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Desmodium

Sp.	Series
D. adhaerivum	Adhaerivae
" adscendens	
" affine	
" Alamani	
" ambiguum	Planatae
" ampli folium complex	Bracteatae ?
" angustatum	
" angustifolium	Angustifoliae
"	
v. graminisum	—
v. subspicatum	Angustifoliae
D. aparins	Adhaerivae
D. arizonicum	Hartwegianae
D. axillare	
v. acutifolium	
v. axillare	
v. Sinterisii	
D. barbatum	
" batocaulon	Mexicanae
" bellum	
" bioculatum	
" cajani folium	Cinereae
" callitris	Delicatae
" campyloclados	
" canaliculatum	
" canum	
" caripense (syn. orizabanum)	
" chartaceum	Planatae
" ciliare	
" cinerascens	Cinereae
" cinereum	"
" conzattii	Bracteatae
" cordistipulum	Replicatae
" crassum	

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Dremodium

Sp.	Series
D. cryptopoda	Replicatae
" decipiens	Adhaesivae
" clarum (ined. Skutch 704)	Mexicanae } Adhaesivae }
" densiflorum	Bracteatae
" distortum	Contortae
" Ghiesbreghtii	
" glabrum (syn.: molle)	Dilatatae
" glutinosum	Americanae
" gracile	
" grahami	Mexicanae
" guadalupanum (syn.: g usreztorum)	Contortae
" Hartwegianum v. amans v. Hartwegianum	Hartwegianae " "
" Hallii (syn.: foliosum)	Planatae
" humstyanum cf. amplifolium-Complex	
" hirsutum	Contortae
" hjalmarsonii	Adhaesivae?
" hookerianum	Contortae
" infactum (syn.: barclayi)	
" intortum v. apiculatum	
" jaliscanum	
" johnstonii	Hartwegianae
" Karwinskii	Replicatae?
" langlassana	
" leptoclados	Mexicanae
" leptomeris	
" lindheimeri	

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Desmodium

Sp.	Series	Standl. + Steyerl. comb.?
D. macradenum		
" macropodium		
" macrostachyum (syn.: Gentryi)		
" madriense	Centricae?	
" maxonii		
" metallicum		
" mexiae		
" michelianum	Replicatae	
" molliculum syn.: mexicanum } : Seatonii }	Mexicanae	
" mortoni n. sp. in sd syn. Putro-canescens v. curtum		
" nro-mexicanum		
" nicaraguense	Cinerea	
" nitidum	Delicatae	
" occidentale	Bracteatae?	
" orbiculare v. orbiculare v. rubricaulis v. salvinii		
" Painteri		
" Palmieri v. latifolia <small>cf. Hernandez + Sharp X1318</small>	Mexicanae	comb. nov.
" Parkinsonii		
" plicatum syn.: hondurensis } buteocanescens } dasyacra }		
" polystachyum syn.: brachystachyum } plectocarpum }		
" v. chiapense cf. Purpus 6809, 9145		var. nov.
" prehuense	Adharsivae?	

D.

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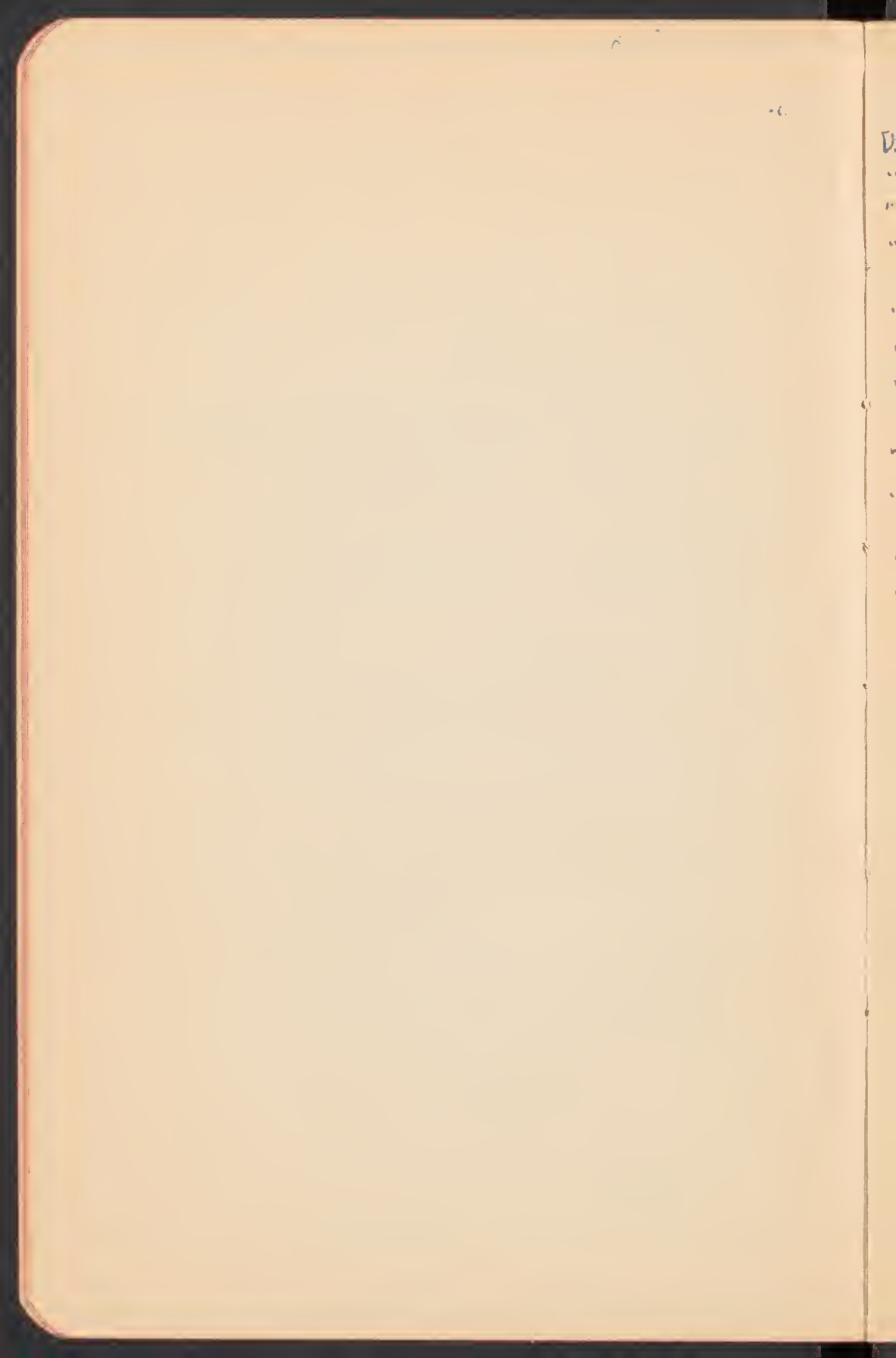
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Prismodium

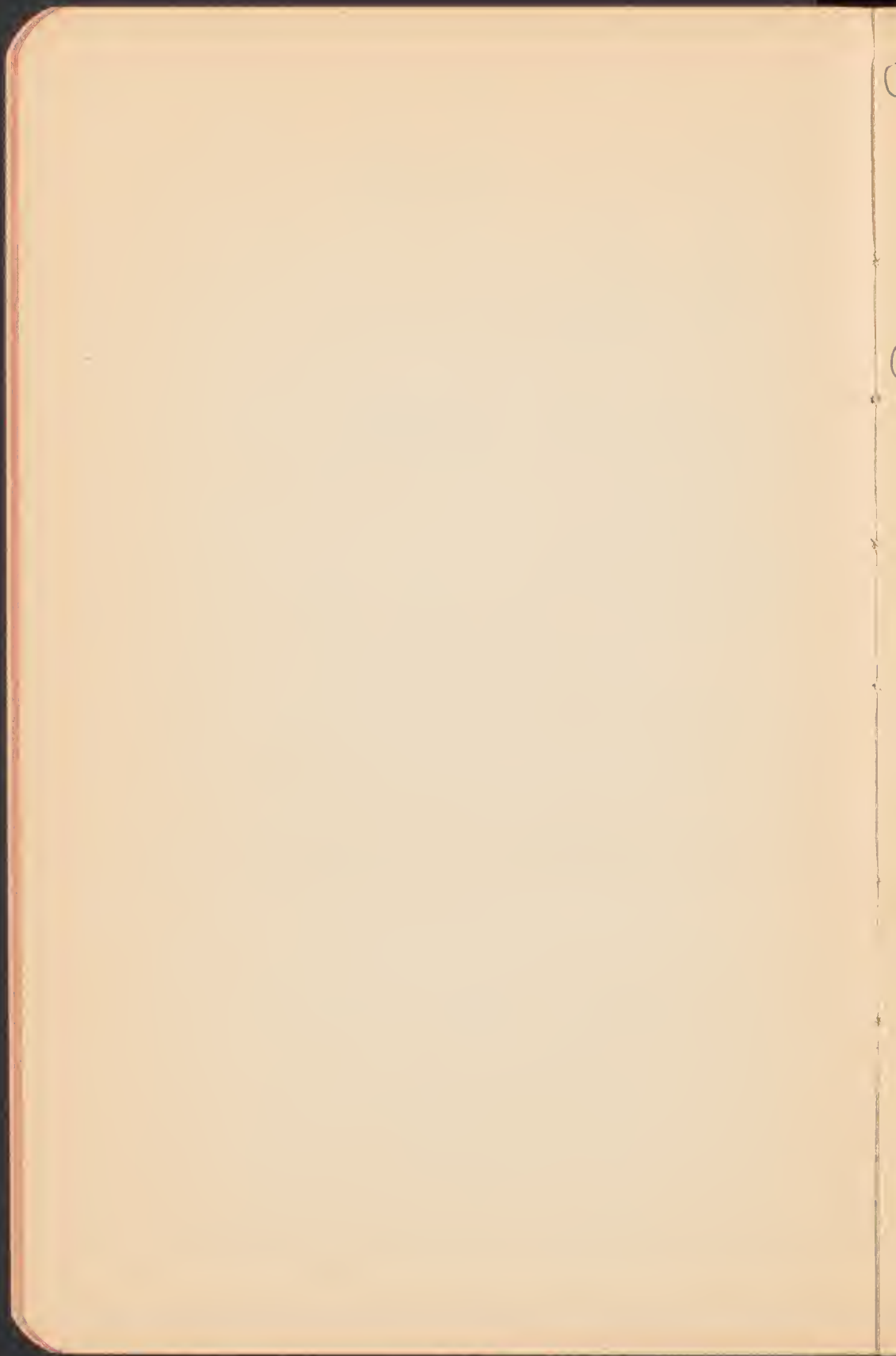
Sp.	Ser.
D. pingri syn. luteolum paranduliflorum?	Hartwegianae } Mexicanae }
D. procumbens	
" " v. exiguum	
" " v. longipes	
" " v. nanoversum	
" " v. procumbens	
prostratum (syn.: volubile)	Mexicanae or Hartwegianae?
pseudoamplifolium	
psilocarpum	Dilatatae
psilophyllum syn. Wrightii	Planatae
purpusianum	
purpusii (syn.: lunatum)	
retinens (syn.: wislizenii)	Delicatae
rhynchodromum	
rossii	
sayatilis	
schindlerii	
schusterii	Planatae
scopulorum (wigginsii)	Dilatatae
scorpiurus	
ocutatum	
seteri	
sericum	
sericocarpum	
sericophyllum	
skinnerii	Planatae
skutchii n. sp. in sed	= intortum?
shobillacum	Shobillacae

n. comb. ?



Desmodium

Sp.	Ser.
D. subsessile	
" sumichrasti	Bracteatae
" sylvicola	Replicatae
" tenuipes	
v. glabrescens	
" v. typicum ^{tenuipes}	
" tephrophyllum	
" tortuosum	
(syn. purpureum)	Contortae
" triflorum	
" varioides	
" venustum	
" wydvianum	
" xylopodium	



①

Bois du Congo

Fouquier, Joseph, Gérard, G., + Sacré, E.

Pub. de l'Inrae - Bruxelles 1953

②

Kew Bull. no. 2, 1953

Mary A. Todd - The types of *Eucalyptus*
paniculata Sm. and *E. siderophloia* Benth.
and their probable relationships.

Fanshawe, D.B. The Fish Poisons of
British Guiana pp. 239, 240

Talisia furfuracea

T. squarrosa

Alela spp

Clathrotropis spp

Mora excelsa

Tapura guianensis

Cusparia fanshawei

} bark + wood of
trees

Lonchocarpus martyrii } roots
Tephrosia toxicaria }

Serjania paucidentata [lethal] }

Lonchocarpus chrysophyllus }

" *rari florus* }

Derris pterocarpus }

Bowdichia virgilioides }

Byrsonima crassifolia }

Bauhinia spp }

} stems
Euphorbia
estimifolia leaf + latex

Cibadium *lus* *semi lethal*
Phyllanthus acuminatus } *lus* -
 " *brasilensis* } *semi lethal*
Antonia ovata - *lus*
Conomorpha magnoliifolia - *bark*
Azave Americana - *suckers*
Kovar (gr)

} narcotic

Pothermophe peltata } mixed
Piper sp } *with*
 } *bread etc -*

(3) *Mirov, N.T.*

Taxonomy and Chemistry of the White Pines
in Madroño vol XII no 3 pp. 81 - 89 (1953)

(4) *Johansen, D.A.*

Morphological Criteria for the Specific
*Validity of *Pinus jeffreyi**

Madroño vol XII no 3 pp. 92 - 95 (1953)

Michel + Reed - *Scleria* coll⁵

170 *S. glabra* Boeck.

1163 *S. striatoux* var. *lacunosa* Pierart

Pierart, P. Les espèces du Genre *Scleria*
Berg. du Congo Belge et du Ruanda Urundi

Feb. 1953

Mem. 13. of *Lejeunia*
Revue de botanique

Chevalier p. 274

* B. sempervirens Link & Otto - B. Sellowi Hort.;

B. setaria Hort.; B. cucullifolia Hassk.

(Bot. Mag. t. 2920; - Bot. Cab. 1828, t. 1438)

f. 90 (p. 274)

"Introduit du Brésil en 1821, au Jardin Bot. de Berlin, puis par Ch. Chamberlayne au Jardin Botanique de Liverpool où il fleurit en 1828."

"Cette espèce a donné naissance à de nombreuses variétés très estimées, de beaucoup supérieures au type. Mants hybrides de grande valeur ont été obtenus avec le B. Schmidtiana, le B. Lynchiana, le B. fuchsoides, etc."

Begonia cucullata illustr^{ms}

Bot. Zeit. v. t. 7 (1847). - Jr.

Ann. Sci. Nat. Paris, Ser. III. ix. t. 1 (1848). - Jr.

Klotzsch in Abh. Akad. Berlin, 1854, t. 1 (1855) - Jr.

* Betzfreund, Fl. Argentina, ii. t. 58 (1900). ✓ OK

* Lodd. Bot. Cab. xv. t. 1439 (1828)

{ white fld. "We received this pretty plant from
OK Mr. Barclay: we believe it is from
South America."

B. semperflorans L. & O.

Link & Otto, Ic. Pl. Rar. t. 5 (1828-31). OK

almost white-fld.

Lodd. Bot. Cab. II. t. 107 (1817?)

B. spatulata, "This species of *Begonia* is of late introduction from the West Indies. It blossoms most abundantly: in fact, it is very seldom out of bloom during the whole year."

1st double var. of *B. semperflorans* was introd. in 1873. "One is pictured in the Lemoine catalogue of 1898 as the new sensation of the year." Duxton p. 83

①

②

*

Begonia monophylla Pavon

① A. DC. Prod. xv'. 284 (1864)

② A. DC. in Ann. Sci Nat. ser. 4. xi. ¹²¹ ~~120~~ (1859)

* actually ② is earlier but ① is more detailed & precise.

and should be cited first.

Ann. Sci Nat. p. 121

B. monophylla (h. Boiss.), acaulis, folio unico late rotundato peltati-vel palmati-12-15-nervis undulato denticulato utrinque petioloque piloso, scape folio multo longiore piloso apice bis teros dichotomo, bracteis late ovatis laciniatis persistentibus, fl. masc. dissipalis dipetalis, frum. lobis 5, capsularibus aequalibus ovato-triangularibus. —
In Mexico (Pavon).

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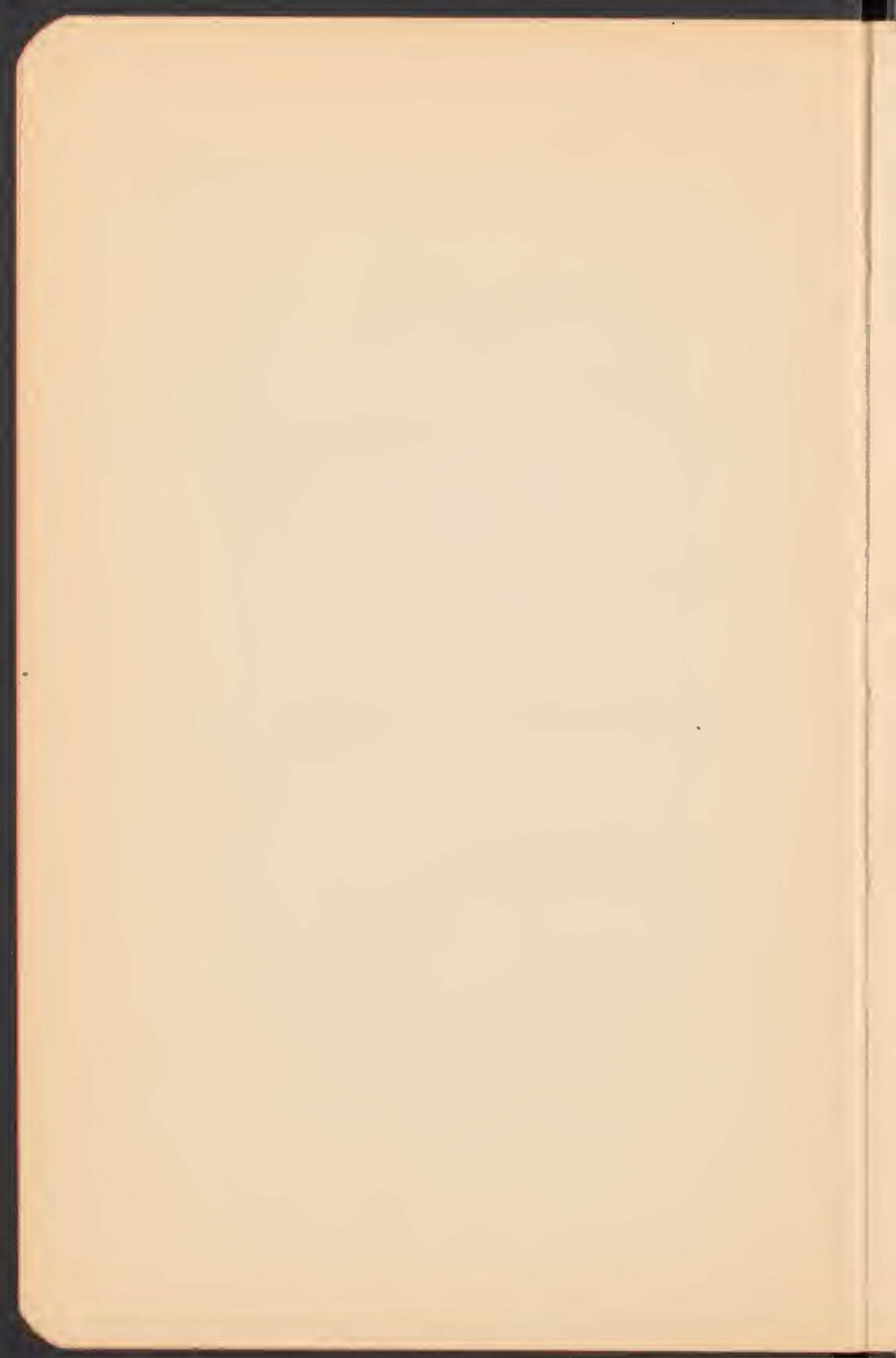
59 E. Alpine St. Newark 5, N.J.
U.S.A.

Begonia aequalis

" Semble bien distincte de *B. cucullata* qui est un arbrisseau de Bolivie? Ce dernier a la tige frutescente, charnue, arrondie, rouge, avec des feuilles infléchies-concaves, obliquement ovales, obtuses, crénelées.

"Le *Begonia alata*, du Brésil méridional, diffère du nôtre par ses feuilles obliquement ovales aiguës, crénelées, dentées, ses cymes courtes, pauciflores, nues, sa capsule plus largement et obliquement ailée.

see typed copy







Literature

Hauman, L., Les Dioscoréacées de l'Argentine
Anales del Museo Nacional de Historia Natural
de Buenos Aires, XXVII, pp. 441-513 (1916).

Descript^{ns}, illustrations, Key & bibliography

Morton, C.V. A new species of *Rajania* from Cuba -
Proc. Biol. Soc. Wash. XLVI. pp. 85-86
Apr. 1933

* ~~Barthitt~~

Spregazzini, Carlos, Nota sobre el Alpa-sandia

Physis (Revista de la Sociedad Argentina
de Ciencias Naturales) t. VII, pp. 135-138
Dec. 1923

Dreaisne, J. Histoire et Culture de l'IGNAME
de Chine (*Dioscorea Batatas*, DNE)
Rev. horticole du 1^{er} juillet et 1^{er}
décembre 1854

Jaubert, P., Zur Kenntniss der Arten der
Gattung *Stenomeris* planch.

Bot. Jahrb. Beibl. 38 pp. 1, 2.

Bihang till K. Svenska Vet.- Akad.
Handlingar. Band 13 afd III N^o 7 1888

Bidrag till Kännedomen
om

Anatomian hos familjen Dioscoreae

af J. R. Jungner

Burkill, I. H.

The Trigger-Mechanism in the germination
of the seed of *Tamus communis* Linn.

Journ. Bot. Feb. 1939 pp. 44-50

The life-cycle of *Tamus communis* L.

Journ. Bot. Jan. 1937 pp. 1-12
Feb. " " 34-43
Mar. " " 65-74

The development of the Tuber of *Dioscorea sansibarensis*
Pax pp. 232-237

The phyllotaxy of *Dioscorea glauca* Muhl

Journ. Bot. April 1936 pp. 89-101

The phyllotaxy of *Tamus communis* L.

Journ. Bot. June 1936 pp. 153-163

Notes on the Genus *Dioscorea* in the Bagan Cougo

Bull. Jard. Bot. de l'Etat Bonn

XV⁴ pp. 345-392 (1939)

See after next 2 pp.

Dioscorea caucasica Lipskij (sp. n.) 1891.

sectio Amphistemum ²⁾ [Также Kunth. Enumeratio

t. V, 325; Bentham et Hooker. Genera plantarum
Vol. III., pars II, p. 742.]

Rhizomate (tab. VII, 1) pongo, interdum fere pedali, lignoso valde dure crasso (crassitie digiti et crassius) ramoso brunneo tuberculato amylose. Caulis simplici non ramoso alto (usque 2-3 metr.), tereti leviter angulato, volubili, jam haud procul a basi verticillis foliorum obsito. Folia per 5-2, vel solitaria (praesertim parte suprema); folia, quamquam quasi verticilla sistunt, ne vera perumque unilateraliter approximata sunt per 2-3-4 (pseudoverticilla), petiolis in a basi quasi confluentibus, fere laminam aequantibus supra canaliculatis, profunde cordata ovata apicem versus angustata acuminata (long. 8-9 cm., lat. 5-6 cm.; maximum long. 20 cm., lat. 9 cm.). Foliolorum forme tamen variabilis. Infima magna ample, sinu clauso angusto et valde profundo, exciss-cordata lobis basilaribus rotundatis; media et superiora minora, sinu aperto, plus minus profunde cordata; suprema basi rotundata fere linearia et linearia minima. Folia plerumque 13 nervia (in speciminibus feminis saepe 11 nervia), suprema 9, etiam (pauca) 7-nervia, nervis arcuatis prominentibus. Foliolorum pagina supra glabra, subtus pilis albis papilliformibus ad nervos dense obsita.

Petiolis, nodis, florum spicis et caulis parte suprema parce pilosis.

Flores masculi δ (tab. VI et tab. VII. 3, 4) in apicam remotifloram, vel simplicem (in axillis foliorum superiorum), vel ramosam ramis saepissimè 2-3 longis patentibus (in axillis foliorum inferiorum) dispositi. (In tab. nostra VI occasione delineatum est specimen spicis fere omnibus simplicibus). Spicis in axillis foliorum solitariis. Floribus solitariis sessilibus (2-2,5 mm. longis), perigonii tubo infundibuliformi, laciniis reflexas rotatas inter se fere aequales subaequantibus; laciniis oblongo-ovatis obtuse-rotundatis extus concavo-cochlearis (ingermis intus concavo-cochlearis). Staminiibus 6, tubi perigonialis apici insertis erectis; antheris didymo-subglobosis filamentum paulo superantibus; rudimentum stylinum papilliforme. Ad floris basin bracteis binis vel ternis lanceolatis acutis cochleari formibus tubum perigonii subaequantibus; in axillis bractearum lateralium saepe flosculi rudimentarii proveniunt, unde apparet, flores revera fasciculatos esse (per 3), quorum laterales steriles. Ob folia suprema minuta (saepe fere inconspicua) apex caulis floriferi paniculae similis est.

Spica fructifera (tab. VII. 5, 6) pendula,
5 pollicaris, capsulis pedicellatis reflexis
ad rhachin spicas adpressis, triquetris
fere ex alio tantum tribus constantibus,
lterioribus quam longioribus (lat. 25-30
mm., long. 20-25 mm.) nitidis pergamenis,
junioribus ad margines pilis grossis parce
obsitis dein glabrescentibus, vertice et
basi depressis vel emarginatis, junioribus
flavo-virescentibus, senioribus (non sat
maturis tamen) exsiccatis fusciscentibus
stramineis, trilobularibus, loculicidibus
dehiscens, pedicellis circiter 5 mm.
longis trialatis.

Semina (immatura) gemina, angulo
interno affixa, loculum implentia, plana
elliptica (7 mm. longa, 5 mm. lata),
interdum suborbiculata, castanea, undique
ala latiore membranacea cincta, ala
saepius undique irregulariter excrecente
latiore quam longiore (ala cum semine
10-20 mm. lata) (tab. VII, 7).

Haeec planta curiosissima crecitat in
silvis umbrosissimis subtropicalibus ad
Monasterium Nov. Athos haud procul a
Suchum-Kalè (Caucasus Ponticus),
rhizomate profunde inter lapides immerso;
secundum cl. N. Albow et alibi multis
locis Abchasiae provenit. Florescens medio
Majo (style vet.). Persepe in societate
Thami communis L. versatur, quam
interdum amplectens quasi unam plantam
praebet (specimen tale possideo); habitu

valde similis Th. communi, in Caucaso
vulgatissima, sine dubio cum hac
confusa est (praesertim planta mascula)
et quam ob causam adhuc nondum
reperita.

Secundum clarissimum Ferdinand Pax,
qui mihi benevole auxilio venit et sua
auctoritate gravi confirmavit, speciem
meam novam esse, *Dioscorea*
caucasica maxime accedit ad
D. deltoides Wall., quae tamen differt
foliis 7 —, vel rarissime 9-nerviis,
glabris (pagina foliorum interna excepta),
spicis masculis simplicibus (vel rarius
furcatis), floribus per 3 fasciculatis,
foliorum forma alina (folia deltoido-
cordata).

Medio Majo anni 1892 rhizomata plura
effodi et Horto Botanico Universitatis
Imperialis Kiewensis misi, ubi loco
umbrosus sata sunt, et jam ejusdem
anni autumnus specimen defflorata
(mascula tamen) vidi.

Publ. 1893 pp. 3, 4, 5
145 | 146 | 147

Lipsky in Bull. Soc. Natur. Kieffs (1893) 143, t. 6, 7;
Alboff in Act. Hort. Petrop. xii (1893) 439; et in
Bull. Herb. Boiss. i (1893) 263. — Reg. Cauc.

Burkill

Two Notes on Dioscoreas in the Congo:

- (1) The Acarodermis of *D. minutiflora* Engl. and *D. smilacifolia* De Wild., and (2) Twining in both directions in *D. Baya* De Wild.

Proc. Linn Soc. Sessⁿ 151
1938-39 pt 2, 5 Apr. 1939
pp 57-61

* ^{Pram + Burkill}
"Dioscorea sativa"

Rev Bull 1919 pp. 341-375-

incl notes on other Linnean sp.

P. + B.

Dioscorearum novarum

Descriptions quaedam auctoribus

Journ + Proc. As. Soc. Bengal (N S)

IV. ~~no~~ 9 pp 447-457 (1908)

P + B. On *Diosc. deltoidea* Wall., *Diosc.*

quinqueloba Thunb., + their

allies Journ As Soc Beng

Vol LXXIII pt II Suppl 1904

pp 1-11

P. & B

On *Dioscorea birmanica* - a new sp
from Burma - and two allied spp

From the Journ. As. Soc. Beng.

LXXIII, Pt II, no 4 (1904)

pp 1-5

Brinkell

The tuber of *Dioscorea conchocaulis* Br

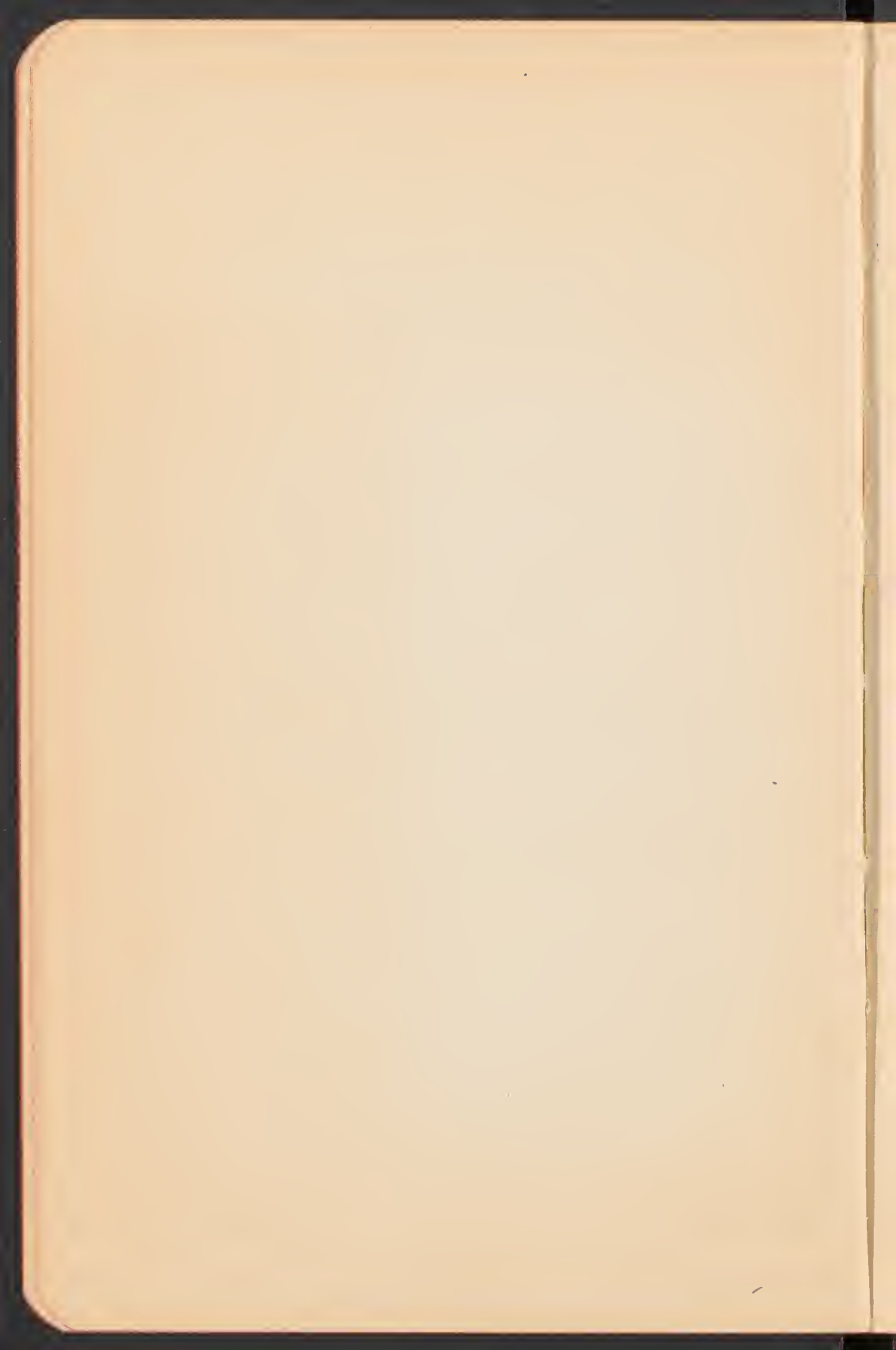
Blumea Suppl I

29. vi. 1937

pp. 232 - 237

(J. J. Smith)
(Jubilee Vol)





Begonia references
 from
 List compiled at N.Y. Bot. Gard. by
 T. H. Everett 1941

B. cucullata Bettsfreund H. Argent.
ii. 658 (1900)
 Floric. Cat. 14: 274, 1846
 " " 21: 126, 1853
 " Mag 6: 142, 1842
 Florist 92, 1853
 Horticulturist 1: 372, 380, 1846

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 12: 1026, 1897
 19: 250, 1902
 20: 639, 1903
 Am Gard. 10: 412, 1889
 12: 224, 1891
 13: 27, 1892
 16: 41, 1895
 18: 850, 1897
 19: 864, 1898
 24: 285, 1903

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B. cucullata Betfrend H. Argent.
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 " " 21: 126, 1853
 " Mag 6: 142, 1842
 Florist 92, 1853
 Horticulturist 1: 372, 380, 1846

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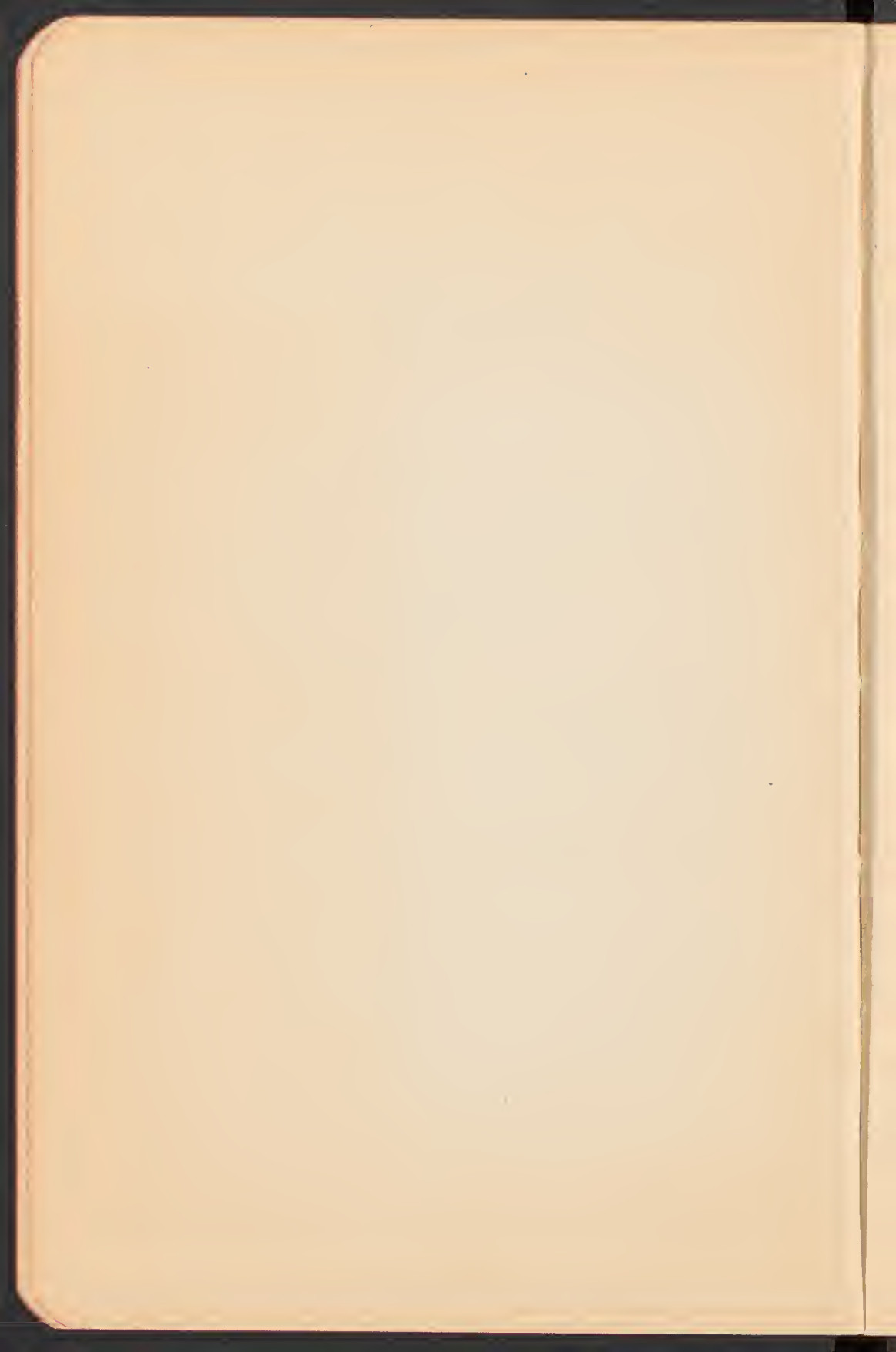
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Allg. Gart. 4: 358, 1836
 Am. Florist 1: 46, 1885
 3: 87, 1887
 12: 1026, 1897
 19: 250, 1902
 20: 639, 1903
 Am Gard. 10: 412, 1889
 12: 224, 1891
 13: 27, 1892
 16: 41, 1895
 18: 850, 1897
 19: 864, 1898
 24: 285, 1903



Jamscher





Begonia references

List compiled at N.Y. Bot. Gard. ^{from} by
T. H. Everett 1941

B. cucullata

Becklund H. Argent.

Flor. Cat. 14: 274, 1846

ii. 658 (1900)

" " 21: 126, 1853

" Mag 6: 142, 1842

Florist 92, 1853

Horticulturist 1: 372, 380, 1846

B. spathulata

Allg. Gart. 4: 358, 1836

Flor. Hort. Jour. 2: 195, 1853

Flor. Cat. 11: 65, 1843

" " 14: 274, 1846

" " 21: 126, 1853

Flor. Mag. 6: 142, 1842

Gartenflora 1: 166, 1852

Horticulturist 1: 379, 1847

Ill. Gartenz. 14: 8, 1870

B. semperflorans

Allg. Gart. 4: 358, 1836

Am. Florist 1: 46, 1885

3: 87, 1887

12: 1026, 1897

19: 250, 1902

20: 639, 1903

Am Gard. 10: 412, 1889

12: 224, 1891

13: 27, 1892

16: 41, 1895

18: 850, 1897

19: 864, 1898

24: 285, 1903

(1828)

B. semperflora

Lodd. Bot. Cab. t. 1439 ^{good - white fls}

* Bot. Mag. NS. 3: pl. 2920, 1829 ^{pink fls} good [see last comment]

Bull. Soc. Hort. Genève 23, 24, 1906

Flor. Exch. 21: 138, 1906

25: 429, 1908

27: 149, 596, 1909

50: 967, 1920

84: 20, 1935 - Jan. 26

85: 10, " - Oct. 12

87: 32, 1936 - Nov. 28

Flore Serres Jard. 23: 60, 1880-83

Floric. Cal. 14: 270, 274, 1846

20: 5, 1852

21: 126, 1853

Florist 92, 1853

Gard. Chron. 5: 361, 1845

38: 67, 277, 1920

" : 103: 40, 1938

" : 106: 174, 1939

Gard. Chron. Am. 40: 299, 1936 - Oct.

Gard. Ill. 5: 129, 1884

12: 508, 1891

16: 533, 1895

19: 335, 1898

20: 577, 618, 1899

24: 432, 1903

52: 175, 1930

Gard. Month. 6: 370, 1864

Garden 21: 442, 1882

36: 431, 1889

37: 448, 1890

39: 38, 1891

40: 523, 1891

45: 291, 1894

46: 59, 1894

B. sempervlorens

- Garden 52: 279, 1897
53: 377, 1898
58: 128, 1900
88: 31, 1924
- Gardener 9: 84, 1875
- Gartenflora 22: 101, 1873
28: 209, 1879
34: 26, 1885
- Gartenschenheit 5: 150, 1924
- Gartenzeitung 2: 49, 515, 1883
3: 548, 1884
- Ga Hamb. Gart. 26: 41, 1870
40: 519, 1884
- Horticulture 1: 23, 1904
32: 293, 1920
25 15: 13, 1937
" 16: 100, 1938
- Horticulturist 1: 379, 380, 1847
- Jour. Hort. Pract. Gard. 1: 111, 1863
29: 504, 1875
30: 114, 1876
- Journ. N. Y. Bot. Gard. 33: 75, 1932
40: 63, 1939
- Journ. Soc. Nat. Hort 45 7: 609, 1906
" 13: 319, 1912
- Kew Bull. 45 52, 1900
- Monatsschr. Garten. Pflanzenk. 20: 398, 1877
- Nürnberg Mag. 41, 1855
- Rev. Hort. Belg. 3: 29, 1877
5: 100, 1879
8: 40, 1882
10: 250, 253, 1884
17: 110, 1891
29: 213, 1903
33: 164, 196, 252, 1907

B. semperflorans

Rev. Hort. 391, 1869
13, 1877
189, 1878
123, 223, 1880
5, 1884
482, 1890
NS 26: 120, 1938

Schidwiler Journ. Hort 11: 9, 1853-54

New *Semperflorans* Begonias

Gartenwelt 29: 806, 1925
31: 34, 1927
32: 653, 1928

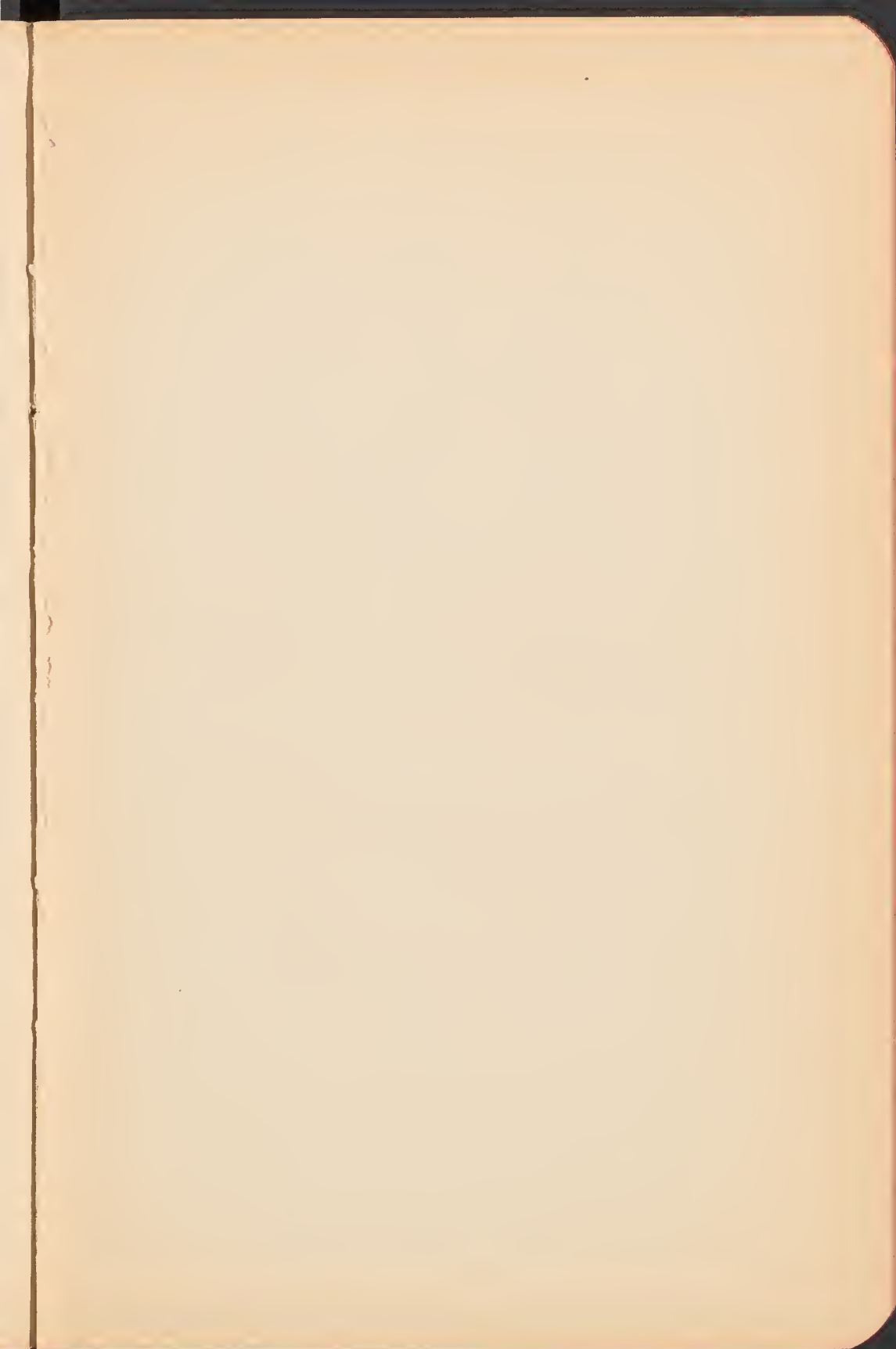
semperf. atropurpurea Hort

Rev. Hort 1891 p. 84; 1911 p. 385



Como se dice ... en español

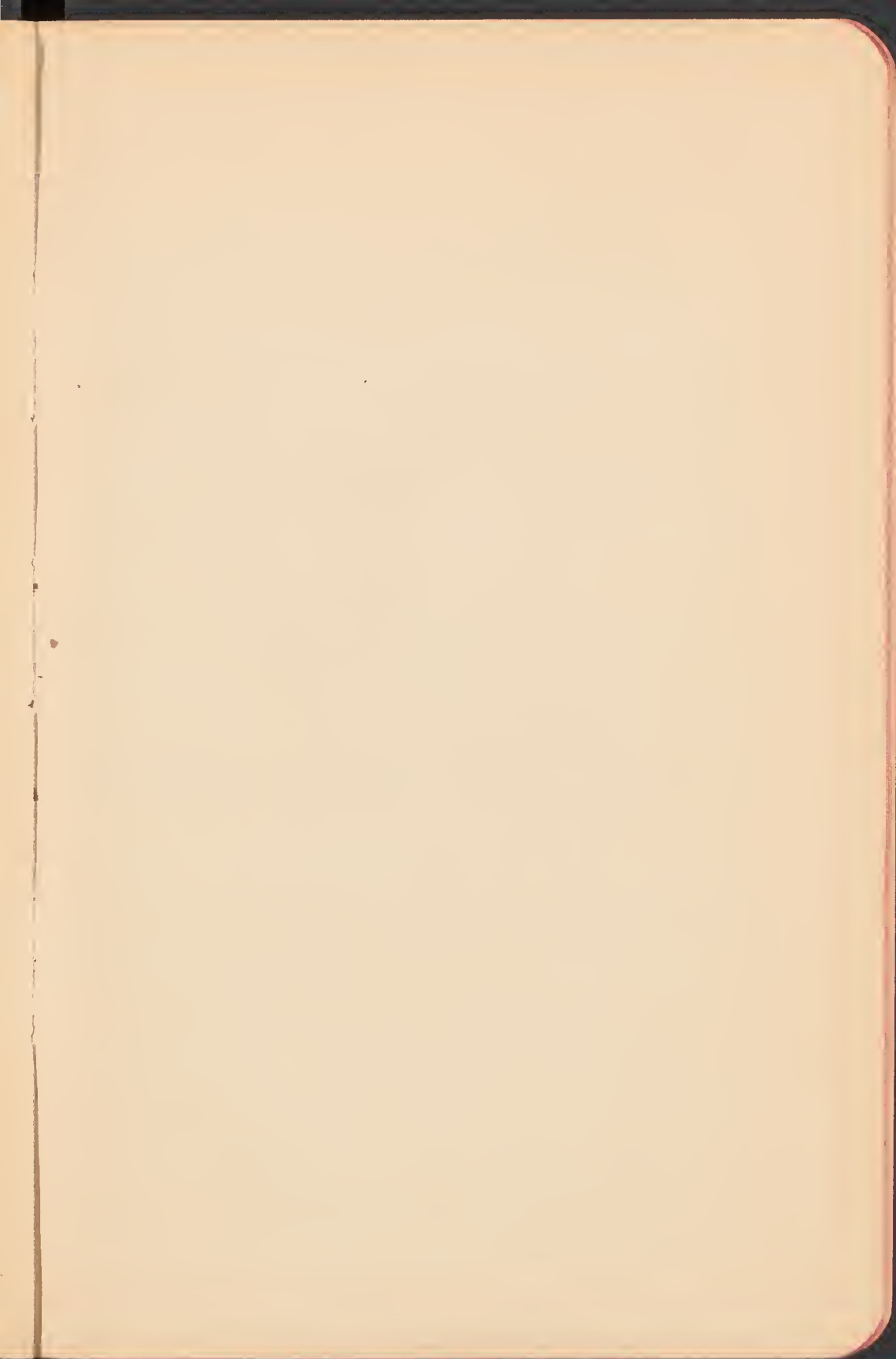
artículo determinante
def. art.



B. barbatum

van. *virgatum*

Jungles: Saker, F. B., 1143, June 1890
Champs in water et collinae
Saker 308



Demodium - Madagascari

conum ✓

~~testum~~

triflorum ✓

trigynum ✓

ascendens

hemisphaerium ✓

repandum ✓

velutinum ✓

gongyliforme ✓

polycapitulum var. polycapitulum ✓

lobatum

var. nov. (Madagascari endemic.) ✓

var. dimorphum

var. argyrum

✓

✓

✓

obovata (=proc. f.) ✓

testaceum

leucocarpum (naked.) ✓

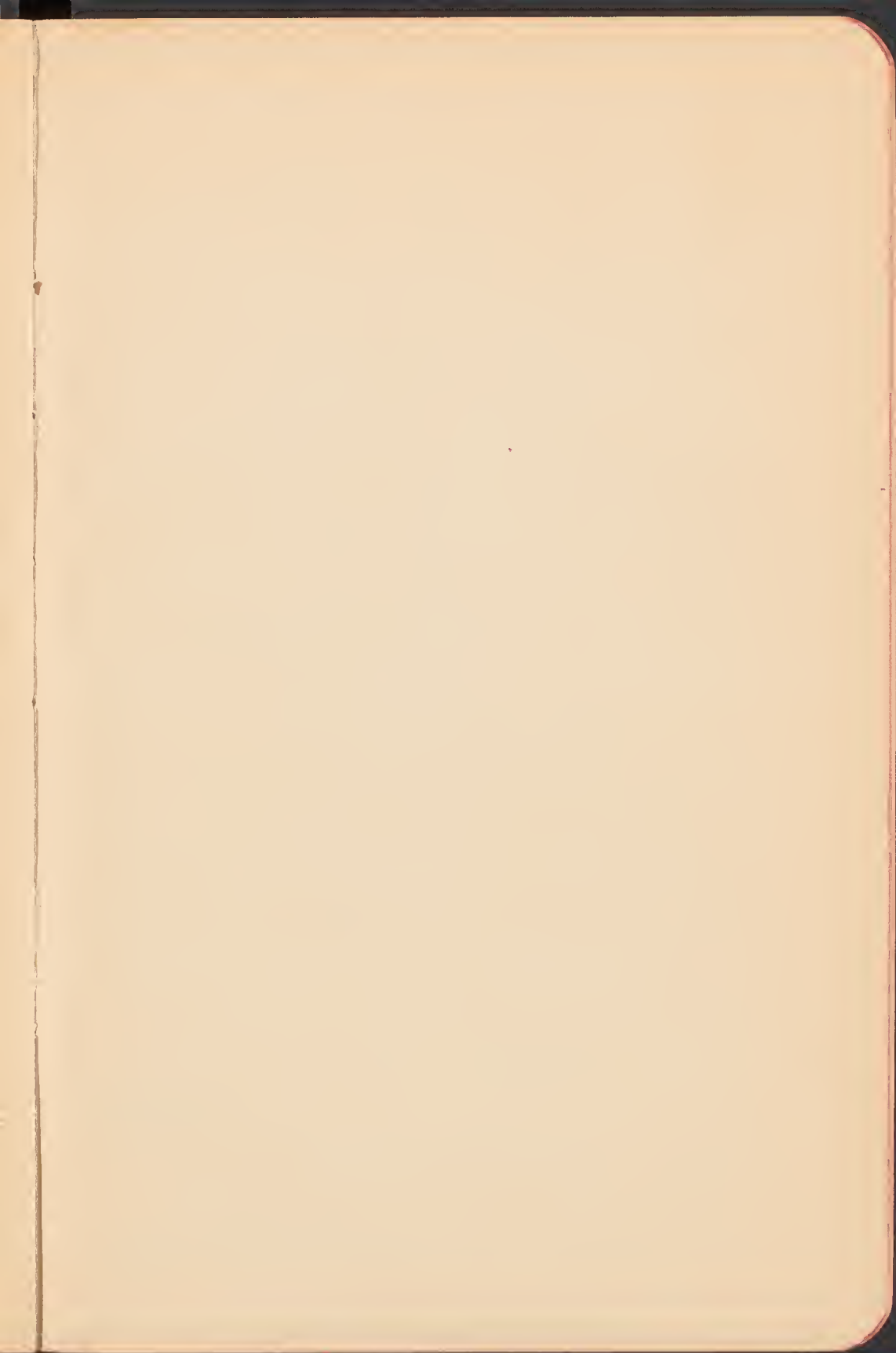
umbellatum

~~lobatum~~

auriculatum ✓

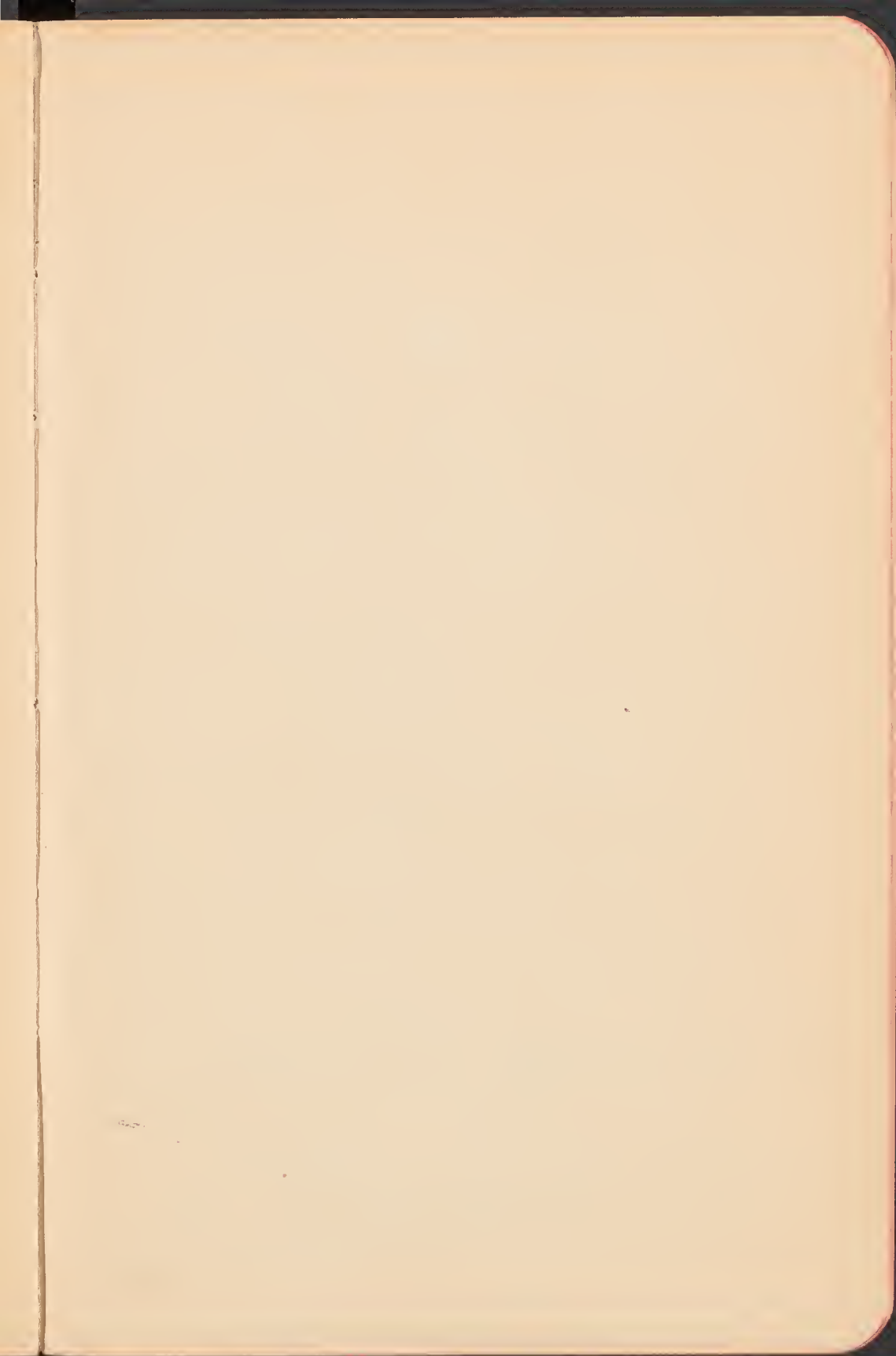
lobatum (Madagascari endemic.) ✓

officinum ✓



~~Yucca~~

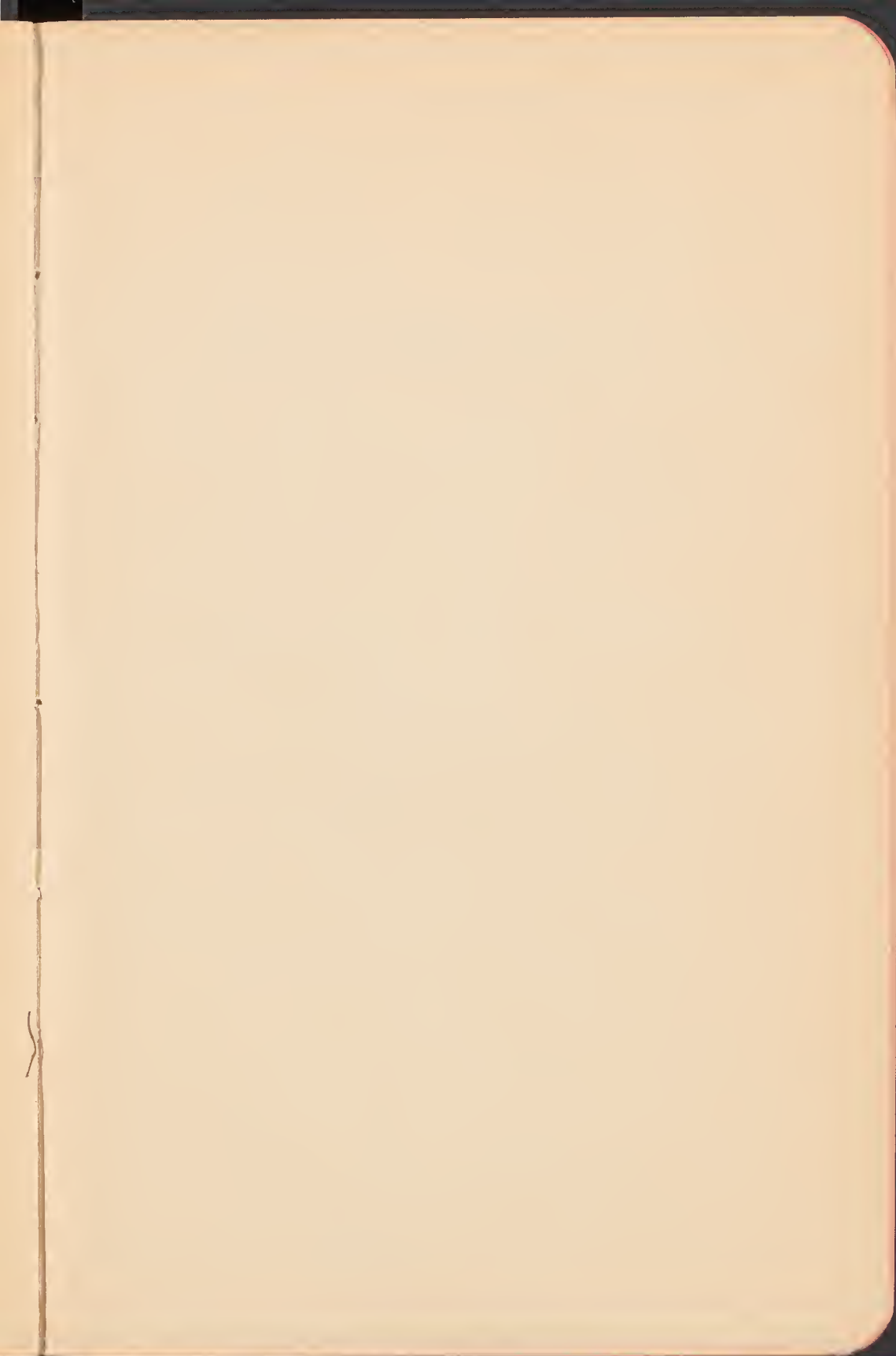
Dioscoreum lobatum Schille.
Hologarces



S. rotigerum

Agm.: *S. Kummelobium*
Humboldt n. 205 (1882) *Moogooes* (P)
type

Agm.: *S. Boissianum*
Boiss 221², ~~187~~ ~~juv.~~ juv. 1850
Nori - Cembra (P)



Plantes et Santé
ou le jardin de l'Herboriste
2nd ed
Henry Correvon 1922

Burnett Plantae Utiliores 1840

Desmodium histum

Pavia

