

lobed cup in which loosely sits the 3 introrse petals inclosing the conic more or less 3-lobed ovary on which the 3 spreading or reflexed prominent stigmas are sessile; staminate spadix and fruit not seen.

North rim of El Valle de Anton, Province Coclé, *Allen 1909.*

† *Chamædorea lucidifrons*, spec. nov. Fig. 127.

Gracilis, 2.5 m. alta: lamina 40-50 cm. et plus longa, lucida et glabra; rachis convexa in latere dorsali, carinata in latere superiore; pinnæ 30-35 cm. longæ, 6-9 cm. latæ, lanceo-oblongæ et prominenter sigmoideæ, angustatæ ad longum acumen vel caudam, 7-15 conspicuis costis 4-10 mm. inter se distantibus in medio et curvatis ad angustam basim: pistillata spadix simplicibus ramis, rachis brevis, circa 22 cm. longa et pæne 22 cm. lata; rachillæ 10-20 cm. longæ, glabræ, divaricatæ vel arcuato-ascendentes: fructus brevi-oblongus, obtusus, 5-6 mm. longus, 4-5 mm. crassus, non profundis rugis cum siccis; cupula brevis, lobi patuli.

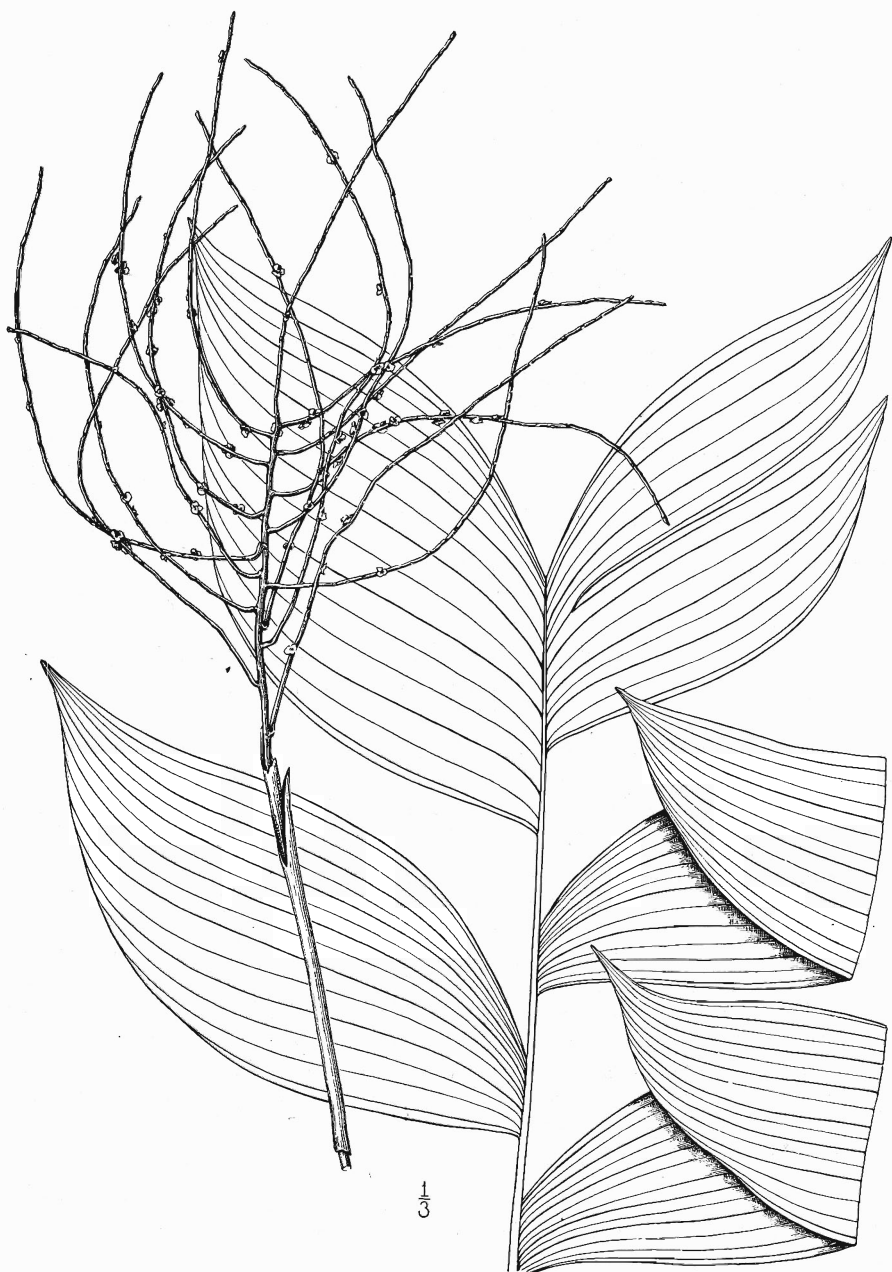
Slender, 2.5 m. tall: leaf-blade 40-50 cm. and more long, glossy and glabrous, with several very broad strongly ribbed alternate pinnæ; rachis convex on the back, lightly ridged on upper face; pinnæ 30-35 cm. long, 6-9 cm. broad, lance-oblong and strongly sigmoid, tapering to narrow point or to a cauda, with 7-15 conspicuous costa standing 4-10 mm. apart at the middle and prominently curved to the narrowed base, lucid particularly on the lower face: pistillate spadix once-branched from a short rachis, about 22 cm. long and nearly as broad, the glabrous rachillæ 10-20 cm. long and divaricate or upwardly curved: fruit small, short-oblong, obtuse, 5-6 mm. long, 4-5 mm. thick, irregularly and shallowly wrinkled in drying; cupule small, the lobes spreading.

Vicinity of El Valle de Anton, Province Coclé, altitude about 600 m., *Allen 1814.*

† *Chamædorea latipinna*, spec. nov. Fig. 128.

Tenuis, 1 m. alta, folia glabra et lucida: lamina 30-50 cm. longa, pinnata, 2 lobi apicales latissimi et confluentes, aliæ pinnæ paucæ et alternæ; rachis gracillima, complanata, 2-3 mm. lata, carinata supra; pinnæ 25-30 cm. longæ, 10-13 latæ, persigmoideæ, abrupte contractæ ad breve acumen, basis latissima, multis validis curvisque costis 1 cm. vel plus inter se distantes, venæ intermediæ minus distinctæ, omnes basi pinnæ curvæ: spadix staminata simplicibus ramis a plus vel minus continuente rachide, 25-30 cm. longa et lata, rachillæ 18-25 cm. longæ et laxè floriferæ; flores staminati lato profunde lobato calyce; pistillata spadix aliquid minor quam staminata, circa 20 cm. longa et lata: fructus immaturus oblongus, contractus basi, obtusus, 10-12 mm. longus.

Slender, 1 m. tall, with smooth glossy foliage: leaf-blades 30-50 cm. long, pinnate, apical part with 2 very broad confluent lobes, other pinnæ alternate, few in number; rachis very thin and flattened, 2-3 mm. broad, ridged on top; pinnæ thin, 25-30 cm. long, 10-13 cm. broad, strongly sigmoid, rather abruptly contracted to a short point, base very wide, conspicuous because of several or many curved strong ribs 1 cm. or more apart and less distinct ones between: spadices once-branched from a more



128. DIFFUSE RACHIS, LEAF of *Chamædorea latipinna*.

or less continuing central axis; peduncle 25 and more cm. long, its length inclosed in striate sheaths; staminate spadix 25-30 cm. long and nearly as broad, the glabrous rachillæ 18-25 cm. long and laxly flowered; staminate flowers with broad deeply lobed lightly imbricate calyx; pistillate spadix somewhat smaller, the fertile part about 20 cm. across in either direction: fruit (immature) oblong and contracted to base, obtuse at apex, 10-12 mm. long, green in color.

Vicinity of Chiriqui Lagoon, Province Bocas del Toro, *H. von Wedel* 2275 (Mo. Bot. Gard.).

† *Chamædorea Hageniorum*, spec. nov. Fig. 129.

Parva, arboriformis, 1-1.5 m. alta, glabra, folia aliquid lucida: folia pinnata; lamina 35-40 cm. longa, 25-30 cm. lata; pinnæ alternæ, 5 vel 6 in utrisque lateribus, anguste oblongo-lanceolatae, longi-acuminatae vel alternæ, non sigmoideæ, 15-20 cm. longæ, 2-4 cm. latæ, 5 vel 7 pæne æqualibus nervis parallelis: spadix pistillata circa 3 brevium rachillarum ab apice gracilis pedunculi vaginati; sepala pistillati floris brevia, connata basi; petala multo majora, pæne vel admodum libera, imbricata, valde nervata, patula; pistillum oblongum, obtusum.

Tree-like, to 1 m. or a little more tall, glabrous, foliage more or less glossy: leaves regularly pinnate, the blade 35-40 cm. long and 25 or more cm. broad; pinnæ alternate, 5 or 6 on either side, narrowly oblong-lanceolate and gradually narrowed into slender tips, 15-20 cm. long, 2-3 cm. broad at middle or the terminal pair to 4 cm. broad, midrib not much stronger than the 2 or 3 parallel nerves on either side, all nerves converging somewhat toward base but the pinna not sigmoid; petiole 12-18 cm. long above the sheath, strongly ridged and angled as is the rachis: pistillate spadix small, of about 3 striate and angled erect glabrous rachillæ 7-8 cm. long from the top of a very slender peduncle that is inclosed tightly in about 3 sheaths of which only the uppermost has a foliaceous end; sepals of pistillate flower very short and connate at base; petals much larger, nearly or quite free, imbricate, strongly nerved, pointed, soon spreading and chaff-like; pistil after fecundation short-oblong, obtuse.

Cloud-forest at 6,500 feet on Cerro Horqueta, Boquete region of Chiriqui, Panama, *Christine and Wolfgang von Hagen* 2060 (type, Mo. Bot. Gard.). Readily distinguished by its narrowly long-pointed or almost caudate leaflets and prominent loose petals of the pistillate flower as well as by the short few branchlets of the inflorescence and lack of continuing rachis.

† *Chamædorea Wedeliana*, spec. nov. Fig. 130.

Gracillima, ad 3 m. alta: laminæ folii 40-50 cm. longæ, tenues, lætévirentes supra et infra, bilobatae apice et lobi imperfecte divisi; pinnæ alternæ, 3-9 cm. distantes inter se in rachide, lanceolatae vel lato-lanceolatae, sigmoideæ, 16-22 cm. longæ, 3-6 cm. latæ, aliquid angustatae ad basim, graciliter acuminatae, valde 4-5-costatae; petiolus 6 vel 7 cm. longus super vaginam, 3-4 mm. latus, compressus: florens spadix 5 ramis, simplex,