
Phyllodia straight, short, with not more than 2 perves Per	
Phyllodia divaricate, straight or recurved. Peduncles as long.	
Phyllodia crowded, incurved, mostly under 1 in. Petals with-	ıla.
Stipules setaceous or spinescent.	a
Stipules slender. Phyllodia divaricate, recurved or flexuose. Pod flat, with raised margins	lonhalla
with short purgent points. Petals concave and thickened	
at the top	olia.
Phyllodia mostly 4 in. long, rather broad	
Phyllodia ½ to 1 in. long, narrow Phyllodia 1 to 2 in. long, very narrow, with hooked points 23. A. barbine Petals smooth Phyllodia 1 to 1 in. and harboned points 24. A. ataxipi	1 17 .
Phyllodia subulate, terete, finely striate. Heads sessile oveid	ri.
Flowers 5-merous	la.

C. Uninerves.—Phyllodia 1-nerved. Heads globular. Petals prominently striate. Pod thick, with broad smooth margins. Flowers 5-merous.
Phyllodia crowded, under ½ in. long, obliquely oblong-lanceolate, often falcate
Phyllodia oblong-lanceolate, under 1 in long. Branches spinescent, woolly
Pod 2½ to 3 lines broad, not contracted between the seeds when perfect (E. and S. species)
Pod 1½ lines broad, regularly contracted between every seed (N.W. species)
Phyllodia mostly recurved. Branches tomentose. Peduucles slender. Heads small. Pod-valves very convex, striate 31. A. laricina. Phyllodia straight, clustered at the old nodes. Peduncles
sleuder. Funicle encircling the seed 32. A. tetragonophylla. Phyllodia straight, often numerous, but not clustered. Pe-
duncles very short
Phyllodia scattered, erect or slightly spreading, often 1 in. long. Peduncles slender, mostly clustered 33. A. genistoides. Phyllodia scattered, divaricate, rather broader or with a small glandular angle at the base. Petals without any prominent nerve. Peduncles slender 35. A. ingrata.
Funicle filiform
Petals without any prominent nerve. Heads almost sessile 37. A. asparagoides. (See also 93, A. vomeriformis, with the glandular angle more prominent.)
Flowers mostly 4-merous or 3-merous. Sepals free, narrow. Funicle shortly thickened 38. A. tenuifolia.
Peduncles longer than the flower-head.
Phyllodia linear. Funicle folded and thickened under the seed
dilated and clasping the base of the seed 40 A runical
Flower-heads almost sessile, few-flowered. Flowers 6 to 10, mostly 4-merous
D. Spicate Phyllodia 1- to 3-nerved. Flowers 4- or 3-merous in culindrical oblong
Spiles or heads few floward almost and
Flowers 1 to 4, mostly 4-merous
Spikes cylindrical or ovoid, dense. Flowers mostly 4-merous. Phyllodia linear-lanceolate, very rigid, 3- or 4-nerved and striate 42. A. oxycedrus. Phyllodia subulate, linear, or oblong, mostly 1-nerved and verticillate
Spikes interrupted, slender. Flowers mostly 3-merous
Series IV. Calamiformes.—Phyllodia rarely none, more frequently narrow-linear or subulate, terete tetragonous or very slightly flattened, articulate on the stem, obtuse or with short innocuous or recurved points, 1- or several-nerved. Flowers in globular heads on simple axillary peduncles, or rarely several heads in a short raceme, or irregularly racemose by the abortion of the floral phyllodia.
(Some of Ser. VIII., Juliftoræ, have similar phyllodia, but cylindrical or ovoid flower-spikes. 21, A. sulcata, and a few allied Pungentes, have varieties with the phyllodia almost obtuse, bringing them near to the short-leaved Calamiformes.)
A. Subaphyllæ.— Phyllodia none or very few and slender, resembling the branches. Flowers 1 to 4 in the head, 4-merous. Petals striate. Pod 4-angled 46. A. tetragonocarpa. Flowers numerous, 5-merous. Petals smooth. Pod not angled. Flower-heads racemose
B. Plurinerves.—Phyllodia striate, with 2, 3, or more nerves on each side.
No calyx or corolla. Flower-heads in a raceme, enclosed when young in imbricate deciduous scales
Phyllodia numerous, under $\frac{1}{2}$ in long, obtuse or with a short straight point. Peduncles 3 to 4 lines long.
noint Pedundes 3 to 4 lines long
Petals narrow, membranous (tropical species) 50. A. Bynoeana. Petals concave and thickened at the end (Western species) . 20. A. teretifolia. Phyllodia mostly 1½ to 3 in. or longer. Peduncles very short.
Nerves of the phyllodia few and prominent, usually 3. Sepals narrow-spathulate, free (Western species) 51. A. triptycha.
Nerves of the phyllodia numerous, very fine, often only visible under a lens.
Phyllodia slender, terete, scarcely hooked. Sepals narrow- spathulate, nearly free. Pod unknown (Western species) 52. A Jentoneura
known. Pod broad, flat, membranous (Southern species) 54. A manuscarna
united to the middle. Pod very parrow, twisted convex.
coriaceous (Eastern species) 53. A. rigens. (185, A. lineolata, has sometimes nearly the phyllodia of A. leptoneura, but decidedly flattened and often much broader.)

C. Uninerves.—Phyllodia 1-nerved or nerveless. Phyllodia mostly elongated, above 1½ in. long.
Peduncles 1-headed. Flowers 1 to 4 in the head, 4-merous. Petals striate
Peduncles 1-headed. Sepals spathulate (Eastern species). Phyllodia $1\frac{1}{2}$ to 2 or rarely 3 in long; nerve prominent.
Petals with a prominent midrib
Peduncles mostly bearing a raceme of 2 or 3 heads. Calyx
shortly toothed or lobed (Eustern species) 57. A. calamifolia. Peduncles 1-headed or rarely irregularly racemose. Calyx truncate (Western species).
Phyllodia terete, obscurely nerved
almost winged
Physiodia very rigid, tetragonous, with very prominent nerves. 1
in long or rather more
Branches not thorny. Phyllodia mostly ½ to ¾ in., narrowed but not petiolate.
Peduncles slender
short 62. A. uncinella. Branches spinescent
(147, A. subulata, has sometimes the long slender phyllodia scarcely broader than in A. juncifolia, but is readily distinguished by the small flower-heads several in a raceme.)
Series V. Brunioideæ.—Phyllodia numerous, small, linear-subulate (except A. conferts), verticillate, clustered or crowded, obtuse or with innocuous or rarely rigid points. Flowers in globular heads or simple axillary peduncles, usually exceeding the phyllodia.
Phyllodia all regularly verticillate. Phyllodia many in the whorl, rigid, almost pungent, ½ to 1 in. long. Petals smooth
long. Petals smooth
Phyllodia recurved at the end, sulcate. Pod sessile 65. A. lycopodifolia. Phyllodia recurved at the end, not sulcate. Pod on a stipes
of 2 to 3 lines
Phyllodia 5 to 7 in the whorl, recurved at the end, not sulcate. Petals not striate, with a prominent midrib Phyllodia in clusters of chart 2 B. H.
Phyllodia in clusters of about 3. Pod almost woody, narrowed into a long stipes Phyllodia growded but control and in the second
Phyllodia crowded, but scattered or irregularly verticillate, under † in. long. Phyllodia linear-subulate
Phyllodia flattened
Series VI. Uninexves.—Phyllodia vertically flattened, either narrow and obtuse or with a short oblique point, or broad and obtuse, acute or rarely pungent-pointed, with 1 central or nearly marginal nerve, or very rarely 2-nerved. Flowers in globular heads, either on simple axillary peduncles, solitary, in pairs or clusters, or several in axillary racemes.
A. Spinescentes.—Rigid shrubs, with spinescent branches. Phyllodia small, usually narrow, not pungent, without marginal glands. Stipules minute or none (except sometimes in A. scabra). Peduncles 1-headed.
Phyllodia narrow-linear.
Scabrous-pubescent. Phyllodia scattered. Stipules setaceous . 72. A. scabra. Nearly glabrous. Phyllodia clustered. Sepals free 73. A. nodiflora. Glabrous. Phyllodia scattered.
Flowers not above 10, in a very small head. Calyx very short, truncate. Funicle filiform. 74. A. spinosissima.
the corolla. Funicle club-shaped
Phyllodia obovate oblong or lanceolate, 2 to 4 lines long. Calyx very short, truncate
B. Armatæ. Shrubs or undershrubs not spinescent (creat sand
or less undulate, with a central nerve and usually nerve-like marginal ylands none or very small and obscure. Stipules generally persistent within a marginal ylands
Phyllodia short, broadly recurved-falcate, purgent pointed. Column
none. Petals 5, hirsute
Glabrous. Buds cbtuse. Stipules spinescent
Petals glabrous. Glabrous, rigid and spinescent. Phyllodia obliquely ovate-lan-
ceolate rigid, almost pungent. Stipules small 80. A. congesta. Glabrous, rigid, unarmed except the stipules. Phyllodia ob-
Glandular-pubescent and resinous. Phyllodia obliquely ob-
Hirsute or glabrous. Phyllodia obliquely semiovate or lanceolate. Stipules spinescent (wanting in some garden va-
Densely pubescent, rigid and spinescent. Phyllodia broadly
ovate, pungent-pointed
Shrubby. Phyllodia obovate-orbicular, not narrowed at the base
Undershrub. Phyllodia obliquely obovate or oblong, narrowed at the base. Stipules setaceous 87. A. pilosa.
x 2

Habit and phyllodia of A. pilosa. Bracts more acuminate. Stipules with a broad base
Some garden specimens of A. armata have some of the phyllodia 2-nerved; the other 2- or more nerved species, formerly included in Armata, are now transferred to the Pluri- nerves.
107, A. hispidula, and 108, A. undulifolia, among Brevifolia, have the undulate phyllodia, but not the stipules of Armata, and 120, A. sentis, and 121, A. dentifera, among Angustifolia, have occasionally spinescent stipules.
C. Triangulares.—Shrubs usually rigid and occasionally spinescent. Phyllodia small, rigid, the nerve either near the lower margin or rarely central, the upper side more or less dilated, the margin rounded or angular, with usually a gland at the angle. Stipules spinescent or setaceous or minute. Peduncles 1-headed.
Phyllodia tapering to a pungent point, the glandular angle below the middle or diverging from the base. Phyllodia hastate or lanceolate, the nerve nearly central. Flowers
4-merous, 3 to 5 (usually 4) in the head. Petals glabrous
Flowers 4-merous, 8 to 12 in the head
Flowers 4-merous, 2, rarely 3 or 4 in the head 94. A. biflora. Flowers 4-merous, 6 to 10 or more in the head. Phyllodia triangular or rhomboidal, not much longer than
broad at the top. Phyllodia cuneate, much longer than broad. Flowers mostly 5-merous, 8 to 20 or more in the head. Glandular angles of the phyllodia broad and rounded, the pointed angle at the end of the lower side scarcely pungent. Calyx lobed.
Phyllodia very coriaceous. Petals hirsute 97. A. dilatata. Phyllodia usually small, slightly coriaceous. Petals glabrous.
Phyllodia obovate or broadly cuneate-oblong
D. Brevifoliæ.—Shrubs, never spinescent. Phyllodia either broad ovate or falcate, or narrow, oblong or linear, short (under 1 in. or larger in A. anceps), obtuse or with a small recurved innocuous point, occasionally undulate and more pointed. Stipules minute or none. Peduncles 1-headed.
Phyllodia from obovate-orbicular to linear, obtuse but with the nerve ending in a small recurved point. Sepals free, linear-spathulate. Phyllodia rarely exceeding ½ in. Branches scarcely angular.
Flowers 10 to 15 or rarely 20 in the head (Eastern species).
Phyllodia broadly obovate or orbicular
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cupeate Phyllodia obovate-oblong or obliquely cupeate Pod broad
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cuneate. Phyllodia obovate-oblong or obliquely cuneate. Pod broad Funicle long, much-folded Phyllodia crowded, linear, obtuse, under ½ in long. Sepals linear spathulate 774 According
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cuneate. Phyllodia crowded, linear, obtuse, under ½ in long. Sepals linear spathulate Phyllodia from orbicular to cuneate or linear, very obtuse or mucronate. Sepals united in a toothed calvx (except A. dura). Branches with 3, rarely 2 acute angles. Phyllodia proy thick
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cuneate. Phyllodia obovate-oblong or obliquely cuneate. Pod broad: Funicle long, much-folded. Phyllodia crowded, linear, obtuse, under ½ in. long. Sepals linear-spathulate Phyllodia from orbicular to cuneate or linear, very obtuse or mucronate. Sepals united in a toothed calvx (except A. dura). Branches with 3, rarely 2 acute angles. Phyllodia very thick, rather large, broad or narrow. Flower-heads dense, on thick peduncles Branches scarcely angular. Phyllodia oblong falcate, often undulate the nerva-like margin.
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cuneate. Pod broad: Funicle long, much-folded. 105. A. Meissneri. Phyllodia crowded, linear, obtuse, under ½ in long. Sepals linear-spathulate Phyllodia from orbicular to cuneate or linear, very obtuse or mucronate. Sepals united in a toothed calvx (except A. dura). Branches with 3, rareiy 2 acute angles. Phyllodia very thick, rather large, broad or narrow. Flower-heads dense, on thick peduncles Branches scarcely angular. Phyllodia oblong-falcate, often undulate, the nerve-like margin scabrous denticulate. Phyllodia broadly ovate or orbicular, mucronate, much undulate, entire. Peduncles slender. 108. A wedulifalia.
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cuneate. Pod broad: Funicle long, much-folded. Phyllodia crowded, linear, obtuse, under ½ in. long. Sepals linear-spathulate Phyllodia from orbicular to cuneate or linear, very obtuse or mucronate. Sepals united in a toothed calvx (except A. dura). Branches with 3, rarely 2 acute angles. Phyllodia very thick, rather large, broad or narrow. Flower-heads dense, on thick peduncles Branches scarcely angular. Phyllodia oblong falcate, often undulate, the nerve-like margin scabrous denticulate. Phyllodia broadly ovate or orbicular, mucronate, much undulate, entire. Peduncles slender Phyllodia linear or linear-oblong, very obtuse, with a thick nerve within the lower edge, and a very thick nerve-like upper edge. Flower-heads small, few-flowered.
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cuneate. Pod broad: Funicle long, much-folded. 105. A. Meissneri. Phyllodia crowded, linear, obtuse, under ½ in. long. Sepals linear-spathulate Phyllodia from orbicular to cuneate or linear, very obtuse or mucronate. Sepals united in a toothed calvx (except A. dura). Branches with 3, rarely 2 acute angles. Phyllodia very thick, rather large, broad or narrow. Flower-heads dense, on thick peduncles Branches searcely angular. Phyllodia oblong falcate, often undulate, the nerve-tike margin scabrous denticulate. Phyllodia broadly ovate or orbicular, mucronate, much undulate, entire. Peduncles slender Phyllodia linear or linear-oblong, very obtuse, with a thick nerve within the lower edge, and a very thick nerve-like upper edge. Flower-heads small, few-flowered. Calvx shortly lobed or toothed. Branches usually hoary (Eastern species) Sepals free, spathulate. Branches glahrons Phyllodia pure.
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cuneate. Pod broad: Funicle long, much-folded. Phyllodia crowded, linear, obtuse, under ½ in long. Sepals linears spathulate Phyllodia from orbicular to cuneate or linear, very obtuse or mucronate. Sepals united in a toothed calyx (except A. dura). Branches with 3, rareiy 2 acute angles. Phyllodia very thick, rather large, broad or narrow. Flower-heads dense, on thick peduncles Branches scarcely angular. Phyllodia oblong faleate, often undulate, the nerve-like margin scabrous denticulate. Phyllodia broadly ovate or orbicular, mucronate, much undulate, entire. Peduncles slender Phyllodia linear or linear-oblong, very obtuse, with a thick nerve within the lower edge, and a very thick nerve-like upper edge. Flower-heads small, few-flowered. Calyx shortly lobed or toothed. Branches usually hoary (Eastern species) Sepals free, spathulate. Branches glabrous. Phyllodia very rigid (Western species) Phyllodia cuneate-oblong, very obtuse, thick and fleshy proper descriptions.
Phyllodia lanceolate Phyllodia obovate-oblong or obliquely cuneate. Pod broad: Funicle long, much-folded. 105. A. Meissneri. Phyllodia crowded, linear, obtuse, under ½ in. long. Sepals linear-spathulate Phyllodia from orbicular to cuneate or linear, very obtuse or mucronate. Sepals united in a toothed calvx (except A. dura). Branches with 3, rarely 2 acute angles. Phyllodia very thick, rather large, broad or narrow. Flower-heads dense, on thick peduncles Branches searcely angular. Phyllodia oblong falcate, often undulate, the nerve-tike margin scabrous denticulate. Phyllodia broadly ovate or orbicular, mucronate, much undulate, entire. Peduncles slender Phyllodia linear or linear-oblong, very obtuse, with a thick nerve within the lower edge, and a very thick nerve-like upper edge. Flower-heads small, few-flowered. Calvx shortly lobed or toothed. Branches usually hoary (Eastern species) Sepals free, spathulate. Branches glahrons Phyllodia pure.

E. Angustifoliæ Shrubs or trees, not spinescent. Phyllodia oblong-lanceolate or
linear, occasionally falcate, with 1 central nerve or rarely 2-nerved, mostly above 1 in. long. Stipules minute or none, or rarely spinescent. Peduncles 1-headed. Some of the species very resinous.
Peduncles very short, rarely above 4 in. long. Usually resinous. Phyllodia oblong-linear or lanceolate, faintly 1-nerved. Sepals
free, narrow
Phyllodia 2-nerved. Calyx toothed or lobed. Phyllodia very obtuse, mostly under 1½ in
Physiodia mostly acute, above 13 in
Phyllodia 1-nerved. Calyx toothed or lobed. Phyllodia mostly acute or mucronate; lateral veins fine and
not very conspicuous
not very conspicuous
Peduncles usually nearly or above ½ in long. Phyllodia always
l-nerved. Very resinous. Lateral veins few, rather prominent, anastomo-
sing. Calyx toothed or lobed. Phyllodia lanceolate or linear-lanceolate
Phyllodia narrow-linear, numerous
Not resinous. Lateral veins scarcely conspicuous.
Phyllodia narrow-linear, thick, the midrib obscure. Funicle
linear, thick, scarcely folded. (Flowers unknown) 119. A. ramosissima.
Phyllodia with a prominent midrib. Calyx short, truncate
Sepals narrow, free.
Pedicels solitary or in pairs, the upper ones often race-
mose from the abortion of the phyllodia. Stipules
often spinescent. Phyllodia rarely shove 2 in long.
Phyllodia very narrow. 3 to 8 in, long 121 A dentifera
Phyllodia rarely above 2 in. long
spinescent. Phyllodia lanceolate-falcate, 4 to 6 in.
long
veinlets when visible diverging from the midrib or reticulate. Flower-heads globular, few or all or nearly all in axillary racemes, very rarely a few solitary in the lower axils of a young branch. Flowers usually small and 5-merous in all except A. myrtifolia. Petals not striate.
Phyllodia mostly long, falcate-lanceolate or almost linear, narrowed
at the ends, more or less distinctly penniveined. Calyx about
half as long as the corolla.
Eastern species. Flower-heads small, Phyllodia mostly long lanceolate-falcate.
Sepals free, narrow. Gland of the phyllodia at the base or
none. Funicle surrounding the seed 123 A falcata
Sepals united. Gland of the phyllodia at the base or none.
Veiulets transverse; funicle short
base, a secondary nerve often leading to it. Veinlets ob-
tuse. Funicle surrounding the seed 125. A. penninervis.
Phyllodia mostly long linear-talcate.
Sepals united. Gland distant from the base or none. Funicle surrounding the seed
Sepais free or nearly so. Gland at the base of the phyl-
lodia minute or none. Funicle short, the last fold
Clavate
Western species (the first near A. sentis, the second near A. fal- cata, the others near A. pycnantha).
Fhyllodia 1-nerved.
Sepals narrow, quite distinct
Sepals united, at least at first.
Flower-heads small, on short slender peduncles. Funi-
cle long, folded
Funicle clavate, as long as the seed, scarcely folded
at the base.
Phyllodia more or less prominently penniveined 130. A. cyanophylla.
Phyllodia smooth, the veins scarcely conspicuous . 129. A. saligna.
Phyllodia 2-nerved
rayloula long lateal-lanceolate or almost linear or thick and nearly straight. Flower-heads dense, rather large. Calyx at least ong as the corolla.
Phyllodia penniveined, much falcate. Seeds longitudinal, funicle
clavate, scarcely folded at the base
Invitodia thick, straight or falcate, obtuse. Seeds transverse, the
funicle almost encircling them

Phyllodia straight or falcate, thick, oblong-linear and obtuse or rarely lanceolate acute, the lateral veins inconspicuous or very obscure. Calyx about half as long as the corolla, readily se-	
Phyllodia 3 to 6 in. long, obtuse, incurved. Sepals narrow, quite distinct. Two folds of the funicle encircling the seed.	133. A. gladiiformis.
Phyllodia 1½ to 3 in. long, obtuse, nearly straight. Racemes very short. Sepals at first cohering Phyllodia about 3 in. long, rather acute, usually with 1 gland.	134. A. obtusata.
Kacemes many-headed. Senals at first concring	135. A. rubida.
Phyllodia (on flowering branches) 1½ to 2½ in. long, usually with 2 or 3 distant plands. Racemes many-headed. Sepals at first	
cohering. Three folds of the funicle encircling the seed Phyllodia 2 to 5 in. long, scarcely falcate, thick, obscurely reti-	136. A. amæna.
culate. Racemes few-headed. Sepals at first cohering. Funicle clavate, scarcely folded at the base. (See also the longest-leaved forms of A. crassiuscula and A. decor	137. A. hakeoides.
(See also the longest-leaved forms of A. crassiuscula and A. decor Phyllodia linear, thick, rarely falcate-lanceolate, usually without	·a.)
glands, the lateral veins reticulate and obscure. Seeds longi-	
tudinal. Calyx short, thin, truncate.	300 4 - 750-
Phyllodia Innestly oblong-linear, obtuse. Pod thick Phyllodia Innesolate-linear with an oblique or recurved callous	
point (western species). Calyx lobed, thin, half as long as the corolla (Western species).	139. A. rostellifera.
Phyllodia all narrow-linear, erect. Pod narrow, flat, thinly coriaceous. Funicle folded into a small fleshy aril	140. A. pycnophylla.
Phyllodia all narrow-linear. Flower-heads small. Pod ½ in. broad, very flat, coriaceous. Funicle long, folded	141 A. Harveyr.
Phyllodia linear or lanceolate, usually thick. Sepals very thin or narrow, distinct. Pod very flat, obtuse. Seeds transverse.	
Young racemes often enclosed in imbricate scales.	
Young branches acutely triquetrous. Pod broad coriaceous and glaucous. Sepals very thin.	
Phyllodia mostly above 3 in. long (Eastern species)	142. A. suaveolens.
Phyllodia mostly above 3 in. long (Eastern species) Phyllodia mostly under 3 in. long (Western species) Phyllodia long, lanceolate, penniveined (Western species) Phyllodia long, lanceolate, penniveined (Western species)	144. A. Lindleyi.
Young branches scarcely angular. Fod membranous. Sepais	
Phyllodia under 2 in long oblong-linear or lanceolate (Wes-	145. A. leptopetala.
tern species) . Phyllodia several inches long, narrow linear (Eastern species). Phyllodia very narrow-linear, rather thin, 3 to 6 in long. Flowers	146. A. Murrayana.
of A linifolia	147. A. subulata.
Phyllodia rarely exceeding 1½ in., linear lanceolate or obliquely oblong, not very thick, without thick margins.	
Pod flat 4 to 6 lines broad, not contracted between the seeds. Seeds along the centre.	
Glabrous or pubescent Flowers under 15 in the head.	148 4 limifolia
Phyllodia linear, straight Phyllodia lanceolate-falcate or slightly oblong Hispid with long hairs. Flowers above 20 in the head	149. A. prominens.
Pod rather thick, corraceous, 2 to 24 lines broad, contracted be-	
tween the seeds. Flowers about 20 in the head Pod flat, about 3 lines broad, often contracted between the seeds.	151. A. crassiuscula.
Seeds close to the edge.	
Phyllodia linear or lanceolate, 1 to 1½ in. Flowers 15 to 20 in the head	152. A. decora.
Phyllodia obliquely oblong or broadly lanccolate, rarely above 1 in long Flowers 8 to 15 in the head	159 A harisalia
Phyllodia falcate oblong or obliquely ovate, rarely above 1 in.	
long. Flowers 4 to 10 in the head. Phyllodia ovate obovate or broadly oblong, usually under 1 in., or	154. A. lunata.
in Nos. 157 and 158 often 1½ in. long. Racemes short with few heads. Flowers numerous.	
Sepals free or separating. Funicle short, clavate	155. A. brachybotrya.
	156. A. Wattsiana.
Racemes much longer than the phyllodia. Glaucous and scarcely pubescent. Phyllodia ovate obovate or	
broadly oblong, 1 to $1\frac{1}{2}$ in long. Flowers numerous . Softly pubescent. Phyllodia elliptical falcate or broadly and	157. A. podalyriæfolia.
obliquely oblong, 1½ in. or rather longer. Flowers numerous	158. A. uncifera.
Hirsute. Phyllodia ovate-elliptical recurved obliquely aristate mostly about ½ in. Flowers 10 to 20	159. A. vestita.
Glancous and glabrous. Phyllodia falcate-ovate or curved- oblong, under 1 in. long. Flowers 10 to 20	
Glabrous. Phyllodia falcate-obovate or trapezoid, usually 2	
nerved and not exceeding ½ in. Flowers 8 to 12 Phyllodia ovate, spinescent, 1 to 3 in. long. Stipules spinescent.	-
Racemes exceeding the leaves. Flowers numerous Phyllodia incurved-falcate, ovate lanceolate or linear, coriaceous	162. A. pyrifolia.
with thick margins. Flowers 4-merous, 2 to 4 or rarely 6 in the head. Racemes rarely exceeding the leaves	163. A. myrtifolia.

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Series VII. Plurinerves.—Phyllodia vertically flattened, obtuse or with an innecuous or recurved point (rarely purgent when the phyllodium is broad), with 2 or more longitudinal nerves. Flowers in globular heads on axillary peduncles, either solitary or
  clustered or shortly racemose.
     A. Armatæ. - Stipules spinescent. Phyllodia fulcate, subulate-acuminate or almost
 pungent.
 B. Triangulares.—Stipules setaceous or minute, not spinescent. Phyllodia small (under \frac{1}{2} in. long), broadly falcate-ovate or triangular with small points often pungent.
 Phyllodia triangular. Pod narrow, curved or twisted, glabrous.
    Branches usually spinescent. Phyllodia rather distant. Flowers
       20 to 30 in the head .
                                                                                   . 166. A. sublanata.
    Branches elongated, rather rigid. Phyllodia numerous. Flowers
Flowers not \( \frac{1}{4} \) line long. Calyx much shorter than the corolla. 168. A. deltoidea. Flowers above 1 line long. Calyx nearly as long as the corolla. 169. A. stipulosa.
    (95, A. decipiens and some allied 1-nerved species, have occasionally 1 or 2 secondary
 nerves, but fainter and shorter than the principal one.)
C. Brevifoliæ.—Phyllodia under 1 in. long, obovate ovate or broadly oblong, very obtuse, often undulate. Stipules inconspicuous.
Phyllodia under 1 in. or very rarely 1/2 in. long. Petals smooth.

Phyllodia faintly 2-nerved, very oblique.

Phyllodia faintly several-nerved, obtuse but with an incurved
                                                                                    . 170. A. loxophylla.
       hair-like point
                                           . . . . . . . . . . . . 171. A. setulifera.
 Phyllodia ½ to 1 in. long. Petals strongly striate.

Phyllodia faintly nerved. Calyx shortly toothed. Pod thick and hard, hooked at the end, tapering into a long stipes.

Phyllodia several-nerved. Sepals spathulate, free or separating. Pod thinly coriaceous, flat with thickened parallel margins, glutinous and villous.
                                                                                    . 172. A. translucens.
        D. Oligoneuræ.—Phyllodia above \( \) in. and mostly above \( \) in. long, oblong lanceolate or linear, straight or scarcely falcate, with \( 2 \) or \( 3 \) nerves, faintly or not at all veined between them (except \( A \). Simsii), and not glutinous (except \( A \). subporosa).
 Flower-heads racemose. Phyllodia coriaceous, obtuse. Phyllodia 2-nerved. Flower-heads loosely and irregularly race-
veins between them.
       (13, A. cochlearis and some allied species among Pungentes, have occasionally scarcely pungent phyllodia, bringing them near to A. heteroclita.)
(113, A. montana, and 114, A. vernicifua, have usually 2 prominent nerves, but are closely connected with and pass into some 1-nerved species; both are glutinoüs.)
(191, A. Whanii, 194, A. iriophyila, and some others of F, Nervosa, have sometimes only 2 or 3 nerves, but usually either a greater number or they practemore with each other)
 2 or 3 nerves, but usually either a greater number or they anastomose with each other.)
E. Microneura.—Glabrous or glaucous and not glutinous. Phyllodia thick, veinless or with very fine, scarcely prominent parallel veins, nurrow or rarely short and obovate.
Phyllodia cuneate-oblong or almost obovate, very obtuse, about ½
Flower-heads on short peduncles.

Pod 2 to 3 lines broad, coriaccous, longitudinally striate . . . 182. A. homalophylla.
   Phyllodia linear, very narrow and rigid, 1½ to 2 in long . . . 185. A. lineolata.
F. Nervosæ.—Often viscid, occasionally glaucous, rarely hoary or pubescent. Phyllodia straight or sometimes falcate, coriaceous or thin, with several prominent nerves and, when broad, reticulate between them, the nerves rarely reduced to 3 when the phyllodium:
lodium is narrow.
. 188. A. hemignosta.
  midrib and several fine parallel nerves
                                                                                 . 192. A. heteroneura.
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Pl	rous, often viscid. Phyllodia rigid, narrow, obtuse, with few
	prominent, more or less anastomosing nerves. yllodia \(\frac{3}{2} \) to \(1 \) in. long. Veins scarcely anastomosing. Se-
	Nerves prominent. Peduncles glabrous
Ph	yllodia 1½ to 2 in. long. Veins more anastomosing Senals
Vone	very thin, united
Very	viscid. Nerves or veins numerous.
	Phyllodia narrow-linear
D-	Phyllodia linear-lanceolate or oblong
Not y	rves parallel scarcely anastomosing. Phyllodia narrow-linear Phyllodia linear-lanceolate or oblong
Ph	riches of vents usually numerous.
2 2 2	ocurate.
	Phyllodia oblong-lanceolate. Funicle folded and thickened
]	under the seed (Eastern species)
	double fold (Western species)
	The same same of the same of t
	rous. Funicle encircling the seed (Eastern species) 198. A. melanoxylon.
- i	deticulate veins numerous.
	Pod broad. Funicle encircling the seed in a double fold 198 4 malanamiles
- 1	Tunicle folded under the seed 100 4 immless
Phy	Reticulate veins few, scarcely conspicuous, nerves several, fine 200. A. harpophylla. illodia rather thin, straight, with several nerves and few fine
	intermediate veins.
Į	ranches terete
1	branches terete
G.	Dimidiate.—Phyllodia, usually broad, and often long, falcate or very oblique
axil	us. Phyllodia rather thin (3 to 4 in.). Flower-heads in ary racemes growing out into leafy branches. Pod 6 to 8
line	broad
Glabro	s broad
Hoary	s in axillary clusters or very short racemes 204. A. latescens. or glaucous. Phyllodia large, broad (3 to 4 in.). Pod e l in broad
abov	e l in, broad
Young	e 1 in. broad
1,	" I TOWEL HEADS SHIBIL IN A TERMINAL DANIELE POR &
	or velvety-tomentose. Phyllodia obovate or orbicular (1½
to 2	in.). Flower-heads in a terminal raceme
several	ES VIII. Juliflore Phyllodia vertically flattened or in a few species terete,
in cylin	nerved or rarely 1-nerved, obtuse acute or pointed, rarely slightly nungent. Flowers drical dense or interrupted spikes, rarely, when sessile, shortly oblong.
- 57	1 They will be bester, and try bottomy.
A. I	ligidulæ Phyllodia flat often short straight ablique on shortly fellet & S. L.
A. I dense (sigidulæ.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalantha). Flowers 5-merous. Species all tropical except the last 2
A. I dense (which a	ligidulæ. —Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalautha). Flowers 5-merous. Species all tropical except the last 2, re eastern.
A. I dense (which a Phyllod	tigidulæ.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalautha). Flowers 5-merous. Species all tropical except the last 2, in small, rarely above \(\frac{1}{2}\) in long undulate.
A. I dense (which a Phyllod Phyll	kigidulæ.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalautha). Flowers 5-merous. Species all tropical except the last 2, re eastern. ia small, rarely above \(\frac{1}{2}\) in long, undulate. odia mostly clustered. parrow 2 to 4 lines love. Spikes
A. I dense (which a Phyllod Phyll ses Phyl	Rigidulæ.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalautha). Flowers 5-merous. Species all tropical except the last 2, ia small, rarely above \(\frac{1}{2}\) in. long, undulate. odia mostly clustered, narrow, 2 to 4 lines long. Spikes sile. Sepals free
A. I dense (which a Phyllod Phyll ses Phyl	Rigidulæ.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalautha). Flowers 5-merous. Species all tropical except the last 2, ia small, rarely above \(\frac{1}{2}\) in. long, undulate. odia mostly clustered, narrow, 2 to 4 lines long. Spikes sile. Sepals free
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A. I dense (which a Phyllod Phyll ses Phyll sin Phyllod Phyll lon Phyllod lon or	kigidulæ.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalautha). Flowers 5-merous. Species all tropical except the last 2, ree eastern. ia small, rarely above ½ in. long, undulate. odia mostly clustered, narrow, 2 to 4 lines long. Spikes sile. Sepals free
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A. I dense (which a Phyllod Phyll ses Phyll sin Phyllod Phyll lon Phyllod lon or Tome 2 i nar Resin inte Glabro	significative.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalautha). Flowers 5-merous. Species all tropical except the last 2, recept A. megalautha). Flowers 5-merous. Species all tropical except the last 2, in small, rarely above \(\frac{1}{2} \) in. long, undulate. odia mostly clustered, narrow, 2 to 4 lines long. Spikes sile. Sepals free
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A. I dense (which a Phyllod Phyll ses Phyll sin Phyllod Phyll lon Phyllod lon or Tome 2 i nar Resin Glabro Phy Phy Phy Phy Si	sigidulæ.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalautha). Flowers 5-merous. Species all tropical except the last 2, recept A. megalautha). Flowers 5-merous. Species all tropical except the last 2, in small, rarely above \(\frac{1}{2} \) in. long, undulate. odia mostly clustered, narrow, 2 to 4 lines long. Spikes sile. Sepals free
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A. I dense (which a Phyllod Phyll ses Phyll sin Phyllod Phyll lon Phyllod In nar Resin inte Glabro r Phyllodia Phyllodia poin Spikes Phyllodia narr Branch Prod Branch Branch Branch	kigidulæ.—Phyllodia flat, often short, straight oblique or shortly falcate. Spikes except A. megalantha). Flowers 5-merous. Species all tropical except the last 2, re eastern. ia small, rarely above ½ in. long, undulate. odia mostly clustered, narrow, 2 to 4 lines long. Spikes sile. Sepals free odia broad, about ½ in. long. Spikes pedunculate. Calyx unte-toothed. Seeds oblique odia obscurely 3- to 5-nerved. Pod 3 to 6 lines broad. dia obscurely 1-nerved. Pod 1½ lines broad. Seeds gitudinal a rather broad, coriaceous, mostly 1 to 3 in. rarely 4 in. g, obtuse or with a glandular callous point, straight oblique shortly falcate. atose or pubescent. Stipules conspicuous. Phyllodia 1 to ni long, 2- to 4-nerved, with anastomosing veins. Pod row ous. Phyllodia 1 to 1½ in. long, 5- to 9-nerved, without rediate veins ous, except the young shoots. Phyllodia obliquely nar- land often large. llodia finely 3- to 5-nerved. Spikes pedunculate. Buds rry striate. Calyx sinuate-toothed llodia finely 3- to 5-nerved. Spikes pedunculate. Buds roy striate. Calyx sinuate-toothed broadly oblong-falcate, obtuse or with a hooked callous cessile, but narrowed at the base tipitate unterrupted. Flowers 2 lines long nearly straight, coriaceous, obtuse, 3 to 4 in. long. Pod severy serials.
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B. Tetrameræ. —Phyllodia flat, coriaceous or thin, straight or falcate, several-nerved or 1-nerved when very narrow. Spikes often loose. Flowers 4-merous. Seeds longitudinal.
Spikes very dense and sessile.
Phyllodia linear-lanceolate, very rigid, 5- to 7-nerved. Pod spi-
rally twisted (Western species)
Phyllodia long, broadly falcate, 2- to 5-nerved and much reticulate 224. A. Dallachiana.
Spikes usually slender or interrupted. Phyllodia broadly and obliquely obovate, \(\frac{3}{4}\) to 1\(\frac{1}{2}\) in. long 225. A. alpina.
Phyllodia rarely falcate, 2 to 6 in. long or more, 3- to 5-nerved,
broadly oblong and much reticulate or narrow and scarcely veined 226. A. longifolia.
Phyllodia long, narrow-linear, mostly 1-nerved
in having the phyllodia more rigid and pungent.)
(A few species of the following Stenophyllæ have 4-merous flowers, but with linear-terete
finely-striate phyllodia.)
C. Stenophyllæ.—Phyllodia linear-subulate or narrow-linear, straight or slightly
curved, terete or flat but thick, rarely under 2 in. long or above 1\frac{1}{2} lines broad. Spikes dense, short or slender, with small 5-merous, or in terete-leaved species often 4-merous flowers.
Spikes sessile. Flowers 5-merous or 4-merous. Pod narrow, with
longitudinal seeds in A. aciphylla and A. ephedroides, broad
with oblique seeds in A. brachystachya, unknown in the others.
Phyllodia linear-subulate, terete or nearly so.
Phyllodia pungent pointed, minutely striate under a lens. Spikes ovoid or oblong. Flowers 5-merous 228. A. aciphylla.
Phyllodia few-nerved. Spikes ovoid or oblong. Flowers 4-
Phyllodia minutely striate under a lens. Spikes 3 to 4 lines
long. Flowers 4-merous
III. 10Hg. Flowers 5-merous
Florious with lew prominent nerves. Spikes above ½ in.
Phyllodia ½ to 1 liue broad, flat but thick. Spikes under 4 lines
long.
Phyllodia finely striate, with the central nerve prominent. Flowers 4-merous. Sepals united
Flyhodia minutely strate under a lens. Flowers 5-merous.
Spikes pedunculate. Flowers usually 5-merous. Pod parrow with
longitudinal seeds in A. vituoides and A. oncinonhulla, hard
with valves rolling back elastically and oblique seeds, in A. xylocarpa, A. gonocarpa, A. drepanocarpa, and A. arida;
flat, broad, thin, with oblique or transverse seeds, in A. areara
and A. orachystachya.
Phyllodia terete or scarcely flattened, very finely striate under a lens.
Calyx thin and deeply divided, the lobes not spathulate 234. A. pityoides.
Sepais free, narrow-spainulate
Phyllodia terete, nerveless or obscurely 1-nerved. Calyx lobed. 235. A. xylocarpa. Phyllodia very narrow but flat, 1-nerved. Sepals free 236. A. gonocarpa. Phyllodia flat but thick prominguity?
- Arriodia nat but thick, prominently 5- or 5-nerved
Phyllodia with a hooked or rarely straight point (Western
species) Phyllodia obtuse (tropical species) Phyllodia obtuse (tropical species) 237. A. oncinophylla. Phyllodia obtuse (tropical species) 238. A. drepanocarpa.
In nodia hat, infinitely striate under a lens
Calyx shortly lobed
Spikes cylindrical
Spikes ovoid or oblong, 2 to 3 lines long 241. A. brachystachya.
D. Falcatæ Phyllodia usually long or large, more or less falcate, narrowed at each
end, with numerous parallel nerves or veins either all equal or the central one or several more prominent than the others, the smaller ones occasionally anastomosing. Spikes
stender, dense or rarely interrupted. Flowers mostly 5-merous.
(Several species of this group cannot be distinguished without the fruit.)
Pod (where known and probably in all the species) parrow with
longitudinal seeds, or rarely broader with the longitudinal seeds along the centre.
Phyllodia narrow-lanceolate or linear-lanceolate, rather thick
slightly falcate, with very fine parallel nerves, the midrib usually more prominent.
Loosely pubescent. Stipules conspicuous. Phyllodia not
above 3 in. long
conspicuous. Flivillogia mostry above 3 in long
Eastern species. Pod unknown

Western species. Young shoots usually silky-pubescent. Midrib of the	
phyllodia prominent. Pod narrow, convex over the oblong seeds	244. A. acuminata.
equal. Pod unknown Glabrous and glaucous. Pod rather broad, with thickened	245. A. stereophylla.
margins. Seeds ovate	246. A. signata.
Phyllodia narrow-lanceolate, not so thick and rather more falcate than in the preceding species, usually with about 3 nerves more prominent than the rest.	
Phyllodia sprinkled with a few hairs. Pod flat, slightly	
Phyllodia very glabrous, the smaller veins between the 3 prin-	247. A. delibrata.
cipal nerves scarcely conspicuous. Pod unknown Phyllodia glabrous. Nerves numerous. Pod very convex	
over the seeds and moniliform Phyllodia glabrous. Pod spirally twisted into numerous coils Phyllodia glabrous. Spikes interrupted, 2 to 3 in long (slen-	249. A. toru/osa. 250. A. julifera.
der but dense in the preceding species)	251. A. Solandri.
Phyllodia more falcate than in the preceding species, often broader or longer, with more nerves. Pod narrow or flat, straight or twisted.	
Branches scarcely angular. Phyllodia coriaceous, often hoary with numerous very fine nerves, all free from the base.	
Calyx pubescent	253. A. glaucescens.
nerves confluent with the lower margin of the base. Pod	254 A. Cunninghamii.
twisted. Branches terete or nearly so. Flowers glabrons. Pod very narrow and straight	255 A lantocarna
Pod broad, very flexuose or twisted, not spiral. Seeds along	<i>5</i> / 27
the centre	256. А. polystachya.
and sleuder, longitudinally striate and furrowed Pod (where known and probably in all the species) rather broad,	257. A. holcocarpa.
coriaceous woody or rarely rather thin. Seeds very oblique or	
transverse. Parallel veins of the phyllodia usually numerous and closely packed.	
Phyllodia long, narrow, and slightly falcate (as in A. julifera). Pod flat, with straight margins and undulate valves. Seeds orbicular.	
Branches acutely angular Branches scarcely angular Phyllodia broad, falcate or very oblique. Pod nearly terete and	258. A. plectocarpa.
Phyllodia broad, falcate or very oblique. Pod nearly terete and	200. A. paengearpa.
turgid. Phyllodia long, as in A. julifera, but usually more falcate. Pod hard, flat, contracted to the base.	260. A. tumida.
Phyllodia 3 to 5 lines broad. Pud obtuse, not hooked Phyllodia 6 to 8 lines broad. Pod obtusely hooked at the end	261. A. loxocarpa.
Phyllodia broad, falcate or very oblique. Pod broad, hard, and woody, obliquely veined.	202. A. oncinocarpa.
Branchlets 3-angled. Pod obtusely recurved or hooked at the	964 4
end, much narrowed at the base Branchlets very flat. Pod not hooked, narrowed at the base .	265. A. calyculata.
Branchlets nearly terete or slightly angular. Pod broad, very hard, obliquely truncate at the base.	
Pod flat or scarcely twisted, the outer margin entire	266. A. erassicarpa,
Pod much twisted, the outer margin deeply sinuate	87. A. auriculiformis.
Pod quite uncertain. Phyllodia narrowed at both ends, with numerous parallel veins or nerves, and usually falcate, as in the Falcatæ, but under	
3'in. long Phyllodia of A. julifera and others of the Falcata, but the small	252. A. leptostachya.
lateral parallel veins appearing, under a lens, very much ana-	63. A. retinervis.
E. Dimidiate.—Phyllodia large, broad, very oblique or falcat tant prominent nerves, more or less confluent at or near the lowe pinnately net-veined between them.	e, with 3 or more dis-
Branchlets very acutely angular or almost winged.	
Glabrous and glaucous. Spikes pedunculate. Flowers mostly	68 4 latifalia
4-merous Hoary or silky-pubescent. Spikes sessile. Flowers mostly 5-	oo. A. tuiyotta.
Branchlets terete or scarcely angular.	69. A. holosericea.
Spikes 1 to 2 in. long. Flowers glabrous. (Erect shrub) 2 Spikes scarcely ½ in. long, dense. Flowers densely pubescent.	
Stem prostrate or diffuse	71. A. humifusa.

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DIV. II. BIPINNATE.—Leaves all bipinnate.
     SERIES IX. Botryocephalæ. - Leaves bipinnate. Stipules small or none. Flower-
  heads globular, in axillary racemes or terminal clusters.
  Pinnæ 2 to 4 pairs, rarely 5 or 6 pairs. Leaflets above \(\frac{1}{4}\) in, long.
      Young shoots golden-pubescent. Leaflets 8 to 12 pairs, lan-
         ceolate, acute, 1 to 2 in. long
     Glabrous and glaucous. Leaflets 12 to 20 pairs, oblong or linear,
         scarcely acute, about ½ in. long. Gland distant from the
                                                                                     273. A. pruinosa.
     very obtuse, 4 to 6 lines long. Gland close to the lowest pinnæ 274. A. spectabilis. Foliage pubescent. Leaflets 6 to 10 pairs or more, obtuse, 3 to
  4 lines long. Gland at the base of the petiole . . . .
Foliage glabrons. Leaflets 10 to 15 pairs, obtuse or acute, firm, pale underneath, 3 to 4 lines long . . . . . . .
Pinnæ 8 to 15 pairs. Leaflets very numerous, narrow-linear and very small, or 3 to 4 lines long and subulate.
                                                                                    . 275. A. polybotrya.
                                                                                      276. A. discolor.
     277. A. decurrens.
                                                                                     278. A. dealbata.
  Pinnæ 12 to 15 pairs. Leaflets 6 to 10 pairs, ovate-cordate,
  279. A. cardiophylla.
     long. Branch
dense heads .
                                                                                      280. A. leptoclada.
  long. Branches hirsute. Flowers few in the heads . . . . 281. A. pubescens.
     SERIES X. Pulchellæ.—Leaves bipinnate. Stipules none or smaller, setaceous, not
  spinescent. Flower-heads globular or cylindrical, on simple axillary solitary or clustered
  peduncles.
  Seeds longitudinal. Flower-heads globular. Petals not striate.
Spines axillary, rarely entirely wanting. Pinnæ 1 pair. Leaf-
        lets 4 to 7 pairs
                                                                      . . . . 282. A. pulchella.
      Branches pubescent. Pinnæ 2 or 3 pairs. Leaflets 3 to 6 pairs, oblong, 1 to 2 lines long. Sepals free or nearly so . 283. A. Mitchelli. Glabrous. Pinnæ 2 to 5 pairs. Leaflets 20 to 30 pairs, with a broad oblique base, 1 to 3 lines long. Calyx shortly toothed.
shortly toothed
Glabrous. Pinnæ 1 pair. Leaflets 4 to 6 pairs, above 3 lines long. Flowers large, 4-merous, 3 to 8 in the head.
Seeds transverse. No spines. Flower-heads globular. Petals usually striate. Pinnæ usually 1 or 2 pairs.
Glabrous. Leaflets 5 to 10 pairs, 3 to 5 lines long. Flowers
          shortly toothed
                                                                                   284. A. pentadenia.
                                                                                  . 285. A. Gilberti.
. 286. A. nigricans.
   ovoid. Petals smooth. Pinnæ 2 pairs. Leassets 2 to 6 pairs. 289. A. Drummondii.
    (Branches of 292, A. Biduilli and of 293, A. pallida, are sometimes almost or quite
without stipular spines.)
   Series XI. Gummiferæ. Leaves bipinnate. Stipules of some or all the leaves per-
sistent and spinescent. Flower-heads globular, on solitary or clustered simple pedancles.
Bracts smull, close under the flower-heads.
   Pinnæ 4 to 6 pairs. Leaflets small, 10 to 20 pairs. Pod thick,
      cylindrical or spindle-shaped, indehiscent, pithy between the
                                                                                  . 290. A. Farnesiana.
      seeds
   Pinnæ 1 or 2 pairs. Leaflets small, 8 to 12 pairs. Pod narrow-
                                                                                . 291. A. suberosa.
Bracts forming a little 4-lobed ring round the middle of the pe-
      duncle.
   Pinnæ 15 to 25 pairs. Leaflets scarcely 1 line long. Flowers
      4-merous. Pod coriaceous; valves slightly convex, striate
                                                                                  . 292. A. Bidwilli.
   Mimosa obtiqua, Pers Syn. ii. 261, not of Wendl. nor of Lam., a phyllodineous Australian Acacia, is insufficiently described to determine even to which series it belongs.

A. visneoides, Colla, Hort. Ripul. App. ii. 339, is described from a garden specimen in
leaf only and is quite unrecognizable.
Numerous manuscript names of A. Cunningham's, F. Mueller's, and others, unaccompanied by descriptions, but quoted in G. Don's 'General System,' in my own papers in Hooker's 'London Journal of Botany,' i. 318, and in the 'Linnæa,' xxvi. 603, in F. Mueller's paper in the 'Journal of the Linnean Society,' iii. 114, in Scemann's work, 'Die in Europa eingeführten Acacien,' 1852, in Steudel's 'Nomenclator,' or in garden catalogues, are here
omitted as unpublished.
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N.I.B

MIMOSACERE

Acacia adoxa var. adoxa Pedley N.I.B.

MIMOSACEAE

Acacia adoxa var subglat Pedley.

N. I. B.

MIMOSACEAE Acacia argyraea Tindale

NIB

MIMOSACEAE Acacia ampliceps Maslin N.1-B -

MIMOSACEAE

Acacia ancistrocarpa Maiden et Blakeli N.I.B.

MIMOSACEAE Acacia anaticeps Tindale Avcacia

239. A. arida, Benth. in Hook. Lond. Journ. i. 370. Glabrous or minutely hoary; branchlets slender, terete or slightly compressed. Phyllodia narrow-linear, obtuse or with a callous point, narrowed at the base, 2 to 4 in. narrow-linear, obtuse or with a callous point, narrowed at the base, 2 to 4 inlong, 1 to 2 lines broad, flat but thick, obscurely 3-nerved. Spikes shortly pedunculate, solitary or in pairs, slender and compact, \(\frac{1}{2}\) in long. Flowers very small, mostly 5-merous. Calyx shortly lobed. Petals smooth, without prominent midribs. Pod thick but flat, nearly 4 in long, 3 lines broad, narrowed to the base; valves hard, almost woody, rolling back elastically. Seeds not seen, but evidently oblique.

N. Australia. Parched desert shores of Cambridge Gulf, N.W. coast, A. Cunning-ham. Differs from A. xylocarpa chiefly in the broader flat phyllodia.

264. A. aulacocarpa, A. Cunn.; Benth. in Hook. Lond. Journ. i. 378. Slightly hoary or ashy-glaucous with a minute almost powdery down, which at length disappears; branchlets angular. Phyllodia falcate-lanceolate, narrowed at both ends, 3 to 4 in. long, about $\frac{1}{2}$ in. broad, with a few slightly prominent nerves, the lower ones confluent with the lower margin at the base, and numerous smaller closely packed veins, rarely anastomosing. Spikes slender, loose, 1 to 2 in. long, tomentose-pubescent or glabrous. Flowers mostly 5-merous. Calyx with short broad lobes. Petals united below the middle. Pod falcate-oblong, flat but thick, obtusely recurved at the end, 1 to 2 in. long, $\frac{1}{2}$ to $\frac{3}{4}$ in. broad, much narrowed at the base, hard, obliquely veined. Seeds obliquely transverse, not seen perfect.

Queensland. Port Bowen, R. Brown, A. Cunningham; Rockhampton, Dallachy; Cameron's Brush, Leichhardt? (specimen not in fruit).

Var. (?) macrocarpa. Pods 3 to 5 in. long, ¾ to 1 in. broad, much undulate.—Keppel Bay, Shoalwater Bay, and Broad Sound, R. Brown.

292. A. Bidwilli, Benth. in Linnaa, xxvi. 629. Glabrous; branches mostly terete. Pinnæ 15 to 20 pairs, the common petiole 2 to 3 in., the partial rhachis ½ to 1 in. long; leaflets 15 to 25 pairs, oblong, obtuse, rigid, scarcely 1 line long. Stipules spinescent and sometimes 2 to 3 lines long, usually very small or quite obsolete. Peduncles solitary, with an annual deciduous 4-lobed bract about the middle, bearing a globular head of about 20 or rather more 4-merous flowers and sometimes 1 or 2 lower down the peduncle, each flower often 2 lines long. Calvx shortly toothed. Petals smooth, united above the middle. Pod straight, 3 to 6 in. long, about ½ in. broad, narrowed at the base; valves coriaceous, somewhat convex, reticulate lengthwise. Seeds large, ovate, longitudinal; funicle slightly thickened from the base upwards, very shortly inflexed or folded under the seed.

N. Australia. Whitsunday and Gloster Islands, Henne.

Queensland. Wide Bay, Bidwill; Rockhampton, Dallachy; Port Denison, Fitzalan.

Var. (?) major. Leaflets sometimes 2 lines long. Seeds broader. Flowers unknown.—

Ridges of the Victoria river, F. Mueller. To this belong the fruiting specimens referred to A. pallida, F. Muell. in Journ. Linn. Soc. iii. 147.

The flowers of this species have at first sight some resemblance to those of some Albizzias, but the stamens are quite free, although inserted on a small prominent disk under the ovary, not united in a tube round the ovary, as in all the Inga-flowered genera.

174. A. bivenosa, DC. Prod. ii. 452. A large bushy shrub, glabrous and often glaucous, or the upper leaves and inflorescence of a golden-yellow. Phyllodia from obovate to oblong-lanceolate, obtuse and mostly with a callous recurved point, $1\frac{1}{2}$ to 3 in. long in the commonest form, 1 to $1\frac{1}{2}$ in the short-leaved varieties, narrowed at the base, coriaceous, with 2 more or less prominent nerves, penniveined and with nerve-like margins. Racemes of few globular heads with a flexuose rhachis and short peduncles, or reduced to a single peduncle with a single head, of 20 to 30 flowers, not very small and mostly 5-merous. Calyx sinuate-toothed and petals smooth as in A. salicina. Pod elongated, nearly straight, flat, coriaceous, about 3 lines broad. Seed not seen perfect.—A. binervosa, DC. Mem. Leg. 448; A. xanthina, Benth. in Hook. Lond. Journ. i. 355; Meissn. in Pl. Preiss. i. 16; A. elliptica, A. Cunn.; Benth. in Hook. Lond. Journ. i. 347.

N. Australia. N.W. coast, Admiralty Bay, Baudin's Expedition; Bay of Rest and Dampier's Archipelago, A. Cunningham; Depuech Island, Bynoe; Hearson Island, Nichol Bay, F. Gregory's Expedition.

W. Australia. Swan River, Baudin's Expedition, Drummond, 1st Coll. n. 283, Preiss, n. 928; Sharks Bay, Milne; Dirk Hartog's Island, A. Cunningham.

There are two forms, one (A. elliptica, A. Cunn.) more glaucous with short obovate oblong phyllodia faintly 2-nerved, the other (A. xanthina, Benth.) with longer phyllodia more prominently nerved and often of a golden colour. Both are in the Paris herbarium, from Baudin's Collection, and we have both from the N.W. coast, as well as from the west, the yellow one chiefly from Swan River; and, different as they look, some specimens are quite intermediate or combine the two.

218. A. brevifolia, Benth. Glabrous and somewhat glaucous, with angular branchlets. Phyllodia obliquely oblong, somewhat falcate, very obtuse with a small callous point, narrowed at the base, 1½ to 2 in. long, ½ to ½ in. broad, very coriaceous with several prominent nerves, the intermediate veins irregularly reticulate or longitudinal. Spikes short, oblong-cylindrical, pedunculate. Flowers mostly 5-merous. Calyx short, sinuate-toothed. Petals smooth. Pod flat, thick, almost woody, with oblique veins and thickened margins, very obtuse, 1½ in. long, nearly 4 lines broad, abruptly contracted below the middle into a broad stipes. Seeds oblique, but not seen ripe.—A. leptophleba (referred by me to A. aulacocarpa), var. brevifolia, F. Muell. in Journ. Linn. Soc. iii. 144.

Queensland. Desert of the Suttor, F. Mueller. Allied to A. leptophleba and A. limbala, but differing in flower from the former and in fruit from the latter, and the venation of the phyllodia does not agree with either.

186. A. coriacea, DC. Mem. Leg. 446, and Prod. ii. 451. Ashy-grey, with the young shoots silky-hoary or almost golden; branchlets terete. Phyllodia long-linear, straight or curved, obtuse, narrowed towards the base, often $\frac{1}{2}$ ft. long or more, 1 to $2\frac{1}{2}$ lines wide, thickly coriaceous, with numerous fine and closely packed longitudinal nerves, only visible under a lens. Peduncles usually in pairs, $\frac{1}{4}$ to $\frac{1}{2}$ in. long, bearing each a globular head of 20 to 25 flowers, mostly 5-merous, hoary-pubescent in the bud. Calyx $\frac{3}{4}$ line long, tubular, with ciliate lobes. Petals rather longer, united above the middle. Pod 6 to 9 in. long, moniliform; valves coriaceous, very convex, 4 to 5 lines broad, oblong and striate over the seeds, much contracted between then. Seeds longitudinal, distant; funicle folded and dilated under the seed, but not seen perfect.

N. Australia. Bay of Rest, N.W. coast, A. Cunningham; Depuech island, Bynoe; Nichol Bay, F. Gregory's Expedition.

W. Australia. Sharks Bay, Baudin's Expedition; Dirk Hartog's Island and Sharks

Bay, Milne.

Acacia dacrydioides Tindale

163. A. deltoidea, A. Cunn. in G. Don, Gen. Syst. ii. 401. A much-branched shrub, glabrous or pubescent when young, with terete branches. Phyllodia numerous, obliquely triangular-ovate, acute, mucronate, 2 to 3 lines long and almost as broad, thick, several-nerved, the upper margin much curved but without any glaud-bearing angle. Stipules setaceous, persistent. Peduacles slightly exceeding the phyllodia, bearing each a small globular head of numerous (30 to 50) very small flowers, mostly 5-merous. Calyx deeply divided into narrow thin lobes. Petals slightly thickened and pubescent at the tips, cohering above the middle. Stamens few. Pod elongated, slightly curved, flat, coriaceous, glandular-hispid, nearly 4 lines broad. Seeds not seen.

N. Australia. Greville Island, Montague Sound, and Barren Islands, Regent's Inlet, N.W. coast, A. Curringham.

247. A. delibrata, A. Cunn.; Benth. in Hook. Lond. Journ. i. 374.

Branchlets slender, slightly angular, silky-pubescent when young. Phyllodia linear-lanceolate, falcate, narrowed at both ends, 4 to 6 in. long, 2 to 5 lines broad in the middle, rather thin, sprinkled with loose silky hairs, with about 3 fine but prominent nerves, and finer less conspicuous and not very numerous longitudinal veins between them occasionally anastomosing. Flowers not seen. Fruiting-spikes with a rhachis of 1 to $1\frac{1}{2}$ in. Pod elongated, straight, flat with thickened margins, about 3 lines broad, the coriaceous valves rather convex over the seeds, narrowed between them. Seeds not seen, but probably longitudinal.

M. Australia. York Sound and Port Warrender, N.W. coast, A. Cunningham. The specimens are very imperfect, but do not match with any other we have. The fruit is nearly that of A. toruiosa, but very much flatter and the phyllodia much thinner, etc. The bark of the old branches appears to peel off in shreds.

270. A. dimidiata, Benth. in Hook. Lond. Journ. i. 381. Hoary with a minute pubescence or nearly glabrous; branchlets scarcely angular. Phyllodia broadly and obliquely ovate-rhomboid, obliquely truncate at the base, usually 3 to 4 in. long, 2 to 3 in. broad, but on some barren shoots twice or three times that size, with 4 or 5 prominent nerves more or less confluent with the lower margin at the base, and pinnately net-veined between them. Spikes sessile or shortly pedunculate, usually in pairs, 1 to 2 in. long. Flowers mostly 5-merous. Calyx angular, lobed, readily separating into distinct sepals. Petals united below the middle. Pod linear, nearly straight, 2 to 6 in. long, 2 to 3 lines broad; valves coriaceous, very convex. Seeds longitudinal, ovoid-oblong; funicle short, thickened into a turbinate or obliquely cup-shaped aril at the base of the seed.—A. dolabriformis, A. Cunn. in Hook. Ic. Pl. t. 169, not of Wendl.

N. Australia. Various parts of the N. coast, A. Cunningham; Victoria river and M'Adam Range, F. Mueller; Port Essington, Armstrong, and probably the same species, in leaf only, islands of the Gulf of Carpentaria, R. Brown.

238. A. drepanocarpa, F. Muell. in Journ. Linn. Soc. iii. 137. A glabrous shrub, the young shoots resinous, branchlets slender, slightly angular. Phyllodia narrow-linear, straight or slightly curved, obtuse, narrowed towards the base, 2 to 4 in. long, 1 to 2 lines broad, with a slightly prominent ceutral nerve and 1 or 2 finer veins on each side. Spikes slender, not very dense, \(\frac{1}{2}\) to \(\frac{3}{4}\) in. long, shortly pedunculate. Flowers mostly 5-merous. Calyx thin, with narrow lobes, half as long as the corolla. Petals connate to the middle, with prominent midribs as in A. xylocarpa. Pod erect, linear, 1½ to 3 in. long, 1½ to 2 lines broad, flat but thick with much raised margins and obliquely veined between them, the almost woody valves rolling back elastically as in A. gonocorpa. Seeds oblique; funicle straight, gradually thickened from the base, narrow-turbinate and cup-shaped under the seed.

N. Australia. Rocks of the S.W. shore of the Gulf of Carpentaria, F. Mueller; Whitsunday and Palm Islands, Henne. Differs from A. gonocarpa, as A. arida does from A. zylocarpa, in its broader and flatter phyllodia.

NIB

MIMOSACEAE

Acacia dunnii

(maiden) Turrill

NZB

MIMOSACEAE

Acacia eriopoda maiden and Blakely.

290. A. farnesiana, Willd. Sp. Pl. iv. 1083. A much-branched shrub, attaining a considerable size, quite glabrous or slightly pubescent on the petioles and peduncles. Pinnæ 4 to 6 or rarely more pairs; leaflets usually 10 to 20 pairs, linear, about 2 lines long or on luxuriant shoots often much longer. Stipules converted into slender straight thorns, very variable

in length, occasionally \(\frac{3}{2}\) in. long, and sometimes all very minute or almost none, the plant otherwise unarmed. Peduncles usually 2 or 3 together in the older axils, each bearing a globular head of numerous 5-merous flowers. Bracts small, close under the flower-head. Calyx above half as long as the corolla. Pod thick, irregularly cylindrical or spindle-shaped, 2 to 3 in. long, indehiscent, filled with a pithy substance in the midst of which lie the seeds. Seeds obliquely transverse, with short funicles.—DC. Prod. ii. 461; Vachellia farnesiana, W. and Arn. Prod. 272, with the synonymy adduced; Wight, Ic. t. 300; A. lenticellata, F. Muell. in Journ. Linn. Soc. iii. 147.

N. Australia. N.W. coast, A. Cunningham; Nichol Bay, F. Gregory's Expedition; Sturt's Creek and M'Arthur river, F. Mueller; Albert river, Henne.

Queensland. Port Denison, Fitzalan; in the interior, Mitchell.

N. S. Wales. In the interior, A. Cunningham; Darling river to Cooper's Creek, common, Victorian and Howitt's Expeditions.

The species is very common in tropical countries in the New and the Old World, much planted for ornament or for the perfume extracted from its flowers, and readily spreading. Believed by some to be of American origin, by others to be truly indigenous also in Africa and Asia, and has every appearance of being so in Australia. and Asia, and has every appearance of being so in Australia.

NIB

MIMOSACEAE

Acacia froggatii Maidan.

67. A. galioides, Benth. in Hook. Lond. Journ. i. 344. Pubescent or tomentose, with verticillate finely subulate phyllodia, as in A. lycopodifolia, but the phyllodia are more slender, slightly striate only, not sulcate with prominent nerves, 2 to 5 lines long, recurved at the end but apparently without viscid points. Flowers mostly 5-merous, in globular heads on peduncles exceeding the leaves, as in that species, but the calyx is at least one-third as long as the corolla, and the pod is always borne on a stipes of 2 to 3 lines.

N. Australia. Victoria river, F. Mueller; islands of the Gulf of Carpentaria, R. Brown and a variety with rather stouter phyllodia, Sweers Island, Henne.

NIG

MIMOSACEAE

Acacia gardneri

moiden on

Blak

220. A. gonoclada, F. Muell. in Journ. Linn. Soc. iii. 140. Glabrous and glaucous, branchlets stout, with 2 or 3 much raised acute angles. Phyllodia lanceolate-oblong, slightly falcate, obtuse with oblique glandular tips, obliquely narrowed towards the base, 3 to 4 in. long, 4 to 8 lines broad, coriaceous, with 2 or 3 more prominent nerves almost confluent with the lower edge near the base, and numerous fine parallel veins scarcely anastomosing and not very closely packed. Spikes shortly pedunculate, oblong-cylindrical, dense, about ½ in. long. Flowers mostly 5-merous. Calyx half as long as the corolla, shortly toothed. Petals distinct, smooth, without prominent midrids. Pod narrow-linear, straight, 1 to 1½ in. long, 1½ lines broad, thin and flat with nerve-like margins. Seeds longitudinal; funicle dilated and folded under the seed, but not ripe in our specimens.

N. Australia. Victoria river, F. Mueller. Allied in some respects to A. Cunning. hamii, but with the straighter more coriaceous phyllodia of the preceding species.

236. A. gonocarpa, F. Muell. in Journ. Linn. Soc. iii. 136. A shrub of 4 or 5 ft., young shoots viscid, with slender flattened or angular branchlets, at length terete. Phyllodia very narrow-linear, but flat, with a small callous or booked point, mostly $1\frac{1}{2}$ to 2 or rarely 3 in. long, prominently 1-nerved. Spikes shortly pedunculate, solitary or in pairs, $\frac{1}{4}$ to $\frac{1}{2}$ in. long, very slender, but with numerous closely packed very small flowers, mostly 5-merous. Sepals very narrow, linear, thin and distinct. Petals thin, cohering to the middle. Pod hard and woody, $1\frac{1}{2}$ to 2 in. long, about 3 lines broad; valves opening elastically from the end downwards as in A. xylocarpa, but with raised acute longitudinal angles as in A. tetragonocarpa. Seeds not seen, the pod obliquely partitioned for their reception as in A. xylocarpa.

N. Australia. Arnhem N. Bay, R. Brown; rocky shores of the Gulf of Carpentaria, F. Mueller.

MIMOSACEAC

Acacia gracillima Tindale.

188. A. hemignosta, F. Muell. in Journ. Linn. Soc. iii. 134. A tall shrub or small tree, more or less glaucous or pale; branchlets slender, slightly striate. Phyllodia falcate-lanceolate or oblong, obtuse, much narrowed towards the base, 2 to 4 in. long and often \(\frac{1}{2} \) to \(\frac{3}{4} \) in. broad above the middle, thinly coriaceous, with 3 or sometimes 4 or 5 fine but slightly prominent nerves and more or less reticulate between them. Peduncles slender, 3 to 5 ines long, solitary or in terminal racemes through the abortion of the upper phyllodia, bearing each a small globular head of about 20 to 30 flowers, mostly 5-merous. Sepals very narrow, free. Petals smooth, glabrous. Pod flat, 2 to 4 in. long, about \(\frac{1}{2} \) in. wide; valves thin, the sutures bordered by an acute edge. Seeds orbicular; funicle oblique, not folded, filiform or very slightly thickened.

N. Australia. Cambridge Gulf, A. Cunningham; Albert, Victoria, Gilbert, and Roper

rivers, F. Mueller.

MIMOSACE AE

Acacia hemsleyi maiden

MIMOSACEAE

Acacia hilliana

maiden.

66. A. hippuroides, Heward; Benth. in Hook. Lond. Journ. i. 344. Pubescent, with verticillate, subulate, sulcate phyllodia, as in A. lycopodifolia, of which it may possibly prove a variety, but the phyllodia are much longer, attaining 5 or 6 lines, straight not recurved at the end, and the calyx, thinly membranous, is at least one-third as long as the corolla. Petals striate and

memoranous, is at least one-third as long as the corolia. Petals striate and pod sessile, as in A. lycopodifolia.

N. Australia. Usborne's Harbour, N.W. coast, Voyage of the Beagle; Attack Creek, M'Douall Stuart's Expedition.

A fragment from M'Douall Stuart's Expedition differs in the phyllodia more rigid and short, but with the same straight points, the stems more viscid, awnless, pubescent, and especially in the extreme tenuity of the calyx, which it is rather difficult to find, and in the petals membranous and smooth, as in A. cedroides, but broader and glabrous.

269. A. holosericea, A. Cunn. in G. Don, Gen. Syst. ii. 407. Hoary or white with a close silky pubescence; branchlets with 3 much raised angles. Phyllodia obliquely oval-oblong, obtuse or mucronate, 4 to 6 in. long, 1 to 3 in. broad, or the lower ones much larger, with 3 or 4 prominent nerves confluent with the lower margin at the base, and pinnately net-veined

between them. Spikes sessile, often 2 in. long or more. Flowers mostly 5merous. Calyx small, shortly lobed, pubescent. Petals pubescent, united at the base. Pod long-linear, irregularly or spirally twisted, 2 to $2\frac{1}{3}$ lines broad; valves convex. Seeds ovate, longitudinal; funicle folded and dilated into a cup-shaped or turbinate aril at the base.—A. neurocarpa, A. Cunn. in Hook. Ic. Pl. t. 168.

N. Australia. Cambridge Gulf, N.W. coast, A. Cunningham; Nichol Bay, F. Gregory's Expedition; Victoria river, F. Mueller; Attack Creek, M'Douall Stuart; islands of the Gulf of Carpentaria, R. Brown.

Queensland. Endeavour river, Banks and Solander; Rockhampton and Port Denison, Thozet, Dallachy, and others; Edgecombe Bay, Dallachy.

Var. pubescens, F. Muell. Everywhere softly pubescent, even the pod.—Victoria river, F. Mueller.

271. A. humifusa, A. Cunn.; Benth. in Hook. Lond. Journ. i. 382. Diffuse or prostrate, softly pubescent or tomentose; branchlets nearly terete. Phyllodia broadly and obliquely ovate-rhomboid or almost orbicular, $1\frac{1}{2}$ to 2 in. long and nearly as broad, or in luxuriant shoots nearly twice that size, often undulate, with 3 to 5 nerves more or less confluent with the lower margin at the base, and pinnately reticulate between them. Spikes sessile, oblong, dense, scarcely exceeding $\frac{1}{2}$ in. Flowers mostly 5-merous. Calyx deeply lobed, pubescent. Petals densely pubescent, united at the base. Pod linear, nearly straight, thick, and nearly terete, $1\frac{1}{2}$ to 3 in. long, $2\frac{1}{2}$ to 3 lines broad, coriaceous, pubescent. Seeds oblong, longitudinal; funicle with the last 1 or 2 folds thickened into an obliquely cup-shaped aril at the base of the seed.

N. Australia. Victoria river, F. Mueller; islands of the Gulf of Carpentaria, R. Brown.

Queensland. Endeavour river, Banks and Solander; Cape Cleveland, A. Cunning-ham; Lizard Islaud, M'Gilliviay; Albany Island, W. Hill.

Acacia inaequilatera

Domin:

MIMOSACEAE

Acacia Kelleri

F.muell.

MIMOSACEAE

Acacia kimberleyensis

W.V. F.+20

268. A. latifolia, Benth. in Hook. Lond. Journ. i. 382. Glabrous and glaucous; branchlets with 2 or 3 very much raised acute or almost winged angles. Phyllodia obliquely ovate-rhomboid or falcate, 3 to 6 in. long, 1½ to 2 in. broad, with 3 to 5 nerves confluent at the base at or near the lower 2 in. broad, with 3 to 5 nerves confluent at the base at or near the lower margin, which is often slightly decurrent, pinuately net-veined between them. Spikes pedunculate, loose, 1 to 2 in. long. Flowers mostly 4-merous. Calyx very short, broad, truncate or obscurely toothed. Petals smooth, above 1 line long, united at the base but readily separating. Pod shortly stipitate, linear, straight or curved, 2 to 4 in. long, nearly 3 lines broad, flat with nerve-like margins, but not seen ripe. Seeds oblong, longitudinal; funicle scarcely folded, thickened into an oblique lateral aril.

N. Anstralia. Islands of the Gulf of Carpentaria. R. Regger, Ambary's Lond R.

N. Australia. Islands of the Gulf of Carpentaria, R. Brown; Arnhem's Land, F. Mueller.

Acacia lontiginea

216. A. leptophleba, F. Muell. in Journ. Linn. Soc. iii. 143. Nearly glabrous and probably resinous; branchlets slightly angular. Phyllodia obglabrous and probably resinous; branchets singlety angular. Phylodia obliquely oblong-falcate, obtuse with an oblique callous or glandular point, narrowed at the base, 2 to $2\frac{1}{2}$ in. long, about $\frac{1}{2}$ in. broad in our specimens, coriaceous, undulate, with 3 or more slightly prominent nerves and thickened nerve-like margins, the intermediate fine veins more or less anastomosing, nerve-like margins, the intermediate line veins more or less anastomosing, almost reduced to closely packed longitudinal parallel veins. Spikes pedunculate, solitary or in pairs, 1 to $1\frac{1}{2}$ in long. Flowers dense, mostly 5-merous. Calyx fully half as long as the corolla, thin, deeply lobed or divided to the base into narrow sepals. Petals thin, the midribs much less prominent than in A. stigmalophylla. Pod unknown.

N. Australia. Sturt's Creek, F. Mueller. I had, in the above quoted paper, referred these specimens to A. aulacocarpa, but having now been able to match much more accurately the flowering and fruiting specimens of that species, I find I was in error. The present species is much nearer to A. stigmatophylla, from which, in the absence of the fruit, it is distinguished by the more coriaccous phyllodia, larger flowers, deeply lobed calyx, and smoother petals.

255. A. leptocarpa, A. Cunn.; Benth. in Hook. Lond. Journ. i. 376. Usually glabrous; branchlets at first slightly angular, but soon terete. Phyllodia falcate-lanceolate, narrowed at each end, 4 to 6 in. long, 4 to 8 lines broad, with 3 or more fine slightly prominent nerves and very fine parallel ones between them, rarely anastomosing, and not nearly so close as in several little graphs and the interval between cook several times the broadth of the wine. allied species, the interval between each several times the breadth of the vein. allied species, the interval between each several times the breadth of the vein. Spikes $1\frac{1}{2}$ to 2 in. long, solitary or in pairs. Flowers mostly 5-merous, usually glabrous, not very close. Calyx short, sinuate-toothed. Petals smooth, united at the base. Pod linear, straight or nearly so, several in. long, $1\frac{1}{2}$ to 2 lines broad; valves coriaceous, convex over the seeds, contracted between them. Seeds longitudinal; funicle with the last 2 or 3 folds dilated into an oblong cup-shaped aril, nearly as long as the seed, but embracing its base only.

Queensland. Cape York, W. Hill; Endeavour river and Cape Flinders, A. Cunning ham; Shoulwater Bay, R. Brown; Port Denison, Fitzalun.

MIMOSACERE

Acacia lycopodifolia

A. Cunn.

211. A. linaricides, Benth. in Hook. Lond. Journ. i. 371. Glabrous or slightly pubescent and viscid, with terete branchlets. Phyllodia rather or signtly pubescent and viscid, with terete branchiets. Frightonia rather crowded, linear, obtuse with a small rigid but not pungent point, \(\frac{3}{4}\) to $1\frac{1}{2}$ in. long, not above 1 line broad, obscurely 1-nerved. Spikes slender but rather dense, shortly pedunculate and exceeding the phyllodia. Flowers mostly 5-merous. Sepals small, thin, free or slightly connate at the base. Petals connate to the middle, with thickened tips. Pod linear, slightly curved, $1\frac{1}{2}$ lines broad at the seeds and contracted between them, the valves convex, rigid, obscurely striate, with thickened nerve-like margins. Seeds oblong, locality dinals, finish, with the last 2 or 3 folds thickened into an irregularly longitudinal; funicle with the last 2 or 3 folds thickened into an irregularly cup-shaped aril under the seed.

N. Australia. Cavern Island, Gulf of Carpentaria, R. Brown. This species has the small 5-merous flowers and nearly the phyllodia of A. lysiphlæa, with the pod more allied to that of A. longifolia and its allies, but more rigid.

NEB

memosacka E

Acacia monticola

5.m. Black

Acacia numerosa

MIMOSACEAE

Acacia nuperrima

E. G. Baker.

262. A. oncinocarpa, Benth. in Hook. Lond. Journ. i. 378. Glabrous, or slightly hoary with a very minute mealy pubescence; branchlets terete. Phyllodia lanceolate-falcate, rather obtuse, but narrowed at both ends, 4 to 6 in. long, 6 to 8 lines broad, rather thin, with 5 to 7 fine, but rather prominent nerves, the lower ones often confluent with the lower margin of the base, and numerous fine parallel veins between them. Spikes slender, in pairs or clusters, pedunculate, 1 to $1\frac{1}{2}$ in. long. Flowers often distant, small, mostly 5-merous or 6-merous. Calvx thin, loose, sinuate-toothed, more than half as long as the corolla. Petals smooth, united to the middle. Pod flat, but thick, hard and woody, straight except a hooked obtuse point, about 4 lines broad, much narrowed towards the base, obliquely veined. Seeds oblong, obliquely transverse; funicle slightly flexuose, thickened nearly from the base into a narrow-turbinate aril under the seed.

N. Australia. Meiville Island; Herb. Fraser; Sims' Island, A. Cunningham. Near A. lorocarpa, with broader phyllodia and remarkable for the hooked pod.

MIMOSACEAE

Acacia orthotricha

Pedley.

2

235. A. xylocarpa, A. Cunn.; Benth. in Hook. Lond. Journ. i. 370. A shrub of 2 to 4 ft., glabrous and slightly viscid; branchlets terete. Phyl-A shrub of 2 to 4 tt., glabrous and sugntly viscid; branchets terete. Phylodia linear-subulate, not pointed, 2 to 4 in. long, rather rigid, terete or rarely flattened to nearly 1 line in breadth, obscurely 1-nerved. Spikes mostly in pairs, shortly pedunculate, slender but closely packed, \(\frac{1}{2}\) to \(\frac{2}{4}\) in. long when fully out. Flowers mostly 5-merous. Calyx shortly lobed, about half as long as the corolla. Petals united to the middle, with prominent midribs. Pod nearly terete or slightly flattened, \(\frac{1}{2}\) to \(\frac{3}{4}\) in. long, shortly acuminate, \(\frac{3}{4}\) to 4 lines broad and thick near the end, gradually tapering to the base; valves hard, almost woody, striate lengthwise, opening elastically from the end downwards. Seeds oblique; funicle straight, gradually and slightly thickened from the base upwards .- A. orthocarpa, F. Muell, in Journ. Linn. Soc.

N. Australia. Dampier's Archipelago and Water Island, N.W. coast, A. Cunning-ham; Nichol Bay, F. Gregory's Expedition; Upper Macarthur river, Gulf of Carpentaria, F. Mueller.

Var. (?) tenuissima. Phyllodia longer and more slender. Spikes short. Pod unknown.

—A. tenuissima, F. Muell. in Journ. Linn. Soc. iii. 135.—Sturt's Creek, F. Mueller.

MIMOSACEAE

Acacia pachycarpa

F. muell.

MIMOGRIERE

Acacia pachyphloia W.U. Fitzg 293. A. pallida, F. Muell. in Journ. Linn. Soc. iii. 147 (partly). A tree, quite glabrous, but the foliage of a very pale or glaucous hue. Pinnæ 3 to 10 pairs, the common petiole usually 1 to 2 in. but in the larger leaves 4 to 6 in. long; leaflets 10 to 20 pairs, oblong, coriaceous, rigid, mostly 3 to 4 lines long. Stipules spinescent, with thickened bases or sometimes none. Peduncles solitary, 1 to $1\frac{1}{2}$ in. long, with an annular 4-lobed deciduous bract about the middle as in A. Bidwilli, bearing a globular head of about 20 flowers, smaller than in that species, and mostly, if not all, 5-merous. Calyx very short, sinuate-toothed. Corolla scarcely $1\frac{1}{2}$ lines long, shortly lobed. Pod unknown.

N. Australia. M'Adam range, Fitzmaurice river, F. Mueller.

No.75

MIMOSACENE

Acacia perryi Pedley

MIMOSACEAE

Acacia pellita

0.5chwarz

15. A. phlebocarpa, F. Muell. in Journ. Linn. Soc. ii. 119. A glabrous somewhat viscid shrub of 2 to 5 ft.; branches nearly terete. Phyllodia brous somewhat viscid shrub of 2 to 5 ft.; branches nearly terete. Phyllodia narrow-lanceolate, rigid, tapering into a pungent point, 1 to $1\frac{1}{2}$ in. long, mostly 2 to 3 lines broad, narrowed at the base, with several parallel nerves occasionally anastomosing, 1 to 3 more prominent. Stipules small. Peduncles solitary, attaining $\frac{1}{2}$ in. when in fruit. Flowers 5-merous, but only seen withered. Calyx turbinate, lobed, half as long as the corolla. Petals apparently striate. Pod curved, hard, rather flat, with much thickened margins and obliquely veined between them, depressed between the seeds. Seeds rounded compressed oblique: funicle with the last 2 or 3 folds much dilated and obliquely veined between them, depressed between the seeds. Seeds rounded, compressed, oblique; funicle with the last 2 or 3 folds much dilated into a cup-shaped apparently 2-lobed aril, enclosing the base of the seed.

N. Australia. Rocky places at the sources of Seven Emu river, Gulf of Carpentaria, F. Mueller. The species appears to be closely allied to A. lanigera.

205. A. sericata, A. Cunn.; Benth. in Hook. Lond. Journ. i. 380. Pale, with a very minute almost mealy down, or glabrous and glaucous; branchlets terete or nearly so. Phyllodia broadly falcate, obtuse but narrowed at both ends, mostly 3 to 4 in. long, 1 to 1½ in. broad in the middle, or on barren shoots much longer and narrower, with 3 or 4 principal nerves, of which 1 or 2 confluent with the lower margin of the base, transversely reticulate between them, the outer or upper margin often sinuate. Flowers not seen. Pod very flat, glaucous, 3 to 5 in. long, 1 to 1½ in. broad, sutures bordered with a narrow edge; valves coriaceous, hard when ripe, with raised reticulations. Seeds transverse, not seen perfect.—A. platycarpa, F. Muell, in Journ. Linn. Soc. iii. 145.

N. Australia. Montagu and York Sounds, N.W. coast, A. Cunningham (foliage with the valves of a ripe fruit); Victoria river (foliage only) and Gulf of Carpentaria (specimena with unripe fruits), F. Mueller.

258. A. plectocarpa, A. Cunn.; Benth. in Hook. Lond. Journ. i. 375. Glabrous and often somewhat glaucous, with acutely angular branchlets. Phyllodia usually falcate-lanceolate, narrowed at both ends, 4 to 6 in. long, 4 to 8 lines broad, resembling those of A. julifera, but varying from 2 or 3 in. long, coriaceous and nearly straight to above 6 in. long, narrow-linear and thin, about 3 nerves fine but more or less prominent, and numerous closely packed very fine parallel veins between them. Spikes slender, not very dense, about 1 in. long, the upper ones often forming a terminal leafy panicle. Flowers small, mostly 5-merous. Calyx short, minutely toothed. Petals smooth. Pod linear, not very long, usually 3 to 4 lines broad, coriaceous, at first flat, with straight slightly thickened margins, but becoming often very much undulate between them, and occasionally varying from under 3 lines broad and quite thin, to almost as broad and thick as in A. pachycarpa. Seeds ovate, obliquely transverse, the last 2 or 3 folds of the funicle dilated into an aril under the seed.

N. Australia. Cambridge Gulf and Regent's River, N.W. coast, A. Cunningham; islands of the Gulf of Carpentaria, R. Brown; Sturt's Creek, Roper, Seven-Emu, and Fitzmaurice rivers, F. Mueller.

162. A. pyrifolia, DC. Mem. Leg. 447, and Prod. ii. 452. A glabrous shrub, often glaucous, with slightly flattened branches. Phyllodia broadly ovate, with a pungent point, 2 to 3 in. long and almost as wide in perfect-specimens, but often not half that size, thinly coriaceous, 1-nerved, penniveined. Stipules spinescent. Racemes numerous, often more than twice as long as the phyllodia, with 10 to 12 or more rather small but dense globular heads of years numerous flowers aften above 100 mostly 5-mercus. globular heads of very numerous flowers, aften above 100, mostly 5-merous. Sepals distinct, linear-clavate. Pod flat, more or less curved or circinate, 2 to 3 in. long when perfect, 4 to 6 lines broad, often slightly contracted between the seeds, with rather thick margins; valves convex over the seeds. Seeds ovate, rather thick; funicle thickened and much folded under them.— F. Muell. Fragm. iii. 17.

N. Australia. Dampier's Archipelago, A. Cunningham; Nichol Bay, F. Gregory's

Expedition.

W. Australia. Sharks Bay, Baudin's Expedition.

The large phyllodia and spinescent stipules distinguish this from all others with long racemes of globular heads.

263. A. retinervis, Benth. in Hook. Lond. Journ. i. 379, partly. Glabrous or slightly hoary, with nearly terete branchlets. Phyllodia falcate-lanceolate, narrowed at both ends, 3 to 6 in. long, 4 to 6 lines broad, with 3 to 7 fine slightly prominent nerves, the intermediate veins longitudinal, very fine, crowded and much anastomosed, forming a dense closely packed network only visible under a lens. Spikes in pairs or clusters, shortly pedunculate, slender but very dense, ½ to ¾ in. long. Flowers small, mostly 5-merous. Calyx with narrow spathulate ciliate lobes, above half the length of the corolla. Petals united to the middle, with prominent midribs. Pod unknown.

N. Australia. Cape Pond, N.W. coast, A. Cunningham. The general aspect is that of several falcate Julifloræ, but I cannot match the venation with that of any other species. The fruiting specimens I formerly referred here, have the veins much less anastomosed and belong to A. tunida.

207. A. retivenia, F. Muell. Fragm. iii. 128. Densely clothed with a whitish woolly almost fleecy or velvety tomentum. Phyllodia obliquely obovate or orbicular, very obtuse, 1½ to 2 in. long, thick and soft, with about 4 prominent nerves and transverse reticulations. Upper phyllodia (in the only 2 branchlets seen) very much reduced, with dense globular flower-heads in their axils, on short thick tomentose peduncles. Flowers numerous, 5-merous, the buds shorter than the acute bracts, but not seen full-grown. Calyx thin, shortly lobed and cliate. Pod unknown.

N. Australie. Short's Range, M'Douall Stuart.

205. A. sericata, A. Cunn.; Benth. in Hook. Lond. Journ. i. 380. Pale, with a very minute almost mealy down, or glabrous and glaucous; branchlets terete or nearly so. Phyllodia broadly falcate, obtuse but narrowed at both ends, mostly 3 to 4 in. long, 1 to 1½ in. broad in the middle, or on barren shoots much longer and narrower, with 3 or 4 principal nerves, of which 1 or 2 confluent with the lower margin of the base, transversely refigulate between them the outer or upper margin often sinuate. However ticulate between them, the outer or upper margin often sinuate. Flowers not seen. Pod very flat, glaucous, 3 to 5 in. long, 1 to 1½ in. broad, sutures bordered with a narrow edge; valves coriaceous, hard when ripe, with raised reticulations. Seeds transverse, not seen perfect.—A. platycarpa, F. Muell. in Journ. Linn. Soc. iii. 145.

M. Australia. Montagu and York Sounds, N.W. coast, A. Canningham (foliage with the valves of a ripe fruit); Victoria river (foliage only) and Gulf of Carpentaria (specimens with unripe fruits), F. Mueller.

180. A. Simsii, A. Cunn.; Benth. in Hook. Lond. Journ. i. 368. A tall glabrous shrub with slender branches scarcely angular. Phyllodia linear or lanceolate, usually falcate, obtuse or mucronate, much narrowed towards the base, 2 to 5 in. long, 1½ to 2 or rarely 3 lines broad, in the ordinary form with 3 or sometimes only 2 prominent nerves, smooth and finely veined between them. Peduncles solitary or in pairs, slender, rarely above 3 lines long, bearing each a globular head of 20 to 30 flowers, mostly 5-merous. Calyx nearly half as long as the corolla, lobed and readily separating into distinct sepals. Petals smooth, distinct. Pod straight, flat or undulate, acuminate, 2 to 3 lines broad. Seeds compressed-globular, longitudinal; funicle with the last fold shortly thickened into a clavate aril about half as long as the seed, with a short filiform fold below it.

N. Australia. Islands of the Gulf of Carpentaria, R. Brown, Henne.

Queensland. Bay of Inlets, Banks and Solunder; rocky hills, Cleveland Bay, A. Canningham; Cape Upstart, Burdekin Expedition; Port Denison, Fitzalan; Edgecombe Bay, Dallachy; bed of the Belyando, Mitchell, also in Leichhardt's Collection.

Var. multisiliqua. Phyllodia shorter, rather broader, and nearly straight, with 3 prominent nerves and scarcely veined between them. Pod narrow.—On first seeing R. Brown's specimens from the Carpentaria Islands, they looked so different from the ordinary form that I was inclined to adopt them as a distinct species under Brown's name of A. multisiliqua, but I have since found that the two forms pass one into the other there as in other localities, and both phyllodia may be found even on the same specimen on different branches, depending perhaps sometimes on differences in comparative luxuriance.

mimosaceae Acacia stenophylla

214. A. stigmatophylla, A. Cunn.; Benth. in Hook. Lond. Journ. i. 377. Glabrous or scarcely hoary-pubescent when young; branchlets rather slender, acutely angled or compressed when young, soon becoming terete. Phyllodia obliquely narrow-oblong or slightly falcate, narrowed at each end, tipped with a prominent nerve or broad callous point, 1½ to 3 in. long, 3 to 4 lines broad, undulate, coriaceous, with 3 to 5 fine but prominent nerves and very fine (sometimes obscure), longitudinal, more or less anastomosing, closely-packed veins between them. Spikes shortly pedunculate, ½ to ½ or at length 1 in. long, slender, often clustered in the upper axils, forming a terminal leafy panicle. Flowers small, mostly 5-merous. Calyx loosely campanulate, sinuate-toothed, slightly ciliate, half as long as the corolla. Petals with prominent midribs, giving the buds a strongly striate appearance. Pod

N. Australia. Brunswick Bay, N.W. coast, A. Cunningham; Victoria river, F. Mueller.

212. A. stipuligera, F. Muell. in Journ. Linn. Soc. iii. 144. Softly tomentose or pubescent; branchlets nearly terete. Phyllodia obliquely falcate, oblong or lanceolate, shortly narrowed at each end, with a small callous or hooked point, 1 to 2 in. long, 3 to 7 lines broad, coriaceous, with 2, 3, or 4 very prominent nerves and nerve-like margins and numerous anastomosing more or less longitudinal veins, the principal nerves often scabrous with resinous exudations. Stipules brown, small, but more conspicuous than in any other Julifloræ except A. conspersa. Spikes nearly sessile, solitary or in pairs, 1 to nearly 2 in. long, dense and tomentose. Flowers mostly 5-merous. Calyx half as long as the corolla, thin with spathulate lobes, readily separating into distinct sepals. Petals united to the middle, tomentose. Pod (only seen one loose one) long, linear, slightly twisted, not 11 lines broad, coriaceous, with nerve-like margins.

N. Australia. Sources of the Victoria river, F. Mueller; in the interior, lat. 18°, "Scrub-Wattle," M. Douall Stuart.

291. A. suberosa, A. Cunn.; Benth.in Hook. Lond. Journ. i. 499. Branches terete or nearly so, more or less hirsute, the older ones with a slightly corky bark. Pinnæ 1 or 2 pairs, the common petiole about $\frac{1}{4}$ in., the partial rhachis nearly $\frac{1}{2}$ in. long; leaflets 8 to 12 pairs, oblong-linear, thick and rigid, obtuse, 1 to 2 lines long, more or less hirsute or ciliate. Stipules spinescent, short, slender, and straight. Flowers not seen, except some fragmentary remains on a short thick peduncle. Pod flat, but rather thick, with convex valves, about 3 in. long, $\frac{1}{4}$ to nearly $\frac{1}{2}$ in. broad, pubescent. Seeds longitudinal, broadly ovate, woolly-pubescent. Funicle folded and slightly thickened under the seed.

N. Australia. Vansittart Bay and Carcening Bay, A. Cunningham; Glenelg river, J. Martin.

69. A. subternata, F. Muell. in Journ. Linn. Soc. iii. 124. A glabrous shrub of 3 to 5 ft.; branchlets angular, sulcate, slightly viscid when young. Phyllodia mostly in clusters of 2, 3 or 4, linear-terete or very slightly compressed, with short recurved or hooked points, 3 to 6 lines long, without prominent nerves and scarcely furrowed. Stipules minute or none. Peduncles scarcely longer than the phyllodia, bearing each a globular head of numerous flowers, mostly 5-merous. Sepals rather rigid, linear-spathulate, fully half as long as the corolla, united in a 5-nerved cup at the base. Petuls slightly striate, united to the middle. Pod flat, rigidly coriaceous, much narrowed into a long stipes, about 2 lines broad in the upper part, somewhat viscid, very obliquely striate, with thickened margins and oblique partitions between the seeds. Seeds oblong, obliquely transverse; funicle straight, gradually thickened from the base to the end.

M. Australia. Table land, Upper Victoria river, P. Mueller. Some young specimens of Leichhard's appear to be referable to the same species.

169. A. stipulosa, F. Muell. in Journ. Linn. Soc. iii. 119. Glandular-pubescent or hirsute; branches terete. Phyllodia obliquely ovate-falcate or almost triangular, tapering into a pungent point, 2 to 3 or rarely 4 lines long and almost as broad, thick and faintly several-nerved, the upper angle very obtuse, with a small gland about the middle or often none. Stipules setaceous, spreading. Peduncles usually exceeding the phyllodia, pubescent, bearing each a dense head of numerous (above 30) flowers, mostly 5-merous but sometimes 6- to 8-merous. Calyx thin, striate, pubescent, as long as the corolla, at length separating into distinct sepals. Petals narrow, cohering. Stamens very numerous. Pod linear, curved, flat, glandular-hispid, 2 to 3 lines broad, scarcely contracted between the seeds. Seeds very oblique; funicle with the last 3 folds dilated into an almost membranous aril at the base of the seed.

N. Australia. Upper Victoria river and Sturt's Creek, F. Mueller. Very near A. deltnidea, differing chiefly in the flowers twice as large, and in the proportion of the calyx and corolla.

Acacia tanumbirinense

maiden.

235. A. xylocarpa, A. Cunn.; Benth. in Hook: Lond. Journ. i. 370. A shrub of 2 to 4 ft., glabrous and slightly viscid; branchlets terete. Phyllodia linear-subulate, not pointed, 2 to 4 in. long, rather rigid, terete or rarely flattened to nearly 1 line in breadth, obscurely 1-nerved. Spikes mostly in pairs, shortly pedunculate, slender but closely packed, \(\frac{1}{2}\) to \(\frac{3}{4}\) in. long when fully out. Flowers mostly 5-merous. Calvx shortly lobed, about half as long as the corolla. Petals united to the middle, with prominent midribs. Pod nearly terete or slightly flattened, \(1\frac{1}{2}\) to \(3\) in. long, shortly acuminate, \(3\) to \(4\) lines broad and thick near the end, gradually tapering to the base; valves hard, almost woody, striate lengthwise, opening elastically from the end downwards. Seeds oblique; funicle straight, gradually and slightly thickened from the base upwards.—A. orthocarpa, F. Muell. in Journ. Linn. Soc. iii, 136.

N. Australia. Dampier's Archipelago and Water Island, N.W. coast, A. Cunning-ham; Nichol Bay, F. Gregory's Expedition; Upper Macarthur river, Gulf of Carpentaria, F. Mueller.

Var. (?) tenuissima. Phyllodia longer and more slender. Spikes short. Pod unknown.

—A. tanuissima, F. Muell. in Journ. Linn. Soc. iii. 135.—Sturt's Creek, F. Mueller.

249. A. torulosa, Benth. in Journ. Linn. Soc. iii. 139. A tall shrub or small tree, glabrous, with angular branchlets. Phyllodia linear-lanceolate, falcate, with an oblique glandular point, narrowed towards the base, 4 to 8 in. long, 3 to 4 lines wide, coriaceous, with 3 to 5 prominent nerves and numerous very fine parallel ones between them. Spikes solitary or in pairs or threes, very shortly pedunculate, ½ to ¾ in. long, slender but rather dense. Flowers small, mostly 5-merous. Sepals narrow-linear, spathulate, ciliate, free or slightly united at the base. Petals united to the middle. Pod long, remarkably moniliferous, the valves thickly coriaceous, convex, oblong, and about 3 lines broad over the seeds much contracted between them. Seeds about 3 lines broad over the seeds, much contracted between them. Seeds oblong, longitudinal; funicle short, the last fold expanded into a small obliquely cup shaped aril under the seed.

N. Australia. Sandy banks of Roper and Nicholson rivers, Gulf of Carpentaria, F.

Mueller.

Queensland. Dayman's Island, Endeavour Straits, W. Hill.
Scarcely to be distinguished from A. julifera, A. plectocarpa, and some others, except by the fruit.

172. A. translucens, A. Cunn. in Hook. Ic. Pl. t. 160. A bush shrub or small tree, glabrous or the young shoots pubescent; branchlets terete or slightly angular. Phyllodia from obliquely obovate to narrow-oblong or almost linear, incurved, usually much undulate, mostly about ½ in. but the lower ones sometimes 1 in. long, obtuse with an oblique or recurved terminal gland, coriaceous, obscurely several-nerved. Peduncles rigid, ½ to 1 in. long, bearing each a dense globular head of numerous flowers, mostly 5-merous. Calyx broad, eup-shaped, shortly toothed, scarcely half as long as the corolla. Petals striate, but smaller and less rigid than in A. impressa. Pod 1 to 1½ in. long, flat but thick and almost woody, obtusely hooked at the end, about 2 lines broad above the middle and gradually narrowed into a long stipes, obliquely veined, partitioned inside between the seeds. Seeds oblong, oblique; funicle slightly folded and gradually dilated into a cup-shaped aril at the base of the seed.

N. Australia. Montague Sound and Bay of Rest, N.W. coast, A. Cunningham; Sturt's Creek, F. Mueller; Islands of the Gulf of Carpentaria, R. Brown, Henne. The pod is that of some Julifloræ, but has only been seen in the narrow-leaved specimens.

260. A. tumida, F. Muell. in Journ. Linn. Soc. iii. 144. A glabrous tree; branchlets terete or nearly so, often glaucous. Phyllodia falcate-oblong or lanceolate, much narrowed and very oblique at the base, usually 4 to 8 in. long, 1 to $1\frac{1}{2}$ in. broad, with very numerous parellel veins or nerves, 5 to 9 of them more prominent, the others very fine, closely packed and very rarely anastomosing. Spikes slender but dense, solitary or in pairs, the upper ones often paniculate, mostly 1 to $1\frac{1}{2}$ in. long when fully out. Flowers mostly 5-merous. Sepals linear-spathulate, ciliate, shortly connected at the base. Petals smooth. Pod falcate, with very coriaceous convex valves so as to be nearly terete, $1\frac{1}{2}$ to 3 in. long, 3 to 4 lines broad, divided inside between the seeds. Seeds ovate, obliquely transverse; funicle short, the last fold dilated into a small turbinate aril under the seed.

N. Australia. Isle Lacrosse, N.W. coast, A. Cunningham; rocky places, Victoria river, Point Pearce, and Sturt's Creek, F. Mueller; Attack Creek, M. Doualt Stuart. The foliage is that of A. crassicarpa, with the pod of A. umbellata.

A tall shrub, young shoots slightly hoary or silky but soon glabrous; branchlets nearly terete. Phyllodia from oblong and scarcely falcate to obliquely oblong-rhomboidal or broadly falcate, obtuse with a broadly callous or glandular tip, 2 to 4 in. long, \(\frac{3}{4}\) to 1\(\frac{1}{2}\) in. broad, very coriaceous, with numerous parallel nerves or veins, 5 to 9 more prominent and some of them confluent with the lower margin at the base, the others closely packed, fine and rarely anastomosing. Spikes sessile or nearly so, often clustered, rather dense, 1 to 1\(\frac{1}{2}\) in. long. Flowers mostly 5-merous but sometimes 4-merous. Calvx pubescent, sinuate-toothed or shortly lobed. Petals with prominent midribs. Pod falcate or nearly straight, almost terete, with convex and coriaceous valves, as in A. tumida. Seeds ovate, oblique; funicle short, dilated into a small artl of 2 or 3 folds under the seed.

N. Australia. Islands of the Gulf of Carpentaria, R. Brown; Cleveland Bay and Cape Flinders, A. Cunningham; Seven-Eunu, and Robinson rivers, F. Mueller, probably also Depot Creek, F. Mueller (specimens in flower only). Allied in foliage to A. stigmatophylla, in fruit to A. tumida.

120. A. sentis, F. Muell. in Journ. Linn. Soc. iii. 128, and Pl. Vict. ii. 18. A divaricately-branched rigid shrub or small tree, branchlets nearly terete, glabrous or pubescent when young. Phyllodia lanceolate-oblong or linear, mostly oblique falcate or curved, 1-nerved and more or less penniveined, in some specimens \(^2_4\) in. long and 2 or 3 lines broad, in others more than 2 in. long and about 1 line broad, usually glabrous, the marginal gland near the m. long and about 1 nne broad, usually glabrous, the marginal gladu hear the base or none. Stipules either subulate-spinescent or very small or none. Peduneles rather slender, solitary or in pairs, axillary or by the abortion of the phyllodia in terminal racemes, bearing each a small globular head of 20 to 30 flowers, mostly 5-merous. Sepals linear-spathulate, free. Petals smooth. Pod thin, flat, $\frac{1}{2}$ to $\frac{3}{4}$ in broad. Seeds broadly ovate, longitudinal, along the centre of the pod; funicle transverse, gradually thickened from the base unwards straight or chortly folded under the seed — 4 Victoria Benth base upwards, straight or shortly folded under the seed .- A. Victoria, Benth.

N. Australia. Victoria river and Plains of Promise, Gulf of Carpentaria, F. Mueller.

Queensland. Bargoo river, Mitchell.

N. S. Wales. From the Darling river to the Barrier range, Victorian and other Expeditions.

Victoria. Low sandhills and arid salt-bush plains towards the junction of the Murray and Darling, F. Mueller.

S. Australia. Base of Flinders range, towards Spencer's Gulf and in the interior, F.

209. A. Wickhami, Benth. in Hook. Lond. Journ. i. 379. A glabrous shrub, often very glaucous or resinous; branchlets angular-striate. Phyllodia numerous, obliquely ovate or falcate-oblong, obtuse with a small oblique glandular point, rarely exceeding \(\frac{1}{2}\) in., coriaceous, undulate, with several nerves all very faint or 1 or 3 more prominent. Spikes pedunculate, \(\frac{1}{2}\) to \(\frac{3}{2}\) or rarely 1 in. long, densely cylindrical. Flowers mostly 5-merous. Calyx

thin, broadly sinuate-toothed, fully half as long as the corolla. Petals united below the middle, the midribs prominent. Pod flat, but thick and woody, obliquely veined, about 2 in. long, 2 lines broad above the middle, gradually tapering to the base. Seeds oblique, oblong; funicle straight, gradually thickened from the base into a narrow-turbinate aril, scarcely folded towards the end.

W. Australia. Swan Bay, N.W. coast, Voyage of the Beagle; table land between Victoria river and Sturt's Creek, F. Mueller; islands of the Gulf of Carpentaria, R. Brown, and adjoining mainland, F. Mueller. The more or less prominent nerves, the glaucous hue or resinous exudations, vary in different parts of the same specimen.

239. A. arida, Benth. in Hock. Lond. Journ. i. 370. Glabrous or minutely hoary; branchlets slender, terete or slightly compressed. Phyllodia narrow-linear, obtuse or with a callous point, narrowed at the base, 2 to 4 in. long, 1 to 2 lines broad, flat but thick, obscurely 3-nerved. Spikes shortly pedunculate, solitary or in pairs, slender and compact, \(\frac{1}{2}\) in. long. Flowers very small, mostly 5-merous. Calyx shortly lobed. Petals smooth, without prominent midribs. Pod thick but flat, nearly 4 in. long, 3 lines broad, narrowed to the base; valves hard, almost woody, rolling back elastically. Seeds not seen, but evidently oblique.

N. Australia. Parched desert shores of Cambridge Gulf, N.W. coast, A. Cunning-ham. Differs from A. xylocarpa chiefly in the broader flat phyllodia.

91. ALBIZZIA, Durazz.

Calyx campanulate or tubular, 5- or rarely 4-toothed. Corolla 5- or rarely 4-lobed, with a cylindrical tube. Stamens indefinite, usually numerous and long, united at the base in a tube enclosing the ovary. Pod linear or oblong, straight or nearly so, flat, thin, rarely coriaceous, indehiscent or opening without elasticity in 2 valves. Seeds usually orbicular, along the centre of the pod; functe filiform.—Trees or shrubs, without prickles. Leaves twice pinnate, with a gland on the petiole below the pinnæ and others between or below some or all of the pinnæ and leaflets. Flowers in globular heads or rarely cylindrical spikes, usually hermaphrodite. Stamens white or pink, rarely yellow, much longer than in Acacia.

The genus is limited to the Old World, and is chiefly tropical. Of the four Australian The genus is limited to the Old World, and is chiefly tropical. Of the four Australian species, one is widely dispersed over tropical Asia, the others are endemic. F. Mueller proposes to reunite this and Pithecolobium with Acucia, but that can sacrely be done without returning to the Linnean genus Mimosa, for Pithecolobium as sto flower and fruit, and Albizzia as to flowers, are undistinguishable from Inya, whilst Lysiloma as closely connects Acacia with Mimosa. If the Linnean Mimosa is broken up into distinct genera, there is no character so constant and so easily recognized as that which separates Acacia from Albizzia. It is however very difficult to draw a definite line between Albizzia. It is, however, very difficult to draw a definite line between Albizzia and Pithecolobium, which only differ in the fruit.

When only differ in the Profit.

Flowers in cylindrical spikes on axillary peduncles.

Leaflets 5 to 10 pairs, 2 to 3 lines long.

Leaflets 5 to 10 pairs, 2 to 3 lines long.

Leaflets 2 to 4 pairs, ½ to 1 in. long.

Flowers in small heads in large terminal panicles.

Panicle loose. Stamens about ½ in. long. Pod under 1 in. broad.

Flower-heads very numerous and crowded. Stamens about ½ in. long.

Pod 1½ to above 2 in. broad.

Leaflets Posth allied to 4 conseque but were alabrous with much larger flowers.

A. Lebbeck, Benth., allied to A. canescens, but more glabrous, with much larger flowers, not closely sessile, and the pod not so broad, etc., a tree widely dispersed over tropical Asia and Africa, has been introduced into the neighbourhood of Brisbane.

4. A. procera, Benth. in Hook. Lond. Journ. iii. 88. A tall tree, the young shoots slightly silky-pubescent, at length glabrous. Pinnæ usually 3 pairs, distant along a common petiole often \(\frac{1}{2}\) ft. long,; leaflets 6 to 8 pairs, obliquely oval-oblong, usually obtuse, often nearly 1 in. long and \(\frac{1}{2}\) in. broad, very unequally narrowed at the base, penniveined but not very prominently so, minutely hoary-pubescent or glabrous above. Peduncles about 1 in. long, in clusters of 2 or 3, in a loose terminal panicle, each bearing a globular head of 15 to 20 sessile flowers, mostly 5-merous, and scarcely more than 3 lines long, including the stamens. Corolla slender, less than 2 lines long, divided to the middle. Pod 5 to 7 in. long, 9 to 10 lines broad, very flat and thin. Seeds very flat, orbicular.—Mimosa procera, Roxb. Pl. Corom. ii. 12, t. 121; A. elata, Roxb. Fl. Ind. iii. 546; Aeacia procera, Willd. Sp. Pl. iv. 1063.

M. Australia. Gloucester Island, Henne. Widely distributed over S. E. India and the Archipelago. The Australian specimens are not complete, but, as far as they go, they do not appear to differ at all from the Indian ones.

NIB

MIMOSACEAE

Cathornion umbellature

(vahl) Kosterman

88. DICHROSTACHYS, W. and Arn.

(Caillea, Guillem. and Pers.)

Calyx 5-toothed. Petals 5, valvate, usually cohering. Stamens in the perfect flowers 10, free; anthers ovate, tipped with a deciduous gland. Ovary nearly sessile, with several ovules; style short or filiform, with a small terminal stigma. Lower flowers of the spike neuter, with long, linear, white or coloured staminodia, and a small rudimentary ovary. Pod linear, compressed, variously twisted, indehiscent or the valves irregularly separating from the persistent sutures.—Rigid shrubs, the branchlets occasionally spinescent. Leaves abruptly bipinnate, with a stipitate gland between the pinnæ of the lowest or of all the pairs; leaflets small. Stipules subulate or acuminate, often imbricate on the short flowering branches. Flowers sessile, in dense cylindrical spikes, either terminal or apparently axillary by the shortness of the branchlet, the upper flowers of the spike hermaphrodite and yellow, the lower ones neuter and white pink or purple.

The genus extends over tropical Africa and Asia. Of the Australian species one is the common Indian one, the other is endemic. F. Mueller proposes to reunite it with Neptunia, but the difference in the pod is accompanied by too marked a difference in habit to be neglected, unless the whole of the Mimoseæ with definite stamens and gland-tipped anthers be united into one genus.

Pinnæ 8 to 10 pairs. Leaflets 12 to 20 pairs 1. D. cinerea.
Pinnæ 1 or 2 pairs. Leaflets 4 to 6 pairs 2. D. Muelleri.

89. NEPTUNIA, Lour.

Calyx 5-toothed. Petals 5, valvate in the bud, cohering or free. Stamens in the perfect flowers 10 or (in the Australian species) 5, free; anthers ovate, tipped with a deciduous gland, very rarely wanting; pollen granular. Ovary stipitate, with 2 or several ovules; style filiform, with a truncate or concave stigma. Lower flowers of the head male or more frequently neuter, with long linear staminedia. Pod short and broad, flat, turned downwards, 2-valved, without pulp inside. Seeds transverse, flattened, ovate or orbicular, the funicle not dilated.—Procumbent or floating perennials or undershrubs. Leaves abruptly bipinnate, with small leaflets, either without glands or with a depressed gland below the pinnæ. Stipules membranous, obliquely cordate. Peduncles axillary, usually with 2 distant stipule-like deciduous bracteoles, and bearing a single globular or ovoid flower-head. Flowers small, sessile, mostly hermaphrodite, but a few of the lower ones either like the others but male by the abortion of the ovary, or neuter with a smaller calyx and corolla, and long linear almost petal-like staminodia.

A small genus, widely diffused over the tropical regions of the New and the Old World, extending also into N. America. The two Australian species are endemic, and differ from all others in their stamens always 5 only instead of 10.

Peduncles slender, 1 to 3 in. long. Ovules several. Pod oblong, with

NIG

MIMOSACEAE

Neptunia dimorphanth

Domin.

IVEPTUBLE

1. N. gracilis, Benth. in Hook. Journ. Bot. iv. 355. Stock perennial, often woody, with procumbent or ascending stems of about 1 ft. or rarely twice as long, glabrous or slightly pubescent. Pinnæ usually 1 or 2 pairs; leaflets 6 to 20 pairs, oblong-linear, faicate, 2 to 3 or rarely 4 lines long; glands none in the ordinary form, but small setaceous stipellie under the Stipules leafy, obliquely cordate, acuminate. Peduncles 1 to 3 in. long, with 2 broad cordate bracteoles, one about the middle, the other much lower down, both very decidnous. Flower-head small, globular, with very few of the male or neuter flowers at the base and sometimes none at all. Hermaphrodite flowers smaller than in the extra-Australian species, always with 5 stamens only and few or sometimes none of the neuter ones at the base of the head. Gland of the anthers small, sometimes perhaps quite wanting. Ovules 6 to 8. Pod, when perfect, \(\frac{3}{4}\) in. long, about 4 lines wide, with 4 to

N. Australia. Islands of the N. coast, R. Brown,
Queensland. Shoalwater Bay and Broad Sound, R. Brown; Moreton Bay, C. Stuart; near Warwick, Beckler; in the interior, on the Maranea, etc., Mitchell, Leichhardt, and

N. S. Wales. Between the Darling and Cooper's Creek, Neilson:

Var. major. Larger and more erect. Leaves with a depressed gland below the lowest pair of pinnæ, but less conspicuous than in N. monosperma. Flowers rather large.—Bay of Inlets, Banks and Solander; Rockhampton and Burdekin river, Herb. F. Mueller.

Var. villosula. More or less pabescent. Pinnæ 3 or 4 pairs, without glands. Flower-heads rather large.—Sturt's Creek, F. Mueller; Gulf of Carpentaria, Landsborough; also Neilson's N. S. Wales specimens.

NIB

MIMOGREERE

Neptunia major

(Benth.) Windler

2. N. monosperma, F. Muell. Herb. Stems apparently herbaceous, but stouter and taller than in N. gracilis (except perhaps in the var. major). Pinnæ 2 or 3 pairs; leaflets 20 to 30 pairs, mostly 3 to 5 lines long; gland large, depressed below the lowest pair of pinnæ. Stipules and bracteoles very much smaller than in N. gracilis and very deciduous. Peduncles very short, rarely exceeding \(\frac{1}{2} \) in. Flowers small, all with 5 stamens only, with very few or scarcely any of the neuter ones at the base of the head. Ovules always 2 only. Pod nearly orbicular, 3, 4, or rarely 5 lines diameter, with a single seed.

N. Australia. Upper Victoria river, F. Mueller; Gulf of Carpentaria, Landsborough, Henne.

Queensland, Bowman.

92. PITHECOLOBIUM, Mart.

(Cathormion, Hassk.)

Calyx campanulate or tubular. Corolla 5-lobed, with a cylindrical tube. Stamens indefinite, usually numerous and long, united at the base in a tube enclosing the ovary. Pod flattened, usually rather thick and much curved, annular or spirally twisted, either opening entirely or on the outer edge in 2 valves, or quite indehiscent, very smooth and often coloured inside or with a thin pulp. Seeds ovate or orbicular; funicle filiform.—Trees or rarely shrubs, without prickles. Leaves twice pinnate, usually with a gland on the petiole below the pinnæ, and others between or below some or all of the pinnæ and leaflets; leaflets few and rather large in all the Australian species. Flowers in globular or oblong heads or umbels, or rarely in cylindrical spikes, usually hermaphrodite and white, the stamens rarely red.

A considerable tropical genus, distributed over the New as well as the Old World. Of the three Australian species, one is also in the Indian Archipelago, the two others endemic, one as yet doubtful as to the genus, the pod being unknown. Pithecolobium, with the flowers and fruit of some sections of Inga, only differs from that genus in the twice-pinnate, not simply pinnate leaves. Calliandra and Albizzia have the same flowers and only differ in the pod. Acacia is at once and constantly distinguished by the stamens never united in a tube round the ovary.

Flowers pedicellate in the head (umbellate).

Leaflets oblong or rhomboidal, acuminate. Pod twisted, 2-valved.

Leaflets obliquely obovate, obtuse. Pod indehiscent, very hard,

 2. P. moniliferum, Benth. in Hook. Lond. Journ. iii. 211. A tree, with the young shoots usually pubescent, at length glabrous. Pinnæ 1 or 2 pairs, the common petiole \(\frac{1}{2}\) to 1 in., each rhachis 1 to 2 in. long; leaflets 4 to 7 pairs, obliquely obovate or oval-oblong, obtuse, very oblique at the base, shining and reticulately penniveined above, opaque and less veined underneath, the terminal ones 1, 1\(\frac{1}{2}\), or nearly 2 in. long, the others smaller. Peduncles clustered in the upper axils, forming a short irregular terminal panicle. Flowers numerous, in globular umbels, the pedicels about 1\(\frac{1}{2}\) in. long. Calyx nearly 1 line, corolla about 2 lines long, minutely silky-pubescent. Stamens more than twice as long, the united part nearly as long, as the corolla. Pod usually falcate, 3 to 4 in. long, \(\frac{3}{4}\) in. broad, very thick and hard, indehiscent but separating into closed 1 seeded articles. Seeds transverse, oblong, flat but thick; funicle very short.—Inga monilifera, DC. Prod. ii. 440; Cathormion moniliferam, Hassk. Retzia, 231.

W. Australia. Point Pearce, Victoria river, F. Mueller; islands of the Gulf of Carpentaria, R. Brown; along all the watercourses round the Gulf of Carpentaria, Leichhardt. The species was originally described from Timor, and is in several islands of the Indian Archipelago.

NIB

MIMOSALEAR

Prosopis glaudulosa var. glaudulosa