

retrorsi et divergentes, 3-4 cm. longi: spatha 20-30 cm. longa, lata plana-que, sparsis aculeis late dispersis 3-7 mm. longis sine crassa basi alba.

Vigorous major climber, glabrous except that the petiole and rachis may be more or less furfuraceous but soon becoming bare: pinnæ opposite or subopposite, broad, 15-20 cm. long and 4-6 cm. broad, narrowed to apex but not attenuate-acuminate, with several or many side-veins, nude or bearing 3-5 spines 2-4 cm. long near base and on rib, petiole and rachis carrying flattened spines 4-6 cm. long and intermediate smaller ones; cirrhous whip bearing 5 or 6 pairs of thick-based retrorse hooks about 3-4 cm. long: spathe or cymba 20-30 cm. long, flat and broad at maturity when pressed, the spines 3-7 mm. long and widely scattered so that they may be 5 mm. apart, the base scarcely thickened or white; flowers well separated, the pistillates 3-5 mm. apart and 2-3 mm. long: fruit ellipsoidal, nearly or quite 2 cm. long, one-half as thick, equally tapered both ways to a brief point, brown.

Trinidad, distribution not made out, probably general; Mayaro, *Bailey 619a* (type); Arena road, *Bailey 305*; Caroni, *Bailey 311*; Balandra Bay, *Brittons & Hazen*; Point Radix, *Swabey*. The species is dedicated to the memory of J. H. Hart, F.L.S., Superintendent of the Botanical Department, Port-of-Spain, author of *Herbarium List*, 1908; some of my material, "arranged by J. H. H." as *Desmoncus major*, is the species now under discussion.

†3. *Desmoncus Brittonii*, spec. nov. Fig. 154.

Gracilis, ad 10 m. altus: pinnæ 6-8 paribus, oppositæ vel suboppositæ, angustæ, 20-30 cm. longæ et 2-3 cm. latæ, anguste longo-acuminatæ, aculei 1-3 subtus, petiolus validis aculeis 3-6 cm. longis, unci maxime validi et basi lata, 5-6 cm. longi: spatha 30 cm. vel plus longa, lata et dense armata spinis ad 15 mm. longis fere basi alba crassaque: fructus ovoideo-oblongi, fastigati ad acumen, 17 mm. longi.

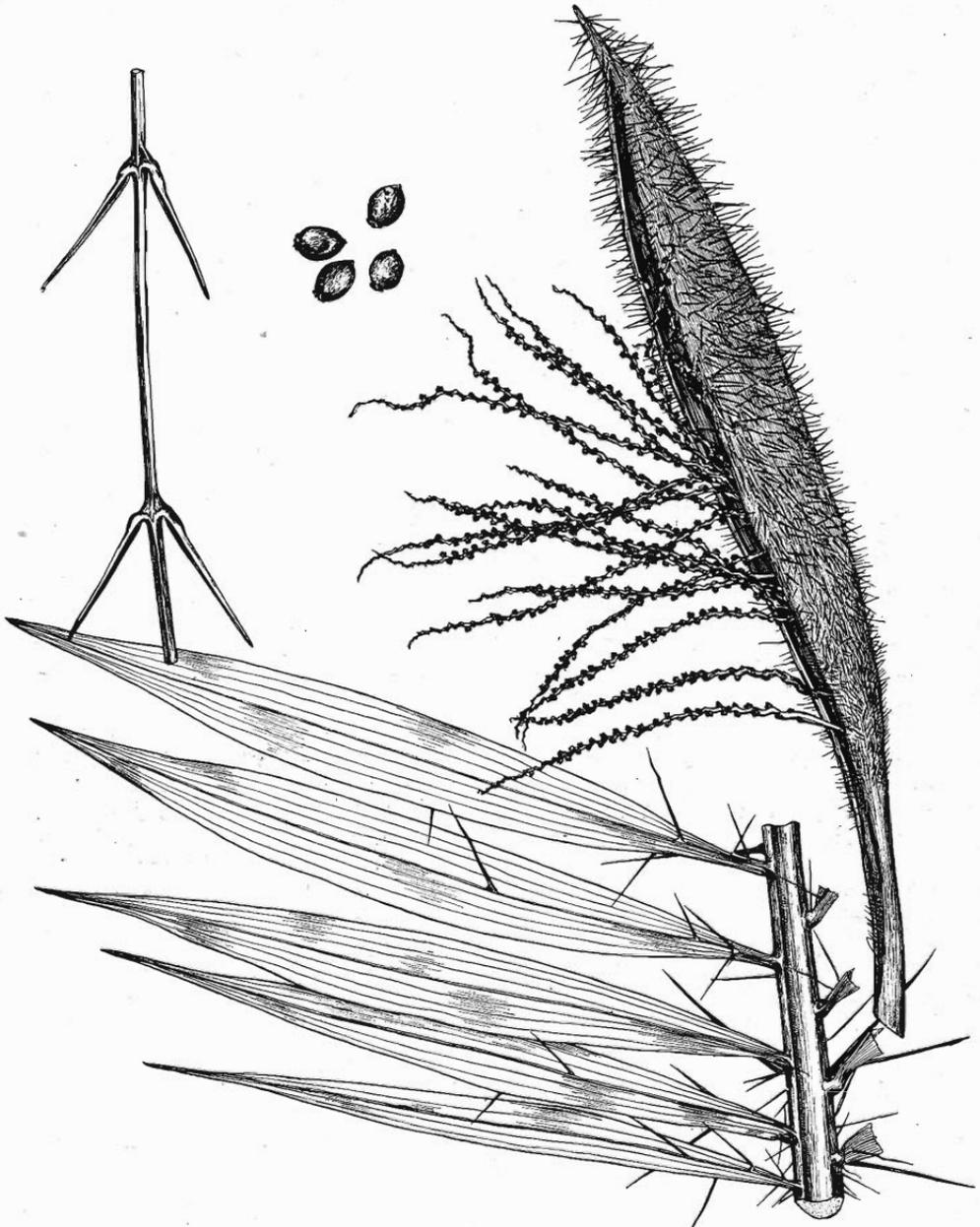
Slender tall plant to 10 m. long, glabrous unless furfuraceous on petiole and rachis: pinnæ opposite or subopposite, narrow, 20-30 cm. long by 2-3 cm. broad at middle, strongly side-nerved, narrowly long-acuminate, with 1-3 prickles on midrib underneath, petiole with stout prickles 3-6 cm. long; cirrhous whip bearing pairs of retrorse-divaricate broad-based hooks to 6 cm. long: spathe or cymba 30 cm. or more long, heavily armed with spines to 15 mm. long most of which have conspicuous thickened white base: dry fruit ovoid-oblong and tapering to point, 17 mm. long by 9 or 10 mm. thick.

Thicket at Pointe-a-Pierre, *N. L. Britton 1035* (1920); in thickets along Arena Road, *Bailey 172* (type).

†4. *Desmoncus tobagonis*, spec. nov. LATTAN. Fig. 155.

Maxime validus vigorosusque: pinnæ oppositæ, latæ, brevi-acutæ, 20-30 cm. longæ, 4-6 cm. latæ, nudæ vel 1 vel 2 spinis, petiolus rachisque spinis rigidis 4-6 cm. longis, unci 3-4 cm. longi, recte reversi: spatha 30 cm. vel plus longa, lata, plana, crasse obsita aculeis brevibus basi crassa albaque: fructus brevi-oblongi, 12 mm. longi, 6 vel 7 mm. lati, rotundati apice.

Stout and very vigorous climber, boles clustered together, the long leaf-sheaths densely covered with upward-pointing prickles of many lengths from 1 mm. to 2 or 3 cm.: pinnæ opposite or essentially so, broad and not elongated and point short, 4-6 cm. broad and 20-30 cm. long, many side-ribbed particularly underneath, either nude or bearing 1 or 2 stiff spines on rib or lower face, petiole and leaf-rachis carrying stiff strong spines



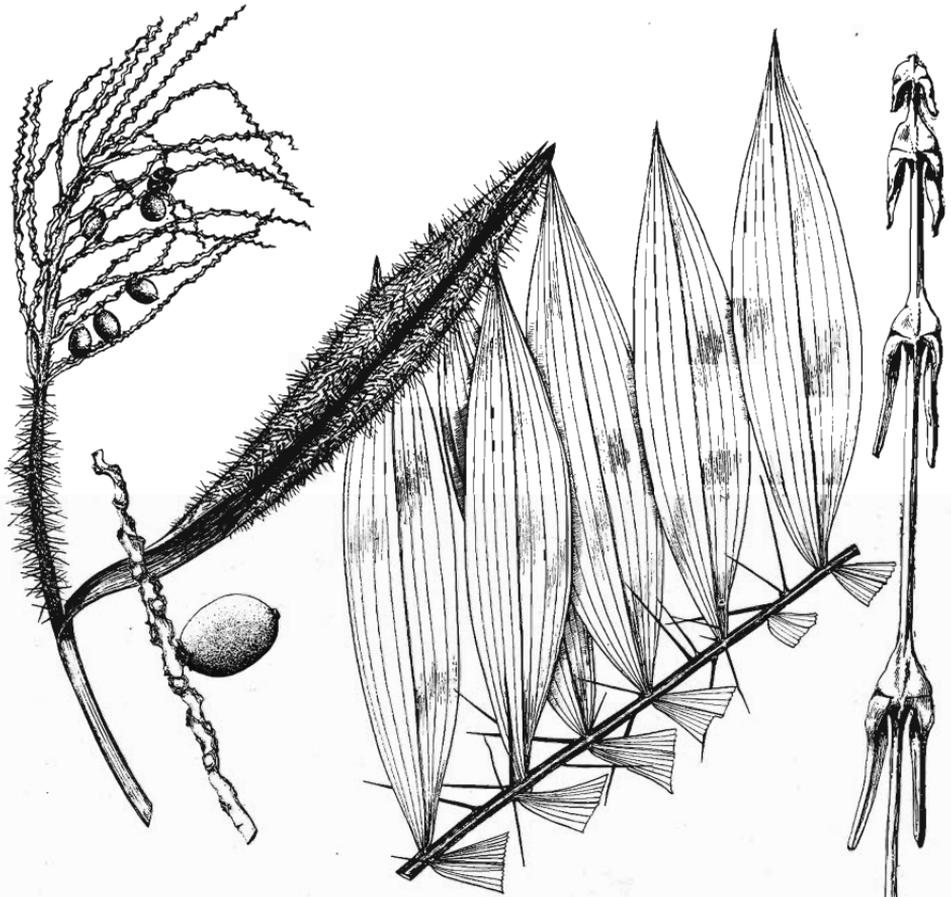
154. *DESMODIUM BRITTONII*; pinnæ, whip, spathe and inflorescence, fruits, all  $\times \frac{1}{3}$ .

4-6 cm. long; cirrhous whip long but stout and stiff, the hooks 3-4 cm. long, bent straight backward and with thick hard woody bases: spadix 15-20 cm. long, spathe to 30 cm. or more long and thickly covered with rather short prickles most of which have a conspicuous white base; flowers yellow and fragrant: fruit short-oblong, about 12 mm. long, 6 or 7 mm. thick, rounded or blunt at apex except for a very small short central point.

Tobago, at Mile End, *Broadway 4077*. A sheet collected at Rockley Vale, Tobago, *Broadway 3498*, may be this species although the pinnæ are narrow and the spathe small.

†5. *Desmoncus peraltus*, spec. nov. Fig. 156.

*Gracilis, peraltus, ad 14 m.*: pinnæ tenues, parvæ angustæque, fere alternatæ, 15 cm. longæ, 2-3 cm. latæ, longo-acuminatæ ad apicem basinque, unci fere oppositi, graciles, 2-3 cm. longi, unci breves in axe subtus: spatha longa angustaque, 20 cm. vel plus longa, pæne cylindrata sed 2-2.5 cm. lata cum aperta, obsita aculeis crassis sæpe basi alba: fructus globulares vel brevi-oblongi, 10-12 mm. longi, obtusi apice.



155. *DESMONCUS TOBAGONIS* of Tobago; foliage, whip (at right), spathe and spadix, fruit.  $\times \frac{1}{3}$ .