

33. *Calamus spinilifolius* Becc. sp. n.—Gracilis; frondium segmenta inaequidistantia, 2 apicalia basi breviter connata lateralia saepe geminata, omnia convexa, oblonga vel oblanceolata, 10-12 cent. longa, 2.5-3.5 cent. lata, basi attenuata, apici abrupte acuminata, glabra, utrinque viridia subconcolora, costulis 5 subtus nudis, supra spinulis acicularibus remotis rigidis erectis, 4-8 mill. longis, conspicue armata.

Philippines (Vidal No. 3954).

34. *CALAMUS FILIPENDULUS* Becc. Malayan Peninsula.

35. *Calamus gonospermus* Becc. sp. n.—Scandens; caudices digiti crassitiae, vaginis flagelliferis, spinis rectis breviusculis armatis; frondes breves (circ. 50 cent. long.) petiolo breviusculo redunco-aculeato, segmentis perpauca (6) duobus apicalibus alte connatis, oblongo-lanceolatis vel oblanceolatis, concaviusculis 20-22 cent. longis, 45-55 latis; basi attenuatis, apici abrupte in caudiculum linearem ciliato-spinulosum 2 cent. longum attenuatis, utrinque viridibus, costulis 5 utrinque nudis percursis, marginibus quoque nec ciliatis nec spinulosis; spadicis ♀ spathae primariae arcte tubulosae, aculeatae, ore truncato integro; spicae paucae abbreviatae scorioideae, floribus unilateralibus congestis; fructibus majusculis late ovato-ventricosis, basi attenuatis apice conico acuto, squamis convexis latis, basi stramineis margine et apice atro-castaneo apicalibus nigrescentibus; seminibus irregulariter globosis et acute angulosis; albumine aequabili.

Borneo; Sarawak (Beccari P. B. No. 23).

36. *CALAMUS MUELLERII* H. Wendl. Australia.

37. *CALAMUS CARYOTOIDES* H. Wendl. Australia.

◎ ◎ *Spathellule* shortly pedicelliform. Fruiting calyx pedicelliform.

38. *CALAMUS CUTHBERTSONII* Becc. New Guinea.

B.—Leaves usually with few inequidistant elongate leaflets, the two terminals shortly connate at the base. Fruiting calyx spreading, not callous at the base or pedicelliform. Secondary spathes, spathels and spathellules conspicuously scabrid.

39. *Calamus ruvidus* Becc. sp. n.—Scandens; vaginae spinis validis brevibus (majoribus 4.5 mill. long.) ad basin inflatis subtus concavis armatae adjectis costulis transversalibus prope apicem crebrioribus. Frondium (circ. 50 cent. long.) petiolus breviusculus subtus aculeis reduncis armatus; segmenta perpauca (3 in utroque latere) irregulariter alterna, 2 apicalia breviter basi connata, lanceolato-elliptica abrupte apiculata 24-25 cent. longa, 4-5 cent. lata

3-4-costulata, lateralibus angustioribus et longioribus, anguste oblanceolata, supra acute 3-costata, utrinque viridia, nitida et nuda; spadix breviusculus (60 cent.) apice breviter caudatus; spathae primariae tubulosae, apici exsuccae et lacerae in dorso aculeatae, inflorescentiae partiales patentes, majora 20 cent. longa, spicis utrinque numerosis alternatim distiche horizontalibus vermicularibus; spathis secundariis elongatis tubuloso-infundibuliformibus tuberculato-scabridis; spathellis brevissimis scaberrimis; fructibus parvis, sphaericis (immaturis 7 mill. diam.)

Borneo; Sarawak (Lobb in Herb. Kew).

40. *Calamus scabridulus* Becc. sp. n.—Frondium rachis supra acutissima bifacialis, subtus aculeis validis reduncis solitariis apice nigris armata; segmenta numerosa subaequidistantia remotiuscula, anguste lanceolato-ensiformia acuminata, basi attenuata utrinque viridia et subnitentia, supra in costulis 3 acutis spinosula, subtus secus nervos primarios 3 tenues parce spinulosa, marginibus fere nudis, majora 40-45 cent. longa, 2-2.5 cent. lata, 2 apicalia paulo latiora sed breviora et basi breviter connata; spadicis infl. partiales valde elongatae; spathis secundariis scabrido-aculeatis; spicis reflexis, spathellis brevissimis tuberculoso-hispidulis.—*C. ruvido* affinis.

Billiton (Riedel) and probably also in Borneo (Motley in Herb. Kew).

41. CALAMUS MURICATUS Becc. Borneo.

42. CALAMUS ZONATUS Becc. Borneo.

C.—As in B., but leaflets numerous, equidistant; spathes, spathels and spathellules conspicuously scabrid.

43. CALAMUS RADULOSUS Becc. Malayan Peninsula.

44. CALAMUS RUGOSUS Becc. Malayan Peninsula.

D.—Leaflets many, narrow, often fascicled; spathes, spathels and spathellules smooth or more or less aculeate but never scabrid. Fruiting calyx explanate.

45. CALAMUS VIMINALIS Willd. (type)—*C. buroënsis* (partly) Mart.—*C. litoralis* Bl.—*Palmajuncus viminalis* Rumph.

—Java.

C. VIMINALIS v. FASCICULATUS Becc.—*C. fasciculatus* Roxb.—*C. extensus* (not of Roxb.) Mart.—*C. pseudo-Rotang* Mart.

—Bengal; Burma; Tenasserim; Pinang; Andaman Islands.

46. *Calamus siamensis* Becc. sp. n.—Caudex scandens digiti crassitiae, vaginis spinis longiusculis solitariis vel confluentibus