

latis petiolis usque ad 5 mm. longis laminis foliorum coriaceis ellipticis 1.5--2 cm. longis 1--1.2 cm. latis apicaliter rotundis marginaliter antrorse serrulatis basaliter cuneato-acuminatis recedit.

This variety differs from the typical form of the species in its leaves being distinctly petiolate, the petioles to 5 mm. long, the blades coriaceous, elliptic, 1.5--2 cm. long, 1--1.2 cm. wide, apically rounded in outline, marginally antrorsely serrulate from the widest part to the apex, basally cuneate-acuminate into the petiole.

The variety is based on *Hatschbach* 46523 from rocky soil on campo rupestre at the airfield in the municipality of Rio de Contes, Bahia, Brazil, collected on May 17, 1983, and deposited in the Lundell Herbarium at the University of Texas. The collector describes the fresh corollas as blue.

STACHYTARPHETA VILLOSA var. *BAHIENSIS* Mold., var. nov.

Haec varietas a forma typica speciei petiolis 3--5 mm. longis laminis foliorum lanceolatis 1.5--4.5 cm. longis 1.2--2 cm. latis inflorescentiis laxioribus floribus sub anthesin divaricatis recedit.

This variety differs from the typical form of the species in its petioles being 3--5 mm. long, the leaf-blades lanceolate, 1.5--4.5 cm. long and 1.2--2 cm. wide, apically acute, marginally antrorsely serrulate, basally cuneate-attenuate, the inflorescence during full anthesis more loosely flowered, and the flowers more separate and divaricate.

The variety is based on *Hatschbach* 46386 from chapada in the vicinity of Aracatú, Bahia, Brazil, collected on May 14, 1983, and deposited in the Lundell Herbarium at the University of Texas. The collector describes the plant as a branched shrub, 1.5 m. tall, the corolla violet in color when fresh, with the tube white inside.

ADDITIONAL NOTES ON THE *ERIOCAULACEAE*. XCIII

Harold N. Moldenke

PAEPALANTHUS GLAZIOVII Ruhl.

Additional bibliography: Mold., *Phytologia* 37: 44 (1977) and 38: 36. 1977; Mold., *Phytol. Mem.* 2: 154 & 613. 1980; Mold., *Phytologia* 50: 247 (1982) and 54: 236. 1983.

Recent collectors describe this plant as a subshrub, 70 cm. tall, the flower-heads white, and have encountered it in brejo and on flooded areas "formando moita na orla de mata", in both flower and fruit in August and November.

Additional citations: BRAZIL: Distrito Federal: *Filgueiras* 894 (N); *Heringer, Paula, Mendonça, & Salles* 48 (Fe, Ld). Goiás:

Kinoshita & Tamashiro 3745 (Ld).

PAEPALANTHUS GLEASONII Mold.

Additional bibliography: Mold., *Phytologia* 37: 44. 1977; Mold., *Phytol. Mem.* 2: 117, 122, 154, & 614. 1980.

PAEPALANTHUS GLOBOSUS Ruhl.

Additional bibliography: Mold., *Phytologia* 29: 483--484. 1974; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

PAEPALANTHUS GNEISSICOLA Alv. Silv.

Additional bibliography: Mold., *Phytologia* 41: 481--482. 1979; Mold., *Phytol. Mem.* 2: 154, 425, & 614. 1980.

Additional citations: MOUNTED ILLUSTRATIONS: Alv. Silv., Fl. Mont. 1: pl. 77. 1928 (Ld).

PAEPALANTHUS GOMESII Alv. Silv.

Additional bibliography: Mold., *Phytologia* 37: 44 & 51. 1977; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Additional citations: MOUNTED ILLUSTRATIONS: Alv. Silv., Fl. Mont. 1: pl. 39. 1928 (Ld, W).

PAEPALANTHUS GONÇALENSIS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 35: 26. 1976; Mold., *Phytol. Mem.* 2: 154, 425, & 614. 1980.

Additional citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., Fl. Mont. 1: 260, pl. 172 prim.[=171]. 1928 (Ld, N, W).

PAEPALANTHUS GOUNELLEANUS Beauverd

Additional bibliography: Mold., *Phytologia* 29: 485--486. 1974; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Citations: MOUNTED CLIPPINGS: Beauverd, *Bull. Herb. Boiss.*, ser. 2, 8: 292. 1908 (N, W).

PAEPALANTHUS GRANATENSIS KÙrn.

Additional bibliography: Mold., *Phytologia* 29: 486. 1974; Mold., *Phytol. Mem.* 2: 110 & 614. 1980.

PAEPALANTHUS GRAO-MOGOLENSIS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 29: 486--487. 1974; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv. Fl. Mont. 1, 133--134, pl. 83. 1928 (Ld, N, W).

PAEPALANTHUS GRISEUS Mold.

Additional bibliography: Mold., *Phytologia* 29: 487. 1974; Mold., *Phytol. Mem.* 2: 122 & 614. 1980.

PAEPALANTHUS GUARAIENSIS Mold.

Additional bibliography: Mold., *Biol. Abstr.* 64: 4787. 1977; Mold., *Phytologia* 37: 45. 1977; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Additional citations: MOUNTED ILLUSTRATIONS: Mold., Phytologia 36: 50, fig. 1. 1977 (Ld).

PAEPALANTHUS GUSTAVII Alv. Silv.

Additional bibliography: Mold., Phytologia 29: 487--488. 1974; Mold., Phytol. Mem. 2: 154 & 614. 1980.

Citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., Fl. Mont. 1: 227--228, pl. 150. 1928 (Ld, N, W).

PAEPALANTHUS GUYANENSIS Klotzsch

Additional bibliography: Mold., Phytologia 29: 488--489. 1974; Mold., Phytol. Mem. 2: 122 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS: Klotzsch in Schomb., Reise Brit.-Guian. 3: 1064. 1848 (W).

PAEPALANTHUS GYROTRICHUS Ruhl.

Additional bibliography: Mold., Phytologia 41: 482. 1979; Mold., Phytol. Mem. 2: 154 & 614. 1980.

PAEPALANTHUS HABENULIFER Alv. Silv.

Additional bibliography: Mold., Phytologia 29: 489--490. 1974; Mold., Phytol. Mem. 2: 154 & 614. 1980.

Citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., Fl. Mont. 1: 263--265, pl. 175. 1928 (Ld, N, W).

PAEPALANTHUS HARLEYI Mold., Phytologia 45: 472, 474, & 475, pl. 3. 1980.

Bibliography: Mold., Phytologia 45: 472, 474, & 475, pl. 3. 1980; Mold., Phytol. Mem. 2: 154 & 614. 1980.

Illustrations: Mold., Phytologia 45: 474, pl. 3. 1980.

Collectors have described this plant as an erect herb, to 20 cm. tall, the leaves dark glaucous-green, the "culms" silvery-gray, and the involucral bracts dark and reflexed. They have found it growing on "metamorphic sandstone and quartzite rock outcrops with associated marsh, damp flushes and grassland and some cutover mixed deciduous woodland by streams and cerrado", at 1500--1600 m. altitude, in flower in March.

Citations: BRAZIL: Bahia: *Harley, May, Storr, Santos, & Pinheiro in Harley 18728* (Ld--isotype, N--isotype), 19650 (Ld, N, W--2936319).

PAEPALANTHUS HARMSII Ruhl.

Additional bibliography: Mold., Phytologia 29: 490. 1974; Mold., Phytol. Mem. 2: 154 & 614. 1980.

PAEPALANTHUS HEMIGLOBOSUS Alv. Silv.

Additional bibliography: Mold., Phytologia 29: 490--491. 1974; Mold., Phytol. Mem. 2: 154 & 614. 1980.

Citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., Fl. Mont. 1: 181--183, pl. 117. 1928 (Ld, N, W).

PAEPALANTHUS HENRIQUEI Alv. Silv. & Ruhl.

Additional bibliography: Mold., *Phytologia* 37: 45. 1977; Mold., *Phytol. Mem.* 2: 154, 401, 426, & 614. 1980.

Additional citations: BRAZIL: Santa Catarina: *Rambo* 49606 (W--2653318).

PAEPALANTHUS HERZOGII Mold.

Additional bibliography: Mold., *Phytologia* 29: 492. 1974; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS: Herzog, *Feddes Repert. Spec. Nov.* 20: 87, 1924 (Ld, N, W).

PAEPALANTHUS HETEROCAULON Alv. Silv.

Additional bibliography: Mold., *Phytologia* 29: 492--493. 1974; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., *Fl. Mont.* 1: 203--205, pl. 134. 1928 (Ld, N, W).

PAEPALANTHUS HETEROPUS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 29: 493. 1974; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., *Fl. Mont.* 1: 139--140, pl. 87. 1928 (Ld, N, W).

PAEPALANTHUS HETEROTRICHUS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 29: 493. 1974; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., *Fl. Mont.* 1: 200--201, pl. 132. 1928 (Ld, N, W).

PAEPALANTHUS HILAIREI Körn.

Additional & emended bibliography: Bong., *Mem. Acad. Imp. Sci. St. Petersb.*, ser. 6, 1: 620--621 & 637. 1831; Mold., *Phytologia* 37: 45, 269, & 271--273. 1977; Mold., *Phytol. Mem.* 2: 154, 369, 398, 400, 404, 426, & 614. 1980; Mold. in Harley & Mayo, *Toward Checklist Fl. Bahia* 74. 1980.

The *Damasio s.n.* [Herb. Jard. Bot. Rio Jan. 63741], distributed as typical *P. hilairei*, actually represents its var. *maximiliani* Ruhl.

PAEPALANTHUS HILAIREI var. *MAXIMILIANI* Ruhl.

Additional bibliography: Mold., *Phytologia* 37: 45. 1977; Mold., *Phytol. Mem.* 2: 154 & 614. 1980.

Berg describes this plant as an herb, 1 m. tall, with white "flowers", and encountered it in restinga alagada, in flower in August.

Additional citations: BRAZIL: Guanabara: C. C. Berg 235 (Ut--370659B). Minas Gerais: *Damasio s.n.* [Herb. Jard. Bot. Rio Jan. 63741] (Mi, W--2928662). Rio de Janeiro: Souza 99 [Herb. FEEMA 17316] (Ld).

PAEPALANTHUS HILAIREI var. *PIAUHYENSIS* Ruhl.

Additional bibliography: Mold., Phytologia 37: 45. 1977; Mold., Phytol. Mem. 2: 154 & 614. 1983.

PAEPALANTHUS HILAIREI var. *POHLIANUS* Mold.

Additional bibliography: Mold., Phytologia 37: 45. 1977; Mold., Phytol. Mem. 2: 154, 426, & 614. 1980.

PAEPALANTHUS HISPIDISSIMUS Herzog

Additional bibliography: Mold., Phytologia 37: 45. 1977; Mold., Phytol. Mem. 2: 154 & 614. 1980; Mold. in Harley & Mayo, Toward Checklist Fl. Bahia 74. 1980.

Recent collectors describe this plant as a neat rosette herb, to 6 cm. tall, the leaves closely appressed, firm, gray-green or rather dark-green, the involucrel bractlets dark-brown, and the florets white. They have found it growing in "open scrub on white sand with damp areas and extensive sedge meadows (brejo) partly burned over", in sandy soil of campo rupestre, and among "sandstone rocks and open scrub on hillsides", at 500--1950 m. altitude, in both flower and fruit in February, July, and November. Photographs were made of the Mori & al. collection in situ.

Additional citations: BRAZIL: Bahia: Carvalho, Lewis, & Hage 1050 (Ld); Harley, Mayo, Storr, Santos, & Pinheiro in Harley 18763 (Ld, N, W--2936336), 18847 (N); Harley, Renvoize, Erskine, Brighton, & Pinheiro in Harley 16100 (W--2791569); Mori 12952 (Ld, N); Mori, King, Santos, & Hage 12599 (Ld, W--2854253).

PAEPALANTHUS HOMOMALLUS (Bong.) Mart.

Additional bibliography: Kunth, Enum. Pl. 3: 574. 1841; Mold., Phytologia 29: 485 & 501--502. 1974; Mold., Phytol. Mem. 2: 154 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS: Kunth, Enum. Pl. 3: 574. 1841 (N, W).

PAEPALANTHUS HYDRA Ruhl.

Additional bibliography: Mold., Phytologia 37: 45. 1977; Mold., Phytol. Mem. 2: 154, 426, & 614. 1980.

Additional citations: BRAZIL: Minas Gerais: Maguire, Mendes Magalhães, & Maguire 49305 (W--2435328).

PAEPALANTHUS HYMENOLEPIS Alv. Silv.

Additional bibliography: Mold., Phytologia 35: 26. 1976; Mold., Phytol. Mem. 2: 154 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., Fl. Mont. 1: 183--184, pl. 118. 1928 (Ld, N, W).

PAEPALANTHUS IBITIPOCENSIS Alv. Silv.

Additional bibliography: Mold., Phytologia 33: 43. 1976; Mold., Phytol. Mem. 2: 155, 426, & 614. 1980.

Citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., Fl. Mont. 1: 54--55, pl. 30. 1928 (Ld, N, W).

PAEPALANTHUS IMPLICATUS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 30: 16--17. 1975; Mold., *Phytol. Mem.* 2: 155 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., *Fl. Mont.* 1: 158--160, pl. 100. 1928 (Ld, N, W).

PAEPALANTHUS INCANUS (Bong.) Körn.

Additional bibliography: Mold., *Phytologia* 41: 482. 1979; Mold., *Phytol. Mem.* 2: 155, 426, & 614. 1980.

Additional citations: MOUNTED CLIPPINGS: Kunth, *Enum. Pl.* 3: 572. 1841 (N, W).

PAEPALANTHUS INOPINATUS Mold., *Phytologia* 45: 475 & 476, pl. 4. 1980.

Bibliography: Mold., *Phytologia* 45: 475 & 476, pl. 4. 1980; Mold., *Phytol. Mem.* 2: 155 & 614. 1980.

Illustrations: Mold., *Phytologia* 45: 476, pl. 4. 1980.

Citations: BRAZIL: Bahia: *Harley, Mayo, Storr, Santos, & Pinheiro in Harley 20130* (Ld--isotype, N--isotype).

PAEPALANTHUS INSIGNIS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 30: 19. 1975; Mold., *Phytol. Mem.* 2: 155 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., *Fl. Mont.* 1: 193--194, pl. 127. 1928 (Ld, N, W).

PAEPALANTHUS INTERMEDIUS Körn.

Additional bibliography: Mold., *Phytologia* 37: 46. 1977; Mold., *Phytol. Mem.* 2: 155 & 614. 1980.

PAEPALANTHUS ITACAMBIRENSIS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 30: 20. 1975; Mold., *Phytol. Mem.* 2: 155 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., *Fl. Mont.* 1: 123--124, pl. 75. 1928 (Ld, N, W).

PAEPALANTHUS ITAMBEENSIS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 37: 46. 1977; Mold., *Phytol. Mem.* 2: 155 & 614. 1980.

Additional citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., *Fl. Mont.* 1: 46--47, pl. 24. 1928 (Ld, N, W).

PAEPALANTHUS ITATIENSIS Ruhl.

Emended synonymy: *Paepalanthus itatiensis* Ruhl. in Wettstein, *Denkschr. K. Akad. Wiss. Wien Math.-Nat.* 79: 87. 1908.

Additional bibliography: Ruhl. in Wettstein, *Denkschr. K. Akad. Wiss. Wien Math.-Nat.* 79: 87. 1908; Mold., *Phytologia* 37: 46. 1977; Mold., *Phytol. Mem.* 2: 155, 426, & 614. 1980.

Recent collectors describe this plant as an herb, to 25 cm. tall, with whitish inflorescences, and have found it growing in rocky soil among low vegetation on rocky hills, at 2000--2500 m.

altitude, in flower in September and October.

Additional citations: BRAZIL: Minas Gerais: *Bogner 1157* (Ld--photo); *Hatschbach & Kummrow 45554* (Ld). Rio de Janeiro: *Maas & Martinelli 3181* (Ld).

PAEPALANTHUS ITATIAIENSIS var. *GLABER*

Additional bibliography: Mold., *Phytologia* 30: 22. 1975; Mold., *Phytol. Mem.* 2: 155, 426, & 614. 1980.

PAEPALANTHUS ITHYPHYLLUS (Mart.) Mart.

Additional bibliography: Mold., *Phytologia* 37: 46. 1977; Mold., *Phytol. Mem.* 2: 155, 398, 401, 404, 426, 428, & 614. 1980.

PAEPALANTHUS JAUENSIS Mold.

Synonymy: *Paepalanthus jausensis* Mold., *Phytol. Mem.* 2: 426, in syn. 1980.

Additional bibliography: Mold., *Phytologia* 41: 482 (1979) and 44: 215. 1979; Mold., *Phytol. Mem.* 2: 117, 426, & 614. 1980; Mold., *Phytologia* 54: 264. 1983.

Recent collectors describe this plant as having pale-green "subcoriaceous" [but the herbarium material exhibits only thin apparently quite pliable!] leaves and white inflorescences. They have encountered it in dense clumps, at 2300--2580 m. altitude, in flower in October and both in flower and fruit in January and February.

Additional citations: VENEZUELA: Amazonas: *Steyermark 103840* (Ld, N, N); *Steyermark, Guariglia, Holmgren, Luteyn, & Mori 125932* (Ld), *126295* (Ld).

PAEPALANTHUS JAUENSIS var. *CAULESCENS* Mold., *Phytologia* 44: 215. 1979.

Bibliography: Mold., *Phytologia* 44: 215. 1979; Mold., *Phytol. Mem.* 2: 117 & 614. 1980.

Maguire and his associates refer to this as a "sterile plant with elongate caudex" and found it growing at the edge of a canyon escarpment, at 2685 m. altitude, identifying it as *P. duidae* Gleason.

Citations: VENEZUELA: Amazonas: *Maguire, Steyermark, Brewer-Carías, Maguire, & Espinosa 65639* (E--2901868). Bolívar: *Steyermark, Espinosa, McDiarmid, & Brewer-Carías 115893* (Ld--type).

PAEPALANTHUS JORDANENSIS Alv. Silv.

Additional bibliography: Mold., *Phytologia* 30: 24. 1975; Mold., *Phytol. Mem.* 2: 155, 426, & 614. 1980.

Citations: MOUNTED CLIPPINGS & ILLUSTRATIONS: Alv. Silv., *Fl. Mont.* 1: 92--93, pl. 56 & 57. 1928 (Ld, N, W).

PAEPALANTHUS KANAII Satake

Additional bibliography: Mold., *Phytologia* 41: 482. 1979; Mold., *Phytol. Mem.* 2: 301 & 614. 1980.

[to be continued]



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