

ASPASIA Lindl., Gen. & Sp. Orch. Pl. 139. 1833.

A small genus of some ten species distributed from Guatemala to Brazil.

1: 6. 1834.

ASPASIA EPIDENDROIDES Lindl. in Hook., Journ. Bot.

*Aspasia fragrans* Kl., Ind. Sem. Hort. Berol. 12. 1852.

*Odontoglossum aspasia* Reichb. f. in Walp. Ann. 6: 851. 1861.

Guatemala, Nicaragua, Costa Rica and Panama.

ASPASIA EPIDENDROIDES var. PRINCIPISSA (Reichb. f.)

P. H. Allen. in Ann. Mo. Bot. Gard. 36: 165. 1949.

*Aspasia principissa* Reichb. f. in Bot. Zeit. 10: 627. 1852.

*Odontoglossum principissa* Reichb. f. in Walp. Ann. 6: 852. 1861.

Nicaragua and Panama.

ASPASIA PAPILIONACEA Reichb. f. in Gard. Chron. 2:

100. 1876.

Costa Rica.

ASPASIA PUSILLA C. Schweinf. in Bot. Mus. Leafl.

Harv. Univ. 10. 21, t. 1941.

Costa Rica and Panama.

BRASSIA R. Br. in Aiton, Hort. Kew. 2, 5: 215. 1813.

A small genus of plants with attractive flowers, usually to be distinguished by the elongated sepals.

BRASSIA ALLENII L. Wms. ex C. Schweinf. in Bot. Mus.

Leafl. Harv. Univ. 13: 145, t. 12. 1948.

Panama.

BRASSIA CAUDATA (L.) Lindl. in Bot. Reg. 10: t. 832. 1824.

*Epidendrum caudatum* L., Syst. ed. 10: 1246. 1759.

*Malaxis caudata* Willd., Sp. Pl. 4: 93. 1805.

*Oncidium caudatum* Reichb. f. in Walp. Ann. 6: 766. 1863.

Florida, West Indies, Central America and Panama.

BRASSIA CHLOROPS Endres & Reichb. f. in Gard. Chron. 542. 1873.

*Brassia parviflora* A. & S., Sched. Orch. 8: 74. 1925.

Costa Rica.

BRASSIA GIREOUDIANA Reichb. f. & Warsc. in Allgem. Gartenz. 23: 273. 1854.

*Oncidium Gireoudianum* Reichb. f. in Walp. Ann. 6: 768. 1863.

Costa Rica and Panama.

BRASSIA LONGISSIMA (Reichb. f.) Nash in Bailey, Stand. Cyclop. Hort. 1: 541. 1914.

*Brassia Lawrenciana* Lindl. var. *longissima* Reichb. f. in Gard. Chron. 1313. 1868.

The combination has also been made by Schlechter in Orchideen 496. 1914.

Costa Rica, Panama and South America.

BRASSIA MACULATA R. Br. in Aiton, Hort. Kew. ed. 2, 5: 215. 1813.

*Brassia Wrayae* Skinner in Bot. Mag. 69: t. 4003. 1843.

*Brassia guttata* Lindl. in Benth., Pl. Hartw. 94. 1842.

*Oncidium Brassia* Reichb. f. in Walp. Ann. 6: 765. 1863.

British Honduras, Guatemala and Honduras.

BRASSIA NEGLECTA Reichb. f. in Allgem. Gartens. 24: 322. 1856.

"Central America".

BRASSIA VERRUCOSA Batem., Orch. Mex. & Guat. t. 22. 1840.

*Brassia brachiata* Lindl. in Benth., Pl. Hartw. 94. 1842.

*Brassia aristata* Lindl. in Bot. Reg. 30: Misc. p. 7. 1844.

*Brassia odontoglossoides* Kl. & Karst. in Allgem. Gartenz. 15: 330. 1847.

*Brassia coryandra* Morr. in Ann. Soc. Roy. Bot. Gand. 4: 295, t. 212. 1848.

*Brassia longiloba* A. DC. in Mém. Soc. Phys. Geneve 11: 427. 1848.

*Oncidium verrucosum* Reichb. f. in Walp. Ann. 6: 768. 1863.

*Oncidium brachiatum* Reichb. f., 1. c.

Mexico, Guatemala, Honduras, El Salvador and South America.

MILTONIA Lindl. in Bot. Reg. 23: sub t. 1976. 1837.

A genus of some 15-20 species, mostly from Colombia to Brazil. Many of the species are very attractive and are popular in horticulture.

MILTONIA ENDRESII Nichols, Dict. Gard. 2: 368. 1907.

*Miltonia superba* Schltr. in Fedde Rep. 3: 249. 1907.

Costa Rica and Panama.

PALUMBINA Reichb. f. in Walp. Ann. 6: 699. 1863.

A monotypic genus possibly not sufficiently distinct from *Oncidium*.

PALUMBINA CANDIDA (Lindl.) Reich. f. in Walp. Ann. 6: 699. 1863.

*Oncidium candidum* Lindl. in Bot. Reg. 29: Misc. p. 56. 1843.

Guatemala. Reported from Mexico but possibly does not occur there.

ONCIDIUM Sw. in Vet. Akad. nya Handl. Stockh. 21: 239, t. 3, Q. 1800; Lindl., Folia Orch. *Oncidium* 1855; Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 87. 1922.

A large genus of some 450 species which are often difficult to determine. Many of the species have been and are in cultivation. *Oncidium Papilio* was one of the first orchids to awaken horticultural interest in the family.

ONCIDIUM ADVENA Reichb. f. in Hamb. Gartenz. 16: 422. 1860.

Costa Rica, Panama and South America.

ONCIDIUM ALTISSIMUM (Jacq.) Sw. in Vet. Akad Handl. Stockh. 21: 240. 1800.

Guatemala?, West Indies and South America.

ONCIDIUM AMPLIATUM Lindl. Gen. & Sp. Orch. Pl. 202. 1833.

*Oncidium Bernoullianum* Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 231. 1922.

West Indies, Guatemala, El Salvador, Nicaragua, Costa Rica, Panama and South America.

ONCIDIUM ANGUSTISEPALUM Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 203, f. 1922.

Costa Rica.

ONCIDIUM ANSIFERUM Reichb. f. in Bot. Zeit. 10: 696. 1852.

*Oncidium tenue* var. *grandiflorum* Lindl. in Journ. Hort. Soc. 8: 271, f. 1852.

*Oncidium delumbe* Lindl., Folia Orch. *Oncidium* p. 48. 1855.

*Oncidium Lankesteri* Ames, Sched. Orch. 4: 53. 1923.

*Oncidium naranjense* Schltr. in Fedde Rep. Beih. 19: 259. 1923.

Costa Rica and Panama.

ONCIDIUM ASCENDENS Lindl. in Bot. Reg. 28: sub t. 4. 1842.

West Indies, British Honduras, Guatemala, Honduras, Nicaragua and Costa Rica.

ONCIDIUM ASPARAGOIDES Kränzl. in Engler, Pflanzenr.  
4. 50. Heft 80: 175. 1922.

Costa Rica.

ONCIDIUM AURISASINORUM Standl. & L. Wms. in Ceiba  
3: 39. 1952.

Honduras.

ONCIDIUM BICALLOSUM Lindl. in Benth., Pl. Hartw.  
94. 1839; in Bot. Reg. 29: t. 12. 1843; Hook. in Bot. Mag.  
71: t. 4148. 1845.

Mexico, Guatemala and El Salvador.

ONCIDIUM BRACHYANDRUM Lindl., Sert. Orch. sub t.  
25. 1838.

*Oncidium graminifolium* Lindl., 1. c. sub t. 48

*Oncidium filipes* Lindl., 1. c.

*Cyrtochilum graminifolium* Lindl. in Ann. Nat. Hist.  
4: 384. 1840.

*Cyrtochilum filipes* Lindl. in Bot. Reg. 27: t. 59. 1841.

Mexico, Guatemala and Honduras.

ONCIDIUM BRACHYANDRUM var. JOHANNIS (Schltr.)  
L. Wms. in Ceiba 4: 271. 1955.

*Oncidium Johannis* Schltr. in Fedde Rep. 10: 362.  
1912.

Mexico and Guatemala.

ONCIDIUM BRACTEATUM Warsc. in Bot. Zeit. 10: 695.  
1852.

Costa Rica and Panama.

ONCIDIUM CABAGRAE Schltr. in Fedde Rep. 9: 292.  
1911.

*Oncidium Rechingerianum* Kränzl. in Engler, Pflanzenr.  
4. 50. Heft 80: 202, f. 18. 1922.

*Oncidium castaneum* Reichb. f. ex Kränzl. 1. c. 278.

Costa Rica and Panama.

ONCIDIUM CALYPTOSTALIX Kränzl. in Engler, Pflanzenr.  
4. 50. Heft 80: 202, f. 18. 1922.

Costa Rica.

ONCIDIUM CARTHAGENENSE (Jacq.) Sw. in Kongl. Vet. Akad. Handl. 21: 240. 1800.

*Epidendrum carthagense* Jacq., Enum. Pl. Carib. 30. 1762.

*Oncidium Oerstedii* Reichb. f. in Bonpl. 2: 91. 1854.

*Oncidium carthagense* var. *Oerstedii* Lindl., Folia Orch. Oncidium p. 40. 1855.

*Oncidium kymatoides* Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 112. 1922.

Florida, West Indies, Mexico, Central America, Panama and South America.

ONCIDIUM CAVENDISHIANUM Batem., Orch. Mex. & Guat. t. 3. 1837.

Mexico, Guatemala and Honduras.

ONCIDIUM CHEIROPHORUM Reichb. f. in Bot. Zeit. 10: 695. 1852.

*Oncidium Dielsianum* Kränzl. in Engler., Pflanzenr. 2. 50. Heft 80: 197. 1922.

Costa Rica, Panama and South America.

ONCIDIUM CHELIDONIZON Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 217. 1922.

Costa Rica.

ONCIDIUM COSTARICENSE Schltr. in Fedde Rep. 9: 30. 1910.

Costa Rica.

ONCIDIUM CRISTA-GALLI Reichb. f. in Bot. Zeit. 10: 697. 1852.

*Oncidium decipiens* Lindl., Folia Orch. Oncidium p. 22. 1855.

Mexico, Guatemala, Honduras, Costa Rica, Panama and South America.

ONCIDIUM DICROMATICUM Reichb. f. in Bonpl. 3: 215. 1855.

Costa Rica or Panama.

ONCIDIUM EBRACIATUM A. & S., Sched. Orch. 8: 75, fig. 6. 1925.  
Panama.

ONCIDIUM ENSATUM Lindl. in Bot. Reg. 28: Misc. p. 17. 1842.

*Oncidium cerebriferum* Reichb. f. in Bot. Zeit. 10: 696. 1852.

*Oncidium confusum* Reichb. f. in Xenia Orch. 1: 234. 1856.

Guatemala, British Honduras, Honduras, Nicaragua and Panama.

ONCIDIUM GLOBULIFERUM HBK., Nov. Gen. & Sp. 1: 347. 1815.

*Oncidium globuliferum* var. *costaricense* Reichb. f. in Gard. Chron. 1678. 1871.

*Oncidium Wercklei* Schltr. in Fedde Rep. Beih. 19: 68. 1923.

Costa Rica, Panama and South America.

ONCIDIUM GUTTATUM (L.) Reichb. f. in Walp. Ann. 10: 782. 1863.

*Epidendrum guttatum* L., Sp. Pl. 953. 1753.

*Cymbidium guttatum* Willd., Sp. Pl. 4: 102. 1806.

*Oncidium luridum* Lindl. in Bot. Reg. 9: t. 727. 1823.

The name for this common plant should be *O. guttatum* although *O. luridum* is the better known.

Florida, West Indies, Mexico, Central America, Panama and South America.

ONCIDIUM GUTTULATUM Reichb. f. in Lindl., Folia Orch. Oncidium p. 50. 1855.

Costa Rica.

ONCIDIUM HENRICI-GUSTAVI Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 242. 1922.

Costa Rica.

ONCIDIUM HETERANTHUM P. & E., Nov. Gen. & Sp. 1: 34, t. 60. 1836.

*Oncidium brylophotum* Reichb. f. in Gard. Chron. 738. 1871.

*Oncidium megalous* Schltr. in Fedde Rep. 9: 30. 1910.  
Costa Rica, Panama and South America.

ONCIDIUM ISTHMI Schltr. in Fedde Rep. Beih. 17: 84. 1922.

Costa Rica and Panama.

ONCIDIUM KRAMERIANUM Reichb. f. in Allgem. Gartenz. 23: 9. 1855.

*Oncidium Papilio Kramerianum* Lindl., Folia Orch. Oncidium p. 56. 1855.

Costa Rica, Panama and South America.

ONCIDIUM LEUCOCHILUM Batem. ex Lindl. in Bot. Reg. 23: sub t. 1920. 1837; Orch. Mex. & Guat. t. 1. 1837.

*Oncidium digitatum* Lindl. in Benth., Pl. Hartw. 94. 1839.

*Cyrtochilum leucochilum* Planchet in Fl. des Serres 5: t. 522. 1849.

Mexico, Guatemala and Honduras.

ONCIDIUM LINTRICULUS Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 112. 1922.

Costa Rica.

ONCIDIUM LONGIFOLIUM Lindl., Bot. Reg. 27: Misc. p. 22. 1841; 1. c. 28: t. 4. 1842.

*Oncidium brachyphyllum* Lindl., 1. c. sub t. 4.

*Oncidium cebolleta* of authors, *non* (Jacq.) Sw.

The name *Oncidium cebolleta* which has been used often in literature, and still is, can not be proven and there is no certainty which of the terete-leaved species the name should be applied to. The name is best treated as a *nomen dubium*.

West Indies, Central America, Panama and South to Paraguay.

ONCIDIUM LOWII Rolfe in Orch. Rev. 13: 116-126.  
1905.

Presumed to be a natural hybrid from Guatemala.

ONCIDIUM MACRORHYNCHUM Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 200, fig. 1922.

Costa Rica.

ONCIDIUM MACULATUM Lindl., Sert. Orch. sub t. 48.  
1841.

*Cyrtochilum maculatum* Lindl. in Bot. Reg. 24: Misc.  
p. 30, t. 44. 1838; Sert. Orch. t. 25. 1838; Hook. in  
Bot. Mag. 68: t. 3880. 1841.

Several horticultural varieties of this species have been  
described.

Mexico, Guatemala and Honduras.

ONCIDIUM MASSANGEI E. Morr. in Belg. Hort. 27:  
124, t. 617. 1877.

"Central America".

ONCIDIUM MICROCHILUM Batem. ex Lindl. in Bot. Reg.  
26: Misc. p. 82. 1840.

Mexico and Guatemala.

ONCIDIUM MICROPHYTON Kränzl. in Engler, Pflanzenr.  
4. 50. Heft 80: 204. 1922.

Costa Rica.

ONCIDIUM NEBULOSUM Lindl. in Bot. Reg. 27: Misc.  
p. 81. 1841.

*Oncidium Geertianum* C. Morr. in Ann. Soc. Bot.  
Gand. 4: 55, t. 173. 1848.

*Oncidium Klotzschianum* Reichb. f. in Bot. Zeit. 10:  
695. 1852.

*Oncidium caesium* Reichb. f. in Gartenfl. 75. 1854.  
Guatemala and Panama.

ONCIDIUM OBLONGATUM Lindl. in Bot. Reg. 30: Misc.  
p. 4. 1844.

Mexico and Guatemala.

ONCIDIUM OBRYZATUM Reichb. f. in Bonpl. 2: 108. 1854.

*Oncidium obryzatoides* Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 240. 1922.

*Oncidium fulgens* Schltr. in Fedde Rep. Beih. 17: 83. 1922.

*Oncidium varians* Schltr., 1. c. 19: 68. 1923.

*Oncidium Brenesii* Schltr., 1. c. 257.

*Oncidium graciliforme* C. Schweinf. in Bot. Mus. Leafl. Harv. Univ. 5: 96. 1938.

Costa Rica, Panama and South America.

ONCIDIUM OCHMATOCHILUM Reichb. f. in Bot. Zeit. 10: 698. 1852.

*Oncidium cardiochilum* Lindl., Folia Orch. Oncidium p. 27. 1855.

Guatemala, Costa Rica and Panama.

ONCIDIUM OLIGANTHUM (Reichb. f.) L. Wms. in Lloydia 10: 212. 1947.

*Odontoglossum oliganthum* Reichb. f. in Bonpl. 4: 321. 1856.

*Oncidium guatemalensis* Schltr. in Fedde Rep. 10: 362. 1912.

Mexico and Guatemala.

ONCIDIUM ONUSTUM Lindl., Gen. & Sp. Orch. Pl. 203. 1833.

*Oncidium holochrysum* Reichb. f. in Hamb. Gartenz. 18: 33. 1862.

Allen, in Flora of Panama, excludes this as a South American species. The type was probably collected in what is now Panama.

Panama.

ONCIDIUM ORNITHORRHYNCHUM HBK., Nov. Gen. & Sp. 1: 345, t. 80. 1815; Batem.; Orch. Mex. & Guat. t. 4.

1837; Lindl. in Bot. Reg. 26: t. 10. 1840; Hook. in Bot. Mag. 68: t. 3912. 1841.

Mexico, Guatemala, El Salvador and Costa Rica.

ONCIDIUM PALEATUM Schltr. in Fedde Rep. Beih. 19: 260. 1923.

Costa Rica.

ONCIDIUM PANAMENSE Schltr. in Fedde Rep. Beih. 17: 85. 1922.

Panama.

ONCIDIUM PANDURIFORME A. & S., Sched. Orch. 8: 77. 1925.

Costa Rica and Panama.

ONCIDIUM PARVIFLORUM L. Wms. in Am. Orch. Soc. Bull. 11: 33, t. 1942.

Panama.

ONCIDIUM PELIOGRAMA Lind. & Reichb. f. in Gard. Chron. 1451. 1871.

Panama.

ONCIDIUM PERGAMENIUM Lindl. in Benth., Pl. Hartw. 93. 1842.

Mexico and Guatemala.

ONCIDIUM PHYMATOCHILUM Lindl. in Paxt., Fl. Gard 1: 78. fig. on p. 88. 1850-51.

Mexico and Guatemala, possibly South America.

ONCIDIUM PITTIERI Schltr. in Fedde Rep. 9: 31. 1910.

*Oncidium cheirophoroides* Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 199, f. 1922.

Costa Rica.

ONCIDIUM POLYCLADIUM Reichb. f. in Lindl., Folia Orch. Oncidium p. 47. 1855.

Mexico, Guatemala, Nicaragua, Costa Rica and Panama.

ONCIDIUM POWELLII Schltr. in Fedde Rep. Beih. 17: 86. 1922.

Panama.

ONCIDIUM PUSILLUM (L.) Reichb. f. in Walp. Ann. 6: 714. 1861.

*Epidendrum pusillum* L., Sp. Pl. ed. 2, 1352. 1763.

*Oncidium iridifolium* HBK., Nov. Gen. ac Sp. 1: 344. 1815.

West Indies, Mexico, Guatemala, British Honduras, Honduras, Nicaragua, Costa Rica, Panama and South America.

ONCIDIUM REFLEXUM Lindl. in Bot. Reg. 23: sub t. 1920. 1837.

*Oncidium Suttonii* Batem. ex Lindl. in Bot. Reg. 28: Misc. p. 4. 1842.

Mexico and Guatemala.

ONCIDIUM RETEMEYERIANUM Reichb. f. in Bot. Zeit. 14: 503. 1856.

Mexico and Honduras.

ONCIDIUM SALVADORENSE Schltr. in Fedde Rep. 12: 215. 1913.

El Salvador.

ONCIDIUM SCABRIPES Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 277. 1922.

Costa Rica.

ONCIDIUM SCLEROPHYLLUM Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 204. 1922.

Costa Rica.

ONCIDIUM SPHACELATUM Lindl., Sert. Orch. No. 54, sub t. 48. 1841; in Bot. Reg. 28: t. 30. 1842.

Mexico, British Honduras, Guatemala, Honduras and El Salvador.

ONCIDIUM SPLENDIDUM A. Rich. ex Duchartre in Journ. Soc. Imp. Hort. Paris 50. 1862.

This species appears on the streets of Tegucigalpa at flowering time each year and is sold by the flower peddlers for a small sum. It is possibly the best Central American *Oncidium*.

Guatemala and Honduras.

*ONCIDIUM STELLIGERUM* Reichb. f. in Gard. Chron. 1398. 1873.

Mexico and Guatemala.

*ONCIDIUM STENOBULBON* Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 281. 1922.

Costa Rica.

*ONCIDIUM STENOTIS* Reichb. f. in Linnaea 41: 67. 1876.

Costa Rica and Panama.

*ONCIDIUM STIPITATUM* Lindl. in Bot. Voy. Sulphur 172. 1843.

*Oncidium lacerum* Lindl. in Bot. Reg. 30: Misc. p. 30. 1844.

*Oncidium stipitatum* var. *platyonyx* Reichb. f. in Gard. Chron. 1: 788. 1888.

Honduras, Nicaragua and Panama.

*ONCIDIUM STORKII* A. & S., Sched. Orch. 10: 106. 1930.

Costa Rica.

*ONCIDIUM TENUIPES* Kränzl. in Engler, Bot. Jahrb. 54, Beibl. 117: 33. 1916.

Guatemala.

*ONCIDIUM TERES* A. & S., Sched. Orch. 8: 78, f. 7. 1925.

Honduras, Nicaragua and Panama.

*ONCIDIUM TETRASKELIDION* Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 259. 1922.

Costa Rica.

ONCIDIUM TITANIA Schltr. in Fedde Rep. Beih. 19: 67. 1923.

*Oncidium hondurensense* Ames in Bot. Mus. Leafl. Harv. Univ. 1, No. 5: 1, t. 1933.

Guatemala, Honduras and Costa Rica.

ONCIDIUM TONDUZII Schltr. in Fedde Rep. 9: 31. 1910.  
Costa Rica.

ONCIDIUM TURALBAE Schltr. in Fedde Rep. 9: 32. 1910.

Costa Rica.

ONCIDIUM WARSCEWICZII Reichb. f. in Bot. Zeit. 10: 693. 1852.

*Oncidium bifrons* Lindl. in Gard. Chron. 84. 1857.  
Costa Rica and Panama.

ONCIDIUM WENTWORTHIANUM Batem. ex Lindl in Bot. Reg. 26: Misc. p. 82. 1840.

*Oncidium tenue* Lindl. in Journ. Hort. Soc. 3: 76, fig. 1848.

*Oncidium Wentworthianum* var. *tenue* A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 20. 1943.

Mexico and Guatemala.

#### EXCLUDED SPECIES.

ONCIDIUM BAUERI Lindl. in Bauer & Lindl., Ill. Orch. Gen. t. 7. 1830.

Credited by Allen, Ann. Mo. Gard. 36: 183. 1949, to "Mexico to Brazil and Peru; Virgin Islands and Martinique". I have not studied critically the complex to which it belongs but should doubt that is in Central America.

ONCIDIUM DONIANUM Batem. ex Loud., Hort. Brit. suppl. 3: 598. 1839, *nomen*. A name ascribed to Guatemala.

ONCIDIUM MACRANTHUM Lindl., Sert. Orch. 205. 1833.  
Schlechter credits the plant to "Costa Rica?". It was originally from Ecuador.

ONCIDIUM NANUM Lindl. in Bot. Reg. 28: Misc. p. 37. 1842.

Reported by Schlechter as from Guatemala. It probably does not occur there.

ONCIDIUM RUPESTRE Lindl. in Benth., Pl. Hartw. 151. 1844.

Credited to "Zentral-Amerika?" by Schlechter. It is South American.

LEOCHILUS Knowles & Westc., Flor. Cab. 2: 143. 1838.

*Rhynchostele* Reichb. f. in Bot. Zeit. 10: 770. 1852.

*Cryptosaccus* Scheidw. ex Reichb. f. in Xenia Orch. 1: 115. 1854, in synonym.

Leochilus is a small genus, of some fifteen species, which is closely allied to *Oncidium*.

LEOCHILUS GRACILIS Schltr. in Fedde Rep. Beih. 19: 152. 1923.

Schweinfurth (Bot. Mus. Leaflet. Harv. Univ. 11: 26. 1943) has reduced this species to *Leochilus labiatus*. It seems best to maintain it for the time.

Guatemala, Honduras, Nicaragua and Costa Rica.

LEOCHILUS JOHNSTONII A. & C. in Bot. Mus. Leaflet. Harv. Univ. 11: 21, t. 3. 1943.

Guatemala and Honduras.

LEOCHILUS LABIATUS (Sw.) O. Kuntze, Rev. Gen. Pl. 2: 656. 1891.

*Epidendrum labiatum* Sw., Prodr. Veg. Ind. Occ. 124. 1788.

West Indies, Trinidad and Panama.

LEOCHILUS ONCIDIODES Knowl. & Westc., Flor. Cab. 2: 143. 1838.

*Leochilus scriptus* Reichb. f., Xenia Orch. 1: 15, t. 6. 1854.

*Cryptosaccus scriptus* Schweidw. ex Reichb. f., 1. c.

*Oncidium scriptum* Reichb. f. in Walp. Ann. 6: 772. 1863.

*Leochilus major* Schltr. in Fedde Rep. Beih. 15: 209. 1918.

*Leochilus Powellii* Schltr. in Fedde Rep. Beih. 17: 81. 1922.

*Leochilus retusus* Schltr., l. c. 19: 256. 1923.

Allen, in the Flora of Panama, and Ames & Correll in the Flora of Guatemala, keep *Leochilus scriptus* as a distinct species.

Mexico, Central America, Panama and possibly South America.

LEOCHILUS PARVIFLORUS Standl. & L. Wms. in Ceiba 1: 253. 1951

Costa Rica.

LEOCHILUS PYGMAEUS (Lindl.) Benth. & Hook. ex Jackson, Ind. Kew. 2: 1290. 1895.

*Odontoglossum pygmaeum* Lindl. in Benth., Pl. Hartw. 82. 1843.

*Rhynchostele pygmaea* Reichb. f. in Bot. Zeit. 10: 770. 1852.

*Oncidium pygmaeum* Beer, Prakt. Stud. Orch. 292. 1854.

Mexico and Guatemala.

LEOCHILUS TRICUSPIDATUS (Reichb. f.) Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 297. 1922.

*Oncidium tricuspidatum* Reichb. f., Beitr. Orch. Cent. Am. 72. 1866.

Costa Rica.

SIGMATOSTALIX Reichb. f. in Bot. Zeit. 10: 769. 1852.

A small genus of some twenty-five species.

SIGMATOSTALIX ABORTIVA L. Wms. in Ann. Mo. Bot. Gard. 27: 284, t. 34. 1940.

Panama.

SIGMATOSTALIX GUATEMALENSIS Schltr. in Fedde Rep. 10: 253. 1911.

*Sigmatostalix costaricensis* Rolfe in Kew Bull. 78. 1916; in Bot. Mag. 145: t. 8825. 1919.

*Sigmatostalix poikilostalix* Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 310, fig. 1922.

Mexico, Guatemala, Costa Rica and Panama.

SIGMATOSTALIX HYMENANTHA Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 419. 1918.

Costa Rica and Panama.

SIGMATOSTALIX MACROBULBON Kränzl. in Engler, Pflanzenr. 4. 50. Heft 80: 307. 1922.

Costa Rica.

SIGMATOSTALIX UNGUICULATA C. Schweinf. in Bot. Mus. Leaflet. Harv. Univ. 8: 55. 1940.

Costa Rica.

SIGMATOSTALIX RACEMIFERA L. Wms. in Ann. Mo. Bot. Gard. 27: 285, t. 36. 1940.

Panama.

LOCKHARTIA Hook. in Bot. Mag. 54: t. 2715. 1827; Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 6. 1923.

A genus of about thirty poorly defined species distributed from Mexico to Brazil

LOCKHARTIA ACUTA (Lindl.) Reichenb. f. in Bot. Zeit. 10: 767. 1852.

*Fernandezia acuta* Lindl. in Bot. Reg. 21: t. 1806. 1836.

*Lockhartia pallida* Reichb. f. in Bonpl. 2: 14. 1854.

Panama and South America.

LOCKHARTIA AMOENA Endres & Reichb. f. in Gard. Chron. 666. 1872.

*Lockhartia costaricensis* Schltr. in Fedde Rep. 3: 81. 1906.

*Lockhartia grandibracteata* Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 15, fig. 1923.

Costa Rica and Panama.

LOCKHARTIA AMOENA *var.* TRIANGULABIA (A. & S.) Schweinf. & Allen in Bot. Mus. Leaflet. Harv. Univ. 13: 150. 1948.

*Lockhartia triangulabia* A. & S., Sched. Orch. 8: 80. 1924.

Panama.

LOCKHARTIA DIPLEURA Schltr. in Fedde Rep. Beih. 19: 69. 1923.

Costa Rica.

LOCKHARTIA HERCODONTA Reichb. f. ex Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 8, fig. 1923.

Guatemala and Costa Rica.

LOCKHARTIA INTEGRATA A. & S., Sched. Orch. 10: 108. 1930.

Costa Rica.

LOCKHARTIA MICRANTHA Reichb. f. in Bot. Zeit. 10: 768. 1852.

*Lockhartia chiriquensis* Schltr. in Fedde Rep. 12: 215. 1913.

*Lockhartia Lankesteri* Ames, Sched. Orch. 5: 36. 1923.  
Nicaragua, Costa Rica, Panama and South America.

LOCKHARTIA OBTUSATA L. Wms. in Am. Orch. Soc. Bull. 9: 209, t. 8. 1941.

Panama.

LOCKHARTIA ODONTOCHILA Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 17. 1923.

Costa Rica.

LOCKHARTIA OERSTEDII Reichb. f. in Bot. Zeit. 10: 767. 1852.

*Lockhartia verrucosa* Reichb. f. in Hamb. Gartenz. 15: 53. 1859.

*Lockhartia lamellosa* Reichb. f. in Hamb. Gartenz. 21: 300. 1865.

*Fernandezia robusta* Batem. in Bot. Mag. 22: t. 5592. 1866.

*Lockhartia robusta* Schltr. in Fedde Rep. 3: 82. 1906.  
Mexico, Guatemala, Honduras, Costa Rica and Panama.

LOCKHARTIA PITTIERI Schltr. in Fedde Rep. 12: 216. 1913.

*Lockhartia variabilis* A. & S., Sched. Orch. 8: 80. 1924.  
Costa Rica and Panama.

EXCLUDED SPECIES.

LOCKHARTIA MIRABILIS Reichb. f. in Xenia Orch. 1: 106. 1855.

*Oncidium mirabile* Reichb. f. in Bot. Zeit. 10: 697. 1852.

Based on inadequate material from Panama.

ORNITHOCEPHALUS Hook., Exot. Flora 2: t. 127. 1824.

A small distinctive genus of the American tropics. The species are often fascinating.

ORNITHOCEPHALUS BICORNIS Lindl. in Benth., Bot. Voy. Sulphur 172. 1843.

*Ornithocephalus xiphochilus* Schltr. in Fedde Rep. 3: 251. 1906.

*Zygostates costaricensis* Nash in Bull. Torr. Bot. Club 34: 122. 1907.

*Ornithocephalus lanuginosus* Ames in Proc. Biol. Soc. Wash. 31: 152. 1921.

Guatemala, Honduras, Nicaragua, Costa Rica and Panama.

ORNITHOCEPHALUS COCHLEARIFORMIS C. Schweinf. in  
Bot. Mus. Leafl. Harv. Univ. 4: 124. 1937.  
Panama.

ORNITHOCEPHALUS INFLEXUS Lindl. in Ann. Nat. Hist.  
1, 4: 384. 1840.

*Ornithocephalus elephas* Reichb. f. in Walp. Ann. 6:  
493. 1863.

*Ornithocephalus Pottsiae* S. Wats. in T. Brigham,  
Append. Guatem. 429. 1887.

*Ornithocephalus Tonduzii* Schltr. in Beih. Bot.  
Centralbl. 36, Abt. 2: 420. 1918.

Mexico and Guatemala.

ORNITHOCEPHALUS IRIDIFOLIUS Reichb. f. in Walp.  
Ann. 6: 494. 1863.

Mexico and Guatemala.

ORNITHOCEPHALUS LANKESTERI Ames, Sched. Orch.  
3: 24. 1923.

Costa Rica.

ORNITHOCEPHALUS POWELLII Schltr. in Fedde Rep.  
Beih. 17: 88. 1922.

Panama.

ORNITHOCEPHALUS TRIPTERUS Schltr. in Fedde Rep.  
15: 209. 1918.

Mexico and Guatemala.

ORNITHOCEPHALUS VALERIOI A. & S., Sched. Orch.  
10: 103. 1930.

Costa Rica.

#### EXCLUDED SPECIES.

ORNITHOCEPHALUS SALVINII Reichb. f. ex Hemsl.,  
Biol. Cent. Am. Bot. 3: 291. 1884, *nomen*.

The name is based on a Guatemalan record.

OAKESAMESIA C. Schweinf. & P. H. Allen in Bot.  
Mus Leafl. Harv. Univ. 13: 134, t. 10. 1948.

A monotypic genus so far known only from the highlands of Panama.

OAKESAMESIA CRYPTANTHA C. Schweinf. & P. H. Allen  
in Bot. Mus. Leafl. Harv. Univ. 13: 134, t. 10. 1948.  
Panama.

NOTYLIA Lindl. in Bot. Reg. 11: sub t. 930. 1825.

A small genus containing two well marked, but unnamed, subgenera.

NOTYLIA BARKERI Lindl. in Bot. Reg. 24: Misc. p. 90.  
1838.

*Notylia trisejala* Lindl. in Paxt., Fl. Gard. 3: 45. 1852.

*Notylia albida* Kl. in Allgem. Gartenz. 19: 281. 1851.

*Notylia guatemalensis* S. Wats. in Proc. Am. Acad. 22:  
477. 1887.

*Notylia Bernoullii* Schltr. in Beih. Bot. Centralbl. 36,  
Abt. 2: 502. 1918.

*Notylia Pittieri* Schltr., 1. c. 418.

*Notylia guatemalensis* Schltr. in Fedde Rep. 15: 208.  
1918, non S. Wats.

*Notylia turialbae* Schltr. in Fedde Rep. Beih. 19: 145.  
1923.

*Notylia Brenesü* Schltr., 1. c. 249.

A common, variable and much described species.

Mexico, British Honduras, Guatemala, Honduras, Ni-  
caragua, Costa Rica and Panama.

NOTYLIA BICOLOR Lindl. in Benth., Pl. Hartw. 93. 1842.  
Mexico, Guatemala and Costa Rica.

NOTYLIA CORDESII L. Wms. in Ann. Mo. Bot. Gard.  
26: 286, t. 21. 1939.  
Costa Rica and Panama.

NOTYLIA LANKESTERI Ames, Sched. Orch. 5: 34. 1923.  
Costa Rica and Panama.

- NOTYLIA LATILABIA A. & S., Sched. Orch. 8: 71. 1925.  
Panama.
- NOTYLIA LINEARIS A. & S., Sched. Orch. 8: 72. 1925.  
Costa Rica.
- NOTYLIA PANAMENSIS Amcs, Orch. 7: 112. 1922.  
Panama.
- NOTYLIA PANICULATA A. & S., Sched. Orch. 10: 102.  
1930.  
Costa Rica.
- NOTYLIA PENTACHNE Reichb. f. in Bonpl. 2: 90. 1854.  
75. 1925.
- Notylia gracilispica* Schltr. in Fedde Rep. Beih. 17:  
Panama.
- NOTYLIA RAMONENSIS Schltr. in Fedde Rep. Beih. 19:  
250. 1923.  
Costa Rica.
- NOTYLIA WULLSCHLAEGELIANA Focke in Bot. Zeit. 11:  
343. 1853.  
Costa Rica and South America.
- CRYPTARRHENA R. Br. in Bot. Reg. 2: t. 153. 1816;  
Kränzlin in Engler, Pflanzenr. 4. 50. Heft 80: 313. 1922.  
A small genus of two or perhaps three species.
- CRYPTARRHENA GUATEMALENSIS Schltr. in Fedde Rep.  
10: 253. 1911.
- Cryptarrhena quadricornu* Kränzlin in Engler, Pflan-  
zenr. 4. 50. Heft 80: 314, fig. 1922.  
Guatemala and Costa Rica. South America.
- CRYPTARRHENA LUNATA R. Br. in Bot. Reg. 2: t. 153.  
1816.  
West Indies, Mexico, Guatemala, British Honduras,  
Honduras, Costa Rica and South America.

MACRADENIA R. Br. in Bot. Reg. 8: t. 612. 1822.  
A small genus ranging from Florida to South America.

MACRADENIA BRASAVOLAE Reichb. f. in Bot. Zeit. 734.  
1852.  
Guatemala, Nicaragua, Costa Rica, Panama and South America.

TELIPOGON HBK., Nov. Gen. & Sp. 1: 335, t. 75.  
1815.  
A genus of attractive but taxonomically difficult plants mostly in the Andes of South America.

TELIPOGON AMPLIFLORUS C. Schweinf. in Bot. Mus. Leaflet. Harv. Univ. 6: 34. 1938.  
Costa Rica and Panama.

TELIPOGON BIOLLEYI Schltr. in Fedde Rep. 9: 293.  
1911.  
Costa Rica.

TELIPOGON BUENAVISTAE Kränzl. in Ann. Nat. Hist. Hofmus. 33: 30. 1919.  
Costa Rica.

TELIPOGON CHRISTOBALENSIS Kränzl. in Ann. Nat. Hist. Hofmus. 33: 30. 1919.  
Costa Rica.

TELIPOGON COSTARICENSIS Schltr. in Fedde Rep. 9: 166. 1911.  
Costa Rica.

TELIPOGON ENDRESIANUS Kränzl. in Ann. Nat. Hist. Hofmus. 33: 33. 1919.  
Costa Rica.

TELIPOGON GRACILIPES Schltr. in Fedde Rep. Beih. 19: 263. 1923.  
Costa Rica.

TELIPOGON LANKESTERI Ames, Sched. Orch. 3: 23. 1923.  
Costa Rica.

TELIPOGON MINUTIFLORUS Kränzl. in Ann. Nat. Hist. Hofmus. 33: 14. 1919.

Costa Rica.

TELIPOGON PARVULUS C. Schweinf. in Bot. Mus. Leaflet. Harv. Univ. 4: 123. 1937.

Costa Rica.

TELIPOGON PFAVII Schltr. in Fedde Rep. 17: 143. 1921.

Costa Rica.

TELIPOGON SETOSUS Ames in Bot. Mus. Leaflet. Harv. Univ. 6: 28, t. 1938.

Costa Rica.

TELIPOGON STANDLEYI Ames, Sched. Orch. 9: 53, t. 9. 1925.

Costa Rica.

TELIPOGON STORKII A. & S., Sched. Orch. 10: 101. 1930.

Costa Rica.

#### EXCLUDED SPECIES.

TELIPOGON RADIATUS Reichb. f. in Linnaea 41: 70. 1877.

Reported by Allen from Panama. The specimen involved is quite possibly *Telipogon ampliflorus*.

TELIPOGON DENDRITICUS Reichb. f. in Otia Bot. Hamb. 1: 6. 1878.

Reported by Allen from Panama. It may occur.

STELLILABIUM Schltr., Orch. 530. 1914.

A genus closely allied to *Telipogon*.

STELLILABIUM DISTANTIFLORUM A. & S., Sched. Orch. 8: 70, t. 21. 1925.

Costa Rica.

DICHAEA Lindl., Gen. & Sp. Orch. Pl. 208. 1833;  
Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 33. 1923.

*Dichaeopsis* Pfitzer in Engler & Prantl, Nat. Pflanzenf. 2, 6: 207. 1888.

A relatively small genus but, taxonomically, a confusing one largely due to the difficulty of interpreting some of the older species. Most specimens are sterile or have but one or two flowers. A new monograph will be required before much can be done with the Central American kinds and for the most part I have limited myself to listing the species of our range.

DICHAEA ACOSTAEI Schltr. in Fedde Rep. Beih. 19: 306. 1923.

Costa Rica.

DICHAEA ACROBLEPHARA Schltr. in Fedde Rep. Beih. 19: 71. 1923.

Costa Rica.

DICHAEA AMPAROANA Schltr. in Fedde Rep. Beih. 19: 71. 1923.

Costa Rica.

DICHAEA BRACHYPODA Reichb. f., Beitr. Orch. Cent. Am. 78. 1866.

*Epithecia brachypoda* Schltr. in Orchis 9: 25. 1915.

*Dichaeopsis brachypoda* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 519. 1918.

Costa Rica and South America.

DICHAEA BRADEORUM Schltr. in Fedde Rep. Beih. 19: 154. 1923.

Costa Rica.

DICHAEA BRENESII Schltr. in Fedde Rep. Beih. 19: 264. 1923.

Costa Rica.

DICHAEA CILIOLATA Rolfe in Kew Bull. 83. 1917.

Costa Rica.

DICHAEA COSTARICENSIS Schltr. in Fedde Rep. Beih. 19: 73. 1923.

Costa Rica.

DICHAEA CRYPTARRHENA Reichb. f. ex Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 36. 1923.

Costa Rica.

DICHAEA DAMMERIANA Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 41. 1923.

Costa Rica and South America.

DICHAEA DIANDRA Reichb. f. in Bot. Zeit. 35: 41. 1877. Apparently a monstrosity.

Costa Rica.

DICHAEA GLABRESCENS Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 44, fig. 1923.

Costa Rica.

DICHAEA GRACILLIMA C. Schweinf. in Bot. Mus. Leaflet Harv. Univ. 5: 98. 1938

Costa Rica.

DICHAEA GLAUCA (Sw.) Lindl., Gen. & Sp. Orch. Pl. 209. 1833.

*Epidendrum glaucum* Sw., Nov. Gen. & Sp. Prodr. 124. 1788.

*Cymbidium glaucum* Sw. in Nov. Act. Soc. Sci. Upsal. 6: 71. 1799.

*Epithecia glauca* Schltr. in Orchis 9: 26. 1915.

*Dichaeopsis glauca* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 519. 1918.

West Indies, Mexico, Guatemala, Honduras and Costa Rica.

DICHAEA GRAMINOIDES (Sw.) Lindl., Gen. & Sp. Orch. Pl. 209. 1833.

*Epidendrum graminoides* Sw., Nov. Gen. & Sp. Prodr. 125. 1788.

*Cymbidium graminoides* Sw. in Nov. Act. Soc. Sci. Uppsal. 6: 71. 1799.

*Isochilus graminoides* Hook., Exot. Fl. 3: t. 169. 1826-27.

*Epithecia graminoides* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 519. 1918.

West Indies, Mexico, British Honduras, Guatemala, Honduras, Nicaragua, Costa Rica and South America.

DICHAEA HYSTRICINA Reichb. f. in Flora 48: 279. 1865.  
West Indies, Guatemala, Honduras and Costa Rica.

DICHAEA LANKESTERI Ames, Sched. Orch. 4: 56. 1923.  
Honduras and Costa Rica.

DICHAEA LOBATA (A. & C.) L. Wms in Ceiba 1: 189.  
1950.

*Dichaea echinocarpa* var. *lobata* A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 71. 1943.

Costa Rica.

DICHAEA NEGLECTA Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 420. 1918.

Mexico, Guatemala and Honduras.

DICHAEA OERSTEDII Reichb. f. in Bonpl. 3: 219. 1855.

*Epithecia Oerstedii* Schltr. in Orchis 8: 101. 1914.

*Dichaeopsis Oerstedii* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 519. 1918.

Nicaragua.

DICHAEA OVIPETALA Schltr. in Fedde Rep. Beih. 19: 266. 1923.

Costa Rica.

DICHAEA OXYGLOSSA Schltr. in Fedde Rep. Beih. 19: 267. 1923.

Costa Rica.

DICHAEA PANAMENSIS Lindl., Gen. & Sp. Orch. Pl. 208. 1833.

*Epithecia panamensis* Schltr. in Orchis 9: 25. 1915.

*Dichaeopsis panamensis* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 519. 1918.

Mexico, British Honduras, Guatemala, Costa Rica and Panama.

DICHAEA POICILLANTHA Schltr. in Fedde Rep. Beih. 19: 73. 1923.

Costa Rica.

DICHAEA POWELLII Schltr. in Fedde Rep. Beih. 17: 90. 1922.

Honduras, Costa Rica and Panama.

DICHAEA SIMILIS Schltr. in Fedde Rep. Beih. 19: 307. 1923.

Costa Rica.

DICHAEA SQUARROSA Lindl. in Ann. Nat. Hist. 4: 384. 1840.

*Dichaea intermedia* A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 72, t. 5. 1943.

Mexico and Guatemala.

DICHAEA STANDLEYI Ames, Sched. Orch. 9: 57. 1925.

Costa Rica.

DICHAEA SUAVEOLENS Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 39. 1923.

Guatemala.

DICHAEA TRULLA Reichb. f., Beitr. Orch. Cent. Am. 104. 1866.

*Epithecia trulla* Schltr. in Orchis 9: 26. 1915.

*Dichaeopsis trulla* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 519. 1918.

Nicaragua.

DICHAEA TUERCKHEIMII Schltr. in Orchis 10: 188. 1916.

British Honduras, Guatemala and Costa Rica.

DICHAEA VAGINATA Reichb. f. in Engler, Pflanzenr.  
4. 50. Heft 83: 43, fig. 1923.  
Mexico and Costa Rica.

DICHAEA VERRUCOSA A. & S., Sched. Orch. 8: 83. 1925.  
Costa Rica.

DICHAEA WERCKLEI Schltr. in Fedde Rep. Beih. 19:  
74. 1923.  
Costa Rica.

EXCLUDED SPECIES.

DICHAEA MACULATA Poepp. & Endl., Nov. Gen. ac Sp.  
Pl. 2: t. 105. 1838.

A Peruvian species credited to Costa Rica. Probably  
does not occur there.

DICHAEA MORRISII Fawc. & Rendle in Journ. Bot. 48:  
107. 1910; C. Schweinf. in Bot. Mus. Leafl. Harv. Univ.  
6: 7. 1938.

A West Indian species credited to Costa Rica by  
Schweinfurth.

DICHAEA MURICATA (Sw.) Lindl., Gen. & Sp. Orch. Pl.  
209. 1833; C. Schweinf. in Bot. Mus. Leafl. Harv. Univ.  
6: 9. 1938, in part.

*Cymbidium muricatum* Sw. in Nov. Act. Uppsal. 6:  
71. 1799.

A West Indian species often credited to Central Amer-  
ica where it possibly does not occur.

DICHAEA PENDULA (Aubl.) Cogn. in Urban, Symb.  
Ant. 4: 182. 1866.

*Limodorum pendulum* Aubl., Pl. Guian. 2: 819. 1775.

*Epidendrum echinocarpum* Sw., Prodr. Veg. Ind. Occ.  
124. 1788.

*Cymbidium echinocarpon* Sw. in Nov. Act. Uppsal. 6:  
71. 1799.

*Dichaea echinocarpa* Lindl., Gen. & Sp. Orch. Pl. 208. 1833.

*Dichaea pendula* var. *Swartzii* C. Schweinf. in Bot. Mus. Leafl. Harv. Univ. 17: 62. 1955.

This species has been ascribed often to Mexico and Central America where I believe that it does not occur. Schweinfurth (l. c. and in litt.) apparently intended to describe a new variety of this species from somewhere in Central America but in as much as he gave a name bringing synonym and no description the new varietal name must go with its synonym.

DICHAEA TRICHOCARPA (Sw.) Lindl., Gen. & Sp. Orch. Pl. 209. 1833.

*Epidendrum trichocarpon* Sw., Nov. Gen. & Sp. Prodr. 124. 1788.

Often credited to Central America. It may occur here.

DICHAEA TUERCKEIMII Kränzl. in Engler, Pflanzenr. 4. 50. Heft 83: 39. 1923, *non Schltr.*

I do not know the plant, which is Guatemalan. The name is a homonym. Correll in the Orchids of Guatemala placed it as a synonym of *Dichaea muricata*.

PACHYPHYLLUM HBK., Nov. Gen. & Sp. 1: 338, t. 77. 1815.

*Orchidotypus* Kränzlin in Engler, Bot. Jahrb. 37: 383. 1906.

A small genus of some 15 or 20 species, mostly occurring in the high Andes of South America but with the three following species in the highlands of Costa Rica.

PACHYPHYLLUM COSTARICENSE (A. & S.) L. Wms. in Lilloa 3: 481. 1938.

*Centropetalum costaricense* A. & S., Sched. Orch. 10: 110. 1930.

Costa Rica.

PACHYPHYLLUM MUSCOIDES (Kränzl.) Schltr. in Fedde Rep. 15: 216. 1918.

*Orchidotypus muscoides* Kränzl. in Engler, Bot. Jahrb. 37: 383. 1906.

Costa Rica and Peru.

PACHYPHYLLUM PASTI Reichb. f. in Bonpl. 3: 239. 1855.

An Andean species collected on the Cerro de la Muerte in Costa Rica by Charles Lankester.

Costa Rica and South America.

CAMPYLOCENTRUM Benth. in Journ. Linn. Soc. 18: 337. 1881; in Benth. & Hook., Gen. Pl. 3: 585. 1883, as *Campylocentron*.

*Harrisella* Fawc. & Rendle in Journ. Bot. 47: 265. 1909.

An American genus of some forty species which is most closely allied to some African genera.

CAMPYLOCENTRUM ACUTUM Schltr. in Fedde Rep. Beih. 19: 268. 1923.

Costa Rica.

CAMPYLOCENTRUM BRENESII Schltr. in Fedde Rep. Beih. 19: 268. 1923.

Guatemala, Costa Rica and Panama.

CAMPYLOCENTRUM FASCIOLA (Lindl.) Cogn. in Mart., Fl. Bras. 3, pt. 6: 520, t. 106. 1906.

*Angraecum fasciola* Lindl. in Bot. Reg. 26: sub t. 68. 1840.

*Campylocentron Sullivani* Fawc. & Rendle in Journ. Bot. 47: 128. 1909.

*Campylocentron Lankesteri* Ames, Sched. Orch. 4: 57. 1923.

*Campylocentron multiflorum* Schltr. in Fedde Rep. Beih. 19: 156. 1923.

West Indies, British Honduras, Guatemala, Honduras, Nicaragua and Costa Rica.

CAMPYLOCENTRUM HONDURENSE Ames, Sched. Orch. 5: 37, f. 1923.  
Honduras.

CAMPYLOCENTRUM LONGICALCARATUM A. & S., Sched. Orch. 10: 111. 1930.  
Costa Rica.

CAMPYLOCENTRUM MICRANTHUM (Lindl.) Rolfe in Orch. Rev. 11: 245. 1903.

*Angraecum micranthum* Lindl. in Bot. Reg. 21: t. 1772. 1835.

*Campylocentrum stenanthum* Schltr. in Fedde Rep. 10: 486. 1912.

*Campylocentrum peniculus* Schltr. in Fedde Rep. Beih. 17: 91. 1922.

*Campylocentrum panamense* Ames, Orch. 7: 88. 1922.

West Indies, Mexico, British Honduras, Guatemala, Honduras, Nicaragua, Costa Rica, Panama and South America.

CAMPYLOCENTRUM MICROPHYLLUM A. & C. in Bot. Mus. Leaflet. Harv. Univ. 10: 88, t. 11. 1942.  
Mexico and Guatemala.

CAMPYLOCENTRUM PARVULUM Schltr. in Fedde Rep. Beih. 19: 157. 1923.  
Costa Rica.

CAMPYLOCENTRUM PORRECTUM (Reichb. f.) Rolfe in Orch. Rev. 11: 247. 1903; Ames, Orch. 1: 15, t. 4. 1905.

*Aeranthus porrectus* Reichb. f. in Flora 48: 279. 1865.

*Harrisella porrecta* Fawc. & Rendle in Journ. Bot. 47: 266. 1909.

*Harrisella Amesiana* Cogn. in Urban, Symb. Ant. 6: 687. 1910.

Florida, West Indies, Mexico and El Salvador.

CAMPYLOCENTRUM SCHIEDEI (Reichb. f.) Benth. ex Hemsl. in Godm. & Salvin, Biol. Cent. Am. Bot. 3: 292. 1884.

*Angraecum Schiedeii* Reichb. f. in Linnaea 22: 857. 1849.

*Aeranthus Schiedeii* Reichb. f. in Walp. Ann. 6: 901. 1864.

Mexico, Guatemala and Costa Rica.

CAMPYLOCENTRUM TUERCKHEIMII Schltr. in Fedde Rep. 10: 363. 1912.

Mexico and Guatemala.

#### NEW NAMES AND NEW COMBINATIONS

The following new names and new combinations will be found in this work.

SOBRALIA WERCKLEI (*Schltr.*) *L. Wms.* on page 25.

SPIRANTHES BRACTEOSA (*A. & S.*) *L. Wms.* on page 33.

STELIS OBLIQUIPETALA (*A. & S.*) *L. Wms.* on page 54.

PLEUROTHALLIS LATERALIS *L. Wms.* on page 84.

PLEUROTHALLIS SCHWEINFURTHIANA *L. Wms.* on page 92

SCAPHYGLOTTIS GEMMA (*Reichb. f.*) *L. Wms.* on page 156.

RUDOLFIELLA PICTA (*Schltr.*) *L. Wms.* on page 188.

CHONDRORHYNCHA ALBA (*Schltr.*) *L. Wms.* on page 191.

CHONDRORHYNCHA MICROCHARIS (*Schltr.*) *L. Wms.* on page 194.

CHONDRORHYNCHA PARVILABRIS (*Schltr.*) *L. Wms.* on page 195.

CHONDRORHYNCHA STAPELIOIDES (*Reichb. f.*) *L. Wms.* on page 195.

CHONDRORHYNCHA SUBQUADRATA (*Schltr.*) *L. Wms.* on page 195.

MAXILLARIA SIMULANS (*A. & S.*) *L. Wms.* on page 207.

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