

NOTE. In his protologue, Scheffer (1876) refers to material grown at Bogor Botanic Garden from seed collected by Teijsmann in Ceram. Type material has not yet been located in the Bogor herbarium. Two specimens in Florence may represent fragments of the type. The first, annotated “Nel Giard. Bot. di Buitenzorg [in Bogor Botanic Garden] Dr. Scheffer, 1877”, is a likely candidate as a type duplicate, but the date does not conform precisely to the publication date of the protologue. The second, annotated “Amboina ad Hutumuri leg. Teijsmann ex. Herb. Bogor.”, could be identified as type material, but the locality information does not match Scheffer’s protologue. The existence and location of type material cannot be confirmed until a more thorough search has been made at the Bogor herbarium.

30. *Hydriastele microspadix* (Warb. ex K. Schum. & Lauterb.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 484 (1937). *Kentia microspadix* Warb. ex K. Schum. & Lauterb., Fl. Schutzgeb. Südsee: 206 (1900). *Adelonenga microspadix* (Warb. ex K. Schum. & Lauterb.) Becc., Bot. Jahrb. Syst. 52: 26 (1914). Type: Papua New Guinea, Hatzfeldhafen, Warburg s.n. (lectotype (**here designated**) FI).

Ptychosperma beccarianum Warb. ex K. Schum. & Lauterb., Fl. Schutzgeb. Südsee: 208 (1900), nom. nud.

NOTE. Fragments of both collections cited in the protologue of *Hydriastele microspadix* (Warb. ex K. Schum. & Lauterb.) Burret, Warburg s.n. from Hatzfeldhafen and Lauterbach 2448 from the Schumannsfluss, exist in the Florence herbarium. We have chosen the former as lectotype because it is the more complete specimen. The specimen cited in the original literature of the *nomen nudum* *Ptychosperma beccarianum* Warb. ex K. Schum. & Lauterb. was also collected by Warburg at Hatzfeldhafen. Fragments of the collection are held in Florence, as is a photograph of the Berlin specimen, which is now destroyed. We concur with Burret (1928) that the specimen is a mixed gathering, containing parts of both *Hydriastele microspadix* and *Rhopaloblaste ceramica* (Miq.) Burret.

31. *Hydriastele moluccana* (Becc.) W. J. Baker & Loo, **comb. nov.** *Kentia moluccana* Becc., Malesia 1: 35 (1877). *Gulubia moluccana* (Becc.) Becc., Ann. Jard. Bot. Buitenzorg 2: 131 (1885). Type: Indonesia, Maluku, Ternate, Beccari s.n. (holotype FI).

32. *Hydriastele montana* (Becc.) W. J. Baker & Loo, **comb. nov.** *Nengella montana* Becc., Malesia 1: 33 (1877). *Gronophyllum montanum* (Becc.) Essig & B. E. Young, Principes 29: 134 (1985). Type: Indonesia,

Papua, Arfak Mts, Beccari s.n. (holotype FI). *Kentia beccarii* F. Muell., Extra. Trop. Pl. Ind.: 163 (1880). Type: not designated.

33. *Hydriastele nannostachys* W. J. Baker & Loo, **nom. nov.** *Gronophyllum microspadix* Burret, Notizbl. Bot. Gart. Berlin-Dahlem 12: 44 (1934). Type: Indonesia, Sulawesi, Linkobale, Lake Towati, Kjellberg 2232 (holotype B†).

NOTE. A *nomen novum* is required here because a combination of the epithet in the genus *Hydriastele*, *H. microspadix* (Warb. ex K. Schum. & Lauterb.) Burret, already exists.

34. *Hydriastele oxypetala* (Burret) W. J. Baker & Loo, **comb. nov.** *Gronophyllum oxypetalum* Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 474 (1937). Type: Cultivated in Bogor Botanic Garden ex Pulau Mangoeli, Maluku, Indonesia, Furtado SFN 30929 (holotype B†; isotype ?SING).

35. *Hydriastele palauensis* (Becc.) W. J. Baker & Loo, **comb. nov.** *Gulubiopsis palauensis* Becc., Bot. Jahrb. Syst. 59: 11 (1924). *Gulubia palauensis* (Becc.) H. E. Moore & Fosberg, Gentes Herb. 8: 455 (1956). Type: Palau, Ledermann 14149 (holotype B†; type photo FI).

36. *Hydriastele pinangoides* (Becc.) W. J. Baker & Loo, **comb. nov.** *Nenga pinangoides* Becc., Malesia 1: 28 (1877). *Leptophoenix pinangoides* (Becc.) Becc., Ann. Jard. Bot. Buitenzorg 2: 82 (1885). *Nengella pinangoides* (Becc.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 315 (1936). *Gronophyllum pinangoides* (Becc.) Essig & B. E. Young, Principes 29: 135 (1985). Type: Indonesia, Papua, Ramoi, Beccari 430 (holotype FI).

Nenga calophylla K. Schum. & Lauterb., Fl. Schutzgeb. Südsee: 208 (1900). *Nengella calophylla* (K. Schum. & Lauterb.) Becc., Bot. Jahrb. Syst. 52: 27 (1914). Type: Papua New Guinea, Morobe, Sattelberg, Lauterbach 564 (holotype B†, type photo FI).

Leptophoenix minor Becc., Webbia 1: 298 (1905). *Nengella minor* (Becc.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 315 (1936). Type: Papua New Guinea, San Giuseppe R., Loria 10 (holotype FI).

Gronophyllum densiflorum Ridl., Trans. Linn. Soc. London, Bot. 9: 232 (1916). *Nengella densiflora* (Ridl.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 316 (1936). *Leptophoenix densiflora* (Ridl.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 205 (1936). Type: Indonesia, Papua, Mt Carstenz, Kloss s.n. (holotype BM; isotype K).

Leptophoenix incompta Becc., Bot. Jahrb. Syst. 58: 452 (1923). *Nengella incompta* (Becc.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 316 (1936). Type: Papua New Guinea, East Sepik, Ettapenberg, Ledermann 9017 (holotype B†).

Leptophoenix pterophylla Becc., Atti Soc. Tosc. Sci. Nat. Pisa Processi Verbali 44: 131 (1934). *Nengella pterophylla* (Becc.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 316 (1936). Type: Cultivated in Bogor Botanic Garden ex New Guinea, X D 114 (holotype FI).

Leptophoenix yulensis Becc., Atti Soc. Tosc. Sci. Nat. Pisa Processi Verbali 44: 130 (1934). *Nengella yulensis* (Becc.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 316 (1936). Type: Papua New Guinea, Central, von Mueller s.n. (holotype MEL; isotype FI).

Leptophoenix macrocarpa Burret, Notizbl. Bot. Gart. Berlin-Dahlem 12: 340 (1935). *Nengella macrocarpa* (Burret) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 316 (1936). Type: Papua New Guinea, Central, Mafulu Brass 5299 (holotype B†; isotype BRI).

Leptophoenix brassii Burret, Notizbl. Bot. Gart. Berlin-Dahlem 12: 339 (1935), **synon. nov.** *Nengella brassii* (Burret) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 316 (1936), **synon. nov.** *Gronophyllum leonardii* Essig & B. E. Young, Principes 29: 134 (1985), **synon. nov.** Type: Papua New Guinea, Western, Kubuna, Brass 5631 (holotype A; isotypes BRI, BO, NY).

Leptophoenix microcarpa Burret, Notizbl. Bot. Gart. Berlin-Dahlem 12: 342 (1935). *Nengella microcarpa* (Burret) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 316 (1936). Type: Papua New Guinea, Central, Dieni, Brass 3998 (holotype B†; isotypes A, NY, BRI, BO).

Nengella rhomboidea Burret, J. Arnold Arbor. 20: 207 (1939). Type: Papua New Guinea, Western, Palmer R., Brass 7201 (holotype A; isotype BRI).

NOTE. Essig & Young (1985) accepted *Gronophyllum leonardii*, a *nomen novum* that they established to account for a name, *Nengella brassii* (Burret) Burret (syn. *Leptophoenix brassii* Burret), that could not be recombined in *Gronophyllum* due to a pre-existing publication of the name *Gronophyllum brassii* (Burret 1939). Having seen the type of *Leptophoenix brassii*, we are convinced that it falls within the wide range of variation that is encompassed by the complex species *Hydriastele pinangoides*, in particular in terms of leaf morphology, and we place it in synonymy accordingly.

37. Hydriastele pleurocarpa (Burret) W. J. Baker & Loo, **comb. nov.** *Nengella pleurocarpa* Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 314 (1936). *Gronophyllum pleurocarpum* (Burret) Essig & B. E. Young, Principes 29: 136 (1985). *Nengella calophylla*

var. *montana* Becc., Bot. Jahrb. Syst. 52: 27 (1914). Type: Papua New Guinea, Madang, Schlechter 16291 (holotype B†; isotype fragment FI).

38. Hydriastele procera (Blume) W. J. Baker & Loo, **comb. nov.** *Kentia procera* Blume, Bull. Sci. Phys. Nat. Néerl. 1: 65 (1838). *Gronophyllum procerum* (Blume) H. E. Moore, Gentes Herb. 9: 265 (1963). *Areca procera* (Blume) Zipp. ex Blume, Rumphia 2: 95 (1843). Type: Indonesia, Papua, Zippel s.n. (holotype L).

39. Hydriastele ramsayi (Becc.) W. J. Baker & Loo, **comb. nov.** *Gulubia ramsayi* Becc., Webbia 3: 159 (1910). *Kentia ramsayi* (Becc.) Becc., Webbia 4: 148 (1913). *Gronophyllum ramsayi* (Becc.) H. E. Moore, Gentes Herb. 9: 265 (1963). Type: Northern Territory, Port Essington, Ramsay s.n. (holotype MEL; isotype fragment FI)

40. Hydriastele rheophytica Dowe & M. D. Ferrero, Palms 44: 195 (2000). Type: Indonesia, Papua, Idenburg R., Brass 13700 (holotype A; isotype L).

41. Hydriastele rhopalocarpa (Becc.) W. J. Baker & Loo, **comb. nov.** *Nengella calophylla* var. *rhopalocarpa* Becc., Bot. Jahrb. Syst. 52: 28 (1914). *Nengella rhopalocarpa* (Becc.) Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 314 (1936). *Gronophyllum rhopalocarpum* (Becc.) Essig & B. E. Young, Principes 29: 136 (1985). Type: Papua New Guinea, Morobe, Waria R., Schlechter 17466 (holotype B†; isotype FI (fragment), K).

42. Hydriastele rostrata Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 484 (1937). Type: Cultivated in Bogor Botanic Garden ex New Guinea, VI 4, Furtado SFN 31139 (holotype B†; isotype ?SING).

43. Hydriastele sarasinorum (Burret) W. J. Baker & Loo, **comb. nov.** *Gronophyllum sarasinorum* Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 202 (1936). Type: Indonesia, Sulawesi, Posso Lake, Sarasin 896 (holotype B†; isotype K).

44. Hydriastele selebica (Becc.) W. J. Baker & Loo, **comb. nov.** *Nenga selebica* Becc., Malesia 1: 30 (1877). *Gronophyllum selebicum* (Becc.) Becc., Ann. Jard. Bot. Buitenzorg 2: 82 (1885). Type: Indonesia, Sulawesi, Kandari, Beccari s.n. (holotype FI).