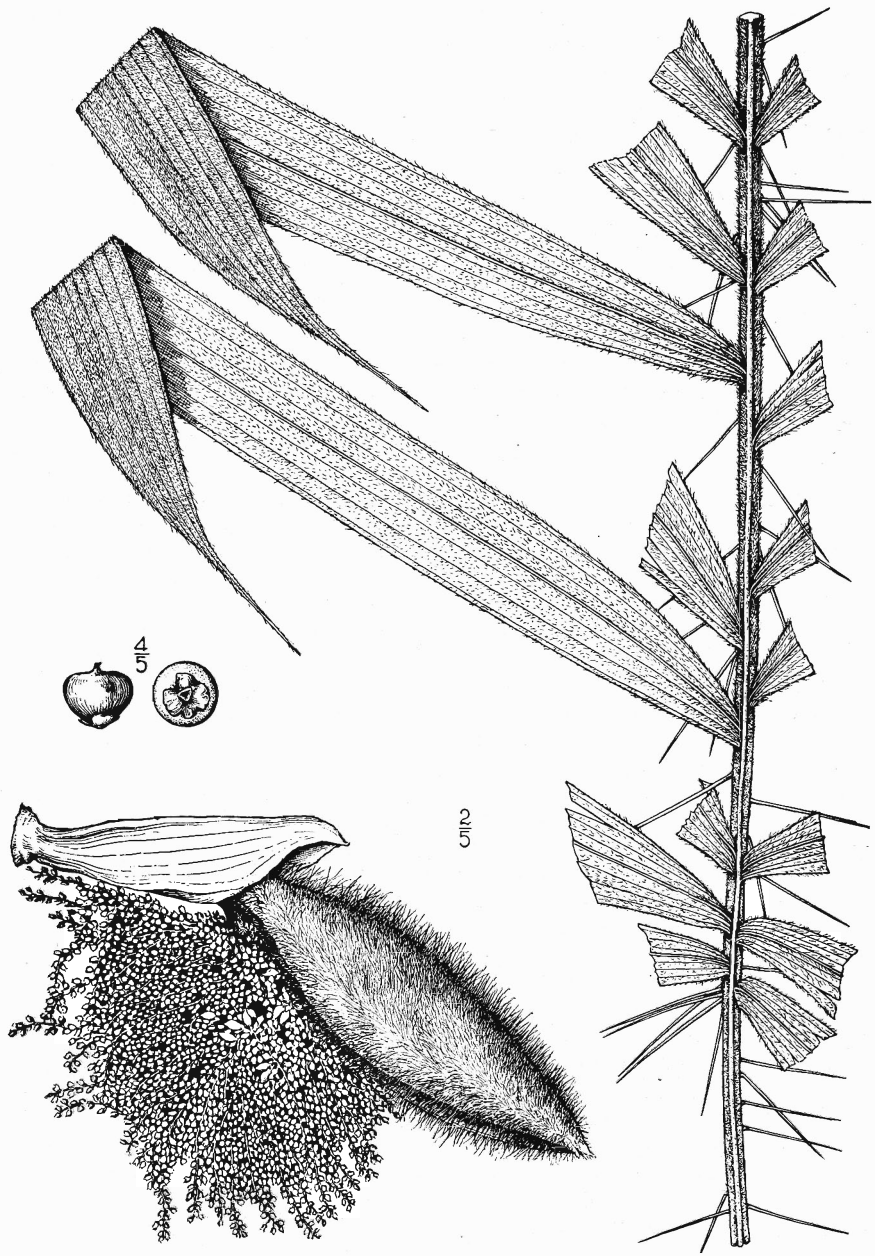

118. PILOSE LEAF, SPINY RACHIS, FLOWERING SPADIX AND SPATHE of *Bactris Alleniana*. Fruit, one at right showing cupule.

† **Bactris Alleniana,** spec. nov. Fig. 118.

Arundinacea, aliquid gregaria; truncus 3 m. altus, 2.5 cm. crassus, nodi circa 6–8 cm. inter se distantes, spinæ graciles, dispersæ, 1–2 cm. longæ: folia 1.5–2 m. longa, regulariter pinnata, conspicue aureo-hirsuta supra et infra et in rachide; pinnæ oppositæ et alternæ, 30–40 cm. longæ, 3–4 cm. latæ, apex caudatus, costa media et aliquot nervi laterales inermes; rachis albescentibus spinis 2–5 cm. longis: cymba 15–20 cm. longa, tecta fuscis pilis 1 cm. vel plus longis; fructifera spadix densa, circa 10 cm. longa et lata: fructus oblatus, 10–12 vel 14 mm. latus, planum in culmine, rostrum prominens, inerme et glabrum; cupula non profunda, lobi pauci et obtusi.

Trunks few to several, 3 m. tall and about 2.5 cm. thick at base, arundinaceous or cane-like, the prominent nodes about 6–8 cm. apart, with scattered very thin spreading spines 1–2 cm. long, canes pithy in cross-section: mature leaves 3–4 at apex of each cane, 1.5–2 m. long, soft or thin in texture, evenly pinnate, both surfaces and rachis conspicuously hirsute and exposing a golden glint in sunlight; pinnæ opposite and alternate, 30–40 cm. long, 3–4 broad, apex produced into a very slender tail-like extension, midrib not very prominent and attended on either side by 3 or 4 strong side-nerves, hairs numerous but particularly prominent on veins underneath, spineless; rachis very hirsute and bearing many light colored white-based spines 2–5 cm. long and which may be somewhat longer and more conspicuous on the petiole; leaf-sheaths conspicuously long, tightly clasping the cane, armed with both dark colored and light colored weak spines: cymbas or spathes attached among old leaf-bases on under side of crown, 15–20 cm. long, very densely woolly with tawny hairs 1 cm. and more long, the small outer or primary cymba little or not at all hairy; flowering spadix dense, about 10 cm. across either way, with very many slender rachillæ; staminate flowers pedicelled: fruit oblate, 10–12 or more mm. across, flat on top, beak prominent, unarmed, glabrous, striate; cupule shallow, with few obtuse lobes.

Hills north of El Valle de Anton, Province Coclé, elevation about 700 m., *Allen 1804*, *2574* (type), *2951*, in deep shade.

† **Bactris fuscospina,** spec. nov. Fig. 119.

Gracilis, arundinacea, 3 m. alta; truncus 1.5–2 cm. crassus, nodi circa 5 cm. inter se distantes, internodi pæne vel admodum nudi, spinæ fere brunneo-atræ et 2–3 cm. longæ: folia 1 m. et plus longa, irregulariter pinnata, lucida, glabra; petiolus armatus latis, fuscis, reflexis fusco-acuminatis spinis 4–4.5 cm. longis; pinnæ 12–16 in utroque latere rachidis, alternæ et vacuis spatiis, 20–25 cm. longæ, 2.5–9 cm. latæ, juga terminalis latissima, conspicue multi-costata et transverso-venata, margines inermes, apex acuminatus et interdum brevi-caudatus: cymba 15–20 cm. longa, tecta fuscis spinis 2 cm. vel minus longis; fructifera spadix 10 cm. longa et lata: fructus (immaturus) oblongo-conicus, prominenter rostratus, glaber; cupula 5 mm. alta, sepala pæne separata et striata, petala urceolata et setosa.

Slender, leafy, arundinaceous, 3 m. tall; trunk 1.5–2 cm. thick, pithy, nodes about 5 cm. apart and usually spiny on at least one side, internodes