

# Abrahamia lenticellata

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**17. *Abrahamia lenticellata*** Randrian. & Lowry, **spec. nova** (Fig. 14).

– *Protorhus ditimena* var. *lanceolata* H. Perrier in Mém. Mus. Natl. Hist. Nat. 18: 261. 1944 [nom. inval.].

**Typus:** MADAGASCAR. **Prov. Antsiranana:** Rég. Analanjorofo, N de Nosiarina (basse Bemarivo), [14°14'30"S 50°03'30"E], 50 m, 7.XII.1966, fr., *Service Forestier* 27167 (holo-: P [P06775145]; iso-: G [G00341713]!, MO-6684136!, P [P00580350]!, TEF [TEF000885]!).

**Diagnosis** *Abrahamia lenticellata* Randrian. & Lowry most closely resembles *A. ditimena* but differs by having chartaceous (vs coriaceous) leaves with an acuminate or shortly acuminate apex (vs emarginate or retuse) and semicraspedodromous (vs craspedodromous) secondary veins.

**Description** Trees 5-20 m tall, 10-35 cm DBH, bark with white milky latex; young twigs glabrous or with ferruginous pubescence, with lenticels, waxy. Leaves alternate or subopposite; blades obovate or oblanceolate, 2.5-8(-14.5) × 1.2-4 cm, chartaceous, apex shortly acuminate or acuminate, rarely rounded, margin sometimes undulate, base cuneate, adaxial surface glabrous, abaxial surface with sparse short, appressed indument, sometimes glabrous, venation semicraspedodromous, midvein prominent abaxially, secondary veins 20-25 pairs, 1-5 mm apart, slightly prominent abaxially, tertiary veins raised on abaxial surface; petiole 7-13 mm long, 0.5-1 mm in diam., canaliculate on adaxial surface, glabrous. Inflorescence axillary or terminal, a panicle or sometimes a thyrse, 1-4 cm long, axes terete, pubescent. Male and female flowers 4-merous (rarely 5-merous), small, c. 2 mm long; pedicel c. 0.5-0.8 mm, scabrous; calyx lobes deltate to triangular, c. 1 × 1-1.5 mm, valvate, adaxial surface glabrous, abaxial surface pubescent, persistent on fruit; corolla lobes ovate, 2-2.5 × 1-2 mm, imbricate, adaxial surface glabrous, light yellow or cream, abaxial surface pubescent; stamens 4. Male flowers with filaments 1-1.2 mm long, white, glabrous, sometimes with sparse trichomes toward the base, anthers 0.5 mm long, ovoid to subglobose, yellow, glabrous; disk 1-1.5 mm in diam., glabrous; ovary rudimentary. Female flowers with filaments c. 0.5 mm long, pubescent, anthers 0.2-0.3 mm long, sub-spherical, sterile, brown, glabrous; disk c. 2 mm in diam., slightly cupuliform, glabrous; ovary depressed ovoid, 1 × 1.1 mm, pubescent, slightly asymmetrical, style short, thick, pubescent, c. 0.3-0.4 mm long, stigmas capitate. Fruits 2-2.6 × 1.3-1.5 cm, ellipsoid to ovoid, slightly asymmetrical, surface velutinous, with longitudinal striations.

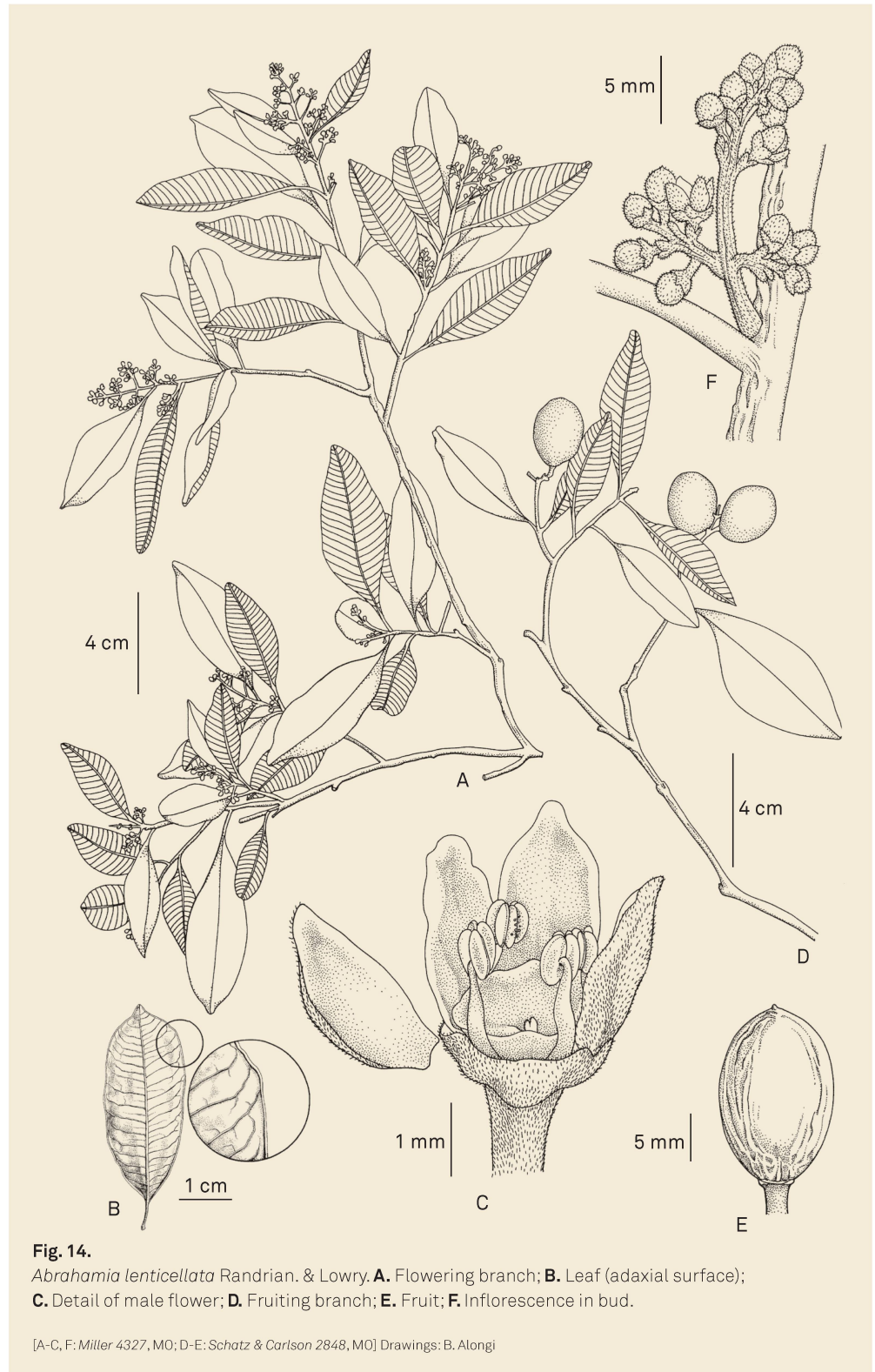
**Vernacular names** “Hazombarorana”, “Hazombarorana à petite feuille”, “Sandramy mena”.

**Distribution, ecology and phenology** *Abrahamia lenticellata* occurs in eastern rainforest (Map 6) at elevations from sea level to 1200 m. Material in flower has been collected between August and October, and fruits have been gathered in November and December.

**Conservation status** With an EOO of 69,556 km<sup>2</sup>, a minimum AOO of 104 km<sup>2</sup>, and 28 recorded localities, with subpopulations in at least 11 protected areas (Zahamena, Betampona, Ambalabe, Pic d'Ivohibe, Ranomafana, Analamazoatra, Makira, Nosy Mangabe, Masoala, Anjanaharibe-Sud, and Marojejy) that comprise about 22 locations, *A. lenticellata* is assigned a preliminary conservation status of "Least Concern" [LC] using the IUCN Red List Categories and Criteria (IUCN, 2012).

**Notes** Material attributable to this species was assigned by PERRIER DE LA BATHIE (1944, 1946) to an invalidly published variety of *Protorhus ditimena* ( $\equiv$  *Abrahamia ditimena*). Despite an unquestionable similarity to that species, *A. lenticellata* clearly warrants recognition at the species level, differing from *A. ditimena* in having leaves with an apex that is almost always acuminate, sometimes shortly so (vs emarginate or retuse) and whose blades are chartaceous (vs coriaceous) in texture.

**Paratypes** **MADAGASCAR. Prov. Antsiranana:** Sambava, Marojejy PN, N of Mandena, 14°27'S 49°47'E, 230-550 m, 21.X.1989, fl., Miller 4327 (MO, P, TAN); Sambava, Marojejy PN, Mandena, près du campement 1, WP-2-4, 14°26'13"S 49°46'32"E, 460 m, 10.X.1996, fl., Rakotomalaza et al. 728 (G, K, MO, NY, P, TAN); Andapa, Anjanaharibe Sud RS, 14°43'10"S 49°27'12"E, 1700 m, 14.II.1995, fr., Ravelonarivo et al. 669 (MO, P, TAN); Doany, Andrinomilolo, 13 km W d'Andranopositra, 14°20'04"S 49°17'50"E, 856 m, 13.XI.2006, fr., Ravelonarivo et al. 2088 (MO, P, TAN); Sambava, [Marojejy PN], 24.IX.1956, fl., Réserves Naturelles 8266 (P, TAN). **Prov. Fianarantsoa:** Pic d'Ivohibe RS, forêt de Marovitsika, 22°28'49"S 46°56'49"E, 950 m, fl., s.d., Hoffmann et al. 241 (G, K, P); Ranomafana Park, Parcelle n° 3, Talataky, 21°15'S 47°27'E, 800-1000 m, 3-8.IX.1993, fl., Kotozafy et al. 230 (MO, P, TAN); Ranomafana PN, c. 15 km W de Tsaratanana, 21°09'S 47°32'E, 750 m, 8.X.1994, ster., Kotozafy 703, 724 (MO, P, TAN); Ivohibe, 7.5 km ENE d'Ivohibe, 22°28'12"S 46°57'36"E, 1000 m, 11.X.1997, fl., Rakotovo et al. 830 (G, P, MO, TAN, G); Ranomafana PN, piste T 200, 21°16'S 47°25'E, 800-900 m, 8.X.1996, ster., A. Randrianasolo 501 (G, K, MO, P, TAN); Nosy Varika, Besakoana-Ampasinambo, 7.VIII.1952, ster., Service Forestier 68-R-116 (P). **Prov. Toamasina:** Marantsetra, Ambinanihely, 15°26'S 49°29'E, 358 m, 20.XI.2003, y. fr. & fl., Antilahimena 2328 (G, MO, P, TAN); Vinanibe, Andogona, Makira forest, 15°27'40"S 49°17'46"E, 1153 m, 28.XI.2003, fr., Antilahimena 2427 (G, K, MO, NY, P, TAN); Toamasina, Betampona RN, 17°51'55"S 49°12'15"E, 275-650 m, 25.VIII.1990, ster., Carlson 383 (MO, P, TAN); Ambatondrazaka, Manambato à Amboditafonana, [17°27'S 48°46'E], 1200 m, 11.X.1945, fl., Cours 2826 (MO, P, TAN); Ambatondrazaka, Sahalampy, Onibe, [17°45'S 48°15'E], 700 m, XI.1938, fl., Cours 1042 (P); Moramanga, Analamazoatra, [18°56'S 48°26'E], 800-900 m, VIII.1925, bud & fl., Louvel 48 (P); near Andasibe, forest of Mantadia, 18°55'S 48°25'E, 900 m, 5.XI.1994, fl., McPherson et al. 16505 (G, K, MO, P, TAN); Masoala PN, Antalavia, 15°47'S 50°02'E, 22.XI.1994, ster., Rahajaso et al. 965 (MO, P, TAN); Amparafaravola, SE d'Ambodisaina, 17°17'25"S 48°40'30"E, 850 m, 10.XII.2001, fr., Rakotondrafara et al. 98 (CNARP, MO, P, TAN); Vatomandry, Commune Ambalabe, Tobin'i Foara, 19°09'28"S 48°34'30"E, 560 m, 4.X.2005, fl.,



**Fig. 14.** *Abrahamia lenticellata* Randrian. & Lowry. **A.** Flowering branch; **B.** Leaf (adaxial surface); **C.** Detail of male flower; **D.** Fruiting branch; **E.** Fruit; **F.** Inflorescence in bud.

[A-C, F: Miller 4327, MO; D-E: Schatz & Carlson 2848, MO] Drawings: B. Alongi

*Ranaivojaona et al.* 1197 (G, K, MO, P, TAN); Commune Ambalabe, N of Tsitondroina waterfall, 19°10'15"S 48°33'02"E, 500 m, s.d., fr., A. *Randrianasolo et al.* 927 (G, K, MO, NY, P, TAN, WAG); Commune Ambalabe, fokontany Sahanionaka, 19°11'24"S 48°34'30"E, 288 m, 13.XI.2010, fr., A. *Randrianasolo* 1313 (G, K, MO, NY, P, TAN); Commune Ambalabe, Vohibe forest, 19°09'15"S 48°34'44"E, 629 m, 21.XI.2013, fr., A. *Randrianasolo* 1458 (G, K, MO, P, TAN); Périnet, [18°56'S 48°26'E], 800-900 m, 23.XII.1947, y. fr., *Réserves Naturelles* 1261 (P); Nosy Mangabe, 15°30'S 49°46'E, 0-330 m, 28.IX-5.X.1989, fl., *Schatz et al.* 2777 (MO, P, TAN); *ibid. loco*, 17.XII.1989, fr., *Schatz & Carlson* 2848 (MO, NY, P, TAN); Soanieran'Ivongo, [16°54'30"S 49°35'00"E], 0-50 m, 27.XII.1949, fr., *Service Forestier* 2370 (P, TAN, TEF); Farankaraina, [15°25'S 49°52'E], 20-25 m, 9.X.1952, bud, *Service Forestier* 6248 (G, P); massif de l'Ambatotsitondroina de Mahalevona, NW de la presqu'île Masoala, [15°25'S 49°58'E], 600 m, 21.XII.1953, y. fr., *Service Forestier* 8697 (MO, P, TEF); forêt orientale, entre Ankovana et le Col d'Ambatondradama, 500 m, 13.XII.1953, fr., *Service Forestier* 8750 (MO, P, TEF); Farankaraina, Andranofotsy, [15°25'S 49°52'E], 20-25 m, 18.X.1963, fl., *Service Forestier* 21483 (G, MO, NY, P, TEF); Vavatenina, sommet Mahatsinjo, [17°27'S 49°00'E], 20.IX.1966, bud, *Service Forestier* 26139 (P); Mahatsinjo, Sahatavy, 27.IX.1966, fl., *Service Forestier* 26246 (P [2 sheets]); Brickaville, Lohariandava, Ankarangina, 14.VI.1954, ster., *Service Forestier* 70-R-77 (P); Maroantsetra, Jardin Botanique 17, [Farankaraina], 12.XII.1952, ster., *Service Forestier* 99-R-199 (P).