

144. *Calamus dimorphacanthus* Becc. sp. n.—Gracilis, scandens, vaginis 7-8 mill. diam., spinis inaequalibus gracilibus acicularibus, pallide-stramineis densissime armatis; frondes graciles, cirro gracili aculeato terminatae, petiolo brevissimo, rachi sub-biconvexa subtus aculeis reduncis, supra spinis gracilibus acicularibus elongatis, armata; segmenta numerosa subaequidistantia vel interrupte aequidistantia, herbacea, subconcoloria, glabra, lineari-lanceolata, parva (majora 10 cent. longa 4-7 mill. lata) superiora sensim minora, supra in costa media solitaria acuta parcissime spinulosa subtus nuda, ad margines spinulis remotis majusculis ciliata.

Philippines (Vidal No. 3956).

B.—Not scandent.

145. *CALAMUS OXLEYANUS* Teijsm. & Binn.—*C. Fernandezii* H. Wendl.—*Rotang Pajare* Griff.—*Daemonorops fasciculatus* Mart. . Malayan Peninsula; Bangka; Singapore.

GROUP XV.—*Leaves* of young plant not produced into a cirrus; of the adult shortly cirriferous. *Leaflets* lanceolate or elliptic or in any case with more than 3 primary nerves. *Leaf-sheaths* flagelliferous. *Primary spathes* elongate-tubular, narrow. *Spathellule* of fem. fl. not or very shortly pedicelliform. *Fruiting perianth* pedicelliform. *Seed* not ruminant.

146. *CALAMUS MARTIANUS* Becc.—*C. penicillatus* (not of Roxb.) Mart. Penang.

147. *Calamus myriacanthus* Becc. sp. n.—Scandens, robustus; vaginae circ. 4 cent. diam. apici crasse sublignosae, non saccatae, sensim in petiolum validum attenuatae, densissime spinis brevibus acicularibus sparsis, in dorso majoribus et subseriatis, in parte ventrali prope margines longioribus, armatae; frondes amplae, petiolo valido elongato margine aculeis reduncis subregulariter validissime armato, segmentis paucis in parte basilari subaequidistanter remote oppositis, oblanceolatis amplissimis, 40 cent. longis, 7-7.5 cent. latis, subtus cinerascentibus sed glabris nervis 7-8 in pagina inferiore prominulis et contra supra tenuibus percursis, utrinque pilis, setis aut spinulis destitutis; segmentis superioribus alternis, minoribus, apicalibus basi subdecurrentibus, 18-20 cent. longis, 2 cent. latis; spadices ♀ longissimi, spathis primariis arcte tubulosis sparse spinulosis et squamulis ferrugineis obsitis; inflorescentiis partialibus valde elongatis, spathis secundariis tubuloso-infundibuliformibus 2-3 cent. longis, dense spinulosis; spicis alternis gracilibus filiformibus usque ad 15 cent. longis; spathellis brevissime tubulosis; involucrophoro

brevissimo una cum cupula florali discoidea axi lateraliter adnato.—Ut videtur *C. asperrimo* Bl. proximus.

Borneo; Bintulu in Sarawak (Beccari P. B. No. 3698).

148. CALAMUS SPATHULATUS Becc. Malayan Peninsula.
C. SPATHULATUS v. ROBUSTUS Becc. Malayan Peninsula.
 149. CALAMUS INSIGNIS Griff. Malayan Peninsula.
 150. CALAMUS QUINQUENERVIUS Roxb. N. E. India.
 151. CALAMUS ORNATUS Bl. (type).—*C. aureus* Mart.—*C. ovatus*
 Reinw. Java.
C. ORNATUS v. HORRIDUS Becc. Malayan Peninsula.
C. ORNATUS v. MITIS Becc. Borneo.
C. ORNATUS v. SUMATRANUS Becc. Sumatra.
 152. CALAMUS GIGANTEUS Becc. Malayan Peninsula.
 153. CALAMUS SCIPIONUM Lour.—*C. micranthus* (partly) Bl.—*C.*
fissus (partly) Bl.

—Malayan Peninsula; Borneo; Billiton; Sumatra.

GROUP XVI.—*Leaves* imparipinnate, subcirriferous. *Leaf-sheaths* flagelliferous. *Spadix* contracted. *Primary spathes* tubular at the base; open, dilated and auriculiform above. *Spathellule* of fem. fl. not pedicelliform. *Fruiting calyx* not callous at the base and not pedicelliform. *Seed* with albumen deeply ruminant; *embryo* basilar, excentric.

154. CALAMUS CONIROSTRIS Becc. Malayan Peninsula.
 155. CALAMUS LOBBIANUS Becc.—*C. melanolepis* Ridley.

—Malayan Peninsula; Singapore.

156. *Calamus brachystachys* Becc. sp. n.—*Spadice* abbreviato densifloro, *spathis* primariis basi tubulosis apici auriculato-ampliatis, spinosis, spicis valde approximatis scorpioideis, fructibus in racemo ovato-elliptico congestis inter majoribus, 3.5 cent. longis, 1.5 cent. latis, basi attenuatis, apici conico-rostratis, squamis aterrimis nitentibus, apici rotundato non fimbriato et margine vix erosulodenticulato, convexis nec medio sulcatis, semine ovato utrinque attenuato-alveolato, albumine profunde ruminato, embryone basilari.
 —*C. conirostri* proximus.

Borneo; Sarawak (Beccari).

Species of Doubtful Affinities.

157. CALAMUS MANILLENSIS H. Wendl.—*C. maximus* Blanco?—*Daemonorops manillensis* Mart. Philippines.