

New combinations and resurrected names in *Microcharis* and *Indigastrum* (Fabaceae–Papilionoideae)

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ABSTRACT

As a result of cladistic studies in the tribe Indigofereae in Africa and Madagascar (Schrire 1991) evidence was accumulated to justify resurrecting the genera *Microcharis* Benth. and *Indigastrum* Jaub. & Spach, which were previously considered part of *Indigofera* L. All described species in each genus are listed alphabetically. Forty-seven new combinations, six changes in rank and four resurrected names are published.

UITTREKSEL

Na aanleiding van kladistiese studies van die tribus Indigofereae in Afrika en Madagaskar (Schrire 1991), is getuienis versamel ter regverdiging van die herinstelling van die genusse *Microcharis* Benth. en *Indigastrum* Jaub. & Spach, wat voorheen as deel van *Indigofera* L. beskou is. Alle spesies wat in elke genus beskryf is, word alfabeties gelys. Sewe-en-veertig nuwe kombinasies, ses veranderinge in rang en vier heringestelde name word gepubliseer.

MICROCHARIS Benth.

Microcharis Benth. in Benth. & Hook. f., Genera plantarum 1: 501 (1865a); Benth.: 297 (1865b); Bak.: 132 (1871); Taub.: 277 (1894); Engl.: 213 (1895); Hutch. & Dalziel: 388 (1927); Bak. f.: 256 (1929). Lectotype species: *Microcharis tenella* Benth., selected by J.B. Gillett: 127 (1958).

Indigofera subgenus *Microcharis* (Benth.) J.B. Gillett: 127 (1958c); J.B. Gillett: 321 (1971).

Indigofera subgenus *Indigastrum* sensu Cronquist: 124 p.p. excl. sp. 64.

Indigofera sensu Hutch.: 400 (1964); Polhill: 291 (1981); De Kort & Thijssse: 104 (1984); Lock: 289 (1989); Thulin: 119 (1990).

1. *Microcharis ammophila* (Thulin) Schrire, comb. nov.

Indigofera ammophila Thulin in Nordic Journal of Botany 2: 47 (1982). Type: Kenya, Mandera Dist., 12 km S of El Wak on Wajir road, 11-5-1978, Gilbert & Thulin 1672 (UPS, holo.; BR, C, EA, K!, KRA, MO, WAG).

2. *Microcharis angolensis* Bak. in Flora of tropical Africa 2: 132 (1871); Hiern: 230 (1896). Type: Angola, Pungo Andongo, banks of river Cuanza, near Calunda-Quisonde, fl. 1-1857, Welwitsch 2004 (LISU, lecto.; BM!, K!). Selected by Torre (1962), although incorrectly designated a holotype.

Indigofera richardsiae J.B. Gillett: 583 (1956); J.B. Gillett: 131 (1958c); Torre: 137 (1962); J.B. Gillett: 323 (1971). Type: Zambia, Mbala Dist., Pans road, Richards 1268 (K, holo.). J.B. Gillett published this name because of *Indigofera angolensis* D. Dietr.

3. *Microcharis annua* (Milne-Redh.) Schrire, comb. nov.

Indigofera annua Milne-Redh. in Kew Bulletin 1936: 470 (1936); J.B. Gillett: 133 (1958c). Type: Zimbabwe, Hwange, 4-1932, Levy 36 (PRE, holo.; K!, SRGH).

4. *Microcharis aphylla* (Viguiet) Schrire, Du Puy & Labat, comb. et stat. nov.

Indigofera phyllogramme Viguiet var. *aphylla* Viguiet in Notulae Systematicae 13: 369 (1949) p.p., lecto. incl.; J.B. Gillett: 132 (1958c). Type: Madagascar, Perrier 13845 (P, lecto.; K!, MO, P!). Lectotype selected here.

5. *Microcharis asparagoides* (Taub.) Schrire, comb. nov.

Indigofera asparagoides Taub. in Engl., Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete. C: 210 (1895); Bak. f.: 125 (1926); Cronq.: 172 (1954); J.B. Gillett: 176 (1958b); J.B. Gillett: 135 (1958c); J.B. Gillett: 326, t.47 (1971). Types: Tanzania, Bukoba, Stuhlmann 3989, 4101 (B, syn. †); Ihangiro, Stuhlmann 3353 (B, syn. †).

6. *Microcharis brevistaminea* (J.B. Gillett) Schrire, comb. nov.

Indigofera brevistaminea J.B. Gillett in Kew Bulletin, Additional Series 1: 130 (1958c). Type: Zaïre, NE of Lake Moero, Niembe River, 27-5-1908, Kassner 3009 (K, holo.; BM).

7. *Microcharis buchneri* (Taub.) Schrire, comb. nov.

Indigofera buchneri Taub. in Botanische Jahrbücher 23: 180 (1896); Bak. f.: 105 (1926); J.B. Gillett: 131 (1958c); Torre: 138 (1962). Type: Angola, Malanje, Buchner 644 (B, holo. †; BM, sketch!).

8. *Microcharis butayei* (De Wild.) Schrire, comb. nov.

Indigofera butayei De Wild. in Annales du Musée du Congo Belge, Botanique Série 5, 1: 132 (1904); J.B. Gillett: 135 (1958c); J.B. Gillett: 325 (1971); Thulin: 100 (1983); Thulin: 138 (1990). Type: Zaïre, Lower Congo, N'Lemfu, Butaye, coll. Gillet 1208 (BR, lecto.). Lectotype selected here.

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I. medicaginea sensu Bak. f.: 120 (1926); Cronq.: 171 (1954) p.p., non Welw. ex Bak.

9. *Microcharis cana* (Thulin) Schrire, comb. nov.

Indigofera cana Thulin in Nordic Journal of Botany 2: 48 (1982); Thulin: 99 (1983); Thulin: 138 (1990). Type: Ethiopia, Wello Region, below Bati on Assab road, 18-9-1962, *Mooney 9620* (ETH, holo.; UPS).

10. *Microcharis contorta* (J.B. Gillett) Schrire, comb. nov.

Indigofera contorta J.B. Gillett in Kew Bulletin, Additional Series 1: 133 (1958c). Type: South Yemen, Riyan Airport, *Guichard KG/HAD/349* (BM, holo.).

11. *Microcharis cufodontii* (Chiov.) Schrire, comb. nov.

Indigofera cufodontii Chiov. in Cufodontis, Missione biologica nel paese dei Borana: 71, t.12 (1939); J.B. Gillett: 134 (1958c); J.B. Gillett: 324 (1971); Thulin: 100 (1983); Thulin: 138 (1990). Types: Ethiopia, Sidamo Region, Yavello, *Cufodontis 473, 613* (FI, syn.).

12. *Microcharis disjuncta* (J.B. Gillett) Schrire, comb. nov.

var. *disjuncta*

Indigofera disjuncta J.B. Gillett var. *disjuncta* in Kew Bulletin 1955: 584 (1956); J.B. Gillett: 543 (1958a); J.B. Gillett: 132 (1958c); A. Schreib.: 55 (1970). *I. acutifolia* Schinz: 163 (1888) non Schlecht. (1838). Type: Namibia, Kuisib, 24-4-1885, *H. Schinz 245* (Z, holo.).

I. arenaria sensu Bak.: 79 (1871); Bak. f.: 192 (1903); Bak. f.: 108 (1926), non A. Rich.: 183 (1847) nec E. Mey.: 107 (1836).

I. semhaensis Vierh.: 362 (1907) p.p. quoad typum.

I. welwitschii Bak. var. *simplicifolia* Bak. f.: 253 (1932). Type: Namibia, Karibib, *Dinter 2523* (B, holo. †); *Dinter 6971* (BM, neo.); K!). Neotypified by J.B. Gillett: 585 (1956).

var. *fallax* (J.B. Gillett) Schrire, comb. nov.

Indigofera disjuncta J.B. Gillett var. *fallax* J.B. Gillett in Kew Bulletin 1955: 585 (1956); J.B. Gillett: 132 (1958c). Type: Socotra, *Bayley Balfour 674* (K, holo.).

I. leptocarpa Hochst. & Steud. ex Balf. f.: 510 (1882) p.p., non Eckl. & Zeyh.: 236 (1836).

13. *Microcharis ephamera* (J.B. Gillett) Schrire, comb. et stat. nov. Type: Tanzania, 6.5 km from Mbeya on Tukuyu Rd, 1 680 m, fl. 12-5-1956, *Milne-Redhead & Taylor 10197* (K, holo.; EA, B, BR, LISC).

Indigofera asparagoides Taub. subsp. *ephamera* J.B. Gillett in Kew Bulletin 13: 176 (1958b); J.B. Gillett: 328 (1971).

14. *Microcharis galpinii* N.E.Br. in Kew Bulletin 1897: 258 (1897); N.E. Br.: 375 (1932). Type: South Africa, Transvaal, nr Barberton, summit of Saddleback Mtn, ± 1 500 m, 8-3-1891, *Galpin 1315* (K, holo.; GRA!, PRE!).

Microcharis pseudo-indigofera Merxm.: 22 (1951). *Indigofera pseudo-indigofera* (Merxm.) J.B. Gillett: 132 (1958c). Type: Zimbabwe, Marondera Dist., *Dehn 627* (M, holo.; SRGH).

Indigofera graminea Schltr., nom. nud.

15. *Microcharis garissaënsis* (J.B. Gillett) Schrire, comb. nov.

Indigofera garissaënsis J.B. Gillett in Kew Bulletin 24: 502 (1970); J.B. Gillett: 324 (1971). Type: Kenya, near Tana River, 16 km SE of Garissa, 180 m, 1-1961, *Lucas 18* (K, holo.; EA).

16. *Microcharis gyrata* (Thulin) Schrire, comb. nov.

Indigofera gyrata Thulin in Nordic Journal of Botany 2: 45, 46 (1982); Thulin: 138 (1990). Type: Kenya, Mandera Dist., 4 km on the Mandera-Ramu road, 3-5-1978, *Gilbert & Thulin 1372* (UPS, holo.; BR, C, EA, K!, KRA, MO, WAG).

17. *Microcharis karinensis* (Thulin) Schrire, comb. nov.

Indigofera karinensis Thulin in Nordic Journal of Botany 8: 469 (1989). Type: Somalia, Bari Region, 15 km on the El Gal-Qandala road, 23-11-1986, *Thulin & Warfa 6003* (UPS, holo.; K!, MOG).

18. *Microcharis kucharii* (Thulin) Schrire, comb. nov.

Indigofera kucharii Thulin in Nordic Journal of Botany 8: 471 (1989). Type: Somalia, Hiran Region, Bulu Burti Dist., 12-12-1987, *Kuchar 17609* (UPS, holo.; K!, MOG).

19. *Microcharis latifolia* Benth. in Transactions of the Linnean Society 25: 298, t. 33 B (1865b); Taub. in Engl.: 213 (1895); Bak. f.: 256 (1926). Type: Mozambique, Luabo, mouth of Zambezi, *Kirk s.n.* (K, holo.).

Indigofera lobata J.B. Gillett: 131 (1958c); J.B. Gillett: 322 (1971). J.B. Gillett published this nom. nov. because of *Indigofera latifolia* Micheli.

20. *Microcharis longicalyx* (J.B. Gillett) Schrire, comb. nov.

Indigofera longicalyx J.B. Gillett in Kew Bulletin 1955: 583 (1956); J.B. Gillett: 543 (1958a); J.B. Gillett: 130 (1958c). Type: Nigeria, Jos (or Bauchi) plateau, without exact locality, plains, 8-1930, *Lely P643* (K, holo.).

I. lateritia Chev.: 174 (1920) non Willd.: 1233 (1802) nec Bertol.: 5 (1832).

Microcharis tenella sensu Bak. f.: 256 p.p.; Hutch. & Dalz.: 388 (1927) p.p., non Benth.

21. *Microcharis medicaginea* (Welw. ex Bak.) Schrire, comb. nov.

Indigofera medicaginea Welw. ex Bak. in Oliver, Flora of tropical Africa 2: 86 (1871); Hiern: 210 (1896); Harms: 578 (1915); sensu Bak. f.: 120 (1926) and sensu Cronq.: 171 (1954) p.p., quoad typum solum; J.B. Gillett: 135 (1958c); Torre: 139 (1962) non A. Schreib.: 293 (1957). Type: Angola, Pungo Andongo, by the stream of Catete, 5-1857, *Welwitsch 2026* (BM, lecto.; K!, LISU). Type selected by Torre (1962).

22. *Microcharis microcharoides* (Taub.) Schrire, comb. nov.

Indigofera microcharoides Taub. in Engl., Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete C: 209 (1895); Bak. f.: 106 (1926); J.B. Gillett: 131 (1958c); J.B. Gillett: 323 (1971). Type: Tanzania or Kenya, "? Masai steppe", *Fischer 288* (B, holo. †; BM, sketch!); Tanzania, Pare Dist., *Haarer 1355* (K, neo.; EA). J.B. Gillett (1958c) neotypified this species but the neotype was not cited in his revision for the Flora of tropical East Africa (1971).

var. *microcharoides*

J.B. Gillett in Kew Bulletin 24: 502 (1970); J.B. Gillett: 324 (1971).

Rhynchotropis curtisiae Johnst.: 23 (1925); Bak. f.: 167 (1926). Type: Kenya, Mau range SW of Kijabe, *Curtis 814* (GH, holo.).

var. **latestipulata** (*J.B. Gillett*) *Schrire*, comb. nov.

Indigofera microcharoides Taub. var. *latestipulata* J.B. Gillett in Kew Bulletin 24: 502 (1970); J.B. Gillett: 324 (1971). Type: Kenya, between Umba and Mwena Rivers on Lungalunga-Msambweni road, 100 m, 14-8-1953, *Drummond & Hemsley 3784* (K, holo.; EA).

23. **Microcharis phyllogramme** (*Viguier*) *Schrire, Du Puy & Labat*, comb. nov.

Indigofera phyllogramme Viguier in Notulae Systematicae 13: 369 (1949); J.B. Gillett: 132 (1958c). Type: Madagascar, *Perrier 4876* (P, lecto.; K!, P!). Lectotype selected here.

24. **Microcharis praetermissa** (*Bak. f.*) *Schrire*, comb. nov.

Indigofera praetermissa Bak. f., The Leguminosae of tropical Africa: 121 (1926); J.B. Gillett: 134 (1958c). Type: Zaïre, Lake Mweru, *Kassner 2809* (K, holo.).

I. welwitschii var. *remotiflora* sensu Cronq.: 171 (1954) p.p. non Bak.

25. **Microcharis remotiflora** (*Taub. ex Bak. f.*) *Schrire*, comb. nov.

Indigofera remotiflora Taub. ex Bak. f., The Leguminosae of tropical Africa 1: 121 (1926) p.p. excl. var. *angolensis* Bak. f., loc. cit. Type: Cameroon, *Staudt 486* (B, holo. †); *Zenker 486* (BM, neo.). Neotypified by J.B. Gillett (1958c). The identity of var. *angolensis* Bak. f. is uncertain but it is not conspecific with *I. remotiflora*.

I. welwitschii Bak. var. *remotiflora* (Taub. ex Bak. f.) Cronq.: 172 (1954); J.B. Gillett: 543 (1958a); J.B. Gillett: 134 (1958c); Torre: 139 (1962); Binns: 82 (1968); J.B. Gillett: 326 (1971).

26. **Microcharis sessilis** (*Thulin*) *Schrire*, comb. nov.

Indigofera sessilis Thulin in Nordic Journal of Botany 8: 475 (1989). Type: Somalia, Bari Region, 8 km NE of Gorgore, 26-II-1985, *Thulin & Warfa 5561* (UPS, holo.; E, FT, K!, MOG).

27. **Microcharis spathulata** (*J.B. Gillett*) *Schrire*, comb. nov.

Indigofera spathulata J.B. Gillett in Kew Bulletin, Additional Series 1: 129 (1958c); J.B. Gillett: 322 (1971). Type: Zambia, Mweru-Luapula Dist., near Mbereshi, *Walter 7* (K, holo.).

28. **Microcharis stipulosa** (*Chiov.*) *Schrire*, comb. nov.

Indigofera stipulosa Chiov. in Cufodontis, Missione biologica nel paese dei Borana 75, t.13 (1939); J.B. Gillett: 132 (1958c); Thulin: 99 (1983); Thulin: 137 (1990). Type: Ethiopia, Sidamo Region, Neghelli, *Cufodontis 228* (FT, holo.).

29. **Microcharis tenella** *Benth.* in Transactions of the Linnean Society 25: 297, t. 33A (1865b); Bak.: 132 (1871); Bak. f.: 256 (1929) p.p.. Type: Nigeria, Jeba on the Kworra, *Barter s.n.* (K, lecto.). Lectotype selected by J.B. Gillett: 584 (1956).

Indigofera hutchinsoniana J.B. Gillett: 584 (1956); J.B. Gillett: 543 (1958a); J.B. Gillett: 132 (1958c). J.B. Gillett published this nom. nov. because of *Indigofera tenella* Vahl ex DC.

I. welwitschii sensu Hutch. & Dalz.: 393 (1927) non Bak.

30. **Microcharis tenuirostris** (*Thulin*) *Schrire*, comb. nov.

Indigofera tenuirostris Thulin in Nordic Journal of Botany 8: 476 (1989). Type: Somalia, Nugal Region, 11 km from Garoe along road to Halin, 8-2-1984, *Warfa 1000* (UPS, holo.).

31. **Microcharis tisserantii** (*Pellegr.*) *Schrire*, comb. nov.

Indigofera asparagoides Taub. var. *tisserantii* Pellegr. in Bulletin Société de Botanique de France 72: 538 (1925). Type: Chad [Oubangui], Waka Region, Bayedou rocks, *Tisserant 1650* (P, holo.).

I. tisserantii (Pellegr.) Pellegr.: 6 (1947); Cronq.: 173 (1954); J.B. Gillett: 136 (1958c).

32. **Microcharis tritoides** (*Bak.*) *Schrire*, comb. nov.

Indigofera tritoides Bak. in Kew Bulletin 1895: 214 (1895); Bak. f.: 108 (1926). Type: Somalia, Golis Range, near Dara-as, *Miss E. Cole s.n.* (K, holo.).

subsp. **tritoides**

Indigofera tritoides Bak. var. *tritoides*

J.B. Gillett in Kew Bulletin, Additional Series 1: 133 (1958c); Thulin: 100 (1983); Thulin: 138 (1990).

I. leptocarpa Hochst. & Steud. ex Balf. f.: 510 (1882) p.p., non Eckl. & Zeyh.: 236 (1836). Type: Arabia, 1837, *Schimper 771* (K, isosyn.).

I. tenuisiliqua Schweinf.: 241 (1896); Bak. f.: 109 (1926). Type: Sudan, 1868, *Schweinfurth 297* (K, isosyn.).

I. spinosa Forssk. var. *spiniflora* sensu Schweinf.: 237 (1896) p.p.

subsp. **obbiadensis** (*Chiov.*) *Schrire*, comb. et stat. nov.

I. sesquijuga Chiov. var. *obbiadensis* Chiov.: 139 (1929). Type: Somalia, Obbia, in dunes, *Puccioni & Stefanini 387* (439) (FI, holo.).

Indigofera tritoides Bak. var. *obbiadensis* (Chiov.) J.B. Gillett in Kew Bulletin, Additional Series 1: 133 (1958c).

33. **Microcharis wajirensis** (*J.B. Gillett*) *Schrire*, comb. nov.

Indigofera wajirensis J.B. Gillett in Kew Bulletin, Additional Series 1: 135 (1958c); J.B. Gillett: 325 (1971). Type: Kenya, Wajir Region, 27-5-1952, *J.B. Gillett 13368* (K, holo.; EA).

34. **Microcharis welwitschii** (*Bak.*) *Schrire*, comb. nov.

Indigofera welwitschii Bak. in Oliver, Flora of tropical Africa 2: 84 (1871); Hiern: 209 (1896); Harms: 577 (1915); Bak. f.: 122 (1926); Bak. f.: 103 (1928); Cronq.: 171 (1954), pro maj. parte; J.B. Gillett: 543 (1958a); J.B. Gillett: 134 (1958c); Torre: 138 (1962); J.B. Gillett: 326 (1971); Thulin: 100 (1983); Thulin: 138 (1990). *Anila welwitschii* (Bak.) Kuntze: 940 (1891). Type: Angola, Pungo Andongo, Pedras de Cabondo, fl. & fr. 4-1857, *Welwitsch 2066* (BM, lecto.; COI, K, LISU, P). Lectotype selected here.

I. variabilis De Wild.: 134 (1904) non N.E. Br. (1903) nom. illegit. Type: Zaïre, Lower Congo, *Gillet 734* (BR, holo.).

INDIGASTRUM *Jaub. & Spach*

Indigastrum *Jaub. & Spach*, Illustrationes Plantarum Orientalium 5: 101, t. 492 (1857). Type species: *Indigastrum deflexum* (Hochst. ex A. Rich.) *Jaub. & Spach* (= *Indigastrum parviflorum* [Heyne ex Wight & Arn.] *Schrire*).

Indigofera subgenus *Euindigofera* Benth. in Benth. & Hook.f.: 494 (1865).

Indigofera 'group' *Indigastrum* (Jaub. & Spach) Bak. f.: 161 (1926); Cronq.: 124 (1954) p.p. excl. spp. 65–68.

Indigofera subgenus *Indigastrum* (Jaub. & Spach) J.B. Gillett: 123 (1958c); Torre: 136 (1962); J.B. Gillett: 320 (1971).

Indigofera sensu Hutch.: 400 (1964); Polhill: 291 (1981); De Kort & Thijssse: 104 (1984); Lock: 289 (1989); Thulin: 119 (1990).

1. *Indigastrum argyraeum* (Eckl. & Zeyh.) Schrire, comb. nov.

Indigofera argyrea Eckl. & Zeyh., Enumeratio plantarum: 239 (1836); Harv.: 201 (1862); A. Schreib.: 50 (1970). *Anila argyrea* (Eckl. & Zeyh.) Kuntze: 50 (1898). Type: Cape, in locis saxosis (altit. III) laterum montium prope Shiloh ad flumen Klipplaat R. tum ad Swart Kei R., Jan.–Mar., Ecklon & Zeyher 1595 (S, lecto.). Lectotype selected here.

I. collina Eckl. & Zeyh.: 239 (1836). Type: Cape, in petrosis (altit. II) collium continuorum inter flumina Koonap & Kat R., fr. Jul., Ecklon & Zeyher 1596 (S, lecto.). Lectotype selected here.

I. burchellii E. Mey. var. *paucifolia* E. Mey.: 106 (1836) non DC. Type: Cape, prope Zwartbulletjie in collibus, alt. 2500' (II, d), 6-3-1827, Drège 6689 (P, lecto.). Lectotype selected here.

I. burchellii E. Mey. var. *multifolia* E. Mey.: 106 (1836) non DC. Type: Cape, in rupestribus siccis ad Groot Vis R., alt. 300' (V, a), 20-6-1832, Drège 3802 (P, lecto.). Lectotype selected here.

I. medicaginea sensu A. Schreib.: 293 (1957) p.p., non Welw. ex Bak.

I. pseudoalternans Dinter, nom. nud.

2. *Indigastrum argyroides* (E. Mey.) Schrire, comb. nov.

Indigofera argyroides E. Mey., Commentariorum de plantis Africae australioris: 106 (1836); Harv.: 191 (1862); J.B. Gillett: 126 (1958c); A. Schreib.: 51 (1970). Type: Cape, ad ripas limosas fluvii Gariep, 200' (III, B), 16-9-1830, Drège 3313 (P, lecto.). Lectotype selected here.

I. saxicola Engl.: 28 (1888) non F. Muell. (1864). *I. engleri* Bak. f.: 194 (1903); Bak. f.: 105 (1926). Type: Namibia, lower Swakop River, 250 m, Marloth 1209 (SAM, lecto.).

I. medicaginea sensu A. Schreib.: 293 (1957) p.p., non Welw. ex Bak.

3. *Indigastrum burkeanum* (Benth. ex Harv.) Schrire, comb. nov.

Indigofera burkeana Benth. ex Harv. in Harv. & Sond., Flora capensis 2: 197 (1862); N.E. Br.: 373 (1932); Dyer: t. 939 (1944); J.B. Gillett: 125 (1958c) p.p., excl. specimens from Cape, Botswana and Namibia. Type: Transvaal, Magaliesberg, Dec., Zeyher 476 (K, holo.); S, TCD).

4. *Indigastrum candidissimum* (Dinter) Schrire, comb. nov.

Indigofera candidissima Dinter in Feddes Repertorium 18: 428 (1922); Dinter: 198 (1932); A. Schreib.: 52 (1970). Type: Namibia, Kegelberg, 4-4-1911, Dinter 2107 (B, †).

5. *Indigastrum costatum* (Guill. & Perr.) Schrire, comb. nov.

Indigofera costata Guill. & Perr., Florae Senegambia tentamen: 187 (1832); Bak.: 95 (1871); Bak. f.: 163 (1926). Type: Senegal, near mouth of Senegal, Ghiandoum, Perrotet s.n. (P, holo.); BM).

subsp. *costatum*

Indigofera costata Guill. & Perr. subsp. *costata*

J.B. Gillett in Kew Bulletin, Additional Series 1: 125 (1958c); J.B. Gillett: 543 (1958a); J.B. Gillett: 320 (1971); Thulin: 99 (1983); Thulin: 137 (1990).

subsp. *theuschii* (O. Hoffm.) Schrire, comb. nov.

Indigofera costata Guill. & Perr. subsp. *theuschii* (O. Hoffm.) J.B. Gillett in Kew Bulletin, Additional Series 1: 125 (1958c); Torre: 136 (1962). *I. theuschii* O. Hoffm.: 126 (1880–82); Bak. f.: 162 (1926); Bak. f.: 105 (1928) p.p.; A. Schreib.: 294 (1957). Type: Angola, Pungo Andongo, Theusch & Mechow 128 (B, †; BM, photo.).

I. affinis Harv.: 184 (1862) non De Wild.: 144 (1923). Type: Botswana, Lake Ngami, J. McCabe s.n. (K, holo.).

I. heptaphylla Hiern: 209 (1896); Eyles: 373 (1916). Type: Angola, Pungo Andongo, near de Quibinda, Quitage, Welwitsch 4143 (BM, lecto.); LISU). Selected by Torre: 136 (1962).

I. goniodes Hochst. ex Bak. var. *damarensis* Bak. f.: 163 (1926). Type: Namibia, Een s.n. (BM, holo.).

I. burkeana sensu J.B. Gillett: 125 (1958c) p.p., excl. specimens from Transvaal; A. Schreib.: 52 (1970), non Benth. ex Harv.

subsp. *goniodes* (Hochst. ex Bak.) Schrire, comb. nov.

Indigofera costata Guill. & Perr. subsp. *goniodes* J.B. Gillett in Kew Bulletin, Additional Series 1: 125 (1958c); J.B. Gillett: 320 (1971); Thulin: 99 (1983); Thulin: 137 (1990). *I. goniodes* Hochst. ex Bak.: 85 (1871). Type: Ethiopia, Tigray region, Dscha Dscha, 1854, Schimper 2242 (K, holo.); P!).

Indigastrum macrostachyum Jaub. & Spach: t. 493 (1857). Type: Ethiopia, Tigray region, Dscha Dscha, 1853, Schimper 1305 (P, holo.).

subsp. *macrum* (E. Mey.) Schrire, comb. nov.

Indigofera costata Guill. & Perr. subsp. *macra* (E. Mey.) J.B. Gillett in Kew Bulletin, Additional Series 1: 125 (1958c); A. Schreib.: 53 (1970). *I. macra* E. Mey.: 105 (1836); Harv.: 197 (1862); N.E. Br.: 373 (1932). *Anila macra* (E. Mey.) Kuntze: 939 (1891). Type: Cape, ad ripas fluvii Bashee, 500' (V, b), 26-1-1832, Drège 5419 (P, lecto.). Lectotype selected here.

I. macra E. Mey. var. *aequalis* N.E. Br.: 44 (1926). Type: Transvaal, Zoutpansberg, Messina, Moss & Rogers 131 (K, holo.).

I. goniodes sensu Eyles: 373 (1916) non Hochst. ex Bak.

I. goniodes Hochst. ex Bak. var. *rhodesica* Bak. f.: 76 (1920). Types: Zimbabwe, Bulawayo, F.A. Rogers 13666 (BM, syn.), Gardner 62 (K, syn.).

6. *Indigastrum fastigiatum* (E. Mey.) Schrire, comb. nov.

Indigofera fastigiata E. Mey., Commentariorum de plantis Africae australioris: 102 (1836); Harv.: 183 (1862); N.E. Br.: 373 (1932); J.B. Gillett: 124 (1958c). Type: Cape, inter Umzimvubu et Umsikaba, 1200' (V, b), 2-1832, Drège 5433 (P, lecto.). Lectotype selected here.

I. fastigiata E. Mey. var. *angustata* Harv.: 183 (1862). Type: Cape, Swartkops River, Zeyher 2442 (S, lecto.). Lectotype selected here.

I. rostrata Conrath: 223 (1908) non H. Bol.: 23 (1896). Type: Transvaal, Modderfontein, 1898, P. Conrath 1196 (K, holo.).

7. *Indigastrum guerranum* (Torre) Schrire, comb. nov.

Indigofera guerrana Torre in Memórias da Junta investigações do ultramar, sér. 2, 19: 61, t. 39 (1960); A. Schreib.: 57 (1970). Type: Angola, Mossamedes, entre o apeadeiro do C.F. Dois Iramas e Virei, 9-5-1957, B. Teixeira 2249 (LISC, holo.); COI, LUA).

8. *Indigastrum parviflorum* (Heyne ex Wight & Arn.) Schrire, comb. nov.

Indigofera parviflora Heyne ex Wight & Arn., Prodromus florae peninsulae Indiae orientalis: 201 (1834); Harv.: 198 (1862); Bak.: 83 (1871); Fries: 78 (1914); Bak. f.: 162 (1926); N.E. Br.: 367 (1932); J.B. Gillett: 126 (1958c); Cronq.: 170 (1954); A. Schreib.: 60 (1970); J.B. Gillett: 321 (1971); Thulin: 99 (1983); Thulin: 137 (1990). *Anila parviflora* (Heyne ex Wight & Arn.) Kuntze: 939 (1871). Type: India, in herbarium Wallich no. 5457, Heyne s.n. (K, holo.).

subsp. **parviflorum**var. **parviflorum**

Indigofera parviflora Heyne ex Wight & Arn. var. *parviflora* in J.B. Gillett in Kew Bulletin 1955: 582 (1956); J.B. Gillett: 126 (1958c).

I. deflexa Hochst. ex A. Rich.: 178 (1847). *Indigastrium deflexum* (Hochst. ex A. Rich.) Jaub. & Spach: t. 492 (1857). Type: Ethiopia, Tacaze River near Dschelad-scheranne, fl. 14-9-1840, *Schimper 1467* (P. lecto!; G. K!, S!, UPS). Lectotype selected here.

Indigofera barcensis Chiov.: 36 (1932). Type: Eritrea, *De Benedictis 200* (FT, holo.).

var. **crispidulum** (J.B. Gillett) Schrire, comb. nov.

Indigofera parviflora Heyne ex Wight & Arn. var. *crispidula* J.B. Gillett in Kew Bulletin, Additional Series 1: 126 (1958c). Type: Zimbabwe, Matobo Dist., ± 1 350 m, fl. 11-3-1947, West 2252 (K, holo.; SRGH).

subsp. **occidentalis** (J.B. Gillett) Schrire, comb. et stat. nov.

Indigofera parviflora Heyne ex Wight & Arn. var. *occidentalis* J.B. Gillett in Kew Bulletin 1955: 582 (1956); J.B. Gillett: 543 (1958a); J.B. Gillett: 178 (1958c); Torre: 137 (1962). Type: Senegal, *Leprieur s.n.* (P, holo.; BM!).

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