

Revision of the Genus *Pandanus* Stickman, Part 22
A New Species (Section *Hombronia*) from New Caledonia

HAROLD ST. JOHN¹

NUMEROUS BOTANISTS in the tropics of the Pacific and of the eastern hemisphere have assisted the writer by making new collections of *Pandanus*. The new species here announced is named in honor of one of these coöperators, Prof. H. S. McKee of the University of Sydney.

Pandanus Mc-Keei sp. nov. (sect. *Hombronia*)
Figs. 238–239

DIAGNOSIS HOLOTYPI: Arbor 5 m alta ramosa, radicibus fulturosis nullis, foliis 1.5 m longis proxima basem 7.2 cm latis in medio 6.5 cm latis coriaceis supra obscure viridibus infra pallide viridibus basi rubra ligulatis gradatim ex media ad apicem diminuentibus, basi paene latiore exarmata sed ex 11–12 cm marginibus cum aciculato-serris 1–1.5 mm longis 1–5 mm distantibus eis in puncto nigro, midnervo toto exarmato, circa medim marginibus cum serris nigris 0.3–0.5 mm longis 2–6 mm distantibus, circa apicem marginibus cum dentibus nigris crenulatis 0.1–0.3 mm longis 1–3 mm distantibus; pedunculo folioso, syncarpio solitario apicali 36 cm longo 17 cm diametro anguste oblongo-ellipsoideo cum circa 286 phalangibus ordinatis in helicis et sereis verticalibus, phalangibus 4.2–4.6 cm longis 2.4–3.1 cm latis 1.5–2 cm crassis rubro-brunneis sed intra pallide luteis elliptico-oblongis in medio subcontractis parte supera $\frac{1}{4}$ libera apice concavo in sicco brunneis, lateribus minime curvatis et cum fissuris multis brunneis longitudinalibus, 5–6-angulosis, suturis lateralibus nullis, carpellis 5–7 in plano unico laterali ordinato, stigmatibus 1.5–2.6 mm latis brunneis cordatis vel obliquiter cordatis in latere ad apicem syncarpium obtutis, endocarpio in parte $\frac{3}{4}$ infera et 12–14 mm longo osseoso brunneo lateribus 3–4 mm crassis, seminibus 6–8 mm longis 2–3 mm diametro ellipsoideo, mesocarpio caverno unico 25 mm longo pluri-fibroso et cum membranibus albis

medullosis formanti, mesocarpio basali fibroso et cavernoso 3–6 mm longo.

DESCRIPTION OF HOLOTYPE: Tree 5 m tall, branched several times; prop roots none; leaves 1.5 m long, 7.2 cm wide near the base, 6.5 cm wide at the middle, coriaceous, dark-green above, light-green below, base red, ligulate, gradually tapering from the middle to the apex, the base scarcely widened, unarmed, beginning at 11–12 cm the margins acicular-serrate, the teeth 1–1.5 mm long, 1–5 mm apart, black-tipped; the midrib unarmed throughout; at the midsection the margins black serrulate, the teeth 0.3–0.5 mm long, 2–6 mm apart; near the apex the margins black crenulate, the teeth 0.1–0.3 mm long; peduncle leafy bracted; syncarp solitary, terminal, 36 cm long, 17 cm in diameter, narrowly oblong-ellipsoid, the phalanges about 286, in spiral and in vertical rows; phalanges 4.2–4.6 cm long, 2.4–3.1 cm wide, 1.5–2 cm thick, reddish-brown without, light-yellow within, elliptic-oblong, slightly contracted at midsection, upper $\frac{1}{4}$ free; apex concave, dull, brownish when dry, the exposed sides gently curving and with numerous longitudinal, brown cracks, 5–6-angled; lateral sutures none; carpels 5–7, in one lateral plane; stigmas 1.5–2.6 mm wide, brown, cordate or obliquely so, facing sideways toward the apex of the syncarp; endocarp at lower $\frac{1}{4}$ and 12–14 mm long, bony, brown, the lateral walls 3–4 mm thick; seeds 6–8 mm long 2–3 mm in diameter, ellipsoid; apical mesocarp forming one cavern 25 mm long, with an open passage above each seed, with numerous, strong, longitudinal fibers and pale medullary membranes; basal mesocarp fibrous and cavernous, 3–6 mm. long.

HOLOTYPE: New Caledonia, 7 km. S. of Rivière des Pirogues, on bank of creek, 50 m alt, 15 Oct., 1955, *H. S. McKee* 3,229 (BISH). Isotype(L)!

¹ B. P. Bishop Museum, Honolulu, Hawaii. Manuscript received December 3, 1962.

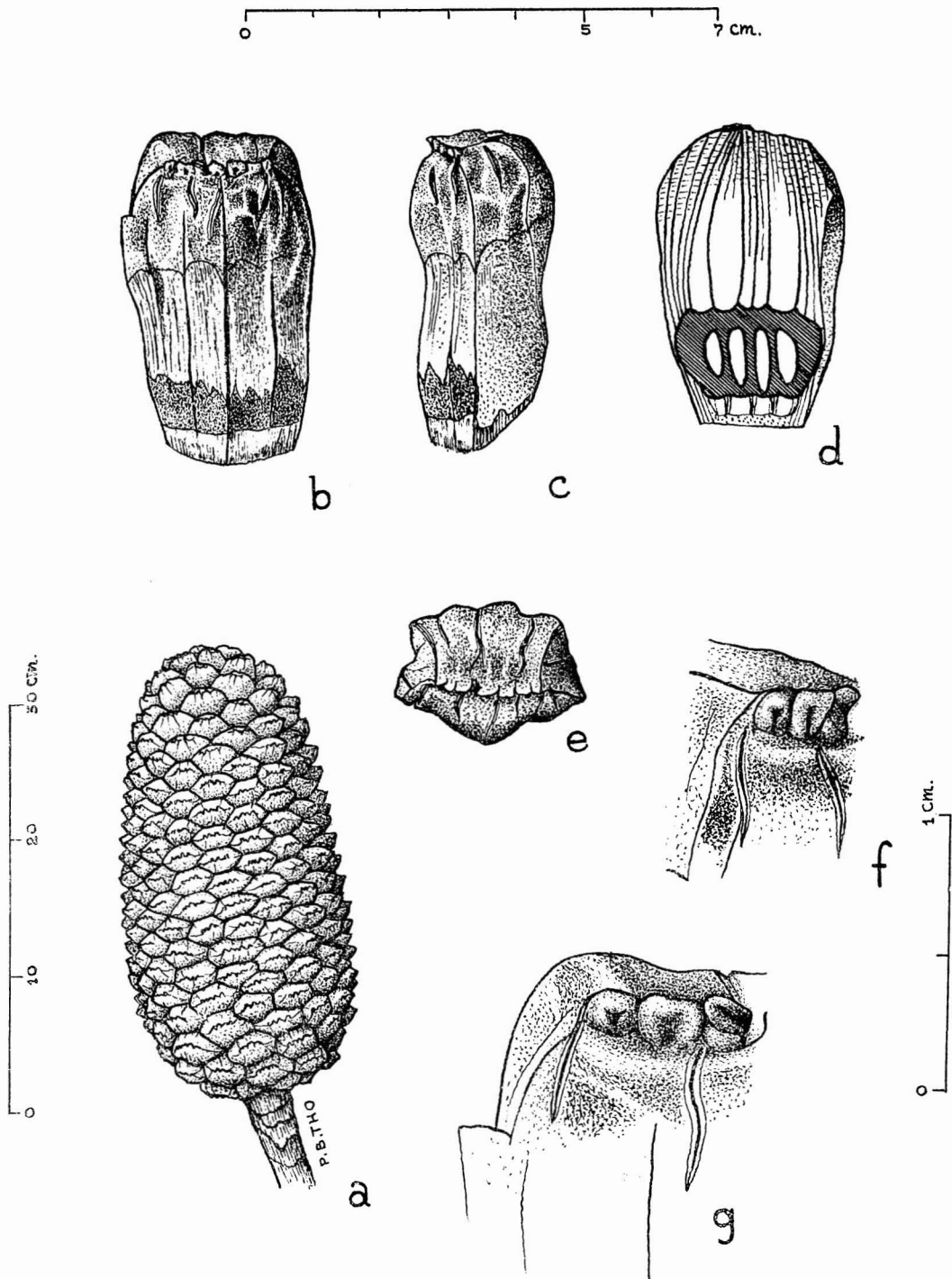


FIG. 238. *Pandanus Mc-Keei* St. John, from holotype. *a*, Syncarp, lateral view, $\times 1/5$; *b*, drupe, proximal view, $\times 1$; *c*, drupe, lateral view, $\times 1$; *d*, drupe, longitudinal median section, $\times 1$; *e*, drupe, apical view, $\times 1$; *f*, *g*, stigmas, proximal view, $\times 4$.

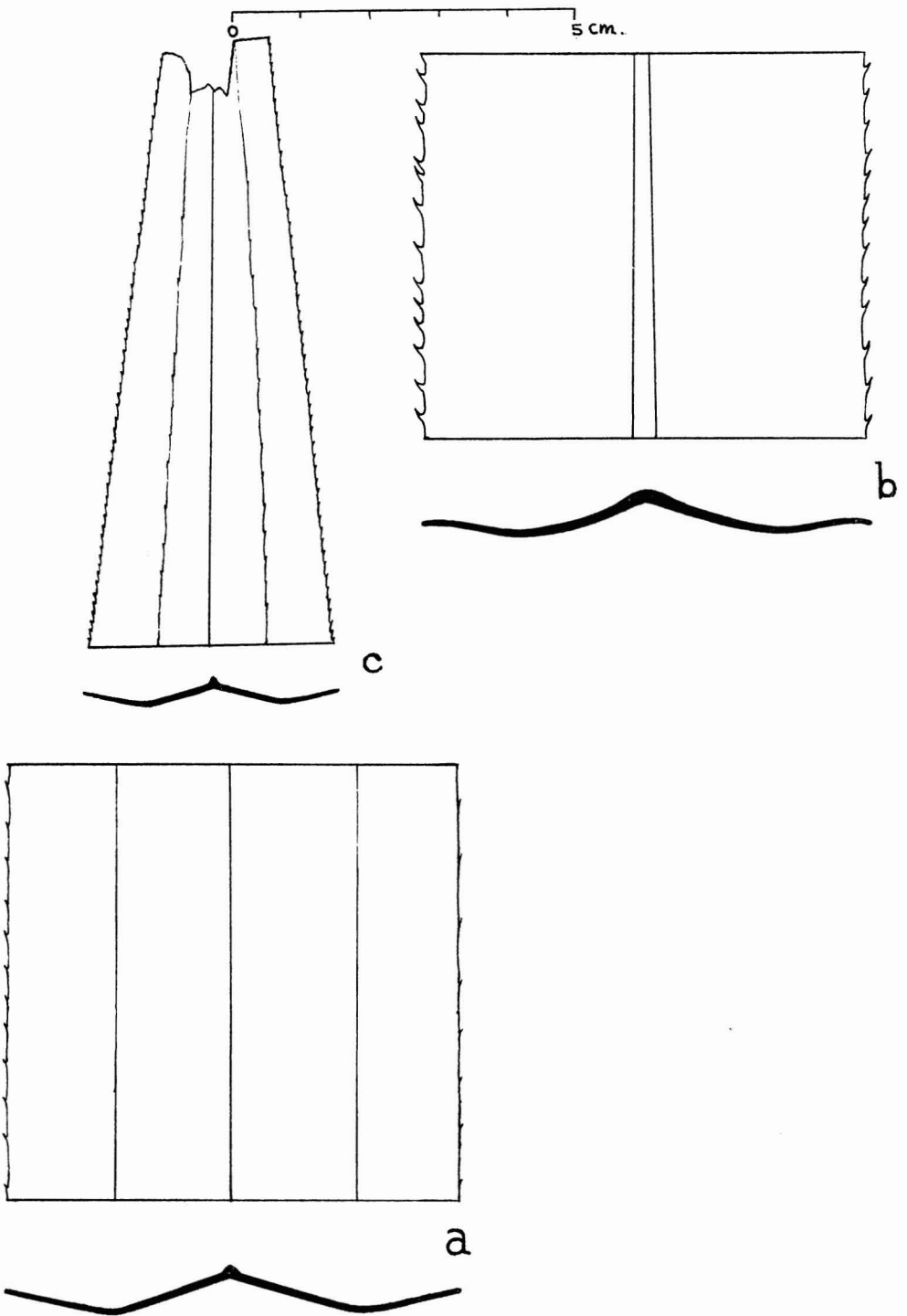


FIG. 239. *Pandanus Mc-Keei* St. John, from holotype. *a*, Leaf middle, lower side, $\times 1$; *b*, leaf base, lower side, $\times 1$; *c*, leaf apex, upper side, $\times 1$.

DISCUSSION: *P. Mc-Keei* is a member of the section *Hombrovia*. There its closest relative is *P. Balansae* (Brongn.) Solms of New Caledonia, which species has the syncarp 17–18 cm long, 13–14 cm in diameter; phalanges 5.5 cm long, 2.5 cm wide, the apex pyramidal to truncate apex which is half as wide as the phalange; carpels 3–6; and endocarp at the

lower third of the phalange. *P. Mc-Keei* has the syncarp 28.8 cm long, 12.8 cm in diameter; phalanges 4.2–4.6 cm long, 2.4–3.1 cm wide, the convex apex nearly as wide as the body; carpels 5–7; and the endocarp at the lower $\frac{1}{4}$ of the phalange. The species is dedicated to Prof. H. S. McKee, the collector.