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#### *About the Institute*

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Good illustrations of several spp of *Sapinum* in *Vocheria* c. Pl. 19004  
1937

*Sapinum macrocarpum* Muell. Arg. in *Linnaea* 32: 119, 1863

T: Pawan, Peru, - Geneva.

Specimens from Herb. Urbanum-

Phyllanthus

1. Grisebach 1852 - Honduras - Phyllanthus?
2. Wright 1430 - Cuba, 1431 "
3. Broadway W.E. 3064 - Ithaca "
- "          3038 "
- "          2654 Trinidad "
4. Sieber. Fl. Junitata 153 "
- "          "          337 "
5. 41 - Phyllanthus alaternoides Rich? <sup>foliatus</sup> Barbudi Herb.
6. "          "          viridifolius " "
7. Xylophylla foliata " "
8. "          "          arbuscula (P. speciosa) " "
9. "          "          latifolia " "
10. "          "          ramifolia " "
11. 49 Phyllanthus - by Presl - Plurid. Habana
12. Phyllanthus "berbericaulis"? - illegit.
13. "          stellata "Humb. Kirilley".
14. "          "          obtusata
15. "          "          baccifera
16. "          Berlin bot. gard. 1826 from Schuster's herbarium

Costa - Mex + Am Cent.

1. Herb. Barbudicum Texans-Mexicans 1540
2. E. Palmer 335, 589, 73, 93, 526, 106, 366, 322
3. Parry + Palmer 829
4. Purpus 10641, 8450, 2831, 5062, 5458, 7159, 7345, 7344
5. G. R. Ocutt 3303
6. Jared G. Smith 124
7. John Howell Smith 2616
8. Rose, Pariter + Rose 9296
9. Purpus 7752, 7637, 12096, 5481, 5041, <sup>(= 7637?)</sup> 8916, 8443
9. C. F. Baker 2055
10. Motuda 282

Costa - Ind. Occ.

1. Wright 563

Coston - 9 and Dec.

2. Sieber - Fl. Trinitatis 269, 106

3. Pringle - 71

4. W. S. Broadway 7223, 7832, 6386, 7575

Coston Am. Ant -

1. Dessein 10841, 2710, 9755, 9372, 9401, 15189, 13196,  
15590, 11318, 308a, 9265, 16549, 16030, 16459  
16753, 16993, 16040, 17188, 16460, 11741

2. Hassler 4386

3. H. H. Smith 371.

4. Blanchet 3590, 3656,

5. Purdy + Squires 114

6. Miller + Johnston 229

7. Sello, Montevideo, Uruguay.

8. Bang 383, 971, 745

Genera to check ref for Sapindus.

1. *Excocarpus* - 193

2. *Sebastiania* - 191

3. *Hemslanthus* - 195

4. *Symnanthes* - 207

5. *Hippomane* - 201

6. ~~*Alchornea*~~ - 103

7. *Caryodendron* - 95

8. ~~*Puccanea*~~ - 39

*Alchornea*

Valuable specimens, their workings, etc.

1. Sieber - herbs collected for him  
See Engelm's Botanische Jahrbücher -  
Pritzels  
Sinnese  
Flora  
Fl. Capensis } - S. Africa  
" Trinitates } the name only printed  
" Martinique }  
" Mauritius }
2. Haenke - specimens from Kew  
from Peru  
Philippine Is. - 1792  
Mexico  
written up by Presl - Rel. Haenkeianum  
usually with the name + Pr.
3. N.G. Anderson - all over the world, particularly noted for  
Galapagos Is. about 1852 -
4. Poeppig - mostly at M. B.G. - Cuba, Peru, Brazil,  
Chile, Pennsylvania - all from Bernhardt herb.  
Pa. plants printed -  
Cuba " printed in script.  
Peru " handwritten, usually no. only.  
Wrote for Fl. Brasiliensis.  
Poeppig? Nov. Gen. Vol. 3.  
Endlicher
- cf. Blake + Atwood - Geographical Guide to Floras of the World.  
Oldest herbaria of this country are Gray, Torrey + Engelman

Markings on old specimens of value -

HBG - Hortus <sup>Botanicus</sup> Berolinensis - Willdenow.

Collectors by country -

Mexico

1. Schiede - , Schiede + Deppe
2. Sealandier
3. Gray - a few passed out to specialists, but largely not distributed from M.B.

West Indies -

1. Bartero - S. D. San Domingo

F. I. Martin. Nro. — Small printed label. Collected by Kohaut, for Sieber's ericcate.

S. A. - Sieber - F. I. Trinidad's # no - printed

1. Guachmath - no. only - Brazil.
2. Hostman + Kasler - Surinam + no.
3. Selzman - Bahia in upper left corner + some locality in left hand.
4. Manso + Shotsky - Matto Grosso
5. Sello of Uruguay - Montevideo. in pencil. Sellow)

on left side of label

1 1/2 x 1 1/2"

Very fine no. on white paper

- India

Delbrück

6. Blanchet - Brazil - no. only, or no. + name
7. Bartero - Santa Martha
8. ~~Delbrück~~ - brownish orange crayon writing

Europe -

Willkomm

Widcomb - Spain - S. Nevada

Wallich - India - assoc. w/ Br. E. India Co. pub. list of his herbarium, preserved in Calcutta + Kew. English botanists published for him.

For Asiatic collections Merrill + Walker - Bibliography of Eastern Asiatic Botany.

Asia

9. Burze - Altai - published in Ledebour in Fl. Russia - mountains in S. central Siberia.
10. A. Senoumond 1857 - Marquesa Isl., Pacific - A lesser De Candolle.
11. Preiss - Australia - Lehman - Plantae Preissiana.
12. Hedy Cuming - Philippines - Vidal + Soler - Philippines

Robert Fortune - China -

Africa - Echlon + Zeyher - Cape of Good Hope  
Krauss

Johann Peter Rottler - funny hand - printed labels  
Drege - Africa (South)

10/11 - Type - See Blake's discussion

1. The type specimen from which author describes.  
Known also as holotype.  
Isotype - type nos. other than the holotype.
2. Cotype - when a specimen (species) is digynous, either ♂ or ♀ is designated as type, and the other sex is the cotype.
3. Paratype - specimens cited in the original description other than the holotype.
4. Syntype - no holotype cited, but several specimens cited in original description.
5. Lelectotype - a specimen selected by a later author from ~~the~~ all the specimens originally cited by the describer who had not designated a holotype.
6. Topotype - a specimen collected at the type locality.
7. Kleptotype - stolen or taken from the original.
8. Merotype - type fragment - best to call it this, not ~~the~~ preceding.

A METHOD FOR CLEARING WHOLE MOUNTS FOR ANATOMICAL STUDY

1. Extract chlorophyll with 70% alcohol.
2. Place material in 5% soln. of sodium hydroxide and place in an oven at 45° C., observing each day until vascular structure becomes evident. If further clearing is necessary due to the presence of tannin, remove the tannin with an appropriate reagent. Stain the material with a good xylem stain such as saffranin and wash of the excess stain. If necessary, de-stain with HCl.
3. From A. S. Foster, Practical Plant Anatomy, p. 216, 1949.

Material of herbarium specimens should first be soaked in hot water until it sinks; with fresh material, the chlorophyll should be extracted by means of hot alcohol. Next, the material is transferred to vials containing a 5-10% aqueous soln. of NaOH. Delicate objects may require no heat, but for heavier material, vials should be placed in an electric oven. Frequent changes are desirable until material appears devoid of coloration.

If after several days the material is still opaque, dehydrate in successive grades of alcohol followed by clearing with xylene or toluene. Alcohol concentrations of 50, 95, and 100% , 100% alcohol and xylene, pure xylene. Allow 15-20 minutes in each grade of alcohol.

*Use lactic acid for further clearing.*



57. *S. taburu* Ule  $\bar{x}$   
Ule 8207, 8999  
Kaberbau, 4750
58. *S. sulciferum* Pittier  
Tondou 12428
59. *S. aereum* Kl. ex. M.Arg.  
Ruiz + Pavon - Peru
60. *S. thelocarpum* K. Schum. et Pitt.  
Tondou 8807, 10112
61. *S. bogotense* Huber  
Triana 1866, - Geneva
62. *S. ciliatum* Hemsl.  
Spruce, Brazil, Santa Rosa
63. *S. sessile* Hemsl.  
Spruce 7203  
Ruiz + Pavon - Peru
64. *S. sceleratum* Ridley  
Ridley, n. Fernando Noronha
65. *S. argutum* (M.Arg.) Huber  
Martius 2409
66. *S. cuneatum* Griseb.  
Marich, Macadjan, Pardic, Jamaica
67. *S. Harrisii* Urban in Sched.  
Harris 10117
68. *S. lateriflorum* Hemsl.  
Rovira 769
69. *S. adenodon* Griseb.  
Wright 1428!
70. *S. sebiferum* (L.) Roxb.
71. *S. discolor* (Champ.) M.Arg.
72. *S. eugeniifolium* Hamilt.
73. *S. baccatum* Roxb.
74. *S. diversifolium* (Miq.) Pax
75. *S. rotundifolium* Hemsl.
76. *S. insigne* (Royle) Benth.  
a. *genuinum* Pax  
b. *malabaricum* (Wight) HoEK.
77. *S. Merrillianum* P. & H.
78. *S. armatum* P. & H.
79. *S. reticulatum* (Hochst.) Pax
80. *S. cornutum* Pax  
a. *genuinum* Pax  
b. *coriaceum* Pax  
c. *Poggei* Pax.
81. *S. xylocarpum* Pax  
a. *genuinum* Pax  
b. *lineolatum* Pax
82. *S. oblongifolium* (M.Arg.) Pax
84. *S. faradianense* (Beille) Pax
85. *S. melanostictum* (Baill.) P. & H.
86. *S. virgatum* (Baill.) Hook.
87. *S. indicum* Willd.
88. *S. triloculare* P. & H.
89. *S. japonicum* (Sieb. & Zucc.) P. & H.
90. *S. cochinchinense* (Lour.) O. Kuntze.
91. *S. ellipticum* (Hochst.) Pax
92. *S. madagascariense* (M.Arg.) Pax
93. *S. Goudotianum* (Baill.) Pax
94. *S. Balansae* Parodi
95. *S. diandrum* (Vell.) Huber
96. *S. Harmieri* Huber

1. <i>S. macrocarpum</i> Muell. Arg.	hb. Pavon, Peru	Geneva
2. <i>S. Pavonianum</i> (M. Arg.) Huber	hb. Pavon, Peru	Geneva
3. <i>S. daphnoides</i> Griseb.	Wright 2001	MBG
4. <i>S. jamaicense</i> Swartz	None cited	
5. <i>S. laurocerasus</i> Desf.	" "	
6. <i>S. Fendleri</i> Hemsl.	(Bertero? Puerto Rico Fendler 1012)	
7. <i>S. eglandulosum</i> Ule	Ule 5356	
8. <i>S. Pittieri</i> Huber	Pittier & Tonduz 4344	
9. <i>S. Hasslerianum</i> Huber	Hassler 7754 & 7734a	Geneva
10. <i>S. obovatum</i> Kl. ex. M.Arg.	Riedel 2829, 640-Minas Geraus	Dupl of Glazion 22118 in Herb. MBG.
11. <i>S. peloto</i> P. & K.H.	Herzog 334-Bolivia	
12. <i>S. Martii</i> (M.Arg.) Huber	Martius 2003-Geneva	(Photo in Gray)
13. <i>S. pallidum</i> (M.Arg.) Huber	Blanchet 2689-Geneva	
14. <i>S. rhombifolium</i> Rusby	Rusby 1824	
15. <i>S. verum</i> Hemsl.	R.B. Whites.n. & 9-Columbia (Kew)	
16. <i>S. stylare</i> M.Arg.	Fendler 1231	MBG
17. <i>S. occidentale</i> (M.Arg.) Huber	Tamberlik -Brazil. Occid.	
18. <i>S. pedicellatum</i> Huber	Pavon (Mexico)	Geneva
19. <i>S. paucinervium</i> Hemsl.	Jenman 2092	Kew, Gray
20. <i>S. appendiculatum</i> (M.Arg.) P&KH	hb. Pavon (Mex.)	Geneva (Authentic spec. in 1486)
21. <i>S. caribaeum</i> Urb.	Duss 2932	MBG
22. <i>S. Aubletianum</i> (M. Arg.) Huber	Spruce 2198	Kew
23. <i>S. montevidense</i> Kl. ex. Baill.	Spruce 2435; Sello 122, 375, 1587; Czermak & Reineck 71 (as <i>S. submarginatum</i> )	
24. <i>S. Muelleri</i> Hemsl.	Fritz Mueller 200	Kew
25. <i>S. Gibertii</i> Hemsl.	Gibert 8, 171, 181 (Urug.)	
26. <i>S. Jenmanii</i> Hemsl.	Jenman 2091, 6645, 7505	Kew
27. <i>S. Ruizii</i> Hemsl.	Ruiz & Pavon (Mex.)	British Mus.
28. <i>S. Sellowianum</i> (M.Arg.) Kl. ex. Baill.	Riedel 1781, Lund 775, Burchell 4077, 4801	

O = photo in MBG

29. *S. erythrospermum* (Briseb.) M. Arg. Wright 1673 MBG
30. *S. Leucogynum* Wright ex. Griseb. Wright 2000 MBG
31. *S. haematospermum* M. Arg. Sellow 3559, 2113, 2140 Berlin, Kew
32. *S. tijuicense* (M. Arg.) Huber Riedel 1148 Kew
33. *S. stenophyllum* (M. Arg.) Huber hb. Pavon Geneva
34. *S. longifolium* (M. Arg.) Huber Gardner 2721 Kew, Geneva  
Balansa 1710<sup>a</sup> (G) <sup>but fr.</sup>
35. *S. bolivianum* P. & H. Herzog 677 Geneva, Stockholm
36. *S. biloculare* (Wats.) Pax HBK (as *S. salicifolium*, Morales,  
ad ripas Magdalenae)  
Thurber, bet. Raymon & Ures, Sonora
37. *S. Marginatum* M. Arg.
- (a) *paraguariense* Chod. & Hassl. Hassler 4926, 5016 Kew
- (b) *obovatum* (M. Arg.) Pax Pohl 811 Kew
- (c) *intermedium* (M. Arg.) Pax Pohl 812, ~~811~~ 671 Kew  
Pohl 639 (P) <sup>Galapagos, 2115 (P)</sup>
- (d) *lanceolatum* (M. Arg.) Pax Pohl 1689 Kew!
- (e) *longifolium* (M. Arg.) Pax Regnell I 403 (P) -  
Riedel-Minas Geraes Kew! Glaziou 2217 <sup>Brussel</sup> (Paris!)  
Pohl-Goyas  
2822
- (f) *stenophyllum* (M. Arg.) Riedel Rio San Francisco "  
Stockholm, Kew, Brux.
- (g) *grandifolium* (M. Arg.) Pax Tidgrenn 77; Riedel 84 Kew!
- (h) *conjungens* (M. Arg.) Pax Regnell 403? <sup>US nat!</sup>  
Lindberg 430 Stockholm! Bruss, Uppsala.  
Glaucus 282 (P) <sup>cm</sup>
- (i) *spathulatum* M. Arg. Pohl 1693 - Geneva?, Munich, Kew
38. *S. subsessile* Hemsl. J. Weir 515 - Kew  
Heironymus 817 - Stockholm, Kew
39. *S. triste* (M. Arg.), Huber Gardner 3433 - Kew
40. *S. Bodenbenderi* O, Ktze. Bodenbender 6902
41. *S. linearifolium* Hemsl. Balansa 1709 - Paris, Kew
42. *S. petiolare* (M. Arg.) Huber Glaziou 9587 Geneva  
Regnell 243
43. *S. leptadenium* (M. Arg.) Huber Riedel-Brazil, Mandioca
44. *S. Claussenianum* (M. Arg.) Huber Clausen, Minas Geraes  
Warming, " " 1536, 1537
45. *S. Klotzschianum* (M. Arg.) Huber Salzman 500 Geneva
46. *S. glandulatum* (Vell.) Pax Velloso, Rio de Janeiro

46. <i>S. obtusilobum</i> M.Arg.	Fendler 1230	MBG
47. <i>S. hamatum</i> (M.Arg.) P & H.	Foeppig 1782	
48. <i>S. Prunifolium</i> K. in Hook.	Schomburgk 285 Blanchet 3546	Geneva "
49. <i>S. aucuparium</i> Jacq.	no type cited (H.H.Smith 1916)	
50. <i>S. Moritzianum</i> Kl.	Moritz 236	
51. <i>S. lanceolatum</i> (M.Arg.) Huber	Poiteau-Fr. Guiana Sagot 514	
52. <i>S. longipes</i> (M.Arg.) Huber	Riedel 187B	Geneva
53. <i>S. sublanceolatum</i>	Claussen 114	
54. <i>S. pachystachys</i> K.Schum. et Pittier	Tonduz 11875-Costa Rico.	U.S. Nat. Herb.
55. <i>S. oligoneurum</i> K. Schum. et Pittier	Pittier 13403	
56. <i>S. hippomane</i> G.P.W. Meyer	Schomburgk 8	
57. <i>S. taburu</i> Ule	Ule 5557, 5899; Weberbauer 4759	
58. <i>S. sulciferum</i> Pittier	Tonduz 12428	
59. <i>S. aereum</i> K. ex M. Arg.	Ruiz & Pavon-Peru	
60. <i>S. thelocarpum</i> K. Schum et Pittier	Tonduz 8857, 10112	Boiss. (G)!
61. <i>S. bogotense</i> Huber	Triana 1866, 3567	Geneva
62. <i>S. ciliatum</i> Hemsl.	Spruce, Brazil, Santarem Trail 770	
63. <i>S. sessile</i> Hemsl.	Ruiz & Pavon-Am. Cent.	
64. <i>S. sceleratum</i> Ridley	Ridley <sup>n. 110</sup> <sub>A</sub> Fernando Noronha	
65. <i>S. argutum</i> (M.Arg.) Huber	Martius 2409	
66. <i>S. cuneatum</i> Griseb.	March, Macfadyen, Purdie-Jamaica	
67. <i>S. Harrisii</i> Urban	Harris 10117	
68. <i>S. lateriflorum</i> Hemsl.	Rovirosa 769	
69. <i>S. adenodon</i> Griseb.	Wright 1428	MBG.

Named since 1912

- > *Sapium aucuparium* var. *Moritzianum* Pittier Pittier 4070, 4659, 497.
- *Sapium biglandulosum* var. *nitidem* Monachino Kinloch 540
- > *Sapium biglandulosum* var. *oligoneurum* (K. Sch. & Pitt.) Monachino Stat. Nov.
- > *Sapium biglandulosum* var. *sulciferum* (Pitt.) Monachino Stat. nov.
- > *S. biloculare* var. *amplum* I.M. Johnston Johnston 3772
- > *S. Bourgeaui* Croizat Bourgeau 3020
- > *S. Buchii* Urb. (Comb nov.) *Sebastiania Buchii* Urb. Ekman H1185, H3455, H5605
- > *S. caudatum* Pittier Pittier 3713, 4058, 2603
- S. cicatricosum* P & KH v. Lützelburg 740
- S. cladogyne* Hutchinson Beckett 8628, 8767, 8768;  
Stockdale 8766
- S. contortum* Croizat *Stowelynn Williams 15891*
- S. cremostachyum* I.M. Johnston (Comb nov.)
- S. Cuatrecasasii* Croizat Cuatrecasas 11671
- > *S. cubense* Britton & Wilson Shafer 3607
- S. fragile* P & H. w/o collector, but no. 119 in herb.  
Stockholm.
- S. giganteum* Posada
- > *S. giganteum* Pittier Pittier 4141
- > *S. guaricense* Pittier Pittier 12331
- S. haematospermum* var. *saltense* O'Don. & Lourteig Rodríguez (34) 4-XI-1911
- > *S. haitiense* Urb. Ekman 207, 624
- S. Klotzschianum* var. *Glaziovii* Lanj. Glaziou 11546
- S. leitera* Gleason Krukoff 1656 MBG
- > *S. mastrense* Urb. Ekman 14480
- S. microdentatum* Lanj. Hb. B.W. 1769
- S. montanum* Lanj. Hb. B.W. 5889
- S. myrmecophilum* Croizat Haught 2772

> <i>Sapium naiguatense</i> Pittier	Pittier 18352
> <i>S. nitidum</i> (Monachino) Lundell (Comb. nov.)	
<i>S. paranaense</i> P & KH	Dusen 7489 MBG, Gray
> <i>S. paucistamineum</i> Pittier	Pittier 10750
<i>S. putumayense</i> Croizat	Cuatrecasas 11583
<i>S. Rojasii</i> Leveille ex Rojas	
> <i>S. Schippii</i> Croizat	Schipp 1049 MBG
> <i>S. simile</i> Hemsl.	Ruiz & Pavon-Cent. Amer. Br. Mus.
<i>S. tenellum</i> P & KH	Baer 66
> <i>S. Turckheimianum</i> P & KH	v. Turckheim II 941
<i>S. Warmingii</i> Chod. & Hass.	Warming-Minas Geraes (as <i>Excoecaria</i> )
> <i>S. albomarginatum</i> Pax & K.H.	Pittier 9795

Gray Cards - Sapium

*Sapium angulatum* Klotzsch in Pflanzb., Sched. -

Panama

1. *S. acuminatum* Moritzianum Pittier - Contr. U.S. Nat. Herb. 20: 128, 1918  
Pittier 4070, 4659, 4951, Seaman 1243
2. *S. liglandicum* var. *nitidum* Monachino  
Bull. Soc. Bot. Club. 67: 771, 1940  
Kintoch 340 + Br. Honduras
3. *S. ligland.* var. *oleaceum* (K. Sch. + Pitt.) Monachino (stat. nov.)  
\* Bull. Soc. Bot. Club. 67: 772, 1940 - See Pl. 17, Vol. 12, Cont. US Nat. Herb. 1908
4. *S. ligland.* var. *subuliferum* (Pitt.) Monachino (stat. nov.)  
\* Bull. Soc. Bot. Club., 67: 772, 1940.
5. *S. bilobulare*, var. *amplexum* G.M. Johnston  
Proc. Cal. Acad. Sci. ser. 4, 12: 1077, 1924  
Johnston, G.M. 3772
6. *S. Bourgeaui* Croizat  
Journ. Arn. Arb. 24: 171, 1943  
Bourgeau 3020 - Mexico, Veracruz
7. *S. Buchii* Urb. (Comb. Nov.) Sebastiania Buchii Urb. Haiti  
Arkiv. Bot. 20A, no. 15: 65, 1924  
Ekman H 1185, H 3455, H 5605
8. *S. caudatum* Pittier  
Contr. U.S. Nat. Herb. 20: 127, 1918 - Panama (676760)  
H. Pittier 3713, 4058, 2603. Type in US Nat. (Herbaria 678781, 679149)
9. *S. cicuticosum* Pax + K. Hoffm.  
Pflanzend. 4, Jahrg. 147, XVII: 203, 1924 - Brazil  
v. Luitzelburg 740
10. *S. cladoquyso* Hutchinson  
Kew Bull. 1912: 224, 1912 - Br. Guiana  
Beckett 8625, 5767, 8768; Stoddard 8766
11. *S. contortum* Croizat  
Journ. Arn. Arb. 26: 193, 1945  
Williams 15891 - Amazonas, Puerto Ayacucho
12. *S. cremostachyum* G.M. Johnston (Comb. Nov.)  
Contr. Gray Herb. n.s. 68: 91, 1923
13. *S. Cuatrecasasii* Croizat - Columbia  
Journ. Arn. Arb. 24: 172, 1943  
Cuatrecasas 11671

\* This requires  
the label of S. subuliferum  
+ S. longepetale



- 28. *Sapim naiguatense* Pittier - Venezuela  
 Journ. Wash. Acad. Sci. 19: 355, 1929  
 Pittier 19332
- 29. *S. nitidum* (Memecylon) Sundell. (Comb. Nov.)  
 Am. Midl. Nat. 29: 477. 1943
- 30. *S. paranaense* Pax & K. Hoffm.  
 Pflanzens. 4, Jan 147, xvii: 203, 1924. - Brazil.  
 Dusen 7489-MBG.
- 31. *S. paucitarninum* Pittier  
 Journ. Wash. Acad. Sci. 19: 356, 1929. - Venezuela.  
 Pittier 10750
- 32. *S. putumayense* Croizat  
 Caldasia 2: 131. 1943 - Columbia.  
 Cuatrecasas 11583
- Elvico 33. *S. Rojasii* Seville ex Rojas  
 Bull. Geogr. Bot. 28: 162. 1918 - Argentina
- 34. *S. Schippii* Croizat  
 Am. Midl. Nat. 29: 477. 1943 - Br. Honduras  
 Schipp 1049 MBG.
- 35. *S. simile* Hemsl.  
 Hook. Jc. Pl. 29 (ser. 9): under pl. 2894, 1909 - Am. Cent.  
 Ruiz & Pavon - Cent. Am. - Br. Mus.
- 36. *S. subulatum* var. *virgata* Chod. & Hass. = *Sebastiania subulatum*, var.  
 Bull. Herb. Boiss. ser. 2, 5: 678. 1905 - Paraguay.  
 Hassler 6980 + 6972
- 37. *S. tenellum* Pax & K. Hoffm.  
 Pflanzens. 4, Jan 147, xvii: 202, 1924 - Argentina.  
 Baer 66
- 38. *S. Türckheimianum* Pax & K. Hoffm.  
 Pflanzens. 4, Jan 147, xvii: 61. 1919 - Guatemala  
 v. Türckheim II 941.
- 39. *S. Warmingii* Chod. & Hass.  
 Bull. Herb. Boiss. ser. 2, 5: 677. 1905  
 Hassler 4416  
 See Fl. Braz. II, 2, p. 626 as *Eschweilia warmingii* Mc Arg.  
 Warming - Miss. Herbar.

Kew Ind.

1. *Sapirium curupita* Huber  
Bot. Mus. Para. VI. 207. 1910 (nomen). Amazon Acc 81
2. *S. glandulosum* Druce in  
Rep. Bot. Exch. C. Brit. Isles, 1913, iii. 423 (1914)  
: *Hippomane glandulosa*. Aed. 41-2  
(New comb. - fr. *S. uncinatum* Jacq. to *S. glandulosum* Druce Von Aug)
3. *S. albomarginatum* Pas & K. Hoffm.  
Pflanzenr. Euphorb. - Aed. VII. 203. 1924 - Venezuela  
Pittier 9795

14. *Sapum culicaria* Britton & Wilson  
Mem. Torr. Bot. Club, 66: 77, 1920 - Cuba.  
Shoemaker 3607
15. *S. fragile* Pax & K. Hoffm.  
Pflanzg. 4, Jahrg. 147, XVII: 202, 1924 - Argentina  
w/o collector, but no. 119 in herb. Stockholm
16. *S. giganteum* Posada  
Posada, Estudios Cient. 230, 1909, *Excavaria gigantea* Pas.
17. *S. giganteum* Pittier -  
Contr. U. S. Nat. Herb. 20: 128, 1915 - Panama.  
Pittier 4141 - US Nat. Herb. type no. 679239
19. *S. guaricense* Pittier.  
Journ. Wash. Acad. Sci. 19: 355, 1929 - Venezuela.  
Pittier 12331
20. *S. haematoperum* var. *saltenae* O'Donnell & Sauterig.  
Lilloa, 3: 526, fig. 13, 1943 - Argentina.  
Rodriguez 13412 - XI - 1911
21. *S. haitiense* Urb.  
Arkiv. Bot. 17: no 7: 39. 1921  
Ehman 207, 624
22. *S. Klotzschianum* var. *Glaziovii* Sanj.  
Sanzon, Ephedra of Surinam: 46, fig. 11, 1931 - Brazil.  
Glaziov 11546
23. *Sapum leitera* Gleason  
Bull. Torr. Bot. Club, 60: 364, 1933 - Brazil.  
Kuboff 1656 MBG.
24. *S. maestrense* Urb.  
Fedde, Rep. Spec. Nov. 28: 230, 1930 - Cuba  
Ehman 14480
25. *S. microdentatum* Sanj.  
Sanj., Ephedra of Surinam: 46, fig. 12, 1931  
Hb. B.W. 1769
26. *S. montanum* Sanj.  
loc. cit. 47, pl. 5,  
Hb. B.W. 5589
27. *S. myrmecophilum* Croizat - Columbia  
Journ. Arb. Arb. 24: 172, 1943  
Haught 2772

Material at C.M.

- 13. *Sapium pachystachys* Schum + Pittier. Standley 11875 - Type  
infl. w/ ♂ ♀ + ♂ fls. - Costa Rica.
- 14. *S. pedicellatum* Huber ~~Otze~~ Ortega 7235 - mature fls., Smolera  
doubtful material  
- Ortega 4025 - fls (♀ + ♂) - Smolera
- 15. *S. subiferum* Pittier - Allen 542 - Infl. all ♂ Costa Rica.
- 16. *S. thelescopium* Schum + Pitt. Standley 10060 - fr. nearly mature  
Nicaragua  
- Pittier 3669 hill w/ ♀ + ♂ fls  
Costa Rica  
- Standley 3392 - mature fr. Costa Rica  
- Jimenez 12 " " " "
- 17. *S. curvatum* Hieron. Harris 9817 - immature infl. - Jamaica
- 18. *S. Harrisii* Urban - Harris 10117 infl w/ ♀ fls. Jamaica.
- 19. *S. Jenmanii* Hieron. Broadway 4527 - infl ♂ only Tobago, W.I.
- 20. *S. aereum* Kl - Ruiz - photo of type Peru
- 21. *S. argutum* (H. B. K.) Huber - Martins - photo Brazil
- 22. *Excocarpia biglandulosa* M. Arg. Warming - photo Brazil.  
= *S. aubletianum*
- 23. *S. aucuparium* Jacq. Jenman 7681 - young fr. Br. Guiana  
- H. H. Smith 1916 - infl w/ ♂ fls. Columbia.
- 24. *S. Bodenbenderi* O. Ktze. Bodenbender 6902 - Photo - Argentina
- 25. *S. Bogotense* Huber. Cuatrecasas 9709 - Columbia
- 26. *S. cicutosum* P. & H. Suetzelberg 740A <sup>Photo</sup> Brazil
- 27. *S. contortum* Croizat Williams 15891 - Venezuela
- 28. *S. Cuatrecasasii* Croizat Cuatrecasas 11671 Columbia.

Melanial at Cm.

29. *Sa. curupita* Huber - Photo Brazil.
30. *S. Duckei* Huber Archer 8409 Brazil  
" 8361 "  
Ducke - photo "
31. *S. eglandulosum* Ule 5356 "
32. *S. haematospermum* Martius Phot "
- 33. *Stillingia salpinx* var. *undata* v. *salina*, Fiebzig 99, Paraguay
34. *S. humatum* Poeppig 1752 S. America.
35. *S. sublancoletum* (Mey) Huber - Barreto 9076 Brazil -
36. *S. germanii* Aenel. <sup>Type</sup> german 2091 - St. Helena
37. *S. lotoschiesum* (M. Arg.) Huber - Ule 1562 (fragment) Brazil.
38. *S. lanceolatum* Huber <sup>8176</sup> - Photo Brazil.
39. *S. longipes* Huber Barreto 10010 S. Am.
40. *S. leptadenium* (M. Arg.) Huber Riedel 24576 - Brazil
41. *S. longipes* Riedel <sup>187</sup> - Photo Brazil.
42. *S. marginatum* v. *spathulatum* Aehl 1693 Brazil.  
" v. *lanceolatum* Barreto 8762 "  
" v. *harceyanensis* Hauber 9784 Paraguay.
43. *S. normieri* Huber 11517 Brazil.
44. *S. Martii* Martius Photo "
45. *S. myrmecophilum* Aiz. Haught 2772 Columbia.

Material at CM-

46. *S. Hasslerianum* Huber Hassler 7734 Arq.
47. *S. obtusifolium* Marg. Fendler 1230 Photo Varez.  
 " " " S. Williams 10009 " "  
 " " " " 9999 " "
48. *S. petiolare* (Marg) Huber Blazim 9587 Brazil.  
 " " " Reynell 243 " "
49. *S. prunifolium* Kl. Blanchet 3546 "
50. *S. rhombifolium* Rusby — 1824 "
51. *S. scleratum* Ridley - 110 Photo Ecuador.
52. *S. stylare* M. Arg. Moritz 1775 Varez.  
 (Has synchase as in *Stillingia*!)  
 → 53. *S. subsessile* Hemsl. Hieronymus 817 Argentina
54. *S. Tobum* Ule Ule 357 (Marg) Brazil.  
 " " (Photo) "
55. *S. tigrisana* (Marg) Huber Riedel 1148 (Photo) "

*Stillingia*

1. Prototype of *St. treuliana* at CM.
2. Photo of *St. heterodoxa* Marg. Blanchet 3658 Brazil  
 Good specimen of " " " "
3. Good fragment of *S. selkingoensis* (Marg) Huber O'Leary 915
4. *St. selkingoensis* var. *salicina* Uhl & Huber Hassler 6346.
5. *S.* " ssp. *andena*, var. *salicina* - Friberg 99.

Material at CM.

6. *Stillingia salpingadensis* var *capulifera* Haseler 3394.
7. *S. saxatilis* (Mey.) Sackeb. like *S. dichotoma* - Bonetto 9675.
8. *S. saxatilis* M. Arg. Riedel 1172 (Photo)
9. *Stillingia* (unident.) - Stehlé & Horton 10918 - Pann-  
dichotomously branched shrub, infl. axillary, w/ mature fr. &  
fls. (♀ + ♂). Leaves petiolate (1-3 mm) elliptic,  
1-3 cm long, 0.5-1 cm broad, serrate, tips acute,  
base cuneate.

*Saprim haematodesperum* M. Arg. forma *arborescens* Chodat & Hassler  
in Bull. Herb. Boiss. 2 ser 5, 679, 1965 - Hassler 7242  
Planta Paraguensis - Prope Concepcion, Aug. 1901.  
→ No difference from parent sp.  
Have seen specimen from Paris. Dupl. in MBG.

*Saprim paranaense* Pax & Keffer.  
Type Dusen 7489 - Brazil, Parana, Ypiranga, in silva  
prim. 4.1.1904.  
Dupl. in Gray Herb & MBG.

*Sa. marginatum* - L.D. Williams 5182, 6264 at G.H.  
Macedo 1952 MBG.  
var. *Paraguaienses* Hassler 4426 - P, K; 9784 F, P  
5018 G.H., P  
var. *lancoletum*? Barreto 8762, F

*Sa. longifolium* - Balansa 1710 Brussels,  
Gardner 2721 Kew

*Sa. tijuense* - Riedel 11048 P.

*Sa. paucinerium* Hemsl.

Returned to Gray Herb. 27 Specimens - 6/51

14 left from loan of Jan, 1949.

13 loaned in July, 1950

Returned to Arnold Arb June, 1951

6 Specimens loaned in July, 1950

Ret. to NY <sup>June, 1951</sup> 3 sheets loaned 6/21/50

Ret to Chicago June 1951 28 sheets H. & L.

Received these checked Nov 2, 1950

Ret. 6/51  
these circled

The following specimens of Sapium, from Royal Botanic Gardens, Kew.

1. Sapium longifolium (Muell. Arg.) Huber  
Gardner 2721, Brazil, Piahy
2. Sapium haematospermum Muell. Arg.  
Sellow 2113, 2140, Brazil
3. Sapium tijuense (Muell. Arg.) Huber  
Riedel 1148, Brazil, Rio de Janeiro
4. Sapium marginatum Muell. Arg. var. paraguariense Chodat et Hassler  
Hassler 4926, 5016, 9784, Paraguay
5. S. marginatum, var. obovatum (Muell. Arg.) Pax.  
Pohl 811, 813, Brazil
6. S. marginatum, var. intermedium (Muell. Arg.) Pax  
Pohl 812, Brazil
7. S. marginatum var. lanceolatum Muell. Arg.  
Pohl 1688, Brazil
8. S. marginatum var. longifolium (Muell. Arg.) Pax  
~~xxxxxxx~~  
Pohl x.sn. Brazil, Goyas, S. Luzia de Meliponte
9. S. marginatum var. stenophyllum Muell. Arg. drawing of Riedel 73 red.  
Riedel 2828, Brazil,
10. S. marginatum var. granifolium (Muell. Arg.) Pax  
Widgren 77, Brazil (Rec'd. Widgren sn, collected in Minas Geraes, 1890  
Probably same as no. 77.)
11. S. marginatum var. spathulatum Muell. Arg.  
Pohl 1695, Brazil
12. Sapium subsessile Hemsl.  
Teir 315, Brazil
13. Sapium triste (Muell. Arg.) Huber  
Gardner 3433, Brazil
14. Sapium Rodenbenderi O. Ktze  
Rodenbender 6902, Argentina
15. Sapium linearifolium Hemsl.  
Balansa 1708, Brazil
16. Sapium Moritzianum Kl. Seeman 1243, Panama

The following specimens of Stillingia:

1. Stillingia saxatilis Muell. Arg.  
Riedel 1172, Brazil
2. Stillingia dichotoma Muell. Arg.  
Riedel 185, Brazil
3. Stillingia loranthacea (Muell. Arg.) Pax  
Blanchet 271, Brazil.
4. Stillingia trapezoides Ule  
Wieg 7163, Brazil

Rec'd Pass checked Mar 2, 1950

Specimens of Stillingia from Royal Botanic Gardens, Kew:

5. Stillingia Ulmiana Pax and K. Hoffm.  
Die 7135, Brazil
6. S. salpingadenia ssp. saxatilis v. elliptica Pax & K. Hoffm.  
Fiebrig 99a, Paraguay
7. S. salpingadenia ssp. saxatilis v. grandifolia (Chodat and Hassler) P & K.H.  
Hassler 4784, Paraguay
8. S. salpingadenia ssp. saxatilis v. angustior (Chod. & Hassl.) Pax & K. Hoffm.  
Hassler 4494, Paraguay
9. S. salpingadenia ssp. anadema v. cupulifera (Hemsl.) Pax.  
Hagenbeck s.n., Argentina, Gran Chaco
10. S. salpingadenia ssp. anadema v. salicina Chod. & Hassl.  
Hassler 6346, Paraguay
11. S. oppositifolia Baill.  
Sellow 4985, Brazil.

Plus any other unidentified Stillingia.

(Balansa 1708 = Stillingia refracta ssp.  
scutelliformis)

(A. Asteri sm = Sapum? petiolare?)

From Geneva

The specimens representing the following species of Sarium:

1. Sarium haematospermum Muell. Arg.
2. Sarium tijucense (Muell. Arg.) Huber
3. Sarium stenophyllum (Muell. Arg.) Huber
4. Sarium longifolium (Muell. Arg.) Huber
5. Sarium marginatum Muell. Arg. and all varieties
6. Sarium subsessile Hemsl.
7. Sarium triste (Muell. Arg.) Huber
8. Sarium Bodenbenderi C. Ktze.
9. Sarium linearifolium Hemsl.
10. Sarium Moritzianum Kl.

Plus all representatives of Stillingia from South America.

Rec'd 10/5/50

Herb. Delessert - Collection General

St. Patagonica 1

St. saxatile 1

St. Dusenii  $\frac{1}{3}$

Sa. triste 1

Sa. tijucense 1

Sa. subsessile 2

Sa. Moritzianum 2

Sa. Margin. v. Paraguay 5

" " v. conjugata 1

Sa. Marginatum 8

Sa. longifolium 14

Sa. linearifolium 1

Sa. haematospermum 17

Herb. Boissier

St. indet 1 Sa. indet 8

St. Zelandica 1 Sa. subsessile 1

St. saxatile 1 Sa. stenophyllum 1

" oppositifolia 1 " marginatum 1

" heterodoxa 1 " longifolium 1

" dichotoma 1 " haematospermum 2

6

14

Sub Tot 20

" " 55

52

From Brussels

The specimens representing the following species of Sepium:

1. Sepium longifolium (Muell. Arg.) Huber
2. Sepium haematosporum Muell. Arg.
3. Sepium tijucense (Muell. Arg.) Huber
4. Sepium marginatum Muell. Arg. and all varieties
5. Sepium subsessile Hemsl.
6. Sepium triste (Muell. Arg.) Huber
7. Sepium Bodenbenderi O. Ktze.
8. Sepium linearifolium Hemsl.
9. Sepium Moritzianum Kl.

Plus all representatives of Stillingia from South America

Rec'd the following 10/26/50

~~Sep. longifolium Balansa 1710~~  
~~" " Claes 5~~

~~" marginata Pohl sm~~

~~" " Simberg 430~~

~~" " Reqnell 403~~

~~" " Glasgow 2217~~

~~" " no name (Nov.)~~

~~" " Widgren 77~~

~~" " Clausen 475~~

~~" " no name (October)~~

~~Stillingia zelayensis Pringle 6886~~

~~" dentata Pringle 2504~~

~~" linearifolium Pringle 128~~

~~" sanguinolenta Pringle 2534~~

Total 14

From Stockholm

The specimens representing the following species of Sapium:

1. Sapium longifolium (Muell. Arg.) Huber
  2. Sapium haematospermum Muell. Arg.
  3. Sapium tijucense (Muell. Arg.) Huber
  4. Sapium marginatum Muell. Arg. and all varieties
  5. Sapium subsessile Hemsl.
  6. Sapium triste (Muell. Arg.) Huber
  7. Sapium Bodenbenderi O. Kuntze
  8. Sapium linearifolium Hemsl.
  9. Sapium bolivianum Pax & K. Hoffm.
- Plus all representatives of Stillingia from South America.

The Director  
Naturhistoriska Riksmuseet  
Botaniska Avdelningen  
Stockholm 50,  
Sweden

Rec'd 9/30/50 the following-

<u>Sapium bolivianum</u>	1 sheet
" <u>haematospermum</u>	10 sheets
" <u>longifolium</u>	1 sheet
" <u>marginatum</u>	17 sheets
" ssp.	13 sheets

Stillingia - 14 "

56

+

types of <u>St. Huserii</u>	2 sheets
" <u>dichotomum</u>	1 sheet

3

total 59

From Paris

The specimens representing the following species of Sapium:

1. Sapium longifolium (Muell. Arg.) Huber
2. Sapium haematospermum M. Arg.
3. Sapium tijucense (Muell. Arg.) Huber
4. Sapium stenophyllum (Muell. Arg.) Huber
5. Sapium bolivianum Pax & K. Hoffm.
6. Sapium marginatum Muell. Arg. and all varieties
7. Sapium subsessile Hemsl.
8. Sapium triste (Muell. Arg.) Huber
9. Sapium Bodenbenderi G. Etze.
10. Sapium linearifolium Hemsl.
11. Sapium Moritzianum Kl.

Recd 9/30/50 the following

<i>Sapium longifolium</i>	3 ✓
" <i>haematospermum</i>	1 ✓
" <i>tijucense</i>	1 ✓
" <i>marginatum</i> + vars.	10 ✓
" <i>subsessile</i>	1 ✓
total	<hr/> 16

From the British Museum

All unidentified Stillingias from South America

From Berlin

The representatives of the following species of Sapium:

1. Sapium haenatospermum Muell. Arg.
2. Sapium tijucense (Muell. Arg.) Huber
3. Sapium stenophyllum (Muell. Arg.) Huber
4. Sapium longifolium (Muell. Arg.) Huber
5. Sapium bolivianum Pax & K. Hoffm.
6. Sapium marginatum Muell. Arg., and all varieties
7. Sapium subsessile Hemsl.
8. Sapium triste (Muell. Arg.) Huber
9. Sapium Bodenbenderi O. Ktze
10. Sapium linearifolium Hemsl.
11. Sapium Moritzianum Kl.

Plus all representative specimens of Stillingia from South America.

9/8/50

Dr. Pilger:

I am in the process of making a revision of the genus Stillingia and find myself hampered by the lack of certain types which Pax and K. Hoffmann used in their work for the Pflanzenreich. If the types ~~exist~~ specimens of this genus are still available, I should be very pleased to see them. The species of South America, ~~particularly~~ are the ones which I need, and particularly, the following:

- S. trapezoidea Ule, Ule 7160 - ~~Southern~~ ~~Brazil~~ Südbrasilianische Provinz: Brasilien, Piahy, Catinga der Serra Branca.
- S. Uleana Pax et K. Hoffm., Ule 7135 - Südbrasilianische Provinz: Bahia, Sincora, Serra da Vendinha, 800 m.
- S. Dusenii Pax et K. Hoffm., Dusen 10440, Brazil, ~~Pazana~~: Jaquariahyva

If other ~~material~~ specimens of South American Stillingia are available, I should also like to see them.

I should also like to know what arrangements are necessary for you to make such a loan. If necessary, I can send sufficient funds to pay for the shipment, and will, of course, pay for the return shipment. If there is a shortage of shipping materials, I could provide ~~that~~ with no trouble.  
these

Herr Prof. Dr. R. Pilger

Botanischer Garten und Museum

Königin-Luise-Strasse 6-8

Berlin-Dahlem

Germany

Herausgabe - editing, edition, bringing out, publication

Auflage - edition

leicht - light, easy, readily

gefallen - fallen, degraded

Ehrfurcht - respect, awe

wissenschaftlichen - scientific

Gedankenbau - thought

verbot - forbade, would not allow

Eingriffe - interference, action, treatment, connection

Grundbau - foundation

Verpflichtung - obligation, duty, responsibility

gebot - offered, bid

stärkere ? - strong, powerful, heavy, large, hard

Umgestaltung - transformation, reform, adaptation

Möge - may, like to

schwierige - difficult, hard, fastidious

Gesichtspunkten - aspect, viewpoint

Erfolge - result, success, effect

geführt - channelled.

Bemühen - to trouble, pains, effort

enttäuschen - to disappoint, undecore, disillusion

gewinnen - to obtain, win, gain, earn, reclaim, produce

Andenken - remembrance, memory

Inhalt - contents, area, capacity, index

schlechter - bad, poor

zuzusehen - to see

genessen - to enjoy, take

Alex Curt Brade  
Chefe do Laboratório Botânico Interstitual  
Rua Jardim Botânico, 1008  
Rio de Janeiro

Dear-----

Dr. R. E. Woodson, curator of this herbarium, has given me permission to request the loan of all the material in your herbarium representing the genus Stillingia, of the Euphorbiaceae. My efforts to revise the genus Stillingia are greatly hampered by the lack of sufficient specimens of this genus which grow in Brazil, and before a competent study can be made, it is of the highest importance that I have before me as many specimens as possible.

I am sure that you understand the necessity of good material in this very difficult group. Therefore, I shall be very pleased to receive, as an official loan to ~~the herbarium~~, Dr. Robert E. Woodson, Jr., Curator of the Herbarium, Missouri Botanical Garden, St. Louis, Missouri, all the material of the genus Stillingia which you have in your herbarium.

From Rio de Janeiro

All representatives of South American Stillingias

From Peru

Dr. Ferreyros  
Museo de Historia Natural  
Avenida Arenales  
Lima, Peru

All specimens of South American Stillingias

Prof. Dr. W. Robyns  
Jardin Botanique de l'Etat  
236, Rue Royale  
Bruxelles, Belgium

From Copenhagen

All representatives of Stillingia from South America, particularly Stillingia oppositifolia Baill. (Sarius oppositifolium Kl.) Warming, Minas Geraes, Lagoa Santa.

Recd 10/2/50 the following:

- ~~2. St. zelayensis (1 = St. microspema)~~
- ~~4 Sebastiania fruticosa (Rostk.) Fern.~~
- ~~1. Unident - not St. - Triplaris~~
- 2. St. dichotoma
- 2. " oppositifolia
- 1. St. salpingadenia - Jorgensen 3985

12 Total

+ plate

13

Ret. June, 1951

Dr. O. Hagerup  
Botanisch Museum  
Nobelsgade  
Copenhagen, Denmark

Present Name	Name in Stillingia	Collector & No.	Country
<i>Sapium aucuparium</i>	<i>S. aucuparia</i> M. Arg.	Vargas, s.n. Bertero, s.n.,	Venezuela ", Sta. Martha
<i>Sebastiania bahiensis</i> M. Arg.	<i>S. bahiensis</i> Baill.	Blanchet 15, 2118	Brazil,
	"	Riedel 317	B Bahia
<i>Sebastiania vergata</i> (Mart.) Pax	<i>S. bidentata</i> Baill.	Sello s.n.	Brazil
<del><i>Sapium biglandulosa</i></del>			
<i>Sapium aucuparium</i>	<i>S. biglandulosa</i> Baill.	Spruce 2198, Blanchet 2689, 3546	Brazil "
<i>Maprounea brasiliensis</i>	<i>S. brasiliensis</i> Baill.	Lund s.n. Pohl 1685	Brazil
<i>Sebastiania brevifolia</i>	<i>S. brevifolia</i> Baill.	Blanchet 2785	Brazil
<i>Sebastiania corniculata</i>	<i>S. caepestis</i>	Martius 907 Claussen 470	Brazil
<i>Gymnanthes marginata</i> or <i>Sebastiania Klotzschiana</i> M. Arg.	<i>S. Commersoniana</i> Baill.	Commerson Sellow Gaudichaud 974	Argentina Brazil "
<i>Actinostemum concolor</i> , var. <i>genuinus</i> M. Arg.	<i>S. concolor</i> Baill.	Sellow Riedell	Brazil "
<i>Sebastiania marginata</i>	<i>S. coriacea</i> Baill.	Martius, Weddell St. Hilaire	Brazil
<i>Sebastiania corniculata</i>	<i>S. corniculata</i> Baill.	Vahl, Poiteau Perrotet, Cayenne 603	Brazil
<i>Sapium cremostachyum</i> (Baill) I.M. Johnston	<i>S. cremostachya</i> Baill	St. Hilaire 219	Brazil
<i>Sebastiania corniculata</i> var. <i>angustifolia</i> M. Arg.	<i>S. crotonoides</i> Baill.	Martius, Sello	
<i>Bonania cubana</i> A. Rich.	<i>S. cubana</i> Baill.	Wright 1897 Combs 603	W. Indies
<i>Sebastiania daphniphylla</i>	<i>S. daphniphylla</i> Baill.	St. Hilaire 312	Brazil
<i>Sebastiania brasiliensis</i> , var. <i>genuina</i> M. Arg.	<i>S. desertorum</i> Kl.	Sello 263	Brazil
<i>Sebastiania discolor</i> var. <i>genuina</i> M. Arg.	<i>S. discolor</i> M. Arg.	Riedel 1048 Sello 456	

<i>Sapium aucuparium</i>	<i>S. dracunculoides</i> Baill.	St. Hilaire 972	Brazil
<i>Grimmesodendron eglandulosum</i> Urb.	<i>S. eglandulosa</i> A. Rich.	Eggers 4227 Curtis 190 Wright 2006	Bahamas " Cuba
<i>Sebastiania Gaudichaudii</i> M.Arg.	<i>S. Gaudichaudii</i> Baill.	Sello s.n. Burchell 792	Brazil
<i>Sebastiania multiramea</i> var. <i>glabrata</i> Pax	<i>S. glabrata</i> Baill.	Martius 538 Burchell 1239, Glaziou 2696	
<i>Adenopeltis Colliguaga</i> Bert.	<i>S. glandulosa</i> Domb.	Gey, Meyen, Ruiz Poeppig	<u>Chile</u>
<i>Maprounea guyanensis</i> Aubl.	<i>S. guyanensis</i> Baill.	Spruce 1475, 2271 Sagot 519 Schombergk 638, 1059	Brazil Fr. Guiana Br. "
<i>Sebastiania ditassoides</i>	<i>S. hastata</i> Baill.	Sello, St. Hilaire 658 Gaudichaud 239	Brazil
<i>Maprounea brasiliensis</i> St. Hil.	<i>S. Hilariana</i> Baill.	St. Hilaire 1651, 479 Gardner 1836	Brazil
<del><i>Sapium aucuparium</i></del>			
<i>Sapium hippomane</i> GFW.Mey.	<i>S. Hippomane</i> Baill.	Miquel Hostmann 314 Claussen 783	Brazil Surinam Brazil
<i>Gymnanthes hypoleuca</i> Benth.	<i>S. hypoleuca</i> Baill.	Spruce 2806, 3780	Brazil
<i>Sebastiania jacobinensis</i> M.Arg.	<i>S. jacobinensis</i> Baill.	Blanchet 3428	Brazil
<i>Sebastiania laureola</i> M.Arg.	<i>S. laureola</i> Baill.	St. Hilaire 100	Brazil
<i>Sapium jamaicensis</i> Swartz	<i>S. laurifolia</i> A.Rich.	Macfadyen Alexander 825 Harris 9165	Jamaica " "
<i>Sapium laurocerasus</i> Desf.	<i>S. laurocerasus</i> Baill.	Bertero Eggers 977, 1213 Sintenis 1659	Fuerto Rí Rico "
<i>Sebastiania multiramea</i> M.Arg.	<i>S. luschnathiana</i> Baill.	Luschnath 48 Salzman 483	Brazil
<i>Sapium marginatum</i> var. <i>lancoelatum</i> M. Arg.	<i>S. marginata</i> Baill.	Riedel Claussen (1839)	Brazil "
<i>Sebastiania multiramea</i> var. <i>genuina</i> M. Arg.	<i>S. multiramea</i> Baill.	Casaretto 1440 Widgren 124, 402 Sello 1162	

<i>Sebastiania myrtilloides</i> (Mart) Pax	<i>S. myrtilloides</i> Baill.	Martius Pohl, St. Hilaire	Brazil
<i>Sebastiania nervosa</i> M. Arg.	<i>S. nervosa</i> Baill.	St. Hilaire 594 Gaudichaud 1148	
<i>Sepium obovatum</i>	<i>S. obovata</i> Baill.	Riedel 640, 2629	
<i>Sebastiania pachystachys</i> M.Arg.	<i>S. pachystachys</i> M.Arg.	Sellow 3354 St. Hilaire 604	
<i>Sebastiania corniculata</i>	<i>S. patula</i> Baill.	Martius 427	
<i>Sebastiania Schottiana</i> var. <i>phyllanthiformis</i> Pax & Hoffm.	<i>S. phyllanthiformis</i> Baill.	Bonpland 5076 Glaziou 22099	
<i>Sebastiania corniculata</i>	<i>S. prostrata</i> Baill.	Martius 907	
<i>Sebastiania pteroclada</i> M.Arg.	<i>S. pteroclada</i> Baill.	Gaudichaud 1150 Glaziou 11548	
<i>Sebastiania brasiliensis</i> Spreng.	<i>S. ramosissima</i> Baill.	St. Hilaire 2559	
<i>Sebastiania rigida</i> M. Arg.	<i>S. rigida</i> Baill.	Weddell	
<i>Sebastiania glandulosa</i> var. <i>Sellowiana</i> f. <i>genuina</i> Pax.	<i>S. Sellowiana</i> Baill. <del>Sell</del>	Sellow 153 Glaziou 19840a	
<i>Sebastiania serrata</i>	<i>S. serrata</i> Baill.	Gaudichaud 1661, 1682	
<i>Sebastiania serrulata</i>	<i>S. serrulata</i> Baill.	Riedel Lund Warming	
<i>Sebastiania stipulacea</i>	<i>S. stipulacea</i> Baill.	St. Hilaire 2556 Gaudichaud 1697	
<i>Sebastiania trinerva</i>	<i>S. trinervia</i>	Blanchet 3657	
<i>Sebastiania corniculata</i> var. <i>obtusifolia</i> f. <i>velutina</i> M.Arg.	<i>S. velutina</i> Baill.	Sellow 2071, 2109	
<i>Sebastiania Weddelliana</i> M.Arg.	<i>S. Weddelliana</i> Baill.	Weddell 3514	
<i>Sebastiania Widgreni</i> M. Arg.	<i>S. Widgreni</i> Baill.	Widgren	
<i>Sebastiania ypanemensis</i> M.Arg.	<i>S. ypanemensis</i> Baill.	Sellow 2096, 2128	

Prof. B. Rambo SJ  
Herbarium Anchieta  
Colégio Anchieta  
Porta Alegre  
Baia, Brasil

9/9/50

Dear Prof. Rambo:

I am in the process of making a revision of the genus Stillingia of the family Euphorbiaceae, and have found your name on ~~an~~ several herbarium specimens which I borrowed from the herbarium of the Instituto Miguel Lillo. I should like to thank you for the care in which you have preserved these specimens but would like to have some additional information concerning these specimens. The specimens to which I refer are as follows: Number 2278, S. Fra de Paula, 14.1.1937; 32958, Montenegro, S. Salvador, in silva, 17.10.1945; ~~34775~~, Rio Grande do Sul, Bom Jesus, Fazenda Bernardo Velho, 5.1.1947. These specimens are referable to S. oppositifolia Muell. Arg., but data concerning the height of the plant, the character of the fruit and seed, ~~that~~ habitat, general color of leaves, flowers and fruits, etc, are not available to me.

If you have any other material of the genus Stillingia, or other genera of the family Euphorbiaceae, for example, Sapium, Sebastiania, Mabea, Maprounea, which you would care to exchange for North American specimens, I should ~~like~~ be very happy to do so.

I will be most grateful to receive the data concerning the above questions, and to know if you are willing to exchange.

YVT

*Stillingia sanguinolenta* - ssp. *Mexicana*

Stems mit fascicled, branching opposite

On loan from Chicago Natural History Museum

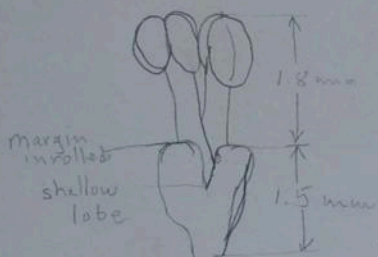
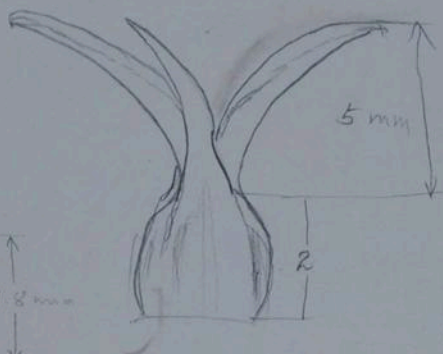
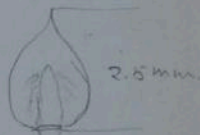
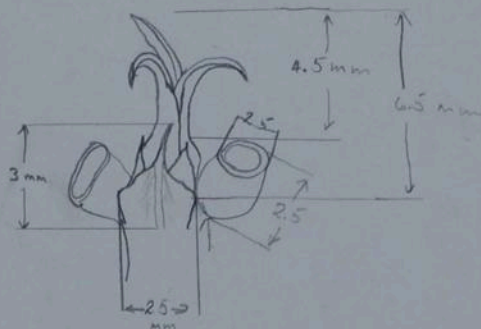
Recd. 9/20/50

1. *Sapium subsessile* Hieronymus 617
2. *Stilb. salping. ssp. anadena* v. K. Piebrig, 99
3. *St. patagonica* Donat 156
4. *St. salpinga* (photo) D'Orbigny 918
5. *St. hetero.* (photo) Blanchet 3658
6. " " Blanchet 3658
7. *St. trapezocidea* (photo) Ule 7160
8. *St. Uleana* (photo) Ule 7155
9. *Sapium Bodenbenderi* (photo) Bodenbender 5520
10. *St. salpingad.* Jorgensen 8985
11. *St. salpingad.* Hassler 4360
12. " " Hassler 6546
13. " " Hassler 3394
14. *Sa. marginatum* Rojas 9784
15. *St. saxatilis* (photo) Riedel 1172
16. *St. patagonica* Castellanos 117865
17. *St. loranthacea* (photo) Blanchet 271
18. *Sa. tijucense* (photo) Riedel 1148
19. *Sa. marginat.* Hassler 9784
20. *St. acutifolia* Hartweg 614
21. *St. salpingad.* D'Orbigny 918
22. *Sa. marginatum* Pohl 1695
23. *Sa. tijucense* Barreto 2616
24. *Sa. saxatilis* Barreto 9675
25. *St. saxatilis* Barreto 9675
26. *St. dichotoma* Riedel sin.
27. *Sa. marginatum* Barreto 3762

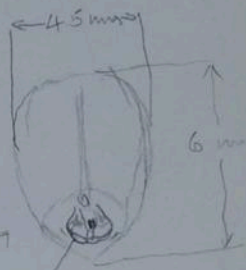
28. *St. salpingad.* var. *Brunniana* Macho, Sp. Pl. Hartweg 10918

*St. salpingadenia*  
Hassler 6346

7 ♂ fl./capsule



seed from  
Fiebrig 99  
(C. Mapeemum)

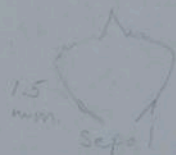


caruncle small, not covering  
lower part of seed

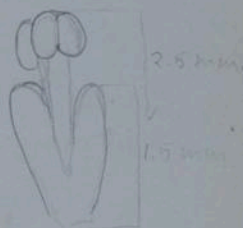


teilhaft - feasible, practical possible.  
vollständig - complete, entire, integral, total.  
Hervorhebung - emphasize, display  
irgendwie - anyhow, somehow  
wichtiger - important, mighty  
<sup>simple</sup> Einzelformen  
reichliche - abundant, copious  
Beigabe - addition, supplement  
Zweiterwähnte -  
Zweck - goal, object, end  
entsprechende - corresponding, suitable, adequate  
Anordnung - arrangement, order, regulation  
Stoffes - substance, matter, subject, theme  
entwicklungs-geschichtlich - ontogenetic, embryological.  
Zusammenfassende - to grasp, seize comprehending  
angestrebt -  
Inhalt - content (s), area, volume, capacity, subject, Index.  
Linie - line, lineage, descent, ancestry  
bestimmt - determined, definite, fixed, specific.  
eingehendere - thoroughly, exhaustively.  
Orientierung - orientation, survey  
Gebiete - region, domain, sphere, field, branches  
Fachbotaniker -  
manche -  
Anregung - stimulation, impulse, suggestion, progress  
Rücksicht - regard, respect, motive.  
Räte - council, advice, suggestion

*St. salpingoides* ssp. *saratileis*  
Prerett 5384



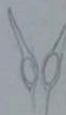
3-6 fls. per bract



seed from  
Swartz 2518



caruncle  
covering  
lower part of seed



Height (meters)	Leaf shape	cm L x W. Lf dimension	Tip
0.3-0.5	broadly elliptic	4.5 x 1.4	acute w/callose, acumination
.4	br-narrow elliptic	3.4 x 1.3	"
-	br-narrow elliptic	3.4 x 1.7	acute-acuminate
.39	broadly obovate to elliptic	3.5 x 2.1	rounded, w/cuspidate tip
.35	elliptic	3.9 x 1.2	acute
.7	narrow-elliptic	6.1 x 1.6	acute, cuspidate
.35	ovate	4 x 2.5	acute
0.5	elliptic	4.8 x 1.1	acute cuspidate
.45	elliptic	7.7 x 2.6	" "
.25	"	5.8 x 1.3	" "

Petiole cm.	Inflores.
.7	8.5
.4	11.3
.3	11.8
.1	5.5
	4.0
	2.8
	6.7
	8.8
	0.6
	11.0

54E

campo alturas - Dept. Pirichelung, Colonia Pedro P. Caballero  
Paraguay Frutex 0,500, 60 cent. ? 22 Feb.

campo montano Sr. Chalala, in valle fluminis Yoca  
Suffrutex 0.3-0.5 m. Dec.

— Dept. Candelaria, Misiones, Argentina  
Santa Ana  
Suffrutex 0.50 m - 12 Dec.

— Dept. San Ignacio, Misiones, Argent.,  
maria Antonia  
Suffrutex 0.35 m 2 Apr. (not fl)

— Dept. San Ignacio, Misiones, Argent.,  
El Hestiaro  
Suffr. 0.70 m - 4 Oct - fl.

— San Ignacio, Mis., Job. Roca  
Suffr. 0.35 m. 18 No. fl.

— San Gu. Mis., Santa Maria  
Suffr. 0.3 m. 16 Apr. - Fr. (pressed)

— Dept. Cairique, Misiones, Camps Grande

Zeit - time

die letzte - the latter

Leitwort - preface

Verlag - publication, publishing house, funds

Mühe - pains, trouble, effort, exertion, care

gescheit (Geschick) - shrewd, sensible, judicious, wise

muster-gültig - model, ideal, standard

Ausstattung - equipment, fittings

Zahl - number, cipher

Anzahl - number, quantity

vermehrt - to increase, augment, enlarge, multiply

brauchbar - serviceable, useful

Bilder - illustration

ersetzt - to replace, substitute, displace, compensate

Bedürfnis - lack, want, need, requirement, necessity

Verlagshaus - publishing house

Schönalter - age, period of life

seltenem - ? rare, scarce, unusual

Einnehmen - ? understanding, agreement

Vertrauen - trust, confidence

gearbeitet

Entgegenkommen - to come to meet; cooperation, obliging-  
ness

Liebling<sup>sohn</sup> - favorite male

betreut - to take care of, attend to

vergangene - gone, past

vertrauensvolle - trust, confidence  
cooperation

Passada, Misima

29 km. fl.

in regione fluminis Sapiraguay, Paraguay, Sierra de Maracaya

" " vicine Igatimi, Paraguay  
October

" " " " " " " " in campo-

Suffrutex 0.3-0.4 - December

in regione fluminis Capibary, Sierra de Maracaya  
Sept.

in campo pr. Conientes, " " "

Sept. Suff. 0.3

ziehen - to draw, pull, drag, tug, extract.

Berücksichtigung - regard, consideration

Haushalte - economist, steward

Rechnung - calculation, account, computation

getragen -

bezug - covering, reference, relation

soweit - as far (as)

wissenschaftlichen - ~~knowledge~~, scientific

Anschauungen - observation, perception, contemplation

vereinigen - to unite, combine, join, collect

liess - (lassen) - left, had

Sammelwerke - united (collected) work

anlehnte - to lean against, rest, find support.

trotzdem - nevertheless, although, even though

alsbald - immediately

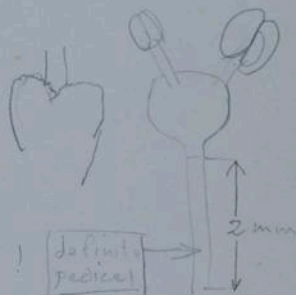
bemerkten - to note, mark, remark, notice

unliegenden - to lie before, be in hand,

keineswegs - by no means.

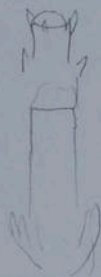
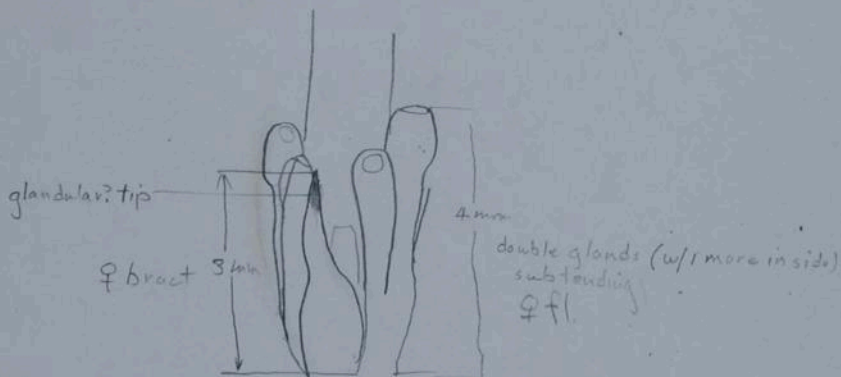
S. Dusenit  
Dusen 13179

10-12 ♂ & ♀ Isocymula



Rancho 2087

*S. oppositifolia*



Porto Alegre, September 19, 1950.

David J. Rogers  
Missouri Botanical Garden  
St. Louis 10, Missouri

Dear Sir,

Your kind letter of September 9 reached me yesterday. I am very glad to know that my specimens of *Stillingia* forwarded to you by Miguel Lillo have been useful to you; in order to aid you in your work, I give you some notes on the species requested.

*Stillingia oppositifolia* Baill. - This well characterised species ~~species~~ is in my herbarium under the following numbers:

2278	Brasilia, RGS, S. Salvador prope Montenegro, in araucarieto, 14.1.3	"	10.2.1941
4818	" " Passo do Inferno p. S. Frsco de Paula,	"	10.2.1941
4824	" " "	"	10.11.1940
6575	" Nova Petropolis p. Cai	"	3.3.1945
28353	" Nonoai ad fl. Uruguay superius	"	2.1945
28809	" Caracol p. Canela	"	17.10.1945
32938	" S. Salvador p. Montenegro	"	5.1.1947
34775	" Fazenda Bern. Velho p. Bom Jesus	"	28.8.1949
43136	" Vila Oliva p. Caxias	"	11.9.1949
43428	" S. Salvador p. Montenegro	"	18.12.1949
44828	" S. Francisco de Paula	"	26.12.1949
44985	" Gramado p. Canela	"	13.3.1950
46236	" S. Frsco de Paula	"	

As you see from this enumeration, *Stillingia* in RGS belongs to the Araucaria region in the northeastern highlands between 600 and 1000 meters above sea level, with 1750 to 2500 mm middle rainfall and 15-17° C middle temperature (occasional snowfall and -5° C during winter). - S. Salvador, Passo do Inferno, Nova Petropolis, Vila Oliva, Gramado, Caracol, S. Frsco de Paula are sited on the southern border of the highlands, 100-180 km N and NE of P. Alegre; Fazenda Bern. Velho is sited in the northeastern corner of RGS, about 300 km from P. Alegre; Nonoai is to be found near the Uruguay river about 600 km NW from P. Alegre. - I never found this species in the center and the south of RGS.

*Stillingia* is one of the most common species in the Araucaria woods in society with *Berberis laurina* Billb., *Drimys Winteri* Forst., *Mimosa scabrella* Benth., *Casearia decandra* Jacq., *Myrceugenia euosma* (Berg) Legrand and a dozen of other Myrtaceae.

It is a brush or little tree between 1 and 5 meters high. The leaves are yellowish-green; their general shape is always the same as you see in the specimens at your hands; their size varies from 8x4 to 3x1 cm; the petiole is between 3 and 12 mm. All specimens in my herbarium are flowering. Unfortunately there is but one collection with fruits; I send you a specimen not to be returned. The colour of the living inflorescence is yellowish-green like that of the leaves.

*Maprounea brasiliensis* StHil. - I know this species only from the pictures in *Flora brasiliensis* and *Pflanzenreich*, but I never collected something like this. Sellow 2139 has been collected between

Cagapava and Pelotas ("S. Francisco de Paula" on Sellow's labels is an ancient name for the modern Pelotas, a city of about 50.000 inhabitants in the southeastern part of RGS, and not to be confounded with the modern S.F. de Paula in the northeastern highlands!). Herter in his *Florula uruguayensis* cites this species as ? for Uruguay, but in his *Additamenta* deleted it again. As the classic region of *Maprounea* is not well known to me, further collection probably will discover this species.

*Sebastiania*. - This is a very well known genus; there are in my herbarium the following species: *Klotzschiana* MA, more than 30 collections, especially from the surroundings of P. Alegre; *brasiliensis* Spr., about 30 collections from P. Alegre, the subtropical woods and the *Araucaria* region; *Schottiana* MA, a common brush along the rivers in RGS; *hispida* (Mart.) Pax, common near the northern seashore and on the northwestern campos. - I do not know *hippochaerifolia* (Gris.) Pax, *pachystachys* MA, *serrata* MA and *serrulata* (Mart.) MA; but I suspect, that most of them are "herbarium" species identical with the above cited, especially *Schottiana* and *brasiliensis*. I send you, not to be returned, some samples of these species; if this sending arrives well and you wish it, I am disposed to loan you the whole material.

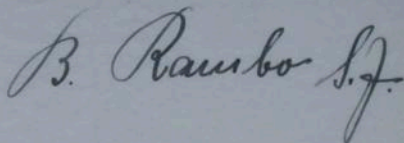
*Sapium*. - This is a terrible genus. I have in my collection about 6 "species" classified by myself as follows: *Mülleri* Hemsley, *longifolium* (MA) Huber, *haematospermum* MA, *petiolare* (MA) Huber, *montevidense* Klotzsch, *Klotzschianum* (MA) Huber. The determinations were made with the descriptions of *Flora Brasiliensis*, *Pflanzenreich* and Huber's *Revue critique*; but they are all more than dubious. In my opinion Huber's key (size and shape of the leaves, length of the petioles) is of little value. There are surely two or three different species in RGS, but how to name them? - I send you some samples of the common species in the surroundings of P. Alegre belonging, as I believe, to *S. Klotzschianum* (MA) Huber. It will be necessary to have before eyes some hundred of collections to venture a judgment on this genus in southern Brazil.

I do not wish a monetary arrangement for this or future sendings. If you desire desire to borrow my specimens, they will be at your disposition. If you have some botanical literature concerning my region, original or bibliofilms, photographs of types etc., I should be most happy to receive them. In any case, determination of my material will be the best payment.

I am a catholic priest and member of the Jesuit order, teacher at the *Colegio* (something like your high-schools) and at the University of RGS. My herbarium contains some 50.000 specimens of RGS, collected by myself these last 19 years. Please excuse my English; my native language is German.

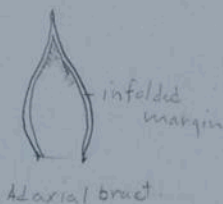
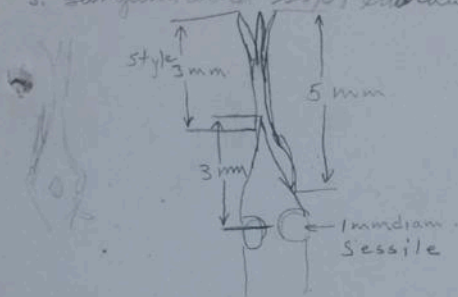
Sincerely yours

B. Rambo SJ  
Caixa Postal # 358  
Porto Alegre  
Rio Grande do Sul, Brasil



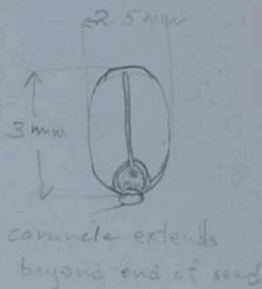
*S. Equisetata* sub *Peruviana*

Infl. 2.7 cm. long.



Sepals of ♀ fl. very small - < 1mm. long

5-6 ♂ fls. per cymule



st. boden benderi

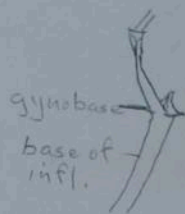
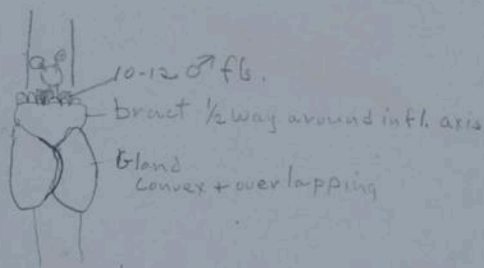
Boden bender 6902

5-7 ♂ fls/symula



*St. dichotoma*  
Rizdel 185

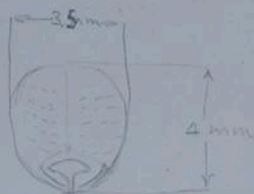
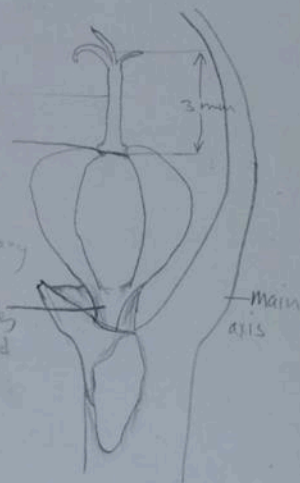
infl. axis zig-zag



style very slender

abscission  
layer of style  
at its base,  
just at point of  
insertion on ovary

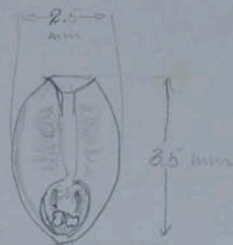
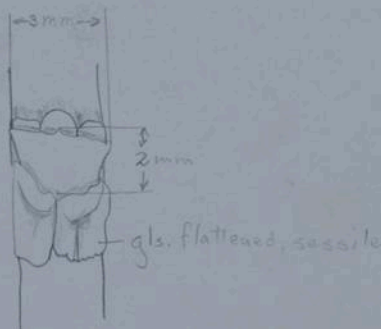
ovary pedicellate,  
exserted beyond  
bract + sepals



*S. saxatile*  
Barro Colorado

Fruit deeply 3 lobed?

5-7 ♂ fls/cyme



in a cyme  
split along one side

Macedo 2001  
Sapium sp.



axial x10



abaxial x10



*Sapium* sp. (*Maranichium* v. *spathulata* M. DC?)

Macedo 1952

slide of pollen

A-5 ♂ fls/young



♂ fl  
not fully opened



3 sepals  
united into  
a definite  
calyx at  
the base

4 mm

calyx  
3mm  
from top  
to base

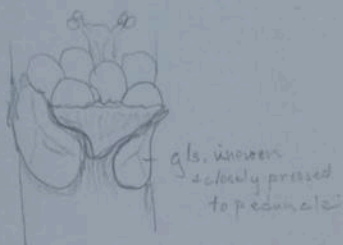
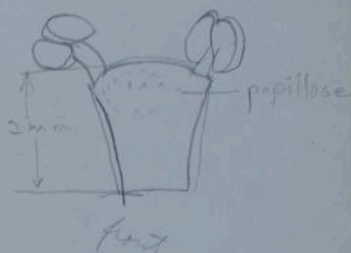
A hand-drawn sketch of a female flower with a large, inflated calyx. A vertical double-headed arrow to the left of the calyx indicates a height of 4 mm. A line points from the text '3 sepals united into a definite calyx at the base' to the top of the calyx. Another line points from the text 'calyx 3mm from top to base' to the lower part of the calyx.

gls. large +  
adhering to  
peduncle

♀ fls. closely  
set on axis

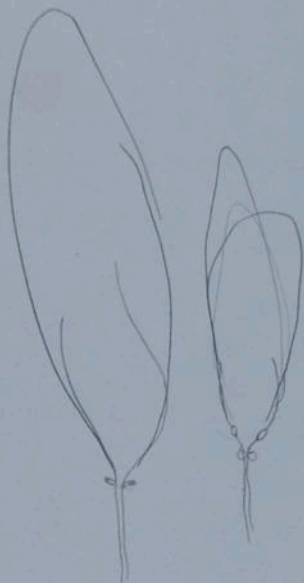
*Sa. haematodesmum*

Haasler 7243 (MBG)



ca. 10 ♂ fls/cymula





*Sapium marginatum* v. *sphaulatum*

Pohl 1693



Ovary + style + stigma  
3.5 mm long

Calyx 3 lobed, the  
length from tip of lobe  
to base = 2.5 mm.

Gland 3 mm long.  
Essentially elliptic

Staminate cyrus essentially similar to ♀

8-10 ♂ flo/segment, calyx greatly imbricate

Leaves <sup>alt.</sup> narrowly elliptic to slightly spatulate, w/ 2 basal  
glands - acute to rounded, base narrowly acute  
(tip frequently cuneolate) 5-9 cm long - 1.5-2 cm

w/ frequent  
irregularly spaced  
glands toward  
the tip.

mid margin finely serrulate to crenulate, slightly ciliate,  
slightly revolute, midrib + 2nd vein prominent on both  
surfaces, shining above + smooth, dull below + finely  
punctate. Petioles the petioles 0.5-1.0 cm long.

Inflouescence ca 8-10 cm long, sessile or shortly  
pedunculate below lowest cyrus.