cirrus on the leaf, but the Singapore specimen which has somewhat older leaflets bears a very thin, filiform hooked prolongation at the apex. The lowermost spathe (secondary spathe) of the partial inflorescence in the type specimen bears also stout recurved spines, a fact which makes me surmise that the spadix in this species is flagelliform.

17. Calamus tenompokensis Furtado spec. nov.

Caudex scandens vel semiscandens, circ. 5 m. longus, sine vagina circ. 1 cm. in diam. Frondis *vagina* flagello carens (semper?), sensum in petiolum transiens, in parte superiore ventrali longitudinem secus breviter aperta, aculeis plus minus in seriebus transversalibus dispositis, valde applanatis, tenuibus, patentibus, cinnamomeis ad 2 cm. longis armata, decidue ferrugineofurfuracea. *Ochrea* brevissima, aculeis rigidis armata, in speciminibus junioribus lobis papyraceis caducis, 8-10 cm. longis ornata. *Frondes* cirrho carentes, cum petiolo 1-1.50 m. longæ, utrinsecus segmentis 6-9. *Petiolus* circ. 80 cm. longus, subtus convexus, aculeis robustis, solitariis vel confluentibus, patentibus vel reflexis, dispersis armatus, supra glaber, paulo concavus; *rhachis* aculeis solitariis, rarissime confluentibus, recurvatis subtus armata, circ. 50-70 cm. longa. *Segmenta* distantia, circ. 30 cm. longa, 4.5-5 cm. lata, inferiora alternantia, robuste-papyracea, lato-lanceolata, maxima latitudine in dimidia vel supra sita, basi attenuata, plicata, apicem versus subito vel potius sat subito acuminata, ad margines parce spinulosa, utrinque glabra, 5-7-stulata, nervulis transversis distinctis; terminalia ad 2/3 confluentia, sequentia ambo opposita vel sub-opposita, jugo terminalio valde approximata. *Spadix foemineus* fronde minor, apice sæpe flagelliformis, ramis secundariis patentibus, fructiferis 5-7 cm. longis. *Spathae* primariæ basin versus spinulosæ, in parte basilare tubulosæ, ad ramorum basin in lobos liberos exeuntes, longitudinem secus irregulariter fissæ, primariæ et secundariæ decidue ferrugineo-furfuraceæ. *Rami primarii et secundarii* ad spatharum orificium orientes. *Spathelae* truncatæ, furfuraceæ. *Involucrophorum* sessile; involucrum calyculiforme. *Perianthium* explanatum, calyx quam corolla duplo vel subduplo brevior. *Fructus* ovoideus vel ellipsoideus utrinque rotundatus, apice in rostrellum 0.2 cm. longum abrupte productus, sine rostrello circ. 0.9 cm. longus, 0.7-0.8 cm. in diam. *Squamae* stramineæ, apice fuscæ, seriebus 18-21 verticalibus imbricatæ. *Semen* ambitum ellipsoideum, utrinque rotundatum, fovea chalazali laterali, nonnihil lateque impressum, ceterum applanatum, superficie sulcis latiusculis a fovea radiantibus pertensa, 0.7 cm. longum, 0.5 cm. latum, 0.4 cm. crassum. *Albumen* æquabile. *Embryo* in latere opposito proxime basin situs.

Planta mascula in frondibus ut fœminea. *Spadix* circ. 75 cm. longus, ramis primariis 5-7. *Spathae* et spathellæ ut fœmineæ. *Spiculae* graciles, circ. 4.5-6 cm. longæ, utrinsecus floribus circ. 15-20, distichis, alternantibus, valde approximatis. *Involucrophorum* sessile. *Calyx* tubulosus, trifidus, quam corolla 0.4 cm. longa subtriplo brevior.

BRITISH NORTH BORNEO: Kinabalu Mts: at *Tenompok,* towards Lumu Lumu, alt. circ. 5,500 feet (legit Furtado, comm. Clemens sub. no. 28408, female plant. Type in Singapore). *Ibid,* alt. circ. 4,500 feet (leg. Furtado, comm. Clemens sub. no. 29203, Male). *Ibid* towards Dallas, alt. circ. 4,000 feet (Clemens, no. 27339, male); *ibid,* alt. circ. 5,000 feet (Clemens, no. 27899, male).

This species belongs to Beccari's *Group VI* and is closely related to *C. myriacanthus* Becc which, however, has free apical leaflets, rusty scales on its petiole, rachis, and spathe and only rudimentary thorns or none at all on the spadices. The male spikelets in *C. myriacanthus* are also very much shorter. *C. ramosissimus* Griff. also bears some resemblance to *C. tenompokensis,* but the former is distinguished from the latter by its more numerous, leaflets, and by its leaves terminating into 3 (not 4) leaflets which are, moreover, always free to the base, whereas the two terminal leaflets in the other species are always connate.

INDEX TO THE COLLECTORS' NUMBERS

The Roman number following a collector's number indicates the species bearing that number in this paper. Thus "Clemens 26,496-XVI" means that the specimen bearing Clemens no. 26,496 is quoted under *Calamus stramineus.*

BURKILL—s.n. (from Pulau Tioman)—II.
BURKILL AND HANIFF—13,446-VI; 13,451-VI.
BURKILL AND HOLTTUM—8,807-XI.
CLEMENS—26,496-XVI; 27,009-XVI var; 27,010-XVI; 27,339- and 27,899-XVII; 28,375-XV; 28,408-XVII; 28,566-XV; 28,650-XV; 28,844-XV; 29,195-VIII; 29,198 and 29,198a-IV; 29,203-XVII.
HANIFF—14,252-VI; 15,910-X; (Langkawi) s.n.-X.
HENDERSON—18,465-II.
HOLTTUM—10,974-XI; 15,211-II.
KJELLBERG—2,367-IX; 2,398-VII; 2,649-I.
MOORHOUSE—(from Kuala Pilah) s.n.- XI and XII.
NUR—11,130 and 12,188-XI.
RAMOS—1,400 and 1,788-XIV.
RIDLEY—(from Matang) s.n.-III; 9,207- and 9,814-XI; 11,215-V; 11,987-XI; 12,118-XII; 13,921-VI.