

AN ADDITIONAL NOTE ON VIBURNUM CLEMENSAE KERN

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In "Reinwardtia" (1: 157. 1951) I published a new species of *Viburnum* from Mount Kinabalu, Borneo, under the name of *V. clemensae*. The description was drawn up after fruiting specimens in the Herbarium of the Arnold Arboretum. Unfortunately flowers were wanting in the specimens available. Some time ago Dr. A. J. G. H. Kostermans came across much more complete material among the indeterminata of the Bogor Herbarium, profusely flowering as well as fruiting. This enables the amplification of the description.

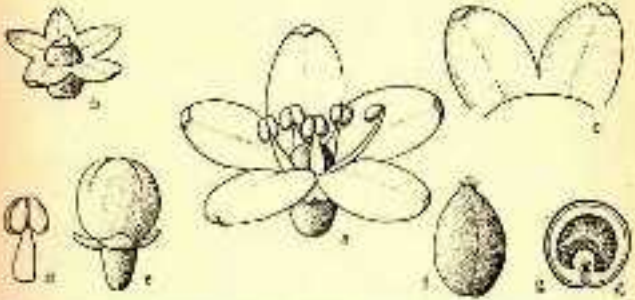


FIG. 1. *Viburnum clemensae* Kern: a, flower; b, ovary; c, part of corolla; d, stamen; e, flower-bud; f, fruit; g, cross-section through fruit; a—e, 20 x; f—g, 3 x.

Evergreen shrub or small slender tree, up to 7.5 m tall. Branchlets crooked, terete, hardly lenticellate, glabrous, with greyish brown, cracking-bark. Petioles channelled above, glabrous, 1—25 cm long. Leaf-blades coriaceous, dull, in dry state olivaceous or brownish olivaceous above, yellowish or brownish green beneath, glabrous on both sides, minutely papillose-rugulose all over (under a magnifying glass), glandular pitted at the under side both in the axils of the primary and of the secondary side-nerves, elliptic to lanceolate or slightly obovate, 9—12 cm long, 2.5—5.5 cm wide, often inequilateral and somewhat falcate; apex abruptly short-acuminate to nearly caudate, rarely rounded; base cuneate and

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slightly decurrent on the petiole; margin entire, cartilaginous, somewhat revolute in dry state; midrib and primary side-nerve rather indistinct above, prominent beneath, the latter ones arcuately ascending, evanescent and arcuately anastomosing near the margin, 4—5 on each side of the midrib; veins indistinct. Inflorescence terminal, nearly sessile, loose, up to 8 cm long and 10 cm wide, paniculate, 2—3 times paniculately branched, the lowest branches 2—5 together, the middle ones opposite, the upper ones alternate; bracteoles minute, ovate to lanceolate, sparsely setulose, caducous, leaving ciliate scars. Calyx-limb distinctly lobed; lobes ovate-triangular, rather obtuse, glabrous, about 0.5 mm long and wide. Corolla glabrous, white or creamy, small, about 3 mm wide, rotate, globular in bud; tube very short, about 0.25 mm long; lobes ovate, somewhat cucullate at the top, about 1.25 mm long, 1 mm wide. Stamens exerted, but much shorter than the corolla-lobes; filaments adnate near the base of the corolla, flattened, tapering towards the apex, about 1 mm long, 0.25 mm wide, in bud inflexed at the top; anthers broad, anthercells ovate, about 0.5 mm long. Ovary obconical; style very short, depressed-conical; stigma obscurely 3-lobed. Drupe ellipsoid or oblong-obovoid, not compressed, slightly grooved on the ventral side, (8—)9—11(—12) mm long, 6—8 mm across, shining; mesocarp thin, scantily fleshy; endocarp thin, strongly incurved, the dorsal side orbicular in cross-section, the edges touching, the ventral side folded to an internal longitudinal crest which is 2—2.5 mm broad, slightly widened at the upper margin, here embracing a cavity of 0.5—1 mm in diameter. Seed dorsiventrally compressed, reniform in cross-section, 2—3 mm thick.

In the first key to *Viburnum*, published in "Reinwardtia" on page 113, *V. demensae* may be distinguished by an alteration in the choices provided under no. 6 as follows:

6. Corolla not distinctly tubular, the tube less than 3 times as long as the lobes, the latter usually more than 1 mm long:
- 6^{b f}. Leaves entire 14. *V. demensae*
- 6^{h i s}. Leaves crenate-dentate:
8. Inflorescence shortly pyramidal, etc.

SPECIMENS EXAMINED.— BORNEO. Colony of North Borneo. Mt. Kinabalu: tree, fruit red, Aug. 3, 1937, *J. A. Griswold Jr.* 96 (A); Gurulau spur, Nov. 1915, *Clement!* 10826 (BO); Tenompok, summit jungle trail to Tomis, shrub, flower-buds green, fruit light green, 5000—5600 ft., May 2, 1932, *Clemens* 29466 (A, BO); below Lumu, jungle ridge, 5600 ft., slender tree 20 ft., fruit red, June 9, 1932, *Clemens* "9978 (A, BO); Tenompok, Tomis summit, tree 15 ft., fruit pink, turning red, May 3, 1932, *Clemens* :30356 (A, BO); Penibukan, 4000—5000 ft., ridge \ of camp, tree 25 ft., flower-buds creamy, Feb. 7, 1933, *Clemens* 31500 (A, BO); Marai Parai, trail to Sadikan H., forest with *Gnetum*, rattan, and *Admanha* (?), 5000 ft., slender tree 25 ft., flowers white, fruit green turning to red, March 23, 1933, *Clemens* 32320 (BO).