

158. *Calamus Harmandi* Pierre MS. (nomen nudum).—Caespitosus? frondium vagina in ventre aperta spinis longis basi confluentibus et irregulariter verticillatis armata; petiolus supra profunde canaliculatus, subtus rotundatus ad margines spinis rectis horizontalibus armatus; segmenta numerosa aequidistantia approximata lineari-ensiformia utrinque subconcolora, tricostulata in pagina superiore costa media validiuscula remote setosa et costulis secundariis minute remoteque spinulosis, subtus nervis omnibus nudis, majora 30-40 cent. longa, 10-15 mill. lata, 2 apicalibus basi liberis brevioribus angustissimis; spadix erectus rigidus, spicis paucis rigidis crassis cylindraceis erectis, 10 cent. longis, undique (per series 6?) floriferis, fructibus (immaturis) parvis obovatis et apici rostratis-densissime congestis.—Species anomala floribus in spica multiseriatis insignia.

Cochinchina (Pierre No. 3359 et 1198).

159. *CALAMUS THYSANOLEPIS* Hance . . . Hong-Kong.

160. *Calamus ferrugineus* Becc. sp. n.—Caespitosus? vaginae spinis solitariis vel aggregato-subseriatis, elongato-laminaribus armatae; frondes (non cirriferae?) rachi subtus plana et aculeis brevibus in medio armata, supra acute bifaciali; segmenta aequidistantia numerosa linearia acuminatissima 27-28 cent. longa, 12-15 mill. lata, acuminatissima, apice filiformi, subtus pallidiora, supra costa media nuda, nervo laterali tenui (in utroque latere) setis nigris sparso, subtus in nervis 5 tenuibus minute setoso-spinulosa, marginibus ciliato-spinulosis; spadix (♀) rigidus breviusculus non flagelliferus undique indumento furfuraceo atro-rubiginoso indutus, spathis primariis tubulosis apicem versus parum ampliatis, dorso carinatis et aculeatis, in ore barbato-ciliatis; inflor. partialibus brevibus spicis paucis ascendentibus subscorpioideis, floribus approximatis 4-seriatis; spathis secundariis infundibuliformibus truncatis et margine ciliato-barbatis.—E congerie *C. Reinwardtii*?

Borneo (Lobb in Herb. Calc.); Sarawak (Beccari P. B. No. 563).

161. *Calamus mattanensis* Becc. sp. n.—Scandens, caudicis vaginae 12-17 mill. diam. (non flagelliferae?) spissis, sublignosis, spinis linearibus anguste lanceolatis, 10-15 mill. longis, horizontalibus, basi supra tumescentibus, subtus concavis et ad latera subdecurrentibus, spinulis minoribus intermixtis, armatae; frondes majusculae cirro elongato flagelliformi aculeato terminatae, petiolo elongato subbiconvexo vel plano-convexo marginibus et subtus aculeis reduncis robustis armato; segmenta pauca (17-18) valde inaequidistantia saepe 2-3 approximata, utrinque subnitentia, rigide et spisse char-

tacea, viridi-lutescentia in sicco, lineari-ensiformia, subabrupte acuminata, majora 32-38 cent. longa 2-3 cent. lata, striato-plicato-subquinquenervia, costa media acuta, nervis lateralibus utrinque tenuibus et nudis, marginibus remote et minute tuberculato-spinulosis.

Borneo; Sarawak (Beccari P. B. Nos. 1909, 1930).

162. CALAMUS RALUMENSIS Warb. Bismarck Archipelago.
 163. CALAMUS LONGEPINNA Lauterbach New Guinea.
 164. CALAMUS WARBURGHII K. Schum. New Guinea.

Of the three last recently described species I have seen no specimens.

Doubtful, Imperfectly Known or Unrecognized Species.

- C. HUMILIS Roxb. = *C. latifolius* Roxb? . . . Chittagong.
 C. EXTENSUS Roxb. Silhet.
 C. PENICILLATUS Roxb. = *C. javensis* Bl? . . . Penang.
 C. POLYGAMUS Roxb. = *C. flagellum* Griff.? . . . Chittagong.
 C. GRAMINOSUS Bl. Amboina.
 C. EPETIOLARIS Mart. Java.
 C. DISCOLOR Mart. = *C. siphonospathus* Mart.? . . . Philippines.
 C. CURAG Blanco Philippines.
 C. MARITIMUS Bl. Java.
 C. VIMINALIS v. REPENS Bl. Buru.
 C. MEYENIANUS Schauer = *C. mollis* Blanco? . . . Philippines.
 C. AMARUS Lour. = *C. tenuis* Roxb.? . . . Cochinchina.
 C. METZIANUS Schl. = *C. rivalis* Thw.? . . . S. India.
 C. VERUS Lour. = *Daemonorops* sp.? . . . Cochinchina.
 C. PULCHER Miq. Borneo.

Horticultural Names of Calamus or Excluded Species.

- C. AMERICANUS = *Desmoncus americanus* Steud. nom.
 C. ASPERRIMUS (not of Bl.) Hort.
 C. BUROENSIS Mart.
 C. COCHINCHINENSIS Hort.
 C. CUSPIDATUS Mann & Wendl. = *Eremospatha*.
 C. CINNAMOMEUS Hort.
 C. DEALBATUS Hort. = *Acantophoenix rubra* Wendl.
 C. FARINOSUS Hort.
 C. GRANDIFLORUS Pal. de Beauv. (Steud. nom.) = *Ancistro-
 phyllum secundiflorum*?
 C. HOOKERII Mann & Wendl. = *Eremospatha*.