

DE REBUS BROMELIACEARUM I

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ABSTRACT. This paper contains taxonomic and publication information for Bromeliaceae that was not included in, or which appeared after, the publication of L.B. Smith and R.J. Downs' *Flora Neotropica* Monograph 14, Part 1 (1974); Part 2 (1977); Part 3 (1979). Additionally, it contains, for new taxa, names and authors, publication sources and dates, country of origin, and locations of type specimens. Also included is miscellaneous supplemental information where useful and appropriate.

ABSTRACTO. Este trabajo contiene información taxonómica sobre Bromeliaceae la cual no fue incluida o que apareció después de la publicación de L.B. Smith y R.J. Downs' en *Flora Neotrópica* Monografía 14, Parte 1 (1974); Parte 2 (1977); Parte 3 (1979). Para las nuevas taxas se incluyen los nombres y los autores, las fuentes y las fechas de las publicaciones, el país de origen y la localización de los especímenes tipo. También, se incluye información complementaria donde se considera útil y apropiada.

INTRODUCTION

In 1979 the New York Botanical Gardens published for the Organization for Flora Neotropica the final portion of the monograph of the Bromeliaceae by Drs. Lyman B. Smith and Robert J. Downs (Smith & Downs 1974, 1977, 1979). The monograph was issued in three parts (part 1, Introduction and subfamily Pitcairnioideae; part 2, subfamily Tillandsioideae; and part 3, subfamily Bromelioideae); 46 genera and 2110 species were accepted.

Since the completion of that work, numerous additions, synonymies and nomenclatural changes have been proposed at generic, specific and subspecific levels. It is our intent in this paper to bring together all references to taxonomic changes that were not included in *Flora Neotropica* Monograph 14 (hereinafter referred to as FNM 14), and that have been published prior to February 1993, into a format that is directly comparable and supplementary to FNM 14. Also included are selected miscellaneous references to both old and new taxa that we believe to be appropriate and useful. The authors solicit additions and corrections.

All entries are arranged in a numbered, systematic sequence based on that used in FNM 14. The first number given is the genus number. Whole numbers are as published in FNM 14. Genus numbers with a decimal point were not included in FNM 14 or have been reclassified since its publication. Where the original author stated affinity, that has, in most cases, been followed. Where relationships were not stated or were ambiguous, the senior author has assigned the number based upon his understanding of the taxa involved.

Following the hyphen is the species number. Whole species numbers (with the exception of *Encholirium* for which see the note for that genus) are as published in FNM 14. Species numbers with a decimal point were not included in, or have been reclassified since, the publication of FNM 14. The numbers with a decimal assigned to new or reclassified taxa reflect the apparent affinity to taxa included in FNM 14. Where the original author stated affinity, that, in most cases, has been followed here. Where a relationship was not stated or was ambiguous, the senior author has assigned a number based upon his understanding of the taxa involved. For both species and genera the numbers to the right of the decimal point have, in most cases, been assigned on the order of publication and do not necessarily reflect the relationships among the "decimal taxa".

Directly following the species numbers are numerals or letters for subspecific taxa. Subspecific taxa are denoted as follows:

A subspecies is given a whole Arabic numeral in parenthesis, e.g.:(2).

A variety is given a lower case letter, e.g.:b.

A forma is given a lower case Roman numeral, e.g.:ii.

Subspecific taxon "(1)" or "a" is not listed unless this contains a taxon of lower rank. Similarly, the type form "i" is not listed.

The sequence given subspecific taxa is that used in FNM 14; for taxa not there included, or for newly reclassified taxa, the sequence, in most cases, is based on publication date and does not necessarily reflect relationships among the subspecific taxa.

Validly named and described natural hybrids as well as badly misclassified taxa (i.e.: *T. maxima* Strangeways), are denoted by zero (“0”).

Following the numbers is the taxon’s name (orthographic corrections, mostly involving gender, having been made where appropriate) and author. For new taxa, new combinations, and changes in rank, the name and date of the publication is given. Basionyms are listed for new combinations and changes in rank.

Following the publication information for new taxa is listed the country of origin, and in most cases, a state, province, department or similar geo-political “type” locality. The location of the holotype and isotypes is given using standard abbreviations used in *Index Herbariorum* ed. 8 (Holmgren et al., 1990).

References for synonymy are listed after the equal (=) sign.

All entries concerning reclassification, synonymy or miscellaneous supplementary notes, if not referenced, are based upon the senior author’s understanding of the taxa involved.

General and frequently cited references are listed in the literature cited. References to specific taxa are included in the main text.

1 PUYA Molina.

- 1-3.1 **P. gerdae** Weber, in Müller, Gutte, Müller & Schulz, Cat. Herb. Lip., Plant. Peru II. 41-2. 1984. Peru:Lima. [Holo:LZ; Iso:SMF,HAL]. See also J. Bromeliad Soc. 36: 55-9. 1986.
- 1-10.1 **P. mima** L.B. Smith & R.W. Read, Phytologia 41:329,335. 1979. Peru:Cajamarca. [Holo:US; Iso:UC].
- 1-29.1 **P. textoragricolae** Weber, Feddes Repert. 97:101. 1986. Nom. nov.
—Basionym: *Pitcairnia weberbaueri* Mez, Bull. Herb. Boiss. II.4:627. 1904, non *Puya weberbaueri* Mez, Bull. Herb. Boiss. II. 4:633. 1904.
- 1-35.1 **P. serranoensis** Rauh, Trop. Subtrop. Pflanzenwelt 41:14-9. 1983. Bolivia:Santa Cruz. [Holo:HEID].
- 1-35.1b **P. serranoensis** var. **brevispica** Rauh, Trop. Subtrop. Pflanzenwelt 52:15-7. 1985. Bolivia:Santa Cruz. [Holo:HEID].
- 1-35.2 **P. vallo-grandensis** Rauh, Trop. Subtrop. Pflanzenwelt 41:9-14. 1983. Bolivia:Santa Cruz. [Holo:HEID].
- 1-35.2b **P. vallo-grandensis** var. **simplex** Rauh, Trop. Subtrop. Pflanzenwelt 52:18-20. 1985. Bolivia:Santa Cruz. [Holo:HEID].
- 1-38.1 **P. exuta** L.B. Smith & R.W. Read, Phytologia 33:429-30. 1976. Colombia:Boyaca. [Holo:COL].
- 1-56.1 **P. gutteana** Weber, in Müller, Gutte, Müller & Schulz, Cat. Herb. Lip., Plant Peru. II. 42-3. 1984. Peru:Cusco. [Holo:LZ; Iso:SMF,HAL].
- 1-63.1 **P. angelensis** E. Gross & Rauh, Trop. Subtrop. Pflanzenwelt 75:18-21. 1990. Ecuador:Carchi. [Holo:HEID].
- 1-66.1 **P. antioquiensis** L.B. Smith & R.W. Read, Rev. Acad. Colomb. Cienc. 17(65):234. 1989. Colombia:Antioquia. [Holo:US].
- 1-72.1 **P. solomonii** Varadarajan, J. Bromeliad Soc. 39:121-3. 1989. Bolivia:La Paz. [Holo:GH; Iso:LPB,MO,US].
- 1-74.1 **P. cleefii** L.B. Smith & R.W. Read, Phytologia 33:430. 1976. Colombia:Boyaca. [Holo:US; Iso:COL,U].
- 1-75.1 **P. silvae-baccae** L.B. Smith & R.W. Read, Ernstia 17:9-10. 1983. Venezuela:Zulia. [Holo:US; Iso:VEN].
- 1-82b **P. nitida** var. **glabrior** L.B. Smith & R.W. Read, Colombia:Boyaca. [Holo:COL; Iso:U].
- 1-84b **P. macbridei** var. **yungayensis** Weber, in G. K. Müller et al., Cat. Herb. Lip., Plant Peru. II. p. 44. 1984. Peru:Ancash. [Holo:LZ; Iso:HAL,US].
- 1-91.1 **P. graffii** Rauh, Trop. Subtrop. Pflanzenwelt 52:5-14. 1985. Venezuela:Amazonas. [Holo:HEID]. See also J. Bromeliad Soc. 35:21-3. 1985.
- 1-91.2 **P. hromadnikii** Rauh, Trop. Subtrop. Pflanzenwelt 41:5-9. 1983. Bolivia:Santa Cruz. [Holo:HEID]. See also J. Bromeliad Soc. 32:69-71. 1982.

- 1-93 **P. ferox** Mez.
See Weber, J. Bromeliad Soc. 36:172-3. 1986.
- 1-95.1 **P. werneriana** R.W. Read & L.B. Smith, Trop. Subtrop. Pflanzenwelt 58:5-9. 1986. Peru:Junin. [Holo:HEID]. See also E. Gross, J. Bromeliad Soc. 38:113-6. 1988.
- 1-104.1 **P. ramonii** L.B. Smith, J. Bromeliad Soc. 40:57-8. 1990. Peru:Lambayeque. [Holo:US; Iso:USM].
- 1-106.1 **P. retrorsa** Gilmartin, Phytologia 57:455. 1985. Ecuador:Tungurahua. [Holo:US].
- 1-106.2 **P. horrida** L.B. Smith & R.W. Read, Rev. Acad. Colomb. Cienc. 17(65):234. 1989. Colombia:Cundinamarca. [Holo:US].
- 1-109.1 **P. lutheri** W. Till, Novon 2:443-4. 1992. Peru:Ancash. [Holo:ISC; Iso:MO].
- 1-116.1 **P. gerd-muelleri** Weber, in Müller, Gutte, Müller, & Schulz, Cat. Herb. Lip., Plant Peru. II. 42. 1984. Peru:Cajamarca. [Holo:LZ].
- 1-136.1 **P. hamata** L.B. Smith.
Formerly 161 in Smith & Downs (1974).
Emended L.B. Smith & R.W. Read, Phytologia 52:49. 1982.
- 1-137b **P. trianae** var. **amplior** L.B. Smith & R.W. Read, Phytologia 33:431. 1976. Colombia:Boyaca. [Holo:US; Iso:COL,U].
- 1-146.1 **P. dichroa** L.B. Smith & R.W. Read, Phytologia 33:431. 1976. Colombia:Boyaca. [Holo:COL].
- 1-162.1 **P. quillotana** Weber, Feddes Repert. 95:577,579. 1984. Chile. [Holo:HAL; Iso:KIEL].
- 1-163.1 **P. gilmartiniae** Varadarajan & Flores, J. Bromeliad Soc. 40:161.-5 1990. Chile:La Serena. [Holo:GH].

2 ENCHOLIRIUM Martius. For a complete revision of this greatly enlarged genus, see L.B. Smith & R.W. Read, Bradea 5:296-311. 1989. The species numbers given below are based on this revision; it was not practical to relate all of them to the Smith & Downs (1974) treatment.

- 2-2 **E. luxor** L.B. Smith & R.W. Read, Bradea 5:299,304. 1990. Brazil:Minas Gerais. [Holo:US].
- 2-3 **E. harleyi** L.B. Smith & R.W. Read, Bradea 5:299-300,305. 1989. Brazil:Bahia. [Holo:K].
- 2-4 **E. horridum** L.B. Smith.
Formerly 2 in Smith & Downs (1974).
- 2-5 **E. erectiflorum** L.B. Smith.
Formerly 2a in Addendum to Smith & Downs (1974).
- 2-6 **E. gracile** L.B. Smith.
Formerly 3 in Smith & Downs (1974).
- 2-7 **E. irwinii** L.B. Smith.
Formerly 4 in Smith & Downs (1974).
- 2-8 **E. lutzii** L.B. Smith.
Formerly 5 in Smith & Downs (1974).
- 2-9 **E. patens** L.B. Smith.
Formerly 5a in Addendum to Smith & Downs (1974).
- 2-10 **E. hoehneanum** L.B. Smith.
Formerly 6 in Smith & Downs (1974).
- 2-11 **E. bahianum** L.B. Smith & R.W. Read, Bradea 5:300-1,306. 1990. Brazil:Bahia. [Holo:US].
- 2-12 **E. piresianum** L.B. Smith & R.W. Read, Bradea 5:301,307. 1990. Brazil:Distrito Federal. [Holo:US].
- 2-13 **E. bradeanum** L.B. Smith.
Formerly 7 in Smith & Downs (1974).
- 2-14 **E. glaziovii** Mez.
Formerly 8 in Smith & Downs (1974).
- 2-15 **E. subsecundum** (Baker) Mez.
Formerly 9 in Smith & Downs (1974).
- 2-16 **E. magalhaesii** L.B. Smith.
Formerly 10 in Smith & Downs (1974).
- 2-17 **E. suzannae** Rauh, Trop. Subtrop. Pflanzenwelt 65:19-22. 1988. Brazil:Minas Gerais. [Holo:HEID].

- 2-18 **E. densiflorum** Ule.
Formerly 11 in Smith & Downs (1974).
- 2-19 **E. belemii** L.B. Smith & R.W. Read, Bradea 5:301-2,308. 1990. Brazil:Minas Gerais. [Holo:US].
- 2-20 **E. pernambucanum** L.B. Smith & R.W. Read, Bradea 5:302,309. 1990. Brazil:Pernambuco. [Holo:US].
- 2-21 **E. paraibae** L.B. Smith & R.W. Read, Bradea 5:302,310. 1990. Brazil:Paraiba. [Holo:US].
- 2-22 **E. brachypodium** L.B. Smith & R.W. Read, Bradea 5:302,311. 1990. Brazil:Bahia. [Holo:RBC].
- 2-23 **E. rupestre** Ule.
Formerly 12 in Smith & Downs (1974).
- 2-24 **E. lymanianum** Pereira & Martinelli, Bradea 3:252-3,256,259. 1982. Brazil:Mato Grosso. [Holo:RB; Iso:HB,US,K,GUA].
- 2-25 **E. pedicellatum** (Mez) Rauh, Trop. Subtrop. Pflanzenwelt 60:14-5. 1987.
—Basionym: *Dyckia pedicellata* Mez in C. DeCandolle, Monogr. Phan. 9:515. 1896.
- 2-26 **E. vogelii** Rauh, Trop. Subtrop. Pflanzenwelt 60:95-8. 1987. Brazil:Minas Gerais. [Holo:HEID].
- 2-27 **E. sazimae** Rauh, Trop. Subtrop. Pflanzenwelt 60:99-102. 1987. Brazil:Minas Gerais. [Holo:HEID].
- 2-29 **E. inerme** Rauh, Trop. Subtrop. Pflanzenwelt 60:11-3. 1987. Brazil:Minas Gerais. [Holo:HEID].
- 2-31 **E. scrutor** (L. B. Smith) Rauh, Trop. Subtrop. Pflanzenwelt 60:94-5. 1987.
—Basionym: *Dyckia scrutor* L.B. Smith, J. Bromeliad Soc. 37:151,155. 1987.
—Syn.: *E. carmineoviridiflorum* Rauh.
- 2-32 **E. carmineoviridiflorum** Rauh, Trop. Subtrop. Pflanzenwelt 60:9-11. 1987. Brazil:Minas Gerais. [Holo:HEID].
= *E. scrutor* (L.B. Smith) Rauh, Trop. Subtrop. Pflanzenwelt 60:94. 1987.
- 3 FOSTERELLA** L.B. Smith. See Smith & Read, Phytologia 52:49-50. 1983.
- 3-2.1 **F. caulescens** Rauh, Trop. Subtrop. Pflanzenwelt 31:23-9. 1979. Bolivia:La Paz. [Holo:HEID].
- 3-6.1 **F. elata** Luther, Selbyana 5:310-1. 1981. Bolivia:La Paz. [Holo:SEL; Iso:US].
- 3-12 **F. schidosperma** (Baker) L.B. Smith.
Syn.: *Lindmania schidosperma* (Baker) Ravenna.
- 3-12b **F. schidosperma** var. *vestita* L.B. Smith & R.W. Read, Phytologia 52:49-50. 1982. Peru:Puno. [Holo:US; Iso:MO].
- 3-12.1 **F. heterophylla** Rauh, Trop. Subtrop. Pflanzenwelt 60:24-6. 1987. Bolivia:La Paz. [Holo:HEID].
- 4 CONNELLIA** Brown. See Oliva-Esteva & Steyermark (1987 p.321-2).
- 4-1.1 **C. varadarajanii** L.B. Smith & Steyermark, J. Bromeliad Soc. 35:52-3. 1985. Venezuela:Bolivar. [Holo:VEN; Iso:US]; Fig. 1 is *Lindmania smithiana* (Steyermark & Luteyn) L.B. Smith.
- 4-2.1 **C. smithiana** Steyermark & Luteyn, J. Bromeliad Soc. 35:152-3. 1985. Venezuela: Bolivar. [Holo:VEN; Iso:NY].
= *Lindmania smithiana* (Steyermark & Luteyn) L.B. Smith, Ann. Missouri Bot. Gard. 73:693. 1986.
- 5 COTTENDORFIA** Schultes. See L.B. Smith et al., Ann. Missouri Bot. Gard. 73:690-1. "1986". 1987.
- 5-2 **C. serrulata** (L.B. Smith) L.B. Smith.
= *Lindmania serrulata* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-2b **C. serrulata** var. *reducta* (L.B. Smith) L.B. Smith.
= *Lindmania serrulata* var. *reducta* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.

- 5-3 **C. gracillima** L.B. Smith.
= *Lindmania gracillima* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-4 **C. wurdackii** (L.B. Smith) L.B. Smith.
= *Lindmania wurdackii* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-4.1 **C. lateralis** L.B. Smith & R.W. Read, Phytologia 30:289. 1975. Venezuela: Bolivar. [Holo:US; Iso:NY,VEN].
= *Lindmania lateralis* (Smith & Read) L.B. Smith & Robinson. See L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-5 **C. paludosa** (L.B. Smith) L.B. Smith.
= *Lindmania paludosa* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-6 **C. cylindrostachya** (L.B. Smith) L.B. Smith.
= *Lindmania cylindrostachya* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-7 **C. savannensis** L.B. Smith.
= *Lindmania savannensis* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-7.1 **C. atrorosea** L.B. Smith, Steyermark & Robinson Brittonia 33:28-33. 1981. Venezuela: Bolivar. [Holo:US; Iso:VEN].
= *Lindmania atrorosea* (Smith, Steyermark & Robinson) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-8 **C. nubigena** L.B. Smith.
= *Lindmania nubigena* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-9 **C. dyckioides** L.B. Smith.
= *Lindmania dyckioides* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-10 **C. argentea** (L.B. Smith) L.B. Smith.
= *Lindmania argentea* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-11 **C. phelpsiæ** (L.B. Smith) L.B. Smith.
= *Lindmania phelpsiæ* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-12 **C. dendritica** L.B. Smith.
= *Lindmania dendritica* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-13 **C. longipes** L.B. Smith.
= *Lindmania longipes* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-14 **C. geniculata** (L.B. Smith) L.B. Smith.
= *Lindmania geniculata* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-14b **C. geniculata** var. **minor** L.B. Smith, Steyermark & Robinson, Acta Bot. Venez. 14: 15. 1984. Venezuela: Amazonas. [Holo:US; Iso:NY,VEN].
= *Lindmania geniculata* var. *minor* (Smith, Steyermark & Robinson) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-15 **C. guianensis** (Beer) Baker.
= *Lindmania guianensis* (Beer) Mez. See L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-15b **C. guianensis** var. **vestita** L.B. Smith
= *Lindmania guianensis* var. *vestita* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-16 **C. maguirei** L.B. Smith.
= *Lindmania maguirei* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.
- 5-17 **C. brachyphylla** (L.B. Smith) L.B. Smith.
= *Lindmania brachyphylla* L.B. Smith, Ann. Missouri Bot. Gard. 73:691-6. "1986". 1987.

- 5-17b **C. brachyphylla** var. **angustior** L.B. Smith, Steyermark & Robinson Brittonia 33:28–33. 1981. Venezuela: Bolivar. [Holo:US; Iso:VEN].
= *Lindmania brachyphylla* var. *angustior* (Smith, Steyermark & Robinson) R.W. Read. See L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-18 **C. steyermarkii** (L.B. Smith) L.B. Smith.
= *Lindmania steyermarkii* L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-19 **C. tillandsioides** (L.B. Smith) L.B. Smith.
= *Lindmania tillandsioides* L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-20 **C. subsimplex** (L.B. Smith) L.B. Smith.
= *Lindmania subsimplex* L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-20.1 **C. arachnoidea** L.B. Smith, Steyermark & Robinson Acta Bot. Venez. 14(3):9. 1984. Venezuela: Amazonas. [Holo:US; Iso:NY,VEN].
= *Lindmania arachnoidea* (Smith, Steyermark & Robinson) L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-21 **C. thyrsoides** (L.B. Smith) L.B. Smith, Steyermark & Robinson.
= *Lindmania thyrsoides* L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-22 **C. stenophylla** (L.B. Smith) L.B. Smith.
= *Lindmania stenophylla* L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-23 **C. minor** (L.B. Smith) L.B. Smith.
= *Lindmania minor* L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-23.3 **C. marahuacae** L.B. Smith, Steyermark & Robinson Acta Bot. Venez. 14(3):9–10. 1984. Venezuela: Amazonas. [Holo:US; Iso:NY,VEN].
= *Lindmania marahuacae* (Smith, Steyermark & Robinson) L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5-24 **C. navioides** (L.B. Smith) L.B. Smith.
= *Lindmania navioides* L.B. Smith, Ann. Missouri Bot. Gard. 73:691–6. “1986”. 1987.
- 5.1 STEYERBROMELIA** L.B. Smith, Acta Bot. Venez. 14(3):8. 1984, without type; Ann. Missouri Bot. Gard. 73:699. “1986”, publ. 1987, with type. See also Oliva-Esteva & Steyermark (1987 p.388-9).
- 5.1-1 **S. discolor** L.B. Smith & Robinson, Acta Bot. Venez. 14(3):8. 1984. Venezuela: Amazonas. [Holo:US; Iso:NY,VEN].
- 5.1-2 **S. deflexa** L.B. Smith & Robinson, Acta Bot. Venez. 14(3):12. 1984. Venezuela: Amazonas. [Holo:US; Iso:NY,VEN].
- 5.1-3 **S. diffusa** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:700 “1986”. 1987. Venezuela: Amazonas. [Holo:US; Iso:NY,VEN].
- 5.2 LINDMANIA** Mez. See L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:690–9. “1986”. 1987. See also Oliva-Esteva & Steyermark (1987 p.326-30).
- 5.2-2 **L. serrulata** L.B. Smith,
–Syn.: *Cottendorfia serrulata* (L.B. Smith) L.B. Smith.
- 5.2-2b **L. serrulata** var. **reducta** L.B. Smith.
–Syn.: *L. serrulata* var. *reducta* (L.B. Smith) L.B. Smith.
- 5.2-2.1 **L. sessilis** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:693. “1986”. 1987. Venezuela: Bolivar. [Holo:US; Iso:VEN].
- 5.2-2.2 **L. saxicola** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:693. “1986”. 1987. Venezuela: Bolivar. [Holo:US; Iso:VEN].
- 5.2-3 **L. gracillima** (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. “1986”. 1987.
–Basionym: *Cottendorfia gracillima* L.B. Smith, Phytologia 7:418. 1961.

- 5.2-4 **L. wurdackii** L.B. Smith,
Syn.: *Cottendorfia wurdackii* (L.B. Smith) L.B. Smith.
- 5.2-4.1 **L. lateralis** (L.B. Smith & R.W. Read) L.B. Smith & Robinson, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia lateralis* L.B. Smith & R.W. Read, Phytologia 30:289. 1975.
- 5.2-5 **L. paludosa** L.B. Smith,
—Syn.: *Cottendorfia paludosa* (L.B. Smith) L.B. Smith.
- 5.2-5.1 **L. schidosperma** (Baker) Ravenna, Wrightia 7:253. 1983.
= *Fosterella schidosperma* (Baker) L.B. Smith.
- 5.2-6 **L. cylindrostachya** L.B. Smith.
—Syn.: *Cottendorfia cylindrostachya* (L.B. Smith) L.B. Smith.
- 5.2-7 **L. savannensis** (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia savannensis* L.B. Smith, Mem. N.Y. Bot. Gard. 10:16. 1960.
- 5.2-7.1 **L. atrorosea** (L.B. Smith, Steyermark & Robinson) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia atrorosea* L.B. Smith, Brittonia 33:28. 1981.
- 5.2-8 **L. nubigena** (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia nubigena* L.B. Smith, Mem. N.Y. Bot. Gard. 10:16. 1960.
- 5.2-9 **L. dyckioides** (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:693. "1986". 1987.
—Basionym: *Cottendorfia dyckioides* L.B. Smith, Mem. N.Y. Bot. Gard. 18:31. 1969.
- 5.2-10 **L. argentea** L.B. Smith.
—Syn.: *Cottendorfia argentea* (L.B. Smith) L.B. Smith.
- 5.2-11 **L. phelpisiae** L.B. Smith.
—Syn.: *Cottendorfia phelpisiae* (L.B. Smith) L.B. Smith.
- 5.2-12 **L. dendritica** (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia dendritica* L.B. Smith, Mem. N.Y. Bot. Gard. 18:31. 1969.
- 5.2-13 **L. longipes** (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia longipes* L.B. Smith, Mem. N.Y. Bot. Gard. 14:22. 1967.
- 5.2-14 **L. geniculata** L.B. Smith.
—Syn.: *Cottendorfia geniculata* (L.B. Smith) L.B. Smith.
- 5.2-14b **L. geniculata** var. *minor* (Smith, Steyermark & Robinson) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia geniculata* var. *minor* Smith, Steyermark & Robinson in Steyermark et al., Acta Bot. Venez. 14:15. 1984.
- 5.2-15 **L. guianensis** (Beer) Mez.
—Syn.: *Cottendorfia guianensis* (Beer) Klotzsch ex Baker.
- 5.2-15b **L. guianensis** var. *vestita* (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia guianensis* var. *vestita* L.B. Smith, Phytologia 7:419. 1961.
- 5.2-16 **L. maguirei** (L.B. Smith) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. "1986". 1987.
—Basionym: *Cottendorfia maguirei* L.B. Smith, Mem. N.Y. Bot. Gard. 18:31. 1969.
- 5.2-17 **L. brachyphylla** L.B. Smith.
—Syn.: *Cottendorfia brachyphylla* (L.B. Smith) L.B. Smith.
- 5.2-17b **L. brachyphylla** var. *angustior* (Smith, Steyermark & Robinson) L.B. Smith.
—Basionym: *Cottendorfia brachyphylla* var. *angustior* Smith, Steyermark & Robinson in Steyermark et al., Brittonia 33:28. 1981.
- 5.2-18 **L. steyermarkii** L.B. Smith.
—Syn.: *Cottendorfia steyermarkii* (L.B. Smith) L.B. Smith.
- 5.2-19 **L. tillandsioides** L.B. Smith.
—Syn.: *Cottendorfia tillandsioides* (L.B. Smith) L.B. Smith.
- 5.2-19.1 **L. riparia** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:695. "1986". 1987. Venezuela: Bolivar. [Holo:US; Iso:MAC,NY].

- 5.2-20 **L. subsimplex** L.B. Smith.
—Syn.: *Cottendorfia subsimplex* (L.B. Smith) L.B. Smith.
- 5.2-20.1 **L. arachnoidea** (L.B. Smith, Steyermark & Robinson) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. “1986”. 1987.
—Basionym: *Cottendorfia arachnoidea* Smith, Steyermark & Robinson, in Steyermark et al., Acta Bot. Venez. 14:9. 1984.
- 5.2-20.2 **L. aurea** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:697. “1986”. 1987. Venezuela: Bolivar. [Holo:US; Iso:VEN].
- 5.2-20.3 **L. imitans** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:697–8. “1986”. 1987. Venezuela: Bolivar. [Holo:US; Iso:VEN].
- 5.2-20.4 **L. holstii** Steyermark & L.B. Smith, J. Bromeliad Soc. 38:49,51–3. 1988. Venezuela: Bolivar. [Holo:MO; Iso:F,NY,US,VEN].
- 5.2-21 **L. thyrsoides** L.B. Smith.
—Syn.: *Cottendorfia thyrsoides* (L.B. Smith) L.B. Smith.
- 5.2-21.1 **L. smithiana** (Steyermark & Luteyn) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. “1986”. 1987.
—Basionym: *Connellia smithiana* Steyermark & Luteyn, J. Bromeliad Soc. 35:152. 1985.
- 5.2-22 **L. stenophylla** L.B. Smith.
—Syn.: *Cottendorfia stenophylla* (L.B. Smith) L.B. Smith.
- 5.2-23 **L. minor** L.B. Smith.
—Syn.: *Cottendorfia minor* (L.B. Smith) L.B. Smith.
- 5.2-23.1 **L. piresii** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:698. “1986”. 1987. Brazil: Amazonas. [Holo:US; Iso:IPEAN].
- 5.2-23.2 **L. terramarae** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:698–9. “1986”. 1987. Venezuela: Amazonas. [Holo:US; Iso:NY,VEN].
- 5.2-23.3 **L. marahuacae** (L.B. Smith, Steyermark & Robinson) L.B. Smith, Ann. Missouri Bot. Gard. 73:695. “1986”. 1987.
—Basionym: *Cottendorfia marahuacae* Smith, Steyermark & Robinson, in Steyermark et al., Acta Bot. Venez. 14:9. 1984.
- 5.2-24 **L. navioides** L.B. Smith.
—Syn.: *Cottendorfia navioides* (L.B. Smith) L.B. Smith.
- 5.2-24.1 **L. huberi** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:699. “1986”. 1987. Venezuela: Bolivar. [Holo:US; Iso:NY,VEN].

6 DEUTEROCOHNIA Mez.

- 6-1.1 **D. recurvipetala** E. Gross, Trop. Subtrop. Pflanzenwelt 79:5–7. 1991. Argentina: Cerro Colorado. [Holo:HEID].
- 6-2b **D. meziana** var. **carmineoviridiflora** Rauh, Trop. Subtrop. Pflanzenwelt 52:20–3. 1985. Bolivia. [Holo:HEID].
- 6-2.1 **D. brevispicata** Rauh & L. Hromadnik, Trop. Subtrop. Pflanzenwelt 65:5–8. 1988. Bolivia: Chuquisaca. [Holo:HEID].
- 6-3.1 **D. glandulosa** E. Gross, Trop. Subtrop. Pflanzenwelt 75:5–8. 1990. Bolivia: Tarija. [HEID].

7 ABROMEITIELLA Mez. See Cook, Vandervort & Rauh, J. Bromeliad Soc. 40:196–9. 1990.

- 7-2.1 **A. scapigera** Rauh & L. Hromadnik Trop. Subtrop. Pflanzenwelt 60:5–8. 1987. Bolivia: Potosi. [Holo:HEID].
- 7-2.2 **A. lotteae** Rauh, Trop. Subtrop. Pflanzenwelt 42:5–12. 1983. Bolivia: Tarija. [Holo:HEID]. See also J. Bromeliad Soc. 33:239–42, 252. 1983.

8 PITCAIRNIA L’Heritier. See Varadarajan (1986).

- 8-0 **P. x daisyana** Luther, J. Bromeliad Soc. 34:272–4. 1984. Ecuador: Cotopaxi [Holo:SEL].
- 8-1 **P. agavifolia** L.B. Smith.
= *Pepinia agavifolia* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.

- 8-2 **P. nuda** Baker.
= *Pepinia nuda* (Baker) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-3 **P. wurdackii** L.B. Smith.
= *Pepinia wurdackii* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-4 **P. mituensis** L.B. Smith.
= *Pepinia mituensis* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-5 **P. kunhardtiana** L.B. Smith.
= *Pepinia kunhardtiana* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-6 **P. bulbosa** L.B. Smith.
= *Pepinia bulbosa* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-6.1 **P. rondonicola** L.B. Smith & R.W. Read, J. Bromeliad Soc. 36:10–1. 1986. Brazil: Amazonas. [Holo:NY; Iso:MG].
- 8-7 **P. heliophila** L.B. Smith.
= *Pepinia heliophyla* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-8 **P. armata** Maury.
= *Pepinia armata* (Maury) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-9 **P. breweri** L.B. Smith.
= *Pepinia breweri* (Maury) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-10 **P. geyskesii** L.B. Smith.
= *Pepinia geyskesii* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-11 **P. pruinosa** Humboldt, Bonpland & Kunth.
= *Pepinia pruinosa* (Humboldt, Bonpland & Kunth) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-12 **P. patentiflora** L.B. Smith.
= *Pepinia patentiflora* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-12b **P. patentiflora** var. **subintegra** L.B. Smith.
This taxon was never transferred to *Pepinia*.
- 8-12c **P. patentiflora** var. **macrantha** L.B. Smith.
This taxon was never transferred to *Pepinia*.
- 8-12d **P. patentiflora** var. **armata** L.B. Smith.
This taxon was never transferred to *Pepinia*.
- 8-12.1 **P. luschnathii** Weber, Feddes Repert. 97:95–8. 1986. Brazil. [Holo:KIEL].
- 8-13 **P. killipiana** L.B. Smith.
= *Pepinia killipiana* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-13b **P. killipiana** var. **viridis** Varadarajan & Forero, Syst. Bot. 12(3):413. 1987. Colombia: Choco. [Holo:COL].
This taxon was never transferred to *Pepinia*.
- 8-13.1 **P. ulei** L.B. Smith.
Formerly 46 in Smith & Downs (1974).
See L.B. Smith & R.W. Read, Phytologia 52:50. 1982.
- 8-13.2 **P. aureobrunnea** Rauh, Trop. Subtrop. Pflanzenwelt 50:26–9. 1984. Peru:San Martin. [Holo:HEID].
- 8-14 **P. uaupensis** Baker.
= *Pepinia uaupensis* (Baker) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
Published incorrectly as “uaipanensis”.
- 8-15 **P. limae** L.B. Smith.
= *Pepinia limae* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-16 **P. ctenophylla** L.B. Smith.
= *Pepinia ctenophylla* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-17 **P. filispina** L.B. Smith.
= *Pepinia filispina* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-18 **P. punicea** Schweidweiler.

- = *Pepinia punicea* (Scheidweiler) Brongniart ex André.
See Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-19 **P. platypetala** Mez.
Emended L.B. Smith & R.W. Read, Brittonia 33:28–33. 1981.
= *Pepinia platypetala* (Mez) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-19.1 **P. sastrei** L.B. Smith & R. W. Read, Phytologia 30:290. 1975. Brazil:Amapa. [Holo:US; Iso:P].
- 8-19.2 **P. crinita** Pereira & Martinelli, Bradea 3:251–8. 1982. Brazil:Para. [Holo:RB; Iso:HB, MG, NY, K].
- 8-19.3 **P. nematophora** L.B. Smith & R.W. Read, Brittonia 33:28–33. 1981. Venezuela: Amazonas. [Holo:US; Iso:VEN].
- 8-19.4 **P. inaequalis** Weber in Feddes Repert. 97:93–5. 1986. Brazil. [Holo:KIEL].
- 8-19.5 **P. grafii** Rauh, J. Bromeliad Soc. 38:161–3. 1988. Venezuela:Tachira. [Holo:HEID].
See also Trop. Subtrop. Pflanzenwelt 65:27–31. 1988.
- 8-20 **P. aphelandriflora** Lemaire.
See Rauh, J. Bromeliad Soc. 37:28–9. 1987.
= *Pepinia aphelandriflora* (Lemaire) André. See Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-20.1 **P. attenuata** L.B. Smith & R.W. Read, Phytologia 41:329–30, 336. 1979. Peru:San Martin. [Holo:US; Iso:MO].
- 8-21 **P. turbinella** L.B. Smith.
= *Pepinia turbinella* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-22 **P. maguirei** L.B. Smith.
= *Pepinia maguirei* (L.B. Smith) Varadarajan & Gilmartin, in Syst. Bot. 13:294–9. 1988.
- 8-23 **P. anomala** Hoehne.
= *Pepinia anomala* (Hoehne) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-24 **P. quesnelioides** L.B. Smith.
Emended L.B. Smith & R.W. Read, Phytologia 38:135–6. 1977.
= *Pepinia quesnelioides* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-24.1 **P. serrulata** L.B. Smith & R.W. Read, Phytologia 38:135–6, 142. 1977. Peru: Amazonas. [Holo:US; Iso:MO].
- 8-24.2 **P. fimbriatobracteata** Rauh, Trop. Subtrop. Pflanzenwelt 53:48–51. 1985. Peru: Amazonas. [Holo:HEID]. See also J. Bromeliad Soc. 36:21–3. 1986.
= *Pepinia fimbriatobracteata* (Rauh) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-24.3 **P. beachiae** Utley & Burt-Utley, Ann. Missouri Bot. Gard. 78:266–7. 1991. Costa Rica:Puntarenas. [Holo:US, Iso:CR, F, MO].
= *Pepinia beachiae* (Utley & Burt-Utley) Luther, Phytologia 74:449. 1993.
- 8-25 **P. harlingii** L.B. Smith.
= *Pepinia harlingii* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-25.1 **P. carnososepala** Rauh & Gross, Trop. Subtrop. Pflanzenwelt 60:26–32. 1987. Ecuador:Pastaza. [Holo:HE].
= *Pepinia carnososepala* (Rauh & Gross) Luther, Phytologia 67:312. 1989.
- 8-26 **P. caricifolia** Martius ex Schultes f.
= *Pepinia caricifolia* (Martius) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-26b **P. caricifolia** var. **macrantha** L.B. Smith.
This taxon was never transferred to *Pepinia*.
- 8-27 **P. incarnata** Baker.
= *Pepinia incarnata* (Baker) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-28 **P. costata** L.B. Smith.
= *Pepinia costata* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-29 **P. juncooides** L.B. Smith.
= *Pepinia juncooides* (L.B. Smith) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.
- 8-30 **P. bradei** Margraf.
= *Pepinia bradei* (Markgraf) Varadarajan & Gilmartin, Syst. Bot. 13:294–9. 1988.

- 8-30.1 **P. luteyniorum** L.B. Smith & R.W. Read, *Phytologia* 52:50–1,57. 1982. Colombia: Narino. [Holo:US; Iso:COL, NY].
= *Pepinia luteyniorum* (Smith & Read) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-31 **P. amblyosperma** L.B. Smith.
= *Pepinia amblyosperma* (L.B. Smith) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-32 **P. alborubra** Baker.
= *Pepinia alborubra* (Baker) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-32.1 **P. bifaria** L.B. Smith.
Formerly 32a in Addendum to Smith & Downs (1974).
- 8-32.2 **P. wolfei** L.B. Smith.
Formerly 32b in Addendum to Smith & Downs (1974).
- 8-33 **P. rubiginosa** Baker.
= *Pepinia rubiginosa* (Baker) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-33b **P. rubiginosa** var. **amazonica** (Baker) L.B. Smith.
This taxon was never transferred to *Pepinia*.
- 8-33c **P. rubiginosa** var. **integra** L.B. Smith.
This taxon was never transferred to *Pepinia*.
- 8-33.1 **P. hammelii** Luther, *J. Bromeliad Soc.* 37:128–9,224. 1987. Panama:Colon/Panama/San Blas. [Holo:SEL].
= *Pepinia hammelii* (Luther) Luther, *J. Bromeliad Soc.* 39:173. 1989.
- 8-34 **P. epiphytica** L.B. Smith.
= *Pepinia epiphytica* (L.B. Smith) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-34.1 **P. occidentalis** L.B. Smith.
Formerly 126 in Smith & Downs (1974).
= *Pepinia occidentalis* Varadarajan & Gilmartin, in *Syst. Bot.* 13(2):294. 1988.
- 8-34.1b **P. occidentalis** var. **alversonii** (Smith & Read) Varadarajan & Forero, *Syst. Bot.* 12:413. 1987. Colombia:Antioquia. [Holo:WIS].
—Basionym: *P. alversonii* L. B. Smith & R. W. Read. This taxon was never transferred to *Pepinia*.
- 8-34.2 **P. alversonii** L.B. Smith & R.W. Read, *Phytologia* 52:51,59. 1982. Colombia:Antioquia. [Holo:WIS; Iso:US,SEL].
= *P. occidentalis* var. *alversonii* (L.B. Smith & R.W. Read) Varadarajan & Forero, *Syst. Bot.* 12:413–4. 1987.
This taxon was never transferred to *Pepinia*.
- 8-35 **P. corallina** Linden & André.
See Rauh, *J. Bromeliad Soc.* 34:29–30. 1984.
= *Pepinia corallina* (Linden & André) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-35b **P. corallina** var. **viridis** L.B. Smith.
This taxon was never transferred to *Pepinia*.
- 8-35.1 **P. schunkei** L.B. Smith & R.W. Read, *Phytologia* 30:290–1. 1975. Peru:San Martin. [Holo:US; Iso:F].
- 8-36 **P. pectinata** L.B. Smith.
= *Pepinia pectinata* (L.B. Smith) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-37 **P. sprucei** Baker.
= *Pepinia sprucei* (Baker) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-38 **P. cuatrecasana** L.B. Smith.
= *Pepinia cuatrecasana* (L.B. Smith) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-39 **P. leprieurii** Baker.
This taxon was never transferred to *Pepinia*.
- 8-40 **P. ensifolia** Mez.
= *Pepinia ensifolia* (Mez) Varadarajan & Gilmartin, *Syst. Bot.* 13:294–9. 1988.
- 8-40.1 **P. kirkbridei** Smith & Read, *Phytologia* 38:136,143. 1977. Brazil:Para. [Holo:INPA; Iso:US].

- 8-43.1 **P. villetaensis** Rauh, Trop. Subtrop. Pflanzenwelt 60:43–7. 1987. Colombia:Cundinamarca. [Holo:HEID].
- 8-48.1 **P. pallidiflavens** Rauh, Trop. Subtrop. Pflanzenwelt 52:23–6. 1985. Peru:San Martin. [Holo:HEID].
- 8-48.2 **P. juzepczukii** Weber, Feddes Repert. 97:95. 1986. Peru:Junin. [Holo:LE]. See also J. Bromeliad Soc. 35:154–5. 1985.
- 8-52.1 **P. windschii** Pereira & L.B. Smith, Bradea 3:14-5. 1979. Brazil:Mato Grosso. [Holo:HB].
- 8-54.1 **P. steyermarkii** L.B. Smith, Phytologia 53:177–8. 1983. Venezuela:Falcon. [Holo:US; Iso:VEN].
- 8-63 **P. paniculata** (Ruiz & Pavon) Ruiz & Pavon.
See Rauh, Trop. Subtrop. Pflanzenwelt 52:30–3. 1985.
- 8-63.1 **P. pomacochae** Rauh, Trop. Subtrop. Pflanzenwelt 33:23–7. 1981. Peru:San Martin. [Holo:HEID].
- 8-64.1 **P. gutteana** Weber, in Müller, Gutte, Müller & Schulz, Cat. Herb. Lip., Plant. Peru II. 40. 1984. Peru:Loreto. [Holo:LZ; Iso:SMF,HAL].
- 8-66.1 **P. wilburiana** Utley in L.B. Smith, Phytologia 30:291. 1975. Guatemala:Baja Verapaz. [Holo:DUKE].
- 8-66.2 **P. dodsonii** Luther, Selbyana 7:90-1. 1982. Ecuador:Azuay. [Holo:SEL; Iso:US].
- 8-68 **P. lehmannii** Baker.
See Rauh, Trop. Subtrop. Pflanzenwelt 52:35–9. 1985.
- 8-72 **P. breedlovei** L.B. Smith.
—Syn.: *P. undulatasepala* Rauh.
- 8-75.1 **P. caduciflora** Rauh & E. Gross, Trop. Subtrop. Pflanzenwelt 65:22–7. 1988. Ecuador:Pastaza. [Holo:HEID].
- 8-75.2 **P. arida** L.B. Smith & Betancur, Phytologia 71:66–8. 1991. Colombia:Antioquia. [Holo:US; Iso:HUA].
- 8-78.1 **P. yaupi-bajaensis** Rauh, Trop. Subtrop. Pflanzenwelt 43:46–50. 1983. Peru:Pasco. [Holo:HEID].
- 8-81.1 **P. explosiva** L.B. Smith & Betancur, Phytologia 71:67–9. 1991. Colombia:Antioquia. [Holo:US; Iso:HUA].
- 8-83.1 **P. rubronigriflora** Rauh, Trop. Subtrop. Pflanzenwelt 50:32–6. 1984. Peru:San Martin. [Holo:HEID]. See also J. Bromeliad Soc. 34:222–3. 1984.
- 8-84.1 **P. rectiflora** Rauh, Trop. Subtrop. Pflanzenwelt 52:26–30. 1985. Peru:San Martin. [Holo:HEID].
- 8-84.2 **P. betancurii** L.B. Smith, Phytologia 71:67,71. 1991. Colombia:Antioquia. [Holo:US; Iso:HUA].
- 8-84.3 **P. farinosa** L.B. Smith & Betancur, Phytologia 71:70,72. 1991. Colombia:Antioquia. [Holo:US; Iso:HUA].
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- 8-87.1 **P. utcubambensis** Rauh, Trop. Subtrop. Pflanzenwelt 65:33–6. 1988. Peru:Amazonas. [Holo:HEID].
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= *P. flammea* Lindley. See Wendt (1991).

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 –Syn.: *P. beycalema* Beer.
 –Syn.: *P. lancifolia* Lindley.
 –Syn.: *P. latifolia* var. *minor* L.B. Smith.
 –Syn.: *P. pumila* Weber.
 –Syn.: *P. suaveolens* Lindley.
- 8-133h **P. flammea** var. **spinulosa** Pereira, Bradea 2:174-5. 1977. Brazil:Minas Gerais. [Holo:MBM].
- 8-137 **P. beycalema** Beer.
 = *P. flammea* Lindley. See Wendt (1991).
- 8-141 **P. suaveolens** Lindley.
 = *P. flammea* Lindley. See Wendt (1991).
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 –Syn.: *P. manabiana* Luther.
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 = *P. unilateralis* L.B. Smith.
- 8-145.2 **P. hirtzii** Luther, elbyana 12:83-4. 1991. Ecuador:Morona-Santiago. [Holo:SEL].
- 8-151 **P. biflora** L.B. Smith.
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- 8-154.1 **P. dracaenoides** Luther, Selbyana 5:313-4. 1981. Ecuador:Pichincha. [Holo:SEL; Iso:US].
 = *P. palmoides* Mez & Sodiro.
- 8-156.1 **P. kressii** Luther, J. Bromeliad Soc. 37:213-4. 1987. Panama:Chiriqui. [Holo:SEL; Iso:US].
- 8-157 **P. lancifolia** Mez.
 = *P. flammea* Lindley. See Wendt (1991).
- 8-157b **P. lancifolia** var. **minor** L.B. Smith
 = *P. flammea* Lindley. See Wendt (1991).
- 8-163 **P. reflexiflora** André.
 –Syn.: *reflexiflora* var. *minor* L.B. Smith & R.W. Read.
- 8-163b **P. reflexiflora** var. **minor** L.B. Smith & R.W. Read, Phytologia 30:290. 1975. Ecuador:Canar. [Holo:WIS; Iso:US].
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- 8-172.1b **P. simulans** var. **ornata** Luther, J. Bromeliad Soc. 42:243–5. 1992. Ecuador:Esmeraldas. [Holo:SEL; Iso:QCA].
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- 8-178 **P. palmoides** Mez & Sodiro.
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–Syn.: *P. volubilis* L.B.Smith.
- 8-186 **P. sceptriformis** Mez.
–Syn.: *P. pulchella* var. *xanthopetalon* Gilmartin.
- 8-188b **P. nigra** var. **pulchella** (Mez) Luther, Phytologia 74:454. 1993.
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= *P. sceptriformis* Mez.
- 8-190 **P. brongniartiana** André.
–Syn.: *P. brongniarta* var. *scandens* Rauh.
- 8-190b **P. brongniartiana** var. **latifolia** L.B. Smith.
= *P. arcuata* (André) André.
- 8-190c **P. brongniartiana** var. **scandens** Rauh, Trop. Subtrop. Pflanzenwelt 18:27–31. 1976. Ecuador:Napo. [Holo:HEID].
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- 8-199.1 **P. lyman-smithiana** Luther, J. Bromeliad Soc. 37:212–3. 1987. Panama:Chiriqui. [Holo:SEL; Iso:US].
- 8-201 **P. arcuata** (André) André.
–Syn.: *P. brongniarta* var. *latifolia* L.B. Smith.
- 8-202.1 **P. fusca** Luther, J. Bromeliad Soc. 31:64–5. 1981. Ecuador:Pichincha. [Holo:SEL].
- 8-204.1 **P. mucida** L.B. Smith & R.W. Read, Phytologia 41:331,340. 1979. Colombia:Choco. [Holo:MO].
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= *P. riparia* Mez.
- 8-258 **P. riparia** Mez.
–Syn.: *P. erratica* L.B. Smith.
–Syn.: *P. stolonifera* L.B. Smith & R.W. Read.

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- 9-5.1 **B. oliva-estevae** Steyermark & L.B. Smith, Ann. Missouri Bot. Gard. 74:85. 1987.
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- 9-7.1 **B. amazonica** L.B. Smith, J. Bromeliad Soc. 34:106-7. 1984. Brazil:Amazonas. [Holo:US; Iso:MG,NY].
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See L.B. Smith & R.W. Read, Phytologia 38:137. 1977.

11 NAVIA Martius. See Oliva-Esteva & Steyermark (1987 p.332-55); Steyermark, J. Bromeliad Soc. 39:51-4. 1989.

- 11-3.1 **N. plowmanii** L.B. Smith, Steyermark & Robinson Ann. Missouri Bot. Gard.73:703. 1986. Venezuela:Amazonas. [Holo:US; Iso:NY,VEN].
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- 11-8.2 **N. platyphylla** L.B. Smith & Steyermark, Ann. Missouri Bot. Gard. 76:954. 1989. Venezuela:Amazonas. [Holo:US; Iso:MO,VEN].
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- 11-48.1 **N. geaster** L.B. Smith, Steyermark & Robinson, Acta Bot. Venez. 14:14. 1984. Venezuela:Bolivar. [Holo:US; Iso:NY,VEN].
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- 11-51.3 **N. berryana** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:712–3. 1986. Venezuela:Amazonas. [Holo:US; Iso:VEN].
- 11-51.4 **N. carnevalii** L.B. Smith & Steyermark, Ann. Missouri Bot. Gard. 76:952. 1989. Venezuela:Amazonas. [Holo:US; Iso:MO,VEN].
- 11-52.1 **N. filifera** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73:713. 1986. Venezuela:Amazonas. [Holo:US; Iso:MO].
- 11-60 **N. ocellata** L.B. Smith, Steyermark & Robinson.
—Syn.: *N. lactea* L.B. Smith, Steyermark & Robinson.
- 11-60.1 **N. lactea** L.B. Smith, Steyermark & Robinson, Acta Bot. Venez. 14:44–5. 1984. Venezuela:Amazonas. [Holo:US; Iso:NY,VEN].
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- 11-68.1 **N. igneoscicola** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73: 713–4. 1986. Venezuela:Amazonas. [Holo:US; Iso:NY,VEN].
- 11.1 BREWCARIA** L.B. Smith, Steyermark & Robinson in Steyermark et al. Acta Bot. Venez. 14(3):10. 1984. See Oliva-Esteva & Steyermark (1987 p.308-10).
- 11.1-1 **B. duidensis** L.B. Smith, Steyermark & Robinson, Acta Bot. Venez. 14(3):10–1. 1984. Venezuela:Amazonas. [Holo:US; Iso:NY,VEN].
- 11.1-2 **B. marahuacae** L.B. Smith, Steyermark & Robinson, Ann. Missouri Bot. Gard. 73: 714. 1986. Venezuela:Amazonas. [Holo:US; Iso:NY,VEN].

12 DYCKIA Schultes.

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- 12-2.1 **D. hebdingii** L.B. Smith, Phytologia 21:90-1. 1971. Brazil:Rio Grande do Sul. [Holo:US].
Formerly 2a in Addendum to Smith & Downs (1977).
- 12-3.1 **D. racinae** L.B. Smith, J. Bromeliad Soc. 38:248-9. 1988. Brazil. [Holo:US].
- 12-3.2 **D. estevesii** Rauh, J. Bromeliad Soc. 37:120-2. 1987. Brazil:Goias. [Holo:HEID].
See also Trop. Subtrop. Pflanzenwelt 60:16-21. 1987.
- 12-3.3 **D. polycladus** L.B. Smith, J. Bromeliad Soc. 39:206. 1989. Brazil:Rio Grande do Sul. [Holo:US].
- 12-12.1 **D. burle-marxii** L.B. Smith & R.W. Read, Phytologia 38:137-8,145. 1977. Brazil: Bahia. [Holo:HB].
- 12-12.2 **D. pernambucana** L.B. Smith.
Formerly 12c in Addendum to Smith & Downs (1977).
- 12-12.3 **D. agudensis** Irgang & Sobral, Napaea 3:5-7. 1987. Brazil:Rio Grande de Sul. [Holo:ICN].
- 12-31 **D. ferruginea** Mez.
See L.B. Smith, Bradea 2:324-5. 1979.
- 12-45.1 **D. lima** L.B. Smith.
Formerly 45a in Addendum to Smith & Downs (1977).
- 12-48.1 **D. beateae** E. Gross & Rauh, Trop. Subtrop. Pflanzenwelt 79:7-10. 1991. Brazil: Mato Grosso. [Holo:HB].
- 12-49.1 **D. crassifolia** Rauh, Trop. Subtrop. Pflanzenwelt 79:10-1. 1991. Bolivia:Santa Cruz. [Holo:HEID].
- 12-49.2 **D. goehringii** Rauh, Trop. Subtrop. Pflanzenwelt 79:12-4. 1991. Brazil:Minas Gerais. [Holo:HB].
- 12-63b **D. oligantha** var. **crystallina** Rauh, Trop. Subtrop. Pflanzenwelt 65:17-8. 1988. Brazil: Goias. [Holo:HEID].
- 12-63.1 **D. brachystachya** Rauh & E. Gross, Trop. Subtrop. Pflanzenwelt 65:8-10. 1988. Brazil:Bahia. [Holo:HEID].
- 12-63.2 **D. granmogulensis** Rauh, Trop. Subtrop. Pflanzenwelt 65:11-2. 1988. Brazil:Minas Gerais. [Holo:HEID].
- 12-63.3 **D. nervata** Rauh, Trop. Subtrop. Pflanzenwelt 60:21-4. 1987. Brazil:Bahia [Holo:HEID].
- 12-63.4 **D. rupestris** W. Till & Morawetz, Bromelie 1990(3):66-8. 1991. Brazil:Pernambuco. [Holo:R; Iso:WU].
- 12-67.1 **D. scrutator** L.B. Smith, J. Bromeliad Soc. 37:151,155. 1987. Brazil:Minas Gerais. [Holo:SPF 30892].
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- 12-71.1 **D. lindevaldae** Rauh, Trop. Subtrop. Pflanzenwelt 65:12-7. 1988. Brazil:Goias. [Holo:HEID].
- 12-71.2 **D. braunii** Rauh, J. Bromeliad Soc. 40:25-6. 1990. Brazil:Goias. [Holo:HEID]. See also Trop. Subtrop. Pflanzenwelt 75:8-10. 1990.
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13 HECHTIA Klotsch.

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- 13-18.1 **H. carlsoniae** Burt-Utley & Utley, Syst. Bot. 13:276. 1988. Mexico:Guerrero. [Holo: MEXU; Iso:BH,CAS,F,MICH,MO,NY,US].
- 13-20.1 **H. fragilis** Burt-Utley & Utley, Brittonia 39:40-2. 1987. Mexico:Oaxaca. [Holo: MEXU; Iso:MO,US]. See also J. Bromeliad Soc. 40:112-7. 1990.

- 13-24 **H. texensis** S. Watson.
—Syn.: *H. scariosa* L.B. Smith.
- 13-27 **H. scariosa** L.B. Smith.
= *H. texensis* S. Watson. See Burt-Utley & Utley, *Brittonia* 39:42–3. 1987; *J. Bromeliad Soc.* 40:112–7. 1990.
- 13-32.1 **H. lyman-smithii** Burt-Utley & Utley, *Brittonia* 39:37–40. 1987. Mexico:Oaxaca. [Holo:MEXU; Iso:NY,MO,US]. See also *J. Bromeliad Soc.* 40:112–7. 1990.
- 14 TILLANDSIA** Linnaeus. See Beaman (1988); Gardner (1982); Gross (1992); Jarvis et al. (1993); Kiff (1991); Palaci (1991); Röth & Weber (1991); Shimizu (1992); W. Till (1984).
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- 14-0 **T. x floridana** (L.B. Smith) Luther, *Phytologia* 57:175. 1985.
—Basionym: *T. fasciculata* var. *floridana* L.B. Smith, *Phytologia* 15:197. 1967.
- 14-0 **T. maxima** Strangeways, *Sketch Mosq. Shore*:138. 1822.
= *Aechmea serrata* (Linnaeus) Mez. See Mabberley, *Taxon* 33:444. 1984.
- 14-0 **T. x polita** (L.B. Smith) Gardner, *Selbyana* 7:372. 1984.
—Basionym: *T. polita* L.B. Smith, *Lilloa* 6:385. 1941.
- 14-0 **T. x rectifolia** (Wiley) Luther, *Selbyana* 11:56. 1989.
—Basionym: *T. rectifolia* Wiley in Rauh, *Trop. Subtrop. Pflanzenwelt* 31:7–9. 1979. See Luther, *Selbyana* 11:56. 1989.
- 14-0 **T. x smalliana** Luther, *Phytologia* 57:176. 1985. US:Florida. [Holo:SEL].
- 14-0 **T. x wisdomiana** Isley, *J. Bromeliad Soc.* 34:123–4. 1984. Guatemala:El Rancho. [Holo:SEL].
- 14-3.1 **T. naundorffiae** Rauh & Barthlott, *Trop. Subtrop. Pflanzenwelt* 16:26–8. 1976. Ecuador:Zamora-Chinchipec. [Holo:HEID].
- 14-7.1 **T. abbreviata** Luther, *Phytologia* 46:419–20. 1980. Colombia. [Holo:SEL].
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= *T. confinis* var. *caudata* L.B. Smith. See Smith & W. Till, *Phytologia* 63:439 (1987).
- 14-10.1 **T. oxapampae** Rauh & on Bismarck, *Trop. Subtrop. Pflanzenwelt* 53:20–6. 1985. Peru:Pasco. [Holo:HEID].
- 14-13b **T. confinis** var. *caudata* L.B. Smith
—Syn.: *T. abysmophila* L.B. Smith & Steyermark.
- 14-13c **T. confinis** var. *minor* Rutschmann & Rauh, *Trop. Subtrop. Pflanzenwelt* 65:47–9. 1988. Ecuador:El Oro. [Holo:HEID].
- 14-14 **T. roezlii** E. Morren.
—Syn.: *T. piurensis* L.B. Smith.
- 14-15.1 **T. raackii** Luther, *Selbyana* 12:86–7. 1991. Ecuador:Zamora-Chinchipec. [Holo:SEL].
- 14-20b **T. denudata** var. *vivipara* Rauh, *Trop. Subtrop. Pflanzenwelt* 52:63–4. 1985. Peru: Amazonas. [Holo:HEID].
- 14-20.1 **T. koideae** Rauh & E. Gross, *Trop. Subtrop. Pflanzenwelt* 79:19–22. 1991. Peru: Piura. [Holo:HEID].
- 14-21b **T. clavigera** var. *pendula* Rauh, *Trop. Subtrop. Pflanzenwelt* 52:59–62. 1985. Peru: Pasco. [Holo:HEID].
- 14-25.1 **T. rubroviolacea** Rauh, *Trop. Subtrop. Pflanzenwelt* 27:10–3. 1979. Ecuador:Loja. [Holo:HEID]. See also *J. Bromeliad Soc.* 30:112–3.
- 14-25.2 **T. coinaensis** Ehlers, *Bromelie* 1990(1):9–11. 1990. Peru:La Libertad. [Holo:WU].
- 14-25.3 **T. huarazensis** Ehlers & W. Till, *Bromelie* 1988(2):21–2. 1988. Peru:Ancash. [Holo: WU; Iso:WU].
- 14-25.4 **T. kauffmannii** Ehlers, *Trop. Subtrop. Pflanzenwelt* 75:32–4. 1990. Peru:La Libertad. [Holo:WU; Iso:WU].
- 14-31.1 **T. breneri** Rauh, *Trop. Subtrop. Pflanzenwelt* 33:12–4. 1981. Ecuador:Pastaza. [Holo:HEID]. See also *J. Bromeliad Soc.* 31:25–6. 1981.
- 14-32 **T. duidae** L.B. Smith.
= *Vriesea duidae* (L.B. Smith) Gouda (1987 p.72).
- 14-32.1 **T. amicorum** Ramirez & Bevilacqua, *Acta Bot. Venez.* 15:149–152. 1988–9. Venezuela:Yaracuy. [VEN].

- 14-33b **T. krukoffiana** var. **piepenbringii** Rauh, J. Bromeliad Soc. 36:258–63, 272–3. 1986. Peru:Cajamarca. [Holo:HEID].
- 14-37 **T. maxima** Lillo & Hauman.
= *T. australis* Mez. See Mabberley, Taxon 33:444. 1984.
- 14-37.1 **T. australis** Mez, Repert. Sp. Nov. 16:75. 1919.
—Syn.: *T. maxima* Lillo & Hauman, non *T. maxima* Strangeways.
- 14-38 **T. undulato-bracteata** Rauh.
= *Guzmania undulato-bracteata* (Rauh) Rauh, J. Bromeliad Soc. 41:18–20, 24. 1991.
- 14-40.1 **T. marcalaensis** Rauh & E. Gross, Trop. Subtrop. Pflanzenwelt 79:22–5. 1991. Honduras:La Paz. [Holo:HEID].
- 14-43 **T. complanata** Benth.
—Syn.: *T. complanata* ssp. *latifolia* Gilmartin.
- 14-43(2) **T. complanata** ssp. **latifolia** Gilmartin, Taxon 26:223–6. 1977. Ecuador:Cotopaxi. [Holo:US].
= *T. complanata* Benth.
- 14-44 **T. walteri** Mez.
See Rauh, Trop. Subtrop. Pflanzenwelt 21:34–41. 1977.
- 14-44b **T. walteri** var. **herrerae** (Harms) Rauh, Trop. Subtrop. Pflanzenwelt 21:34–41. 1977.
—Basionym: *T. herrerae* Harms, Notizbl. Bot. Gart. Berlin 10:215. 1928.
- 14-50 **T. hutchisonii** L.B. Smith.
= *Mezobromelia hutchisonii* (L.B. Smith) Weber & L.B. Smith, J. Bromeliad Soc. 33:121–2. 1983.
- 14-51.1 **T. segregata** Pereira Brazil:Estado do Rio. [Holo:RB].
= *Vriesea morrenii* Wawra. See R.W. Read & L.B. Smith, Supplement to Fl. Neotrop. Monogr. 14. 1986. (Unpubl.)
- 14-55b **T. truncata** var. **major** Luther, Selbyana 5:314. 1981. Ecuador:Loja. [Holo:SEL].
- 14-61 **T. compacta** Grisebach.
—Syn.: *T. brunonis* André.
- 14-62 **T. brunonis** André.
= *T. compacta* Grisebach.
- 14-64 **T. fosteri** Gilmartin.
= *T. demissa* L.B. Smith.
- 14-66.1 **T. tragophoba** Dillon, Brittonia 43:11–6. 1991. Chile:Antofagasta. [Holo:SGO; Iso:SEL.F,US].
- 14-69 **T. demissa** L.B. Smith.
—Syn.: *T. fosteri* Gilmartin.
- 14-80 **T. leiboldiana** Schlechtendal.
—Syn.: *T. leiboldiana* var. *guttata* M. H. Hobbs.
- 14-80b **T. leiboldiana** var. **guttata** Hobbs.
= *T. leiboldiana* Schlechtendal.
- 14-81 **T. piurensis** L.B. Smith.
= *T. roezlii* E. Morren. See Kiff (1991 p.39).
- 14-82b **T. romeroi** var. **gruberi** Rauh, Trop. Subtrop. Pflanzenwelt 60:77–82. 1987. Colombia. [Holo:HEID].
- 14-84.1 **T. purpurascens** Rauh, Trop. Subtrop. Pflanzenwelt 75:34–7. 1990. Peru:Piura. [Holo:HEID].
- 14-93 **T. turneri** Baker.
—Syn.: *T. archeri* L.B. Smith.
- 14-97.1 **T. barthlottii** Rauh, Trop. Subtrop. Pflanzenwelt 12:12–21. 1974; 33:27. 1981. Ecuador:Morona-Santiago. [Holo:HEID; Iso:US].
- 14-98.1 **T. gerd-muelleri** Weber, Feddes Repert. 94:611–3. 1983. Peru:Cuzco. [Holo:LZ]. See also J. Bromeliad Soc. 33:151–3. 1983.
- 14-102.1 **T. nolleriana** Ehlers, Trop. Subtrop. Pflanzenwelt 58:29–32. 1986. Mexico:Oaxaca. [Holo:HEID; Iso:WU].
- 14-102.2 **T. pentasticha** Rauh & Wülfinhoff, Trop. Subtrop. Pflanzenwelt 65:59–61. 1988. Mexico:Guerrero. [Holo:HEID].
- 14-105.1 **T. alvareziae** Rauh, Trop. Subtrop. Pflanzenwelt 58:22–4. 1986. Mexico:Vera Cruz. [Holo:HEID].

- 14-105.2 **T. dexteri** Luther, Selbyana 11:54. 1989. Costa Rica:Limón. [Holo:SEL].
- 14-106.1 **T. chiletensis** Rauh, Trop. Subtrop. Pflanzenwelt 50:5–7. 1984. Peru:Cajamarca. [Holo:HEID].
- 14-108.1 **T. gerdæ** Ehlers, Bromelie 1987(2):32–3. 1987. Bolivia:Cochabamba. [Holo:WU; Iso:WU].
- 14-108.2 **T. cochabambæ** E. Gross & Rauh, Bromelie 1986(2):14–5. 1986. Bolivia:Cochabamba. [Holo:WU].
- 14-108.3 **T. helmutii** L. Hromádník, Bromelie 1990(3):63–65. 1991. Bolivia:Chuquisaca. [Holo:WU; Iso:WU].
- 14-109 **T. archeri** L.B. Smith.
= *T. turneri* Baker. See Gouda (1987 p.66).
- 14-111 **T. oroyensis** Mez.
See Rauh, Trop. Subtrop. Pflanzenwelt 21:16–9. 1977.
- 14-111b **T. oroyensis** var. **secundiflora** Rauh, Trop. Subtrop. Pflanzenwelt 21:19–21. 1977. Peru:Ancash. [Holo:HEID].
- 14-114.1 **T. hirtzii** Rauh, Trop. Subtrop. Pflanzenwelt 18:12–7. 1976. Ecuador:Napo. [Holo:HEID; Iso:US].
- 14-114.2 **T. laminata** L.B. Smith.
Formerly 401 in Smith & Downs (1977).
–Syn.: *T. roetingii* Rauh.
- 14-115.1 **T. elvira-grossiæ** Rauh, Trop. Subtrop. Pflanzenwelt 65:49–53. 1988. Peru:Amazonas. [Holo:HEID].
- 14-118 **T. secunda** Humboldt, Bonpland & Kunth.
See Rauh, Trop. Subtrop. Pflanzenwelt 21:28–34. 1977; 50:36. 1984.
–Syn.: *T. secunda* var. *vivipara* Rauh.
- 14-118b **T. secunda** var. **major** Rauh, Trop. Subtrop. Pflanzenwelt 50:36. 1984. Ecuador:Azuay. [Holo:HEID]. See also Trop. Subtrop. Pflanzenwelt 21:28–34. 1977.
- 14-118c **T. secunda** var. **vivipara** Rauh, Trop. Subtrop. Pflanzenwelt 50:36. 1984. Ecuador:Pichincha. [Holo:HEID]. See also Trop. Subtrop. Pflanzenwelt 21:28–34. 1977.
= *T. secunda* Humboldt, Bonpland & Kunth. See Kiff (1991 p.46).
- 14-122 **T. dressleri** L.B. Smith.
= *T. balbisiana* Schultes f. See Gardner (1982 p.181).
- 14-123.1 **T. atroviridipetala** Matuda.
Treated as a synonym of *T. plumosa* Baker in Smith & Downs (1977). See Gardner (1982 p.254); Isley (1987 p.20).
- 14-123.2 **T. tortilis** Klotzsch ex Baker.
–Syn.: *T. ehrenbergii* auct. non K. Koch.
- 14-123.2(2) **T. tortilis** ssp. **curvifolia** Ehlers & Rauh, J. Bromeliad Soc. 40:166–8. 1990. Mexico:Guanajuato. [Holo:WU; Iso:HAL].
- 14-123.3 **T. mauryana** L.B. Smith.
Formerly 86 in Smith & Downs (1977).
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- 14-123.4 **T. ignesiæ** Mez.
Formerly 103 in Smith & Downs (1977).
- 14-127.1 **T. zaratensis** Weber, Feddes Repert. 94:621–4. 1983. Peru:Lima. [Holo:LZ]. See also J. Bromeliad Soc. 33:154–5,169. 1983; Kiff (1991 p.56).
- 14-128b **T. hotteana** var. **citrina** Rauh & Ariza Julia, J. Bromeliad Soc. 33:112. 1983, nom. nud. No latin or type cited.
- 14-138 **T. tectorum** E. Morren.
–Syn.: *T. rupicola* Baker.
- 14-138.1 **T. balsasensis** Rauh, Trop. Subtrop. Pflanzenwelt 18:5–8. 1976. Peru:Cajamarca. [Holo:HEID; Iso:US]. See also J. Bromeliad Soc. 30:18–9. 1980.
- 14-139d **T. latifolia** var. **leucophylla** Rauh, Trop. Subtrop. Pflanzenwelt 13:21–6. 1974. Peru:Cajamarca. [Holo:HEID].
- 14-139.1 **T. rauschii** Rauh & Lehmann, Trop. Subtrop. Pflanzenwelt 21:41–5. 1977. Bolivia. [Holo:HEID; Iso:WU].
- 14-139.2 **T. churinensis** Rauh, Trop. Subtrop. Pflanzenwelt 53:39–43. 1985. Peru:Lima. [Holo:HEID].

- 14-139.3 **T. buchlohii** Rauh, Trop. Subtrop. Pflanzenwelt 43:11–3. 1983. Paraguay. [Holo: HEID].
- 14-143.1 **T. cajamarcensis** Rauh, Trop. Subtrop. Pflanzenwelt 52:43–6. 1985. Peru:Cajamarca. [Holo:HEID].
- 14-146.1 **T. zecheri** W. Till, Bromelie 1983(1/2):6–7. 1983. Argentina:Salta. [Holo:WU].
- 14-146.2 **T. pseudocardenasii** Weber, Feddes Repert. 97:103–4. 1986. Bolivia:Santa Cruz.9 [Holo:HAL; Iso:WU].
See Kiff (1991 p.41).
- 14-147.1 **T. pseudomicans** Rauh, Trop. Subtrop. Pflanzenwelt 12:21–7. 1974. Peru:Apurimac. [Holo:HEID].
- 14-147.2 **T. krahonii** Rauh, Trop. Subtrop. Pflanzenwelt 33:9–11. 1981. Peru:Ancash. [Holo: HEID; Iso:HAL].
- 14-147.3 **T. lotteae** H. Hromadnik, J. Bromeliad Soc. 28:263–5. 1978. Bolivia:Chuquisaca. [Holo:HEID; Iso:HAL].
- 14-148.1 **T. hemkeri** Rauh, Trop. Subtrop. Pflanzenwelt 16:28–30. 1976. Ecuador:Tungurahua. [Holo:HEID].
- 14-148.2 **T. bismarckii** Rauh & Lehmann, Trop. Subtrop. Pflanzenwelt 41:22–4. 1983. Peru: San Martin. [Holo:HEID].
- 14-148.3 **T. guelzii** Rauh, Trop. Subtrop. Pflanzenwelt 65:55–8. 1988. Argentina:Jujuy. [Holo: HEID].
- 14-149b **T. gardneri** var. **virescens** Pereira, Bradea 2:309. 1979. Brazil:Rio de Janeiro. [Holo: HB].
- 14-149c **T. gardneri** var. **rupicola** Pereira, Bradea 3:214-5. 1981. Brazil:Rio de Janeiro. [Holo: HB].
—Syn.: *T. gardneri* var. *cabofrioensis* Weber & Ehlers.
- 14-149d **T. gardneri** var. **cabofrioensis** Weber & Ehlers, J. Bromeliad Soc. 32:110–1. 1982. Brazil:Rio de Janeiro. [Holo:HAL].
= *T. gardneri* var. *rupicola* Pereira, See Anon., J. Bromeliad Soc. 33:79. 1983.
- 14-149.1 **T. chapeuensis** Rauh, Trop. Subtrop. Pflanzenwelt 58:24–9. 1986. Brazil:Bahia. [Holo: HEID].
- 14-149.2 **T. horstii** Rauh, Trop. Subtrop. Pflanzenwelt 27:5–8. 1979. Brazil:Minas Gerais. [Holo:HEID]. See also Heidt, Bromelie 1992(2):33–5. 1992.
- 14-150.1 **T. planorbis** Reitz, Sellowia 26:65. 1975. Brazil:Rio de Janeiro. [Holo:HBR].
= *T. grazielae* Sucre & Braga. See Pereira, Bradea 2:252. 1978.
- 14-150.2 **T. comarapaensis** Luther, J. Bromeliad Soc. 34:54–5. 1984. Bolivia:Santa Cruz. [Holo: SEL].
- 14-150.3 **T. pucaraensis** Ehlers, Bromelie 1989(1):9–10. 1989. Peru:Cajamarca. [Holo:WU].
- 14-151.1 **T. pfeufferi** Rauh, Trop. Subtrop. Pflanzenwelt 65:61–3. 1988. Argentina:Jujuy. [Holo: HEID].
- 14-151.2 **T. muhrii** Rauh, Bromelie 1986(1):1–2. 1986. Argentina:Jujuy. [Holo:HEID]. See also Isley (1987 p.78).
= *T. cafayatensis* Palací, nom. nov. ined. (1991 p.22-5,167-8).
- 14-151.3 **T. koehresiana** Ehlers, Bromelie 1990(3):59–61. 1991. Bolivia:Potosi/Cochabamba. [Holo:WU; Iso:WU].
- 14-151.4 “**T. cafayatensis**” Palací, nom. nov. ined. See Palací (1991).
—Syn.: *T. muhrii* Rauh, non *T. muhriae* Weber.
- 14-152 **T. sucrei** Pereira.
CITES Appendix II. 1992.
- 14-154c **T. globosa** var. **alba** Pereira, Bradea 3:47. 1980. Brazil:Rio de Janeiro. [Holo:HB].
See also Bromelie 1988(3):36. 1988.
- 14-155.1 **T. grazielae** Sucre & Braga, Bol. Mus. Bot. Mun. Curitiba 22:1. 1975. Brazil:Rio de Janeiro. [Holo:RB].
—Syn.: *T. planorbis* Reitz.
- 14-155.2 **T. reclinata** Pereira & Martinelli, Bradea 3:253-4,257,260. 1982. Brazil:Rio de Janeiro. [Holo:RB; Iso:HAL,HB,US,K]. See also Leme, J. Bromeliad Soc. 39:163–4. 1988.
- 14-157.1 **T. pampasensis** Rauh, Trop. Subtrop. Pflanzenwelt 43:5–9. 1983. Peru:Huancavelica. [Holo:HEID].

- 14-158 **T. heteromorpha** Mez.
See Rauh, Trop. Subtrop. Pflanzenwelt 13:26–37. 1974.
- 14-160.1 **T. baguagrandsis** Rauh, J. Bromeliad Soc. 37:259. 1987. Peru:Amazonas. [Holo:HEID; Iso:WU]. See also Trop. Subtrop. Pflanzenwelt 60:55–7. 1986.
–Syn.: *T. gutteana* Weber.
- 14-161b **T. macbrideana** var. **major** Rauh, Trop. Subtrop. Pflanzenwelt 53:29–38. 1985. Peru:La Libertad. [Holo:HEID].
–Syn.: *T. gutteana* Weber.
- 14-161c **T. macbrideana** var. **longifolia** Rauh, Trop. Subtrop. Pflanzenwelt 53:29–35. 1985. Peru:La Libertad. [Holo:HEID].
- 14-161d **T. macbrideana** var. **longispica** Rauh, Trop. Subtrop. Pflanzenwelt 53:29–38. 1985. Peru:La Libertad. [Holo:HEID].
- 14-161e **T. macbrideana** var. **atroviolacea** Rauh, Trop. Subtrop. Pflanzenwelt 53:29–39. 1985. Peru:Cajamarca. [Holo:HEID].
- 14-161.1 **T. gutteana** Weber, Feddes Repert. 94:613. Peru:Cajamarca. [Holo:LZ; Iso:SMF].
See also J. Bromeliad Soc. 33:151–5. 1983.
= *T. macbrideana* var. **major** Rauh, Trop. Subtrop. Pflanzenwelt 53:112. 1985; Kiff (1991 p.32).
- 14-161.2 **T. pseudomacbrideana** Rauh, Trop. Subtrop. Pflanzenwelt 53:26–9. 1985. Peru:Cajamarca. [Holo:HEID].
- 14-162.1 **T. muhriae** Weber in Feddes Repert. 97:101. 1986. Argentina:Salta. [Holo:HAL].
–Syn.: *T. alberti* Ehlers.
–Syn.: *T. guasamayensis* Palací & Gilmartin.
- 14-162.2 **T. camargoensis** L. Hromadnik, Bromelie 1991(1):9–11. 1991. Bolivia:Chuquisaca. [Holo:WU].
- 14-163.1 **T. guasamayensis** Palací & Gilmartin, Syst.Bot. 14:152. 1989. Argentina:Jujuy. [Holo:MCNS; Iso:LIL,LP,WS].
= *T. muhriae* Weber. See Palací (1991 22-5,67-8).
- 14-164.1 **T. walter-richteri** Weber, J. Bromeliad Soc. 34:102–3,130. 1984. Bolivia:Tarija. [Holo:HAL; Iso:HAL].
- 14-164.2 **T. genseri** Rauh, Trop. Subtrop. Pflanzenwelt 65:54–5. 1988. Argentina:Jujuy. [Holo:HEID; Iso:WU].
- 14-164.3 **T. dorotheae** Rauh, Trop. Subtrop. Pflanzenwelt 60:59–65. 1987. Argentina:Salta. [Holo:HEID; Iso:WU]. See Kiff (1991 p.18).
- 14-164.4 **T. oropezana** L. Hromadnik, Bromelie 1989(1):14–7. 1989. Bolivia:Chuquisaca. [Holo:WU; Iso:WU].
- 14-167c **T. xiphioides** var. **minor** L. Hromadnik, Bromelie 1989(3):65. 1989. Argentina:San Luis. [Holo:WU].
- 14-167d **T. xiphioides** var. **lutea** L. Hromadnik, Bromelie 1990(1):14–5. 1990. Bolivia:Chuquisaca. [Holo:WU].
- 14-167.2 **T. bermejoensis** H. Hromadnik in Rauh, Trop. Subtrop. Pflanzenwelt 31:9–11. 1979. Bolivia:Santa Cruz. [Holo:HEID].
- 14-167.3 **T. alberti** Ehlers, Bromelie 1987(4):55–6. 1987. Bolivia:Potosi. [Holo:WU].
= *T. muhriae* Weber. See Palací (1991 p.22-5,67-8).
- 14-167.4 **T. recurvispica** L. Hromadnik & P. Schneider, Bromelie 1987(1):1–4. 1987. Bolivia:Cochabamba. [Holo:WU; Iso:WU].
- 14-167.5 **T. yuncharaensis** W. Till, J. Bromeliad Soc. 40:214–6. 1990. Bolivia:Tarija. [Holo:WU].
- 14-170 **T. meridionalis** Baker.
= *T. ixiooides* Grisebach, fide W. Till.
- 14-170 **T. meridionalis** sensu L.B. Smith et alteri non *T. meridionalis* Baker.
= *T. recurvifolia* Hooker. See Weber, J. Bromeliad Soc. 32:239–46. 1982.
- 14-170b **T. meridionalis** var. **subsecundifolia** Weber & Ehlers, Feddes Repert. 94:615–7. 1983; Brazil:Parana. [Holo:HAL; Iso:WU]. See also Bromelie 1989(2):29–30. 1989.
= *T. leonamiana* Pereira. See Kiff (1991 p.34).
- 14-170.1 **T. leonamiana** E. Pereira.
Formerly 170a in Addendum to Smith & Downs (1977).
–Syn.: *T. meridionalis* var. **subsecundifolia** Weber & Ehlers.
- 14-170.2 **T. recurvifolia** Hooker.
–Syn.: *T. meridionalis* sensu L.B. Smith et alteri non *T. meridionalis* Baker.

- 14-171 **T. sprenghiana** Klotzsch ex Mez.
CITES Appendix II. 1992.
- 14-171.1 **T. kautskyi** Pereira.
Formerly 156a in Addendum to Smith & Downs (1977).
CITES Appendix II. 1992.
- 14-171.2 **T. thiekenii** Ehlers, J. Bromeliad Soc. 43:151,179. 1993. Brazil:Rio de Janeiro. [Holo:WU].
- 14-172 **T. ixiooides** Grisebach.
—Syn.: *T. meridionalis* Baker.
- 14-173b **T. jucunda** var. **viridiflora** Rauh, Trop. Subtrop. Pflanzenwelt 31:13–4. 1979. Bolivia. [Holo:HEID].
- 14-174 **T. rosea** Lindley.
= *T. stricta* Solander ex Ker-Gawler. See Weber, J. Bromeliad Soc. 32:239–46. 1982.
- 14-174 **T. rosea** sensu L.B. Smith et alteri non *T. rosea* Lindley.
= *T. carminea* W. Till, Pl. Syst. Evol. 138:293–5. 1981. See Weber, J. Bromeliad Soc. 32:239–46. 1982.
- 14-174.1 **T. kammii** Rauh, Trop. Subtrop. Pflanzenwelt 21:45–8. 1977. Honduras:Olancho. [Holo:HEID].
CITES Appendix II. 1992.
- 14-175 **T. stricta** Solander.
—Syn.: *T. rosea* Lindley.
- 14-175c **T. stricta** var. **albifolia** H. Hromadnik & Rauh, Trop. Subtrop. Pflanzenwelt 41:28–9. 1983. Brazil:Espirito Santo. [Holo:HEID; Iso:WU].
- 14-175.1 **T. seideliana** Pereira, Bradea 2:310-1. 1979. Brazil:Santa Catarina. [Holo:HB; Iso:K,MBM,HB]. See Reitz (1983 p.132).
- 14-175.2 **T. carminea** W. Till, Pl. Syst. Evol. 138:293–5. 1981. Brazil:Rio de Janeiro. [Holo:WU; Iso:WU].
—Syn.: *T. rosea* sensu L.B. Smith et alteri non *T. rosea* Lindley.
- 14-175.3 **T. neglecta** Pereira.
Treated as a synonym of *T. tenuifolia* var. *surinamensis* L.B. Smith in Smith & Downs (1977). See Weber, J. Bromeliad Soc. 32:239–46. 1982; Leme, ibid. 37: 217–21. 1987.
- 14-176b **T. araujei** var. **minima** Pereira & Penna, Bradea 3:90,100. 1980. Brazil:Rio de Janeiro. [Holo:HB].
- 14-177.1 **T. toropiensis** Rauh, Trop. Subtrop. Pflanzenwelt 50:10–3. 1984. Brazil:Rio Grande do Sul. [Holo:HEID].
- 14-178e **T. tenuifolia** var. **vaginata** (Wawra) L.B. Smith
—Syn.: *T. candida* Leme.
- 14-178f **T. tenuifolia** var. **dungsiana** Pereira, Bradea 2:174. 1977. Brazil:Rio de Janeiro. [Holo:HB].
- 14-178.1 **T. eltoniana** Pereira, Bradea 4:155-6. 1985. Brazil:Espirito Santo. [Holo:HB].
- 14-178.2 **T. candida** Leme, Bradea 4:397-8,404. 1987. Brazil:Bahia.
= *T. tenuifolia* var. *vaginata* (Wawra) L.B. Smith.
- 14-179 **T. montana** Reitz.
See Reitz (1983 p.131-4).
- 14-179.1 **T. pseudomontana** Weber & Ehlers, in Feddes Repert. 94:618–20. 1983. Brazil:Santa Catarina. [Holo:HAL; Iso:WU].
- 14-182 **T. wagneriana** L.B. Smith.
See Rauh, Trop. Subtrop. Pflanzenwelt 53:17–20. 1985; J. Bromeliad Soc. 35:133–4. 1985. See also Soerries, J. Bromeliad Soc. 35:8–9,20. 1985.
- 14-183 **T. dyeriana** André.
See Luther, J. Bromeliad Soc. 34:108–10. 1984.
—Syn.: *T. rutschmannii* Rauh.
- 14-183.1 **T. rutschmannii** Rauh, Trop. Subtrop. Pflanzenwelt 12:5–12. 1974. Ecuador. [Holo:HEID; Iso:WU].
= *T. dyeriana* André. See Rauh, Trop. Subtrop. Pflanzenwelt 27:23–4. 1979.
- 14-184 **T. hamaleana** E. Morren.
—Syn.: *T. nubis* Gilmartin.
- 14-185 **T. nubis** Gilmartin.
= *T. hamaleana* E. Morren.

- 14-186 **T. platyrhachis** Mez
—Syn.: *T. platyrhachis* var. *alba* Rauh & Hirtz.
- 14-186b **T. platyrhachis** var. **magnifica** Rauh & von Bismarck, Trop. Subtrop. Pflanzenwelt 53:5–17. Peru:Huanuco. [Holo:HEID]. See also J. Bromeliad Soc. 35:113–6. 1985.
- 14-186c **T. platyrhachis** var. **alba** Rauh & Hirtz, Trop. Subtrop. Pflanzenwelt 53:5–17. 1985. Ecuador:Napo. [Holo:HEID]. See also J. Bromeliad Soc. 35:116–7, 133. 1985.
= *T. platyrhachis* Mez.
- 14-188 **T. venusta** Mez & Wercklé.
See Luther, J. Bromeliad Soc. 32:22–4, 31. 1982; 34:108–10. 1984
- 14-189 **T. lindenii** Regel.
—Syn.: *T. lindenii* var. *abundans* L.B. Smith.
—Syn.: *T. lindenii* var. *koutsinskaya* (E. Morren) L.B. Smith.
- 14-189c **T. lindenii** var. **abundans** L.B. Smith.
= *T. lindenii* Regel. Cultivar.
- 14-189d **T. lindenii** var. **koutsinskyana** (E. Morren) L.B. Smith.
= *T. lindenii* Regel. Cultivar.
- 14-191 **T. pretiosa** Mez.
—Syn.: *T. cyanea* var. *elatior* L.B. Smith.
- 14-193c **T. cyanea** var. **elatior** L.B. Smith.
= *T. pretiosa* Mez.
- 14-201b **T. streptocarpa** var. **aureiflora** Rauh, Trop. Subtrop. Pflanzenwelt 50:14–6. 1984. Bolivia:Cochabamba. [Holo:HEID].
- 14-201.1 **T. kurt-horstii** Rauh, Trop. Subtrop. Pflanzenwelt 60:69–77. 1987. Brazil:Minas Gerais. [Holo:HEID].
- 14-201.2 **T. kirschnekii** Rauh & W. Till, Trop. Subtrop. Pflanzenwelt 43:13–5. 1983. Peru: Apurimac. [Holo:HEID]. See also J. Bromeliad Soc. 33:156–7. 1983.
- 14-203b **T. duratii** var. **confusa** (Hassler) L.B. Smith.
= *T. duratii* var. *saxatilis* (Hassler) L.B. Smith.
- 14-203c **T. duratii** var. **saxatilis** (Hassler) L.B. Smith.
—Syn.: *T. duratii* var. *confusa* (Hassler) L.B. Smith.
- 14-203.1 **T. porongoensis** L. Hromadnik & P. Schneider, Haussknechtia 4:39. 1988. Argentina: La Rioja. [Holo:WU; Iso:WU]. See also J. Bromeliad Soc. 39:103–5. 1989.
- 14-205 **T. paleacea** Presl.
See W. Till, J. Bromeliad Soc. 43:69–72. 1993.
- 14-205(2) **T. paleacea** ssp. **apurimacensis** W. Till, J. Bromeliad Soc. 43:7–10. 1993. Peru: Apurimac. [Holo:WU; Iso:USM, WU].
- 14-205(2)ii **T. paleacea** ssp. **apurimacensis** forma **disticha** W. Till, J. Bromeliad Soc. 43:7–10. 1993. Peru:Apurimac. [Holo:WU; Iso:USM, WU].
- 14-205.1 **T. marconae** W. Till & Vitek, Pl. Syst. Evol. 149:143–7. 1985. Peru:Ica. [Holo:WU; Iso:B, K, LI, WU]. See also W. Till, J. Bromeliad Soc. 43:69–72. 1993.
- 14-206 **T. rupicola** Baker.
= *T. tectorum* E. Morren. See Rauh, J. Bromeliad Soc. 31:177–8. 1981.
- 14-207.1 **T. straminea** Humboldt, Bonpland & Kunth.
Treated as a synonym of *T. purpurea* Ruiz & Pavon in Smith & Downs (1977).
- 14-210b **T. aurea** var. **minor** L. Hromadnik & Rauh, Trop. Subtrop. Pflanzenwelt 52:65–8. 1985. Peru:Amazonas. [Holo:HEID; Iso:WU].
- 14-211b **T. peiranoi** var. **alba** Rutschmann, Trop. Subtrop. Pflanzenwelt 58:32–5. 1986. Argentina:Salta. [Holo:HEID; Iso:WU].
- 14-216b **T. crocata** var. **tristis** Rauh, Trop. Subtrop. Pflanzenwelt 43:15–9. 1983. Argentina: Jujuy. [Holo:HEID].
= *T. caliginosa* W. Till, nom. et stat. nov., Pl. Syst. Evol. 147:282–4. 1984; Till (1984 p.102–7).
- 14-216bii **T. crocata** var. **tristis** forma **major** Rauh, Trop. Subtrop. Pflanzenwelt 43:18. 1983. Nom. nud. No latin.
- 14-216.1 **T. mandonii** E. Morren.
Treated as a synonym of *T. crocata* (E. Morren) Baker in Smith & Downs (1977).
= *T. myosura* Grisebach ex Baker. See Kiff (1991 p.68).
- 14-218b **T. tricholepis** var. **macrophylla** L.B. Smith.
= *T. spiralipetala* Gouda, nom. et stat. nov., J. Bromeliad Soc. 36:165–6, 177. 1986.

- 14-218.1 **T. spiralipetala** Gouda, J. Bromeliad Soc. 36:165–6,177. 1986.
– Basionym: *T. tricholepis* var. *macrophylla* L.B. Smith, Lilloa 14:98. 1948.
- 14-218.2 **T. copynii** Gouda, J. Bromeliad Soc. 38:81–4. 1988. Brazil:Minas Gerais. [Holo:US].
- 14-219.1 **T. pedicellata** (Mez) Castellanos.
Treated as a synonym of *T. bryoides* Grisebach ex Mez in Smith & Downs (1977).
See Till (1984); Bromelie 1991(1):15–9. 1991.
- 14-221.1 **T. brealitoensis** L. Hromadnik in W. Till & L. Hromadnik, Pl. Syst. Evol. 147:280–2. 1984. Argentina:Salta. [Holo:WU].
- 14-226(2) **T. gilliesii** ssp. **polysticha** W. Till & L. Hromadnik, Pl. Syst. Evol. 147:287–8. 1984. Argentina:Jujuy. [Holo:WU].
- 14-226.1 **T. hirta** W. Till & L. Hromadnik, Pl. Syst. Evol. 147:285–7. 1984. Bolivia:Cochabamba. [Holo:Holo:WU; Iso:WU].
- 14-226.2 **T. tenebra** L. Hromadnik & W. Till, Bromelie 1991(2):32–4. 1991. Argentina:La Rioja. [Holo:WU].
- 14-227.1 **T. caliginosa** W. Till, nom. et stat. nov., Pl. Syst. Evol. 147:282–4. 1984. Argentina:Jujuy. [Holo:HEID].
– Basionym: *T. crocata* var. *tristis* Rauh, Trop. Subtrop. Pflanzenwelt 43:17. 1982.
- 14-227.2 **T. cotagaitensis** L. Hromadnik in W. Till & L. Hromadnik, Pl. Syst. Evol. 147:284–5. 1984. Bolivia:Potosi. [Holo:WU; Iso:LI,NY,WU].
- 14-230(2) **T. landbeckii** ssp. **andina** W. Till, Bromelie 1991(3):71–3. 1991. Peru:Ayacucho. [Holo:WU; Iso:K,USM,SEL,WU].
- 14-230(2)b **T. landbeckii** ssp. **andina** var. **rigidior** W. Till, Bromelie 1991(3):71–3. 1991. Peru:Cuzco. [Holo:WU; Iso:CUZ,SEL].
- 14-232 **T. capillaris** Ruiz & Pavon.
See Till (1984 p.113-23 re:nomenclature; p.135 re: taxonomy).
– Syn.: *T. capillaris* forma *incana* (Mez) L.B. Smith.
- 14-232ii **T. capillaris** forma *incana* (Mez) L.B. Smith.
= *T. capillaris* Ruiz & Pavon. See Till (1984 p.113-60); Bromelie 1989(2):31–4. 1989.
- 14-232iii **T. capillaris** forma **cordobensis** (Heironymus) L.B. Smith.
= *T. virescens* Ruiz & Pavon. See Till (1984 p.135-47).
- 14-232iv **T. capillaris** forma **virescens** (Ruiz & Pavon) L.B. Smith.
= *T. virescens* Ruiz & Pavon. See Till (1984 p.113-60)
- 14-232v **T. capillaris** forma **hieronymi** (Mez) L.B. Smith.
= *T. capillaris* Ruiz & Pavon. See Till (1984 p.113-60); Bromelie 1989(2):31–4. 1989.
- 14-232.1 **T. virescens** Ruiz & Pavon.
Treated as a synonym of *T. capillaris* Ruiz & Pavon in Smith & Downs (1977). See Till (1984 p.135-47 re:nomenclature; p.160 re:taxonomy).
– Syn.: *T. capillaris* forma *cordobensis* (Heironymus) L.B. Smith.
– Syn.: *T. capillaris* forma *virescens* (Ruiz & Pavon) L.B. Smith.
- 14-233.1 **T. mollis** H. Hromadnik & W. Till, Pl. Syst. Evol. 142:123–28. 1983. Bolivia:Tarija. [Holo:WU; Iso:B,HAL,K,LI,NY,W,WU].
- 14-236d **T. carnosa** var. **boliviensis** Luther, Bromelie 1991(3):69–70. 1991. Bolivia:La Paz. [Holo:MO].
- 14-238 **T. rauhii** L.B. Smith.
See Rauh, J. Bromeliad Soc. 41:51–4,79–80. 1991.
- 14-238b **T. rauhii** var. **longispica** Rauh, Trop. Subtrop. Pflanzenwelt 75:37–42. 1990. Peru:Lambayeque. [Holo:HEID]. See also J. Bromeliad Soc. 41:53–4,79–80. 1991.
- 14-238.1 **T. lymanii** Rauh, Trop. Subtrop. Pflanzenwelt 13:16–21. 1974. Peru:Cajamarca. [Holo:HEID; Iso:US]. See also J. Bromeliad Soc. 30:247–9. 1980.
- 14-238.3 **T. spiraliflora** Rauh, Trop. Subtrop. Pflanzenwelt 18:8–12. 1976. Peru:Amazonas. [Holo:HEID; Iso:US]. See also J. Bromeliad Soc. 30:15–7. 1980.
- 14-243.1 **T. vriesioides** Matuda, Cact. Succ. J. (US) 45:187. 1973. Mexico:Chiapas. [Holo:UNAM].
- 14-244 **T. imperialis** E. Morren ex Roetzl, Deut. Gartn.-Zeit. Kassel. 1881; Belg. Hort. 33:133. 1883. See Mabberley, Taxon 34:455. 1985. (Not *T. imperialis* Morren ex Mez).
- 14-244.1 **T. laui** Matuda, Cact. Suc. Mex. 20:96–7. 1975. Mexico:Oaxaca. [Holo:MEXU].
- 14-244.2 **T. candelifera** Rohweder.
Treated as a synonym of *T. imperialis* in Smith & Downs (1977).

- 14-244.3 **T. tillii** Ehlers, J. Bromeliad Soc. 42:197–9. 1992. Mexico:Jalisco. [Holo:WU; Iso:WU].
- 14-245 **T. andreana** E. Morren ex André.
See Blass, J. Bromeliad Soc. 27:160–22. 1977; Rauh, J. Bromeliad Soc. 39:111–8. 1989.
- 14-245.1 **T. funckiana** Baker.
Treated as a synonym of *T. andreana* E. Morren ex André in Smith & Downs (1977).
See Blass, J. Bromeliad Soc. 27:160–2. 1977; Gardner (1982); Rauh, J. Bromeliad Soc. 39:111–8. 1989.
- 14-245.1b **T. funckiana** var. **recurvifolia** A. Blass ex Rauh, J. Bromeliad Soc. 39:116–7. 1989. Venezuela:Merida. [Holo:HEID]. See also Blass, J. Bromeliad Soc. 27:161. 1977.
- 14-246 **T. ionantha** Planchon.
—Syn.: *T. ionantha* var. *zebrina* B. Foster.
- 14-246b **T. ionantha** var. **scaposa** L.B. Smith.
= *T. kolbii* W. Till & Schatzl. See Luther, J. Bromeliad Soc. 38:165. 1988.
- 14-246d **T. ionantha** var. **zebrina** B. Foster, J. Bromeliad Soc. 32:164. 1982. Guatemala. [Holo:US].
= *T. ionantha* Planchon.
- 14-246.1 **T. nidus** Rauh & Lehmann, Trop. Subtrop. Pflanzenwelt 41:19–22. 1983. Mexico. [Holo:HEID].
= *T. hybrid* (*T. fasciculata* x *ionantha*).
- 14-246.2 **T. rectifolia** Wiley in Rauh, Trop. Subtrop. Pflanzenwelt 31:7–9. 1979. Mexico. [Holo:HEID].
= *T. x rectifolia* (Wiley) Luther. See Luther, Selbyana 11:56 (1989).
- 14-246.3 **T. kolbii** W. Till & Schatzl, Pl. Syst. Evol. 138:259–62. 1981. Mexico:Oaxaca. [Holo:WU].
—Syn.: *T. ionantha* var. *scaposa* L.B. Smith.
- 14-247.1 **T. matudae** L.B. Smith.
Formerly 101 in Smith & Downs (1977).
See Luther, J. Bromeliad Soc. 43:59–63. 1993.
- 14-249.1 **T. hammeri** Rauh & Ehlers, Trop. Subtrop. Pflanzenwelt 60:67–9. 1987. Mexico:Oaxaca. [Holo:HEID].
- 14-251.1 **T. simulata** Small.
Treated as a synonym of *T. bartramii* Elliott in Smith & Downs (1977). See Gardner (1982 p.189-92).
- 14-252.1 **T. pseudosetacea** Ehlers & Rauh, Trop. Subtrop. Pflanzenwelt 58:35–7. 1986. Mexico:Oaxaca. [Holo:HEID; Iso:WU].
- 14-252.2 **T. eistetteri** Ehlers, Bromelie 1991(2):36–8. 1991. Mexico:Jalisco. [Holo:WU; Iso:WU].
- 14-253.1 **T. chiapensis** Gardner, Selbyana 2:338-9. 1978. Mexico:Chiapas. [Holo:SEL; Iso:US,MEXU,CAS].
- 14-253.2 **T. klausii** Ehlers, J. Bromeliad Soc. 38:257–61. 1987. Mexico:Chiapas. [Holo:WU].
- 14-255 **T. polystachia** (Linnaeus) Linnaeus.
Records from Florida are *T. x smalliana* Luther, Phytologia 57:175–6. 1985.
- 14-255.1 **T. mazatlanensis** Rauh, Trop. Subtrop. Pflanzenwelt 33:7–9. 1981. Mexico:Sinaloa. [Holo:HEID; Iso:WU].
- 14-255.2 **T. trelawniensis** Proctor, J. Arnold Arbor. 63:204. 1982. Jamaica:Trelawny. [Holo:IJ; Iso:IJ].
- 14-255.3 **T. durangensis** Rauh & Ehlers, Trop. Subtrop. Pflanzenwelt 41:30–2. 1983. Mexico:Durango. [Holo:HEID; Iso:HAL,WU].
- 14-255.4 **T. pfisteri** Rauh, Trop. Subtrop. Pflanzenwelt 50:7–10. 1984. Brazil:Pernambuco. [Holo:HEID].
= *T. parvispica* Baker. See Kiff (1991 p.39).
- 14-255.5 **T. capistranoensis** Ehlers & Weber, Bromelie 1992(1):12–4. 1992. Mexico:Zacatecas. [Holo:WU; Iso:WU].
- 14-255.6 **T. parvispica** Baker.
Treated as a synonym of *T. polystachia* (Linnaeus) Linnaeus in Smith & Downs (1977).
—Syn.: *T. pfisteri* Rauh.

- 14-255.7 **T. belloensis** Weber, Feddes Repert. 94:602-4. 1983. Mexico:Chiapas. [Holo:HAL; Iso:WU]. See also Ehlers, J. Bromeliad Soc. 43:74. 1993.
- 14-257.1 **T. juerg-rutschmannii** Rauh, Trop. Subtrop. Pflanzenwelt 52:54-6. 1985. Mexico: Chiapas. [Holo:HEID]. See also Rutschmann, J. Bromeliad Soc. 34:118-20. 1984.
- 14-258 **T. xerographica** Rohweder.
See Gardner, Selbyana 7:374-5. 1984; Blackburn, J. Bromeliad Soc. 43:26-7. 1993. CITES Appendix II. 1992.
-Syn.: *T. kruseana* Matuda.
-Syn.: *T. tomasellii* De Luca, Sabato & Balduzzi.
- 14-258ii **T. xerographica** forma **variegata** Moffler, J. Bromeliad Soc. 28:165-7. 1978. Guatemala. [Holo:US; Iso:SEL].
- 14-258.1 **T. lambrostachya** Philcox & Psomadakis, Kew Bull. 37:481-2. 1982. Mexico:Jalisco. [Holo:K].
= *T. rothii* Rauh. See Kiff (1991 p.30).
- 14-258.2 **T. tomasellii** DeLuca, Sabato & Balduzzi, Brittonia 31:474-7. 1979. Mexico:Oaxaca. [Holo:NY; Iso:FL,NAP,PAV].
= *T. xerographica* Rohweder. See Gardner (1982 p.158-9).
- 14-259.1 **T. elizabethiae** Rauh, Trop. Subtrop. Pflanzenwelt 31:5-7. 1979. Mexico:Chihuahua. [Holo:HEID].
-Syn.: *T. sonorensis* Smith & Dimmitt.
- 14-263.1 **T. schatzlii** Rauh, Trop. Subtrop. Pflanzenwelt 27:8-10. 1979. Mexico:Oaxaca. [Holo: HEID]. See also J. Bromeliad Soc. 29:260-1. 1979.
- 14-263.2 **T. guerreroensis** Rauh, Trop. Subtrop. Pflanzenwelt 60:65-7. 1987. Mexico:Guerrero. [Holo:HEID].
- 14-264.1 **T. flavobracteata** Matuda, Cact. Suc. Mex. 20:97-9. 1975. Mexico:Veracruz. [Holo: MEXU].
= *T. fasciculata* Swartz.
- 14-266 **T. intumescens** L.B. Smith.
= *T. langlasseana* Mez. See Gardner (1982 p.163).
- 14-267 **T. langlasseana** Mez.
-Syn.: *T. intumescens* L.B. Smith.
- 14-268 **T. mexicana** L.B. Smith.
= *T. dugesii* Baker. See Gardner (1982 p. 137,141).
- 14-268.2 **T. kruseana** Matuda.
Formerly 268a in Addendum to Smith & Downs (1977).
= *T. xerographica* Rohweder. See Gardner (1982 p.158-9).
- 14-268.3 **T. supermexicana** Matuda, Cact. Suc. Mex. 22:21-2. 1977. Mexico:Guerrero. [Holo: MEXU].
- 14-269 **T. calothyrsus** Mez.
-Syn.: *T. rettigiana* Mez.
- 14-269.1 **T. yerba-santae** Ehlers, J. Bromeliad Soc. 40:268-9. 1990. Mexico:Oaxaca. [Holo: WU; Iso:WU].
- 14-269.2 **T. paraisoensis** Ehlers, J. Bromeliad Soc. 42:54-9. 1992. Mexico:Guerrero. [Holo: WU; Iso:WU].
- 14-270 **T. rettigiana** Mez.
= *T. calothyrsus* Mez. See Gardner (1982 p.131-3); Kiff (1991 p.11).
- 14-272 **T. maritima** Matuda.
= *T. roland-gosselinii* Mez. See Gardner (1982 p.152-3).
- 14-274 **T. roland-gosselinii** Mez.
-Syn.: *T. maritima* Matuda.
- 14-274.1 **T. rothii** Rauh, Trop. Subtrop. Pflanzenwelt 16:30-6. 1976. Mexico:Jalisco. [Holo: HEID].
-Syn.: *T. lambrostachya* Philcox & Psomadakis.
- 14-274.2 **T. pacifica** Ehlers, Bromelie 1991(3):62-5. 1991. Mexico:Jalisco. [Holo:WU; Iso: SEL].
- 14-275.1 **T. palmasolana** Matuda.
Formerly 275d in Addendum to Smith & Downs (1977).
= *T. concolor* L.B. Smith. See Ehlers, J. Bromeliad Soc. 42:271-2. 1992.

- 14-277.1 **T. roseospicata** Matuda.
Formerly 277a in Addendum to Smith & Downs (1977).
- 14-277.2 **T. roseoscapa** Matuda, Cact. Suc. Mex. 17:113. 1972. Mexico:Puebla. [Holo:FCME].
See also Rauh, J. Bromeliad Soc. 36:66–8. 1986.
- 14-277.3 **T. rayonesensis** Ehlers, J. Bromeliad Soc. 40:21–4. 1990. Mexico:Nuevo Leon. [Holo:WU].
- 14-277.4 **T. ilseana** W. Till, Halbritter & Zecher, J. Bromeliad Soc. 39:152–6. 1989. Mexico:Guerrero. [Holo:WU; Iso:WU].
- 14-278b **T. vicentina** var. **glabra** L.B. Smith, Phytologia 20:567. 1970. Mexico:Chiapas. [Holo:US].
–Syn.: *T. vicentina* var. *wuelfinghoffii* E. Gross.
- 14-278c **T. vicentina** var. **wuelfinghoffii** E. Gross, Trop. Subtrop. Pflanzenwelt 60:82–5. 1987. Mexico:Chiapas. [Holo:HEID].
= *T. vicentina* var. *glabra* L.B. Smith.
- 14-278.2 **T. bochilensis** Ehlers in Rauh, Trop. Subtrop. Pflanzenwelt 75:30–2. 1990. Mexico:Chiapas. [Holo:WU; Iso:WU].
- 14-280 **T. concolor** L.B. Smith.
–Syn.: *T. palmasolana* Matuda.
- 14-282 **T. fasciculata** Swartz.
–Syn.: *T. fasciculata* var. *convexispica* Mez.
–Syn.: *T. flavobracteata* Matuda.
- 14-282c **T. fasciculata** var. **convexispica** Mez.
= *T. fasciculata* Swartz.
- 14-282d **T. fasciculata** var. **venospica** Mez.
–Syn.: *T. compressa* sensu Gardner (1982), non *T. compressa* Bertero ex Schultes f.
- 14-282fii **T. fasciculata** var. **densispica** forma alba M.B. Foster, Bull. Bromeliad Soc. 3:29. 1953. US:Florida. [Holo:US].
- 14-282g **T. fasciculata** var. **floridana** L.B. Smith.
= *T. x floridana* B. Smith) Luther, Phytologia 57:175. 1985.
- 14-282j **T. fasciculata** var. **rotundata** L.B. Smith.
= *T. rotundata* (L.B. Smith) Gardner, Selbyana 7:371,374. 1984.
- 14-282.1 **T. hubertiana** Matuda, Cact. Suc. Mex. 20:8. 1975.
= *T. hybrid* (*T. fasciculata* x *caput-medusae*). See Gardner (1982 p.143-4).
- 14-282.2 **T. jalisco-monticola** Matuda, Cact. Suc. Mex. 20:99. 1975. Mexico:Jalisco. [Holo:MEXU].
- 14-282.3 **T. buchii** Urban.
Treated as a synonym of *T. fasciculata* var. *venospica* Mez in Smith & Downs (1977).
= *T. compressa* Bertero ex Schultes f.
- 14-282.4 **T. compressa** sensu Gardner (1982), non *T. compressa* Bertero ex Schultes, Selbyana 7:375,377. 1984.
= *T. fasciculata* var. *venospica* Mez.
- 14-282.5 **T. rotundata** (L.B. Smith) Gardner, Selbyana 7:369,371. 1984. See also Gardner, J. Bromeliad Soc. 41:4–5. 1991.
–Basionym: *T. fasciculata* var. *rotundata* L.B. Smith. Contr. Gray Herb. 154:36. 1945.
- 14-282.6 **T. rhomboidea** André.
Formerly 91 in Smith & Downs (1977).
- 14-282.7 **T. marabascoensis** Ehlers & Lautner. Bromelie 1992(3):67,69–70. 1993. Mexico:Jalisco/Colima. [Holo:WU].
- 14-282.8 **T. compressa** Bertero ex Schultes f.
Treated as a synonym of *T. fasciculata* var. *venospica* in Smith & Downs (1977).
–Syn.: *T. buchii* Urban.
- 14-284 **T. polita** L.B. Smith.
= *T. x polita* (L.B. Smith) Gardner, Selbyana 7:372. 1984.
- 14-285 **T. dugesii** Baker.
–Syn.: *T. mexicana* L.B. Smith.

- 14-285.1 **T. aguascalientensis** Gardner, Selbyana 7:361-3. 1984. Mexico:Aguascalientes. [Holo:SEL; Iso:US,MEXU]. See also J. Bromeliad Soc. 36:28-30. 1986.
The holotype was never received at SEL.
- 14-285.2 **T. schusteri** Rauh, Trop. Subtrop. Pflanzenwelt 58:37-41. 1987. Mexico:Oaxaca. [Holo:HEID]. See also J. Bromeliad Soc. 38:214-5. 1988.
- 14-286.1 **T. welzii** Ehlers, Bromelie 1991(1):5-6,22,25. 1991. Guatemala:Quiche. [Holo:WU].
- 14-289.1 **T. copanensis** Rauh & Rutschmann, J. Bromeliad Soc. 38:7-9. 1988. Honduras: Copan. [Holo:HEID]. See also Trop. Subtrop. Pflanzenwelt 60:57-9. 1987.
- 14-289.2 **T. novakii** Luther, Selbyana 12:87-90. 1991. Mexico:Vera Cruz. [Holo:SEL].
- 14-290b **T. pueblensis** var. **glabrior** L.B. Smith.
= *T. schiedeana* ssp. *glabrior* L.B. Smith. Gardner, Selbyana 7:368-70. 1984.
- 14-290.1 **T. mitlaensis** Weber & Ehlers, Feddes Repert. 94:617-8. Mexico:Oaxaca. [Holo:HAL]. See also J. Bromeliad Soc. 33:32. 1983.
- 14-293 **T. valenzuelana** A. Richard.
= *T. variabilis* Schlechtendal. See Weber, in Feddes Repert. 95:597-8. 1984.
- 14-293.1 **T. variabilis** Schlechtendal.
-Syn.: *T. valenzuelana* A. Richard.
- 14-294 **T. chlorophylla** L.B. Smith.
-Syn.: *T. santiago-tuxtensis* Matuda.
- 14-294.1 **T. santiago-tuxtensis** Matuda.
= *T. chlorophylla* L.B. Smith. See Gardner, Selbyana 9:134.
- 14-296.1 **T. sueae** Ehlers, J. Bromeliad Soc. 41:208-13. 1991. Mexico:Puebla. [Holo:WU; Iso:WU].
- 14-296.2 **T. subteres** Luther, J. Bromeliad Soc. 43:18-21. 1993. Honduras:Francisco Morazon. [Holo:SEL; Iso:EAP,WU,US,SEL].
- 14-297.1 **T. pamela** Rauh, J. Bromeliad Soc. 36:117-8,125. 1986. Mexico:Jalisco. [Holo:HEID].
- 14-299 **T. lehmannii** Rauh.
= *T. flagellata* L.B. Smith.
- 14-299.1 **T. flagellata** L.B. Smith.
Formerly 97 in Smith & Downs (1977).
-Syn.: *T. lehmannii* Rauh.
- 14-302 **T. karwinskyana** Schultes f.
See Gardner (1982 p. 224,228).
- 14-302 **T. karwinskyana** sensu L.B. Smith et auct. non *T. karwinskyana* Schultes f.
= *T. utriculata* ssp. *pringlei* (S. Watson) Gardner. See Gardner (1982 p.224,228); Selbyana 7:366-8. 1984; J. Bromeliad Soc. 36:77-81. 1986.
- 14-304 **T. dasyliriifolia** Baker.
-Syn.: *T. simplex* Matuda.
- 14-304.1 **T. limbata** Schlechtendal.
See Weber, J. Bromeliad Soc. 31:222-4. 1981.
- 14-304.2 **T. simplex** Matuda.
= *T. dasyliriifolia* Baker. See Gardner (1982 p.216,221).
- 14-306 **T. utriculata** Linnaeus.
[Neo:WU; Isonco:BM,SEL,WU].
See Jarvis et al. (1993, p.94).
- 14-306(1)ii **T. utriculata** ssp. *utriculata* forma **variegata** Luther, J. Bromeliad Soc. 28:165-7. 1978. US:Florida. [Holo:US; Iso:SEL].
- 14-306(2) **T. utriculata** ssp. **pringlei** (S. Watson) Gardner, Selbyana 7:366-8. 1984.
-Basionym: *T. pringlei* S. Watson, Proc. Am. Acad. 26:155. 1891.
-Syn.: *T. karwinskyana* sensu L. B. Smith et auct. non *T. karwinskyana* Schultes f.
- 14-306.1 **T. vernardoi** Rauh, Trop. Subtrop. Pflanzenwelt 16:36-8. 1976. Mexico:Oaxaca. [Holo:HEID].
- 14-309.1 **T. fuchsii** W. Till, Bromelie 1990(2):30. 1990. Mexico:Oaxaca. [Holo:WU]. See also J. Bromeliad Soc. 42:99-102. 1992.
- 14-309.1aii **T. fuchsii** var. **fuchsii** forma **gracilis** W. Till, Bromelie 1990(2):30-3. 1990. Mexico: Chiapas. [Holo:WU].

- 14-309.1b **T. fuchsii** var. **stephanii** W. Till, Bromelie 1990(2):30–33. 1990. Mexico:Jalisco. [Holo:WU; Iso:WU].
- 14-310 **T. mima** L.B. Smith.
See Rauh, Trop. Subtrop. Pflanzenwelt 21:21–4. 1977.
- 14-310b **T. mima** var. **chiletensis** Rauh, Trop. Subtrop. Pflanzenwelt 21:24–8. 1977. Peru: Cajamarca. [Holo:HEID].
- 14-310.1 **T. roetingii** Rauh, Trop. Subtrop. Pflanzenwelt 21:11–6. 1977. Peru:Amazonas. [Holo:HEID].
= *T. laminata* L.B. Smith.
- 14-314.1 **T. limarum** Pereira, Bradea 2:309-10,312,323. 1979. Brazil:Mato Grosso. [Holo:HB].
- 14-316 **T. streptophylla** Scheidweiler ex Morren.
–Syn.: *T. circinnata* Schlechtendal non *T. circinnata* sensu Mez et auct.
- 14-317.1 **T. ehlersiana** Rauh, J. Bromeliad Soc. 34:166–9. 1984. Mexico:Chiapas. [Holo:HEID; Iso:WU]. See also Trop. Subtrop. Pflanzenwelt 52:56–9. 1985.
- 14-318.1 **T. praschekii** Ehlers & Willinger, Bromelie 1989(2):36–7. 1989. Cuba:Pinar del Rio. [Holo:WU]. See also Ehlers, J. Bromeliad Soc. 41:121. 1991.
- 14-319 **T. balbisiana** Schultes f.
–Syn.: *T. dressleri* L.B. Smith.
- 14-319.1 **T. jalisco-pinicola** L. Hromadnik & Schneider, Haussknechtia 2:43. 1985. Mexico: Jalisco. [Holo:WU]. See also Bromelie 1986(1):13. 1986.
- 14-319.2 **T. turquinensis** Willinger & Michálek, Bromelie 1987(1):5–6. 1987. Cuba:Santiago de Cuba. [Holo:PR; Iso: WU]. See also J. Bromeliad Soc. 39:8–9. 1989.
- 14-325 **T. circinnata** Schlechtendal.
= *T. streptophylla* Scheidweiler ex E. Morren. See Weber, J. Bromeliad Soc. 32:28–31. 1982.
- 14-325 **T. circinnata** sensu Mez et auct. non *T. circinnata* Schlechtendal.
= *T. paucifolia* Baker. See Weber, J. Bromeliad Soc. 32:28–31. 1982.
- 14-325.1 **T. paucifolia** Baker.
–Syn.: *T. circinnata* Mez et auct. non *T. circinnata* Schlechtendal.
- 14-325.1b **T. paucifolia** var. **schubertii** Ebel & Röth, Flora (Germany) 181:179–187. 1988. Mexico:Jalisco. [Holo:HAL].
= *T. intermedia* Mez. See Ehlers, Bromelie 1991(2):46–9. 1991.
- 14-326.1 **T. weberi** L. Hromadnik & Schneider, J. Bromeliad Soc. 37:105–7,131. 1987. Mexico: Jalisco. [Holo:JE; Iso:WU].
- 14-327 **T. baileyi** Rose ex Small.
See Gardner, Selbyana 7:363-4. 1984.
- 14-327.1 **T. pseudobaileyi** Gardner, Selbyana 7:363-5. 1984. Mexico:Chiapas. [Holo:SEL; Iso: US,MEXU,CAS]. See also J. Bromeliad Soc. 36:28,31–2. 1986.
The holotype was never received at SEL.
- 14-327.2 **T. intermedia** Mez.
Treated as a synonym of *T. circinnata* sensu Mez et auct. (= *T. paucifolia* Baker) in Smith & Downs (1977). See Ehlers, Bromelie 1991(2):46–9. 1991.
–Syn.: *T. paucifolia* ssp. *schubertii* Ebel & Röth.
- 14-328.1 **T. kalmbacheri** Matuda.
Formerly 328a in Addendum to Smith & Downs (1977).
- 14-330b **T. brachycaulos** var. **multiflora** L.B. Smith.
= *T. hybrid (caput-medusae x brachycaulos)*, fide J. Utley.
- 14-330.1 **T. cryptantha** Baker.
Treated as a synonym of *T. brachycaulos* Schlechtendahl in Smith & Downs (1977).
See Gardner (1982).
- 14-332c “**T. capitata** var. **domingensis**” Rauh & Ariza Julia, nom. nud., J. Bromeliad Soc. 33:143–50,170. 1983. No latin or type cited.
- 14-333 **T. benthamiana** Klotzsch ex Baker.
= *T. erubescens* Schlechtendal. See Weber, Feddes Repert. 95:583–5. 1984; J. Bromeliad Soc. 31:173–5. 1985.
- 14-333.1 **T. erubescens** Schlechtendal.
–Syn.: *T. benthamiana* Klotzsch ex Baker.

- 14-333.1b **T. erubescens** var. **arroyoensis** Weber & Ehlers, Feddes Repert. 94:604–7. 1983. Mexico:Nuevo Leon. [Holo:HAL]. See also J. Bromeliad Soc. 33:30–3. 1983.
- 14-333.1c **T. erubescens** var. **patentibracteata** Weber & Ehlers, Feddes Repert. 94:607–9. 1983. Mexico:Sinaloa. [Holo:HAL]. See also J. Bromeliad Soc. 33:30–3. 1983.
- 14-333.2 **T. atrococcinea** Matuda, Cact. Suc. Mex. 22:22–3. 1977. Mexico:Oaxaca. [Holo: MEXU].
= *T. oaxacana* L.B. Smith. See Ehlers, J. Bromeliad Soc. 39:247–50,272. 1989; Bromelie 1990(1):7–8. 1990.
- 14-333.3 **T. hondurensis** Rauh, Trop. Subtrop. Pflanzenwelt 33:5–7. 1981. Honduras:Francisco Morazan. [Holo:HEID]. See also J. Bromeliad Soc. 31:23–4. 1981.
- 14-333.4 **T. harrisii** Ehlers, Bromelie 1987(3):34–5; 1987(4):54. 1987. Guatemala:Zacapa. [Holo: WU]. See also J. Bromeliad Soc. 39:75–6. 1989.
CITES Appendix II.1992.
- 14-333.6 **T. feldhoffii** Ehlers, Bromelie 1990(2):40–1. 1990. Guatemala:Quiche. [Holo:WU].
= *T. velickiana* L.B. Smith. See Luther, J. Bromeliad Soc. 43:59–63. 1993.
- 14-333.7 **T. velickiana** L.B. Smith.
Formerly 261 in Smith & Downs (1977). See Luther, J. Bromeliad Soc. 43:59–63. 1993.
–Syn.: *T. feldhoffii* Ehlers.
- 14-335 **T. diguetii** Mez & Roland-Gosselin ex Mez.
See Rauh, J. Bromeliad Soc. 32:95–6. 1982.
- 14-339.1 **T. cossonii** Baker.
Treated as a synonym of *T. prodigiosa* (Lemaire) Baker in Smith & Downs (1977).
See Gardner (1982); J. Bromeliad Soc. 34:8–10. 1984.
- 14-339.2 **T. wuelfinghoffii** Ehlers, J. Bromeliad Soc. 40:200–2. 1990. Mexico:Oaxaca. [Holo: WU].
- 14-339.3 **T. mirabilis** L. Hromadnik, Bromelie 1992(2):27–9. 1992. Mexico:Guerrero. [Holo: WU].
- 14-339.4 **T. hromadnikiana** Ehlers, Bromelie 1992(2):43–5. 1992. Mexico:Guerrero. [Holo: WU; Iso:WU].
- 14-340.1 **T. sierra-juarezensis** Matuda.
Formerly 340a in Addendum to Smith & Downs (1977).
- 14-342.1 **T. alfredo-lau** Rauh & Lehmann, Trop. Subtrop. Pflanzenwelt 41:25–8. 1983. Mexico:Hidalgo. [Holo:HEID].
- 14-342.2 **T. nuyooensis** Ehlers, Bromelie 1989(3):53–5. 1989. Mexico:Oaxaca. [Holo:WU; Iso: WU].
- 14-345 **T. oaxacana** L.B. Smith.
–Syn.: *T. atrococcinea* Matuda.
- 14-345.1 **T. quaquaflorifera** Matuda, Cact. Suc. Mex. 22:23–4. 1977. Mexico:Guerrero. [Holo: MEXU].
- 14-347b **T. schiedeana** var. **totolapanensis** Weber & Ehlers, Feddes Repert. 94:620. 1983. Mexico:Oaxaca. [Holo:HAL].
= *T. schiedeana* ssp. *glabrior* (L.B. Smith) Gardner, Selbyana 7:368-9. 1984; J. Bromeliad Soc.37:163–4. 1987.
- 14-347(2) **T. schiedeana** ssp. **glabrior** (L.B. Smith) Gardner.
–Basionym: *T. pueblensis* var. *glabrior* L. B. Smith, Phytologia 6:257. 1958.
–Syn.: *T. schiedeana* var. *totolapanensis* Weber & Ehlers.
- 14-348.1 **T. fresnilloensis** Weber & Ehlers, Feddes Repert. 94:609–11. 1983. Mexico:Zacatecas. [Holo:HAL].
- 14-349 **T. ehrenbergii** (K. Koch) Klotzsch ex Mez.
See Gardner, J. Bromeliad Soc. 32:17–9. 1982.
= *T. tortilis* Klotzsch ex Baker. See W. Till, Bromelie 1986(3):39. 1986.
- 14-349.2 **T. sonorensis** L.B. Smith & Dimmitt, J. Bromeliad Soc. 34:160–2. 1984; 35:71. 1985. Mexico:Sonora. [Holo:US; Iso:ASDM].
= *T. elizabethiae* Rauh. See Dimmitt, J. Bromeliad Soc. 35:71. 1985.
- 14-354b **T. viridiflora** var. **variegata** Seaborn, J. Bromeliad Soc. 29:182. 1979. Mexico:Vera Cruz. [Holo:US].

- 14-358 **T. crispa** (Baker) Mez.
—Syn.: “*T. crispa* var. *tustii*” Rauh, nom. nud.
- 14-358b “**T. crispa** var. **tustii**” Rauh, J. Bromeliad Soc. 32:167–9. 1982. Colombia:Narino.
[Holo:HEID]. Nom. nud., no latin or type cited.
= *T. crispa* (Baker) Mez. See Kiff (1991 p.16).
- 14-358.1 **T. undulifolia** Mez.
Treated as a synonym of *T. crispa* (Baker) Mez in Smith & Downs (1977). See Kiff (1991 p. 53).
- 14-359.1 **T. patriae** Rauh, Trop. Subtrop. Pflanzenwelt 16:38–42. 1976. Mexico:Chiapas. [Holo:HEID].
= *Catopsis minimiflora* Matuda. See Rauh, Trop. Subtrop. Pflanzenwelt 27:24. 1979.
- 14-359.1b **T. patriae** var. **laxiflora** Rauh, Trop. Subtrop. Pflanzenwelt 16:38–42. 1976. Mexico:Chiapas. [Holo:HEID].
= *Catopsis minimiflora* Matuda. See Rauh, Trop. Subtrop. Pflanzenwelt 27:24. 1979.
- 14-367 **T. lescaillei** C. H. Wright.
= *T. spiculosa* Grisebach. See Zanoni et al., Moscosoa 4:82. 1986.
- 14-368 **T. stenoglossa** L.B. Smith.
= *T. spiculosa* var. *stenoglossa* (L.B. Smith) Gouda. See Gouda (1987 p.62).
- 14-369 **T. spiculosa** Grisebach.
—Syn.: *T. lescaillei* C. Wright.
- 14-369d **T. spiculosa** var. **stenoglossa** (L.B. Smith) Gouda, Fl. Guianas Ser. A, 3(189). 1987.
—Basionym: *T. stenoglossa* L.B. Smith, Fieldiana, Bot. 28:151. 1951.
- 14-372.1 **T. almeriae** Rauh, Trop. Subtrop. Pflanzenwelt 58:19–21. 1986. Colombia. [Holo:HEID].
- 14-376.1 **T. dielsii** Harms.
Treated as a synonym of *T. pendulispica* Mez in Smith & Downs (1977).
- 14-378.1 **T. hauggiae** Rauh, Trop. Subtrop. Pflanzenwelt 52:46–53. 1985. Ecuador:Azuay.
[Holo:HEID; Iso:WU].
- 14-380.1 **T. domingos-martinsis** Rauh, Trop. Subtrop. Pflanzenwelt 79:17–8. 1991. Brazil:Espírito Santo. [Holo:HB].
- 14-382.1 **T. tandapiana** Luther, Selbyana 7:91–2. 1982. Ecuador:Pichincha. [Holo:SEL; Iso:US].
- 14-385.1 **T. nervibractea** Gilmartin & Luther, J. Bromeliad Soc. 40:250–1. 1990. Ecuador.
[Holo:US].
- 14-389d **T. adpressa** var. **miniata** Rauh, Trop. Subtrop. Pflanzenwelt 13:5–16. 1974. Ecuador:Tungurahua. [Holo:HEID].
- 14-390 **T. caribaea** L.B. Smith.
= *T. tetrantha* var. *caribaea* (L.B. Smith) Gouda. See Gouda (1987 pp.65–6).
- 14-391g **T. tetrantha** var. **caribaea** (L.B. Smith)
Gouda, Fl. Guianas Ser. A, 3(189):65–6. 1987. Venezuela:Aragua. [Holo:GOET].
—Basionym: *T. parviflora* Grisebach non Ruiz & Pavon, Nachr. Ges. Wiss. Goett. “1864”:16. 1865.
—Syn.: *T. caribaea* L.B. Smith.
- 14-391.1 **T. pseudotetrantha** Gilmartin & Luther, J. Bromeliad Soc. 40:251–2. 1990. Ecuador:El Oro. [Holo:SEL].
- 15 VRIESEA** Lindley. See Utley (1983).
- 15-1.1 **V. duidae** (L.B. Smith) Gouda, Fl. Guianas, Ser. A, 3(189):72. 1987.
—Basionym: *Tillandsia duidae* L.B. Smith, Bull. Torrey Club 58:340. 1931.
- 15-1.2 **V. alborubrobacteata** Rauh, Trop. Subtrop. Pflanzenwelt 16:19–22. 1976. Peru:Amazonas. [Holo:HEID].
= *V. dubia* (L.B. Smith) L.B. Smith.
- 15-1.3 **V. lutheriana** J.R. Grant, J. Bromeliad Soc. 42:114–7,125. 1992. Costa Rica:Puntarenas. [Holo:CR; Iso:US,WS,SEL].
- 15-2.1 **V. belloi** Leme, Bradea 5:172–3,183. 1989. Brazil:Espírito Santo. [Holo:HB].
- 15-3.1 **V. menescalii** Pereira & Leme, Bradea 4:166–7,169. 1985. Brazil:Espírito Santo.
[Holo:HB; Iso:RB,SEL].
- 15-4.1 **V. bi-beatricis** Morillo, Ernstia 39:1. 1986. Venezuela:Atures. [Holo:VEN].

- 15-7.1 **V. ospinae** Luther, J. Bromeliad Soc. 33:23-4. 1983. Colombia:Meta. [Holo:SEL].
- 15-7.1b **V. ospinae** var. **gruberi** Luther, J. Bromeliad Soc. 42:118-9. 1992. Colombia:Cas-anare. [Holo:SEL; Iso:HUA].
- 15-10.1 **V. rubrobracteata** Rauh, Trop. Subtrop. Pflanzenwelt 27:13-6. 1979. Colombia:Na-rino. [Holo:HEID]. See also J. Bromeliad Soc. 29:213-5. 1979.
- 15-11 **V. dubia** (L.B. Smith) L.B. Smith
See L.B. Smith & R.W. Read, Phytologia 38:138-9. 1977.
—Syn.: *V. alborubrobracteata* Rauh.
- 15-12.1 **V. oxapampae** Rauh, Trop. Subtrop. Pflanzenwelt 16:22-5. 1976. Peru:Pasco. [Holo:HEID].
- 15-12.2 **V. rectifolia** Rauh, Trop. Subtrop. Pflanzenwelt 50:16-9. 1984. Brazil:Pernambuco. [Holo:HEID].
- 15-14 **V. pedicellata** (Mez & Wercklé) L.B. Smith & Pittendrigh.
—Syn.: *V. turbinata* (Mez & Wercklé) L.B. Smith.
—Syn.: *V. violascens* (Mez & Wercklé) L.B. Smith.
- 15-15ii **V. sceptrum** forma **flavobraceata** Leme, Bradea 4:317-8. 1987. Brazil:Bahia. [Holo:HB].
- 15-18.1 **V. greenbergii** Utley, Tulane Stud. Zool. Bot. 24:30-2. 1983. Costa Rica:Alajuela. [Holo:DUKE; Iso:CR,DUKE,F,US].
- 15-19 **V. ranifera** L.B. Smith.
= *V. latissima* (Mez & Wercklé) L.B. Smith. See Utley (1983 p.33).
- 15-22.1 **V. serrana** Pereira & Penna, Bradea 4:137-8. 1985. Brazil:Rio de Janeiro. [Holo:HB].
- 15-25 **V. killipiana** L.B. Smith.
= *V. kupperiana* Suessenguth.
- 15-26b **V. gigantea** var. **seideliana** Röth, Bromelie 1992(1):5-6. 1992. Brazil:Espirito Santo. [Holo:HAL].
- 15-28 **V. latissima** (Mez & Wercklé) L.B. Smith & Pittendrigh
—Syn.: *V. discolor* (Mez & Wercklé) L.B. Smith & Pittendrigh.
—Syn.: *V. ranifera* L.B. Smith.
- 15-29 **V. turbinata** (Mez & Wercklé) L.B. Smith & Pittendrigh.
= *V. pedicellata* (Mez & Wercklé) L.B. Smith. See Utley (1983 p.24).
- 15-37.1 **V. lidicensis** Reitz, Sellowia 26:55. 1975. Brazil:Rio de Janeiro. [Holo:HBR].
- 15-40 **V. gladioliflora** (Wendland) Antoine.
—Syn.: *V. pachyclamys* Mez.
- 15-49 **V. lancifolia** (Baker) L.B. Smith.
See Weber, J. Bromeliad Soc. 32:215-9. 1982.
- 15-49.1 **V. roberto-seidelii** Weber, J. Bromeliad Soc. 36:12-3,20. 1986. Brazil:Bahia. [Holo:HAL].
- 15-50.1 **V. plurifolia** Leme, Bradea 4:314. 1987. Brazil:Espirito Santo. [Holo:HB].
- 15-54b **V. atra** var. **variegata** Martinelli & Leme, Rodriguesia 35:29-30. 1983. Brazil:Rio de Janeiro. [Holo:RB].
- 15-57c **V. platynema** var. **gracilior** L.B. Smith.
= *V. gracilior* (L.B. Smith) Leme. See J. Bromeliad Soc. 41:263-7. 1991.
- 15-57.1 **V. gracilior** (L.B. Smith) Leme, J. Bromeliad Soc. 41:263-7. 1991.
—Basionym: *V. platynema* var. *gracilior* L.B. Smith, Arq. Bot. S. Paolo II. 1:121. 1943.
- 15-65b **V. sparsiflora** var. **breviscapa** Pereira & Penna, Bol. Mus. Bot. Mun. Curitiba 62:4. 1985. Brazil:Espirito Santo. [Holo:HB].
- 15-67 **V. discolor** (Mez & Wercklé) L.B. Smith & Pittendrigh.
= *V. latissima* (Mez & Wercklé) L.B. Smith & Pittendrigh. See Utley (1983 p.78).
- 15-71.1 **V. naundorffiae** Rauh, Trop. Subtrop. Pflanzenwelt 31:14-7. 1979. Ecuador. [Holo:HEID].
= *V. vittata* (Mez & Wercklé) L.B. Smith.
- 15-73 **V. morrenii** Wawra.
—Syn.: *T. segregata* Pereira.
- 15-75.1 **V. schunkii** Leme, Bradea 4:398-9,405. 1987. Brazil:Espirito Santo. [Holo:HB].
- 15-81 **V. kupperiana** Suessenguth.
—Syn.: *V. killipiana* L.B. Smith.

- 15-85.1 **V. tarmaensis** Rauh, Trop. Subtrop. Pflanzenwelt 43:33–8. 1983. Peru:Junin. [Holo: HEID].
- 15-96 **V. pachyklamys** Mez.
= *V. gladioliflora* (Wendland) Antoine. See Gouda (1987 p.92).
- 15-100.1 **V. roethii** Weber, Bradea 3:23-6. 1979. Brazil. [Holo:HB].
- 15-100.2 **V. ochracea** Rauh & E. Gross, J. Bromeliad Soc. 37:196–8. 1987. Peru:Pasco. [Holo: HEID]. See also Trop. Subtrop. Pflanzenwelt 65:63–5. 1988.
- 15-106.1 **V. melgueroi** Ramirez & Carnevali, J. Bromeliad Soc. 43:55–7. 1993. Venezuela: Amazonas. [Holo:VEN].
- 15-113 **V. limae** L.B. Smith, Phytologia 20:181. 1970.
Description and type collection cited in Smith & Downs (1977) does not match that given in the original description and is incorrect.
- 15-118 **V. schippii** L.B. Smith.
= *V. vittata* Smith & Pittendrigh. Fide J. Utley.
- 15-118.1 **V. panamaensis** E. Gross & Rauh, Trop. Subtrop. Pflanzenwelt 75:42–4. 1990. Panama:Panama. [Holo:HEID].
- 15-120.1 **V. parvula** Rauh, Trop. Subtrop. Pflanzenwelt 58:44–6. 1986. Brazil:Sao Paulo. [Holo: HEID].
- 15-120.2 **V. silva-petrea** Pereira & Reitz.
Formerly 120a in Addendum to Smith & Downs (1977).
- 15-120.3 **V. pseudoligantha** Philcox, Kew Bull. 47:262. 1992. Brazil:Bahia. [Holo:CEPEC; Iso: K].
- 15-125 **V. splitgerberi** (Mez) L.B. Smith & Pittendrigh.
= *Mezobromelia pleiosticha* (Grisebach) Utley & Luther, Ann. Missouri Bot. Gard. 78:270. 1991.
- 15-126.2 **V. diantha** Luther, Selbyana 12:87–8. 1991. Ecuador:Carchi. [Holo:MO; Iso:QCA].
- 15-127 **V. capituligera** (Grisebach) L.B. Smith & Pittendrigh.
–Syn.: *V. capituligera* var. *lutea* Steyermark.
- 15-127b **V. capituligera** var. *lutea* Steyermark, J. Bromeliad Soc. 32:112–3. 1982. Venezuela: Yaracuy. [Holo:VEN].
= *V. capituligera* (Grisebach) L.B. Smith. See Zanoni, Mejia & Read, Moscosoa 4:95-6. 1986.
- 15-128 **V. crassiflora** (Mez & Wercklé) Utley.
= *V. ororiensis* (Mez) L.B. Smith & Pittendrigh. See Utley (1983 p.41).
- 15-129.1 **V. uxoris** Utley, Brittonia 33:583–4. 1981. Costa Rica:Cartago/San José. [Holo:DUKE].
- 15-129.2 **V. vietoris** Utley, Brittonia 33:584–6. 1981. Costa Rica:Cartago/San José. [Holo: DUKE].
- 15-130 **V. cylindraceae** (Suessenguth & Geoppinger) L.B. Smith & Pittendrigh.
= *V. ororiensis* (Mez) L.B. Smith & Pittendrigh. See Utley (1983 p.41).
- 15-132.1 **V. nocturna** Matuda, Cact. Suc. Mex. 20:44. 1975. Mexico:Oaxaca. [Holo:MEXU].
- 15-133 **V. nephrolepis** L.B. Smith & Pittendrigh.
–Syn.: *V. montana* (L.B. Smith) L.B. Smith & Pittendrigh.
- 15-133.1 **V. lyman-smithii** Utley, Tulane Stud. Zool. Bot. 24:35–6. 1983. Costa Rica:Heredia. [Holo:DUKE; Iso:CAS,CR,F,MO,US].
- 15-134 **V. montana** (L.B. Smith) L.B. Smith & Pittendrigh.
= *V. nephrolepis* L.B. Smith & Pittendrigh. See Utley (1983 p.36).
- 15-134.1 **V. dressleri** Rauh, Trop. Subtrop. Pflanzenwelt 58:41–4. 1986. Panama:Coclé. [Holo: HEID].
- 15-134.2 **V. patzeltii** Rauh, Trop. Subtrop. Pflanzenwelt 33:17–20. 1981. Ecuador:Pichincha. [Holo:HEID]. See also J. Bromeliad Soc. 31:201–2. 1981.
- 15-134.2b **V. patzeltii** var. *panamaensis* Rauh, Trop. Subtrop. Pflanzenwelt 60:86–9. 1987. Panama:Panama. [Holo:HEID].
- 15-135 **V. violascens** (Mez & Wercklé) L.B. Smith & Pittendrigh.
= *V. pedicellata* (Mez & Wercklé) L.B. Smith. See Utley (1983 p.24).
- 15-136 **V. leucophylla** L.B. Smith.
–Syn.: *V. leucophylla* var. *subtessellata* Utley.
- 15-136b **V. leucophylla** var. *subtessellata* Utley.
= *V. leucophylla* L.B. Smith., See Utley (1983 p.53).

- 15-137 **V. spectabilis** (Mez & Wercklé) L.B. Smith & Pittendrigh.
= *Guzmania spectabilis* (Mez & Wercklé) Utley. See Utley, *Phytologia* 40:55-7. 1978.
- 15-138 **V. comata** (Mez & Wercklé) L.B. Smith & Pittendrigh.
—Syn.: *V. hygrometrica* var. *angustifolia* L.B. Smith.
- 15-141.1 **V. kathyae** Utley, *Tulane Stud. Zool. Bot.* 24(1):71-3. 1983. Costa Rica:San Jose.
[Holo:DUKE; Iso:CR,F,US].
- 15-142b **V. hygrometrica** var. *angustifolia* L.B. Smith.
= *V. comata* (Mez & Wercklé) L.B. Smith & Pittendrigh. See Utley (1983 p.66).
- 15-145 **V. lineata** (Mez & Wercklé) L.B. Smith & Pittendrigh.
= *V. balanophora* (Mez) L.B. Smith & Pittendrigh. See Utley (1983 p.46).
- 15-146 **V. sarcolepis** L.B. Smith.
= *V. williamsii* L.B. Smith. See Utley (1983 p.62).
- 15-147 **V. irazuensis** (Mez & Wercklé) L.B. Smith & Pittendrigh.
= *V. ororiensis* (Mez) L.B. Smith & Pittendrigh.
See Utley (1983 p.41).
- 15-148 **V. ororiensis** (Mez) L.B. Smith & Pittendrigh.
—Syn.: *V. crassiflora* (Mez & Wercklé) L.B. Smith.
—Syn.: *V. cylindrata* (Suessenguth & Geopinger) L.B. Smith.
—Syn.: *V. irazuensis* (Mez & Wercklé) L. B. Sm..
—Syn.: *V. standleyi* (L.B. Smith) Smith & Pittendrigh.
- 15-150.1 **V. attenuata** L.B. Smith & Pittendrigh, *J. Wash. Acad. Sci.* 43:401. 1953.
Treated as a synonym of *V. stenophylla* (Mez & Wercklé) L.B. Smith in Smith & Downs (1977). See Utley (1983 p.62,65).
- 15-151 **V. balanophora** (Mez) L.B. Smith & Pittendrigh.
—Syn.: *V. lineata* (Mez & Wercklé) L.B. Smith & Pittendrigh.
- 15-151.1 **V. haltonii** Luther, *Selbyana* 7:348-51. 1984. Ecuador:Napo. [Holo:SEL].
- 15-151.2 **V. luis-gomezii** Utley, *Tulane Stud. Zool. Bot.* 24(1):48-50. 1983. Costa Rica:Cartago.
[Holo:DUKE; Iso:CR,F,US].
- 15-154 **V. williamsii** L.B. Smith.
—Syn.: *V. sarcolepis* L.B. Smith & Utley.
- 15-155 **V. standleyi** (L.B. Smith) L.B. Smith & Pittendrigh.
= *V. ororiensis* (Mez) L.B. Smith & Pittendrigh. See Utley (1983 p.41).
- 15-158 **V. vittata** Smith & Pittendrigh
—Syn.: *V. naundorffiae* Rauh.
—Syn.: *V. schippii* L.B. Smith.
- 15-162.1 **V. piepenbringii** Rauh, *Trop. Subtrop. Pflanzenwelt* 42:12-21. 1983. Peru:Amazonas.
[Holo:HEID].
- 15-166.1 **V. boeghii** Luther, *Nordic J. Bot.* 12:219-21. 1992. Ecuador:Loja. [Holo:SEL; Iso:AAU,QCA,QCNE,LOJA].
- 15-168.1 **V. hatschbachii** L.B. Smith & R.W. Read.
Formerly 168a in Addendum to Smith & Downs (1977).
- 15-168.2 **V. apparicana** Pereira & Reitz.
Formerly 168b in Addendum to Smith & Downs (1977).
- 15-170.1 **V. koideae** Rauh, *J. Bromeliad Soc.* 42:148-50. 1992 Peru:Cajamarca. [Holo:HEID].
- 15-177.1 **V. declinata** Leme, *Bradea* 5:174-5,185. 1989. Brazil:Santa Catarina. [Holo:HB].
- 15-179.1 **V. michaelii** Weber, *Feddes Repert.* 93:349. 1982. Brazil. [Holo:HAL].
- 15-179.2 **V. languida** L.B. Smith
Formerly 30 in Smith & Downs (1977).
- 15-180.1 **V. altimontana** Pereira & Martinelli, *Bradea* 3:380,383-5. 1983. Brazil:Rio de Janeiro.
[Holo:RB; Iso:HB,US].
- 15-181.1 **V. fluminensis** E. Pereira
Formerly 181a in Addendum to Smith & Downs (1977).
- 15-181.2 **V. paratiensis** Pereira
Formerly 181b in Addendum to Smith & Downs (1977).
- 15-181.3 **V. ouroensis** Weber, *Feddes Repert.* 97:106-8. 1986. Brazil:Minas Gerais. [Holo:HAL]. See also *J. Bromeliad Soc.* 35:206. 1985.
- 15-183.1 **V. rastrensis** Leme, *Bradea* 5:176-7,187. 1989. Brazil:Santa Catarina. [Holo:HB].
- 15-184.1 **V. graciliscapa** Weber, *Feddes Repert.* 97:104-6. 1986. Brazil:Bahia. [Holo:HAL].

- 15-185.1 *V. kautskyana* Pereira & Penna, Bradea 3:380,382. 1983. Brazil:Espirito Santo. [Holo:HB; Iso:HB].
- 15-186b *V. gradata* var. *bicolor* Pereira & Penna, Bradea 4:137. 1985. Brazil:Rio de Janeiro. [Holo:HB].
- 15-187.1 *V. pauperrima* Pereira.
Formerly 187a in Addendum to Smith & Downs (1977).
- 15-187.2 *V. seideliana* Weber, Feddes Repert. 97:108–10. 1986. Brazil:Bahia. [Holo:HAL].
- 15-188b *V. erythrodactylon* var. *rubropunctata* Pereira & Moutinho, Bradea 3:214,217. 1981. Brazil:Rio de Janeiro. [Holo:HB].
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- 15-188.2 *V. punctulata* Pereira & Penna, Bradea 4:272–3,279. 1986. Brazil:Rio de Janeiro. [Holo:HB].
- 15-190.1 *V. noblicki* Martinelli & Leme, Bradea 4:346. 1987. Brazil:Bahia. [Holo:HUEFS].
- 15-194.1 *V. atrococcinea* Rauh, Trop. Subtrop. Pflanzenwelt 33:14–7. 1981. Brazil: Rio de Janeiro. [Holo:HEID].
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- 15-195b *V. carinata* var. *flavominiata* Leme, J. Bromeliad Soc. 34:121–2. 1984. Brazil:Espirito Santo. [Holo:HB; Iso:RB].
- 15-195.1 *V. debilis* Leme, Bradea 5:173–4,184. 1989. Brazil:Espirito Santo. [Holo:HB].
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- 15-197 *V. paraibica* Wawra.
See Leme, J. Bromeliad Soc. 36:217–9. 1986.
- 15-200.1 *V. sucrei* L.B. Smith & R.W. Read.
Formerly 200a in Addendum to Smith & Downs (1977).
—Syn.: *V. atrococcinea* Rauh.
—Syn.: *V. gladioflammans* Pereira & Reitz.
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= *V. sucrei* L.B. Smith & R.W. Read. See Pereira, Bradea 2:252. 1978.
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See also J. Bromeliad Soc. 32:263–4. 1982.
- 15-203.1 *V. bleheri* Röth & Weber, Bradea 2:261–4. 1978. Brazil:Rio de Janeiro. [Holo:HAL; Iso:HB]. See also J. Bromeliad Soc. 29:172–4. 1979.
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- 15-206 *V. recurvata* Gaudichaud.
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- 15-208c *V. ensiformis* var. *warmingii* (E. Morren) L.B. Smith.
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- 15-227.1 *V. penduliscapa* Rauh, Trop. Subtrop. Pflanzenwelt 18:21–4. 1976. Ecuador:Azuay. [Holo:HEID].
- 15-228.1 *V. andrettae* Rauh, Trop. Subtrop. Pflanzenwelt 43:22–8. 1983. Ecuador:Azuay. [Holo:HEID]. See also J. Bromeliad Soc. 32:266–7. 1982.

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- 15-234.1 **V. wuelfinghoffii** Rauh & E. Gross, Trop. Subtrop. Pflanzenwelt 79:25–7. 1991. Ecuador:Azuay. [Holo:HEID].
- 15-235.1 **V. limonensis** Rauh, Trop. Subtrop. Pflanzenwelt 43:19–22. 1983. Ecuador:Azuay. [Holo:HEID].
- 15-236.1 **V. strobeliae** Rauh, Trop. Subtrop. Pflanzenwelt 18:17–21. 1976. Ecuador:Azuay. [Holo:HEID].
- 15-241.1 **V. curvispica** Rauh, Trop. Subtrop. Pflanzenwelt 42:21–4. 1983. Peru:Amazonas. [Holo:HEID].
- 15-244.1 **V. odorata** Leme, Bradea 5:175-6,186. 1989. Brazil: Rio de Janeiro. [Holo:HB].
- 15-246.1 **V. vinicolor** Pereira & Reitz.
Formerly 246a in Addendum to Smith & Downs (1977).
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- 16-5.2 **G. dalstromii** Luther, Selbyana 12:68–71. 1991. Ecuador:Tungurahua. [Holo:SEL].
- 16-7 **G. condensata** Mez & Wercklé.
—Syn.: *G. costaricensis* Mez & Wercklé.
—Syn.: *G. thyrsoides* Rauh.
- 16-11.1 **G. cabreræ** Gilmartin, Brittonia 33:254–6. 1981. Colombia:Valle. [Holo:CUVC; Iso:US,WS]. See also Luther, J. Bromeliad Soc. 42:22–3. 1993.
- 16-15.1 **G. hollinensis** Luther, J. Bromeliad Soc. 42:168–9. 1992. Ecuador:Napo. [Holo:SEL; Iso:US,QCA].
- 16-17.1 **G. thyrsoides** Rauh, Trop. Subtrop. Pflanzenwelt 58:50–3. 1986. Costa Rica:Cartago. [Holo:HEID].
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- 16-19ii **G. rhonhofiana** forma **variegata** Luther, Phytologia 74:451. 1993. Ecuador:Pichincha. [Holo:SEL].
- 16-22 **G. venamensis** L.B. Smith.
= *G. sphaeroidea* (André) André ex Mez. See Gouda (1987 p.28).
- 16-24 **G. costaricensis** Mez & Wercklé.
= *G. condensata* Mez & Wercklé.
- 16-26b **G. scherzeriana** var. **albiflora** Rauh, J. Bromeliad Soc. 36:161–4. 1986. Ecuador:Pichincha. [Holo:HEID].
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- 16-26.1 **G. alborosea** Luther, Selbyana 9:187. 1986. Ecuador:Pichincha. [Holo:SEL; Iso:US].
—Syn.: *G. scherzeriana* var. *albiflora* Rauh.
- 16-26.2 **G. albescens** Luther & Determann, J. Bromeliad Soc. 43:152–3. 1993. Ecuador:Esmeraldas. [Holo:SEL; Iso:QCA, QCNE, WU].
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- 16-35b **G. confusa** var. **foetida** Rauh, Trop. Subtrop. Pflanzenwelt 31:21–3. 1979. Ecuador:Napo. [Holo:HEID].
- 16-36.1 **G. garciaensis** Rauh, Trop. Subtrop. Pflanzenwelt 27:16–8. 1979. Peru:Amazonas. [Holo:HEID]. See also J. Bromeliad Soc. 30:152–3.
- 16-36.2 **G. rubrolutea** Rauh, Trop. Subtrop. Pflanzenwelt 27:20–3. 1979. Ecuador:Napo. [Holo:HEID]. See also J. Bromeliad Soc. 31:68–9. 1981.

- 16-39 **G. sphaeroidea** (André) André ex Mez.
—Syn.: *G. venamensis* L.B. Smith.
- 16-39.1 **G. madisonii** Luther, Selbyana 11:56. 1989. Ecuador:Morona-Santiago. [Holo:SEL].
- 16-39.2 **G. condorensis** Luther, Nordic J. Bot. 12:219–21. 1992. Ecuador:Zamora-Chinchipec.
[Holo:SEL].
- 16-39.3 **G. kentii** Luther, Phytologia 74:449–51. 1993. Ecuador:Imbabura. [Holo:SEL].
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[Holo:MO].
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Chiriqui. [Holo:HEID].
- 16-46.1 **G. blassii** Rauh, Trop. Subtrop. Pflanzenwelt 42:24–7. 1983. Costa Rica. [Holo:
HEID]. See also J. Bromeliad Soc. 33:66–8. 1983.
- 16-51.1 **G. victoriae** Rauh, Trop. Subtrop. Pflanzenwelt 18:24–7. 1976. Peru:Amazonas. [Holo:
HEID; Iso:US]. See also J. Bromeliad Soc. 30:51–3. 1980.
- 16-51.2 **G. rio-nievensis** Rauh, Trop. Subtrop. Pflanzenwelt 50:22–6. 1984. Peru:San Martin.
[Holo:HEID].
- 16-51.2b **G. rio-nievensis** var. **laxiflora** Rauh, Trop. Subtrop. Pflanzenwelt 50:22–6. 1984.
Peru:San Martin. [Holo:HEID].
- 16-51.3 **G. rauhiana** Luther, J. Bromeliad Soc. 38:104–6. 1988. Ecuador:Carchi. [Holo:SEL;
Iso:US,HEID].
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QCA].
- 16-58b **G. lindenii** var. **concolor** Rauh, Trop. Subtrop. Pflanzenwelt 43:41–6. 1983. Peru:
Junin. [Holo:HEID].
- 16-58.1 **G. bismarckii** Rauh, Trop. Subtrop. Pflanzenwelt 50:19–22. 1984. Peru:San Martin.
[Holo:HEID]. See also J. Bromeliad Soc. 34:114–6. 1984; Trop. Subtrop. Pflan-
zenwelt 58:48–50. 1986.
- 16-60 **G. pleiosticha** sensu L.B. Smith et auct. non Grisebach (excluding type).
= *G. altsonii* L.B. Smith. See Gouda (1987 p.20).
- 16-60 **G. pleiosticha** (Grisebach) Mez (including the type). See Gouda (1987 p.82-5).
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(1987 p.20).
- 16-60.2 **G. zakii** Luther, Phytologia 74:452–3. 1993. Ecuador:Pastaza. [Holo:MO].
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- 16-63.2 **G. atrocastanea** Luther, Nordic J. Bot. 12:219–21. 1992. Ecuador:Morona-Santiago.
[Holo:SEL].
- 16-68.1 **G. recurvobracteata** Rauh, Trop. Subtrop. Pflanzenwelt 31:18–21. 1979. Ecuador:
Pichincha. [Holo:HEID].
= *G. fusispica* Mez & Sodiro. See Luther, J. Bromeliad Soc. 35:258. 1985.
- 16-69b **G. morreniana** var. **tenuifolia** Luther, Selbyana 11:57. 1989. Peru:Pasco. [Holo:SEL,Iso:
MO].
- 16-74.1 **G. puyoensis** Rauh, Trop. Subtrop. Pflanzenwelt 27:18–20. 1979. Ecuador:Tungur-
ahua. [Holo:HEID]. See also J. Bromeliad Soc. 30:215–6. 1980.
- 16-74.2 **G. jaramilloi** Luther, Selbyana 12:74–5. 1991. Ecuador:Imbabura. [Holo:SEL; Iso:
QCNE].
- 16-75.1 **G. claviformis** Luther, J. Bromeliad Soc. 41:6–8. 1991. Ecuador: Morona-Santiago.
[Holo:NY].
- 16-76.1 **G. andreettae** Rauh, Trop. Subtrop. Pflanzenwelt 58:46–8. 1986. Ecuador:Azuay.
[Holo:HEID].

- 16-78 **G. retusa** L.B. Smith.
—Syn.: *G. cerifera* Rauh & Barthlott.
- 16-80.1 **G. besseae** Luther, Selbyana 5:310-2. 1981. Bolivia:Cochabamba. [Holo:SEL; Iso:US].
- 16-80.2 **G. foetida** Rauh, Trop. Subtrop. Pflanzenwelt 60:52–5. 1987. Ecuador:Pastaza. [Holo:HEID].
- 16-81.1 **G. glaucophylla** Rauh, Trop. Subtrop. Pflanzenwelt 53:43–6. 1985. Peru:Pasco. [Holo:HEID].
- 16-81.2 **G. skotakii** Luther, Selbyana 12:68–9. 1991. Costa Rica:Cartago. [Holo:SEL; Iso:CR].
- 16-84.1 **G. cerifera** Rauh & Barthlott in Rauh, Trop. Subtrop. Pflanzenwelt 16:49–53. 1976; 33:28. 1981. Ecuador:Zamora-Chinchipec. [Holo:HEID].
= *G. retusa* L.B. Smith.
- 16-85.1 **G. barbiei** Rauh, Trop. Subtrop. Pflanzenwelt 53:46–8. 1985. Ecuador:Guayas. [Holo:HEID].
- 16-86b **G. melinonis** var. **quitensis** Rauh, Trop. Subtrop. Pflanzenwelt 16:45–8. 1976. Ecuador:Pichincha. [Holo:HEID].
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- 16-88.1 **G. desautelsii** L.B. Smith & R.W. Read, J. Bromeliad Soc. 33:17–8. 1983. Panama:Coclé. [Holo:US].
- 16-88.2 **G. armeniaca** Luther, Phytologia 74:454–5. 1993. Panama:Panama. [Holo:SEL].
- 16-88.3 **G. filiorum** L.B. Smith
Formerly 37 in Smith & Downs (1977).
- 16-90 **G. fuspica** Mez & Sodiro.
—Syn.: *G. recurvobracteata* Rauh.
- 16-97 **G. remyi** L.B. Smith.
—Syn.: *G. melinonis* var. *quitensis* Rauh.
- 16-100b **G. kraenzliniana** var. **macrantha** L.B. Smith
= *G. nidularioides* L.B. Smith & R.W. Read.
- 16-104.1 **G. spectabilis**(Mez & Wercklé) Utley, Phytologia 40:55–7. 1978.
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—Syn.: *Vriesea spectabilis* (Mez & Wercklé) L.B. Smith & Pittendrigh.
- 16-105.1 **G. circinnata** Rauh, Trop. Subtrop. Pflanzenwelt 60:48–51. 1987. Panama:Panama. [Holo:HEID].
- 16-112.1 **G. nidularioides** L.B. Smith & R.W. Read, J. Bromeliad Soc. 35:251. 1985. Colombia:Choco. [Holo:US; Iso:NY].
—Syn.: *G. kraenzliniana* var. *macrantha* L.B. Smith.
- 16-114c **G. sanguinea** var. **comosa** Luther, Selbyana 11:54. 1989. Colombia. [Holo:SEL]. See also J. Bromeliad Soc. 39:197–9,204. 1989.
- 16-114.1 **G. butcheri** Rauh, Trop. Subtrop. Pflanzenwelt 65:42–5. 1988. Panama:Chiriqui. [Holo:HEID].
- 16-115 **G. macropoda** L.B. Smith.
—Syn.: *G. sprucei* var. *dressleri* Rauh.
- 16-116.1 **G. testudinis** L.B. Smith & R.W. Read, Phytologia 41:333–4,344. 1979. Colombia:Choco. [Holo:MO].
- 16-116.1b **G. testudinis** var. **splendida** Luther, J. Bromeliad Soc. 42:243–4. 1992. Ecuador:Esmeraldas. [Holo:SEL; Iso:QCNE].
- 16-116.2 **G. harlingii** Luther, Selbyana 12:71–2. 1991. Ecuador:Pichincha. [Holo:GB; Iso:QCA].
- 16-117 **G. sprucei** (André) L.B. Smith.
—Syn.: *G. lellingeri* L.B. Smith & R.W. Read.
- 16-117b **G. sprucei** var. **dressleri** Rauh, Trop. Subtrop. Pflanzwelt 33:20–3. 1981. Panama:Panama. [HEID].
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- 16-117.3 **G. rosea** L.B. Smith, *Proc. Amer. Acad. Arts* 68:147. 1933.
Treated as a synonym of *G. sprucei* in Smith & Downs (1977).
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- 16-118d **G. musaica** var. **discolor** Luther, *Selbyana* 11:56–7 (1989). Panama:Panama. [Holo: SEL].
- 16-118e **G. musaica** var. **rosea** Luther, *Selbyana* 11:56–7. 1989. Panama:Chiriqui. [Holo: SEL∩o:MO,US].
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—Syn.: *Guzmania pleiosticha* (Grisebach) Mez.
—Syn.: *Vriesea pleiosticha* (Grisebach) Gouda.
—Syn.: *Vriesea splitgerberi* (Mez) L.B. Smith.
- 17-2.1 **M. lyman-smithii** Rauh & Barthlott, *Trop. Subtrop. Pflanzenwelt* 16:13–9. 1976.
Ecuador:Cotopaxi. [Holo:HEID].
- 17-2.2 **M. hutchisonii** (L.B. Smith) Weber & L.B. Smith, *J. Bromeliad Soc.* 33:121–2. 1983.
—Basionym: *Tillandsia hutchisonii* L. B. Smith, *Phytologia* 13:145. 1966.
—Syn.: *Mezobromelia trollii* Rauh.
- 17-2.3 **M. brownii** Luther, *Selbyana* 12:74–7. 1991. Ecuador:Morona-Santiago. [Holo:SEL; Iso:QCA,QCNE,US,RM].
- 17-2.4 **M. trollii** Rauh, *Trop. Subtrop. Pflanzenwelt* 21:5–10. 1977. Peru:Amazonas. [Holo: HEID; Iso:US].
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—Syn.: *Tillandsia patriae* Rauh.
—Syn.: *T. patriae* var. *laxiflora* Rauh.

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- 21-2 **R. petersii** L.B. Smith.
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- 21-3 **R. columbiana** E. Morren.
See E. Gross, Trop. Subtrop Pflanzenwelt 79:30–1. 1991.
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- 21-6.1 **R. carvalhoi** Martinelli & Leme, J. Bromeliad Soc. 37:79–81. 1987. Brazil: Bahia. [Holo:RB].
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—Basionym: *Lamprococcus corallinus* Beer, Bromel. 106. 1856.
—Syn.: *Aechmea brachycaulis* Baker.
- 21.1-2 **L. marantoides** (L.B. Smith) R.W. Read, J. Bromeliad Soc. 34:199–201,212–6. 1984.
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- 27-7 **C. sinuosus** L.B. Smith.
See Luther, J. Cryptanthus Soc. 4(1):12. 1989.
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- 27-9 **C. bromelioides** Otto & Dietrich.
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- 27-10.1 **C. burle-marxii** Leme, J. Cryptanthus Soc. 5(1):12. 1990. Brazil:Pernambuco. [Holo:HB].
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- 27-16 **C. marginatus** L.B. Smith.
–Syn.: *C. bivittatus* var. *luddemannii* Baker.
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- 28-8f **N. innocentii** var. **bicolor** Pereira, Bradea 1:316. 1973. Brazil:Espirito Santo. [Holo:HB].
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- 28-14.1 **N. bocainensis** Leme, Bradea 5:169-70,180. 1989. Brazil: Rio de Janeiro. [Holo:HB].
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- 28-21c **N. procerum** var. **cariacicaense** Weber, Feddes Repert. 97:124-6. 1986. Brazil:Espirito Santo. [Holo:HAL].
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- 31-46.1b **B. gurkeniana** var. **funciana** Pereira & Leme, *Revista Brasil Biol.* 45:635. 1935. Brazil:Bahia. [Holo:HB].
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- 34-2.1b **O. burle-marxii** var. **seabrae** Rauh, *Trop. Subtrop. Pflanzenwelt* 52:76-82. 1985. Brazil:Bahia. [Holo:HEID]. See also *J. Bromeliad Soc.* 35:247-50. 1985.
- 34-2.2 **O. albopictum** Philcox, *Kew Mag.* 2:354. 1985. Brazil:Bahia. [Holo:SEPEC; Iso:K].
- 34-2.3 **O. supthutii** E. Gross & Barthlott, *Trop. Subtrop. Pflanzenwelt* 75:46-8. 1990. Brazil: Minas Gerais. [Holo:HB; Iso:HEID]. See also *J. Bromeliad Soc.* 40:217-9. 1990.
- 34-8b **O. fosterianum** var. **estesvii** Rauh, *Trop. Subtrop. Pflanzenwelt* 79:27-9. 1991. Brazil:Espirito Santo. [Holo:HB].
- 34-15.1 **O. lymanianum** Pereira & Penna, *Bradea* 4:3-4,7. 1983. Brazil:Bahia. [Holo:HB].
- 34-15.2 **O. lemei** Pereira & Penna, *Bol. Mus. Bot. Mun. Curitiba* 62:3-4. 1985. Brazil:Bahia [Holo:HB].

- 34-16c **O. disjunctum** var. **angustobraceatum** Rauh, Trop. Subtrop. Pflanzenwelt 58:55–8. 1986. Brazil:Minas Gerais. [Holo:HEID].
- 34-16d **O. disjunctum** var. **variegatum** Rauh, Trop. Subtrop. Pflanzenwelt 58:55–60. 1985. Brazil:Minas Gerais. [Holo:HEID].
- 34-16e **O. disjunctum** var. **viridiflorum** Rauh, Trop. Subtrop. Pflanzenwelt 58:60–3. 1986. Brazil:Minas Gerais. [Holo:HEID].
- 34-16f **O. disjunctum** var. **striatum** Rauh, Trop. Subtrop. Pflanzenwelt 60:90–4. 1987. Brazil: Minas Gerais. [Holo:HEID].
- 34-16.1 **O. alvimii** Weber, Feddes Repert. 97:(3/4):126–8. 1986. Brazil:Bahia [Holo:HAL]. See also J. Bromeliad Soc. 35:63–4. 1985.
- 34-18 **O. gurkenii** Hutchison, Phytologia 52:373–5. 1983. Brazil:Minas Gerais [Holo:UC; Iso:US].

36 CANISTRUM E. Morren.

- 36-4.1 **C. seidelianum** Weber, Feddes Repert. 97:117–9. 1986. Brazil:Bahia. [Holo:HAL].
- 36-4.2 **C. camacaensis** Martinelli & Leme, Bradea 4:256-7,259. 1986. Brazil:Bahia. [Holo:RB; Iso:CEPEC].
- 36-6.1 **C. exiguum** Pereira & Leme, Bradea 4:165-6,168. 1985. Brazil:Sao Paulo. [Holo:SP].
- 36-7d **C. lindenii** var. **pehnkii** Reitz, Sellowia 36:63. 1984. Brazil:Santa Catarina. [Holo:HBR].

37 WITTROCKIA Lindeman.

- 37-1.1 **W. paradoxa** Leme, Bradea 5:170-1,181. 1989. Brazil:Bahia. [Holo:HB].
- 37-2.1 **W. spiralipetala** Leme, Bradea 5:171-2,182. 1989. Brazil: Rio de Janeiro. [Holo:HB].
- 37-2.2 **W. ibitipocensis** Leme, Bradea 5:393-4,396. 1991. Brazil:Minas Gerais. [Holo:HB].
- 37-2.3 **W. leucophoea** (Baker) Leme, J. Bromeliad Soc. 41:147–54. 1991.
—Basionym: *Karatas leucophoea* Baker, Handb. Bromel. 7. 1889.
—Syn.: *Neoregelia leucophoea* (Baker) L.B. Smith.
- 37-4 **W. amazonica** (Baker) L.B. Smith.
—Syn.: *W. smithii* Reitz.
- 37-6b **W. campos-portoi** var. **robusta** Pereira & Penna, Bol. Mus. Bot. Mun. Curitiba 62: 4. 1985. Brazil:Rio de Janeiro. [Holo:HB].
- 37-7.1 **W. corallina** Leme, J. Bromeliad Soc. 42:51–3. 1992. Brazil:Sao Paulo. [Holo:HB].

38 HOHENBERGIA Schultes.

- 38-2 **H. littoralis** L.B. Smith.
—Syn.: *Aechmea itapoana* W. Till & Morawetz.
—Syn.: *Chevaliera itapoana* (W. Till & Morawetz) Smith & Kress.
- 38-6.1 **H. leopoldo-horstii** E. Gross, Rauh & Leme, J. Bromeliad Soc. 41:66–8. 1991. Brazil: Bahia. [Holo:HEID]. See also Rauh, Trop. Subtrop. Pflanzenwelt 75:44–6. 1991.
- 38-17.1 **H. oxoniensis** Weber, Feddes Repert. 94:595–7. 1983. Brazil. [Holo:OXF]. See also J. Bromeliad Soc. 33:220–2. 1983.
- 38-18.1 **H. penna** Pereira, Bradea 3:383,386. 1983. Brazil:Bahia. [Holo:HB].
- 38-20.1 **H. estevesii** Pereira & Moutinho, Bradea 3:87-8,92,96. 1980. Brazil:Bahia. [Holo:HB].
- 38-20.2 **H. lanata** Pereira & Moutinho, Bradea 3:88,92,97. 1980. Brazil:Bahia. [Holo:HB].
- 38-21.1 **H. correia-araujo** Pereira & Moutinho, Bradea 3:88-9,93,98. 1980;. Brazil:Bahia. [Holo:HB]. See also Pereira, Moutinho & Bennet, J. Bromeliad Soc. 35:149–51. 1985.
- 38-41 **H. andina** Betancur, Caldasia 16:425–8. 1991. Colombia:Antioquia. [Holo:COL].

40 AECHMEA Ruiz & Pavon. See Smith & Kress (1989) & (1990); Smith & Spencer, Phytologia 72:96–8. 1992.

- 40-1 **A. macvaughii** L.B. Smith.
—Syn.: *Podaechmea macvaughii* (L.B. Smith) Smith & Kress.

- 40-1.1 *A. tuitensis* Magaña & Lott, *Phytologia* 59:221–3. 1986. Mexico:Jalisco. [Holo:MEXU; Iso:MO,US].
- 40-2 *A. galeottii* Baker.
–Syn.: *Podaechmea galeottii* (Baker) Smith & Kress.
- 40-3 *A. mexicana* Baker.
–Syn.: *Podaechmea mexicana* (Baker) Smith & Kress.
- 40-3.1 *A. haltonii* Luther, *Phytologia* 71:384–6. 1991. Panama:Coclé. [Holo:SEL].
- 40-4 *A. lueddemanniana* (K. Koch) Mez.
–Syn.: *Podaechmea lueddemanniana* (K. Koch) Smith & Kress.
- 40-5 *A. ferruginea* L.B. Smith.
–Syn.: *Podaechmea ferruginea* (L.B. Smith) Smith & Kress.
- 40-6 *A. campanulata* L.B. Smith.
–Syn.: *Lamprococcus campanulatus* (L.B. Smith) Smith & Kress.
- 40-7 *A. brevicollis* L.B. Smith.
–Syn.: *Lamprococcus brevicollis* (L.B. Smith) Smith & Kress.
- 40-8 *A. brachycaulis* E. Morren ex Baker.
= *Lymania corallina* (Brongniart ex Beer) R.W. Read, *J. Bromeliad Soc.* 34:213. 1984.
- 40-10 *A. weilbachii* Didrichsen.
–Syn.: *Lamprococcus weilbachii* (Didrichsen) E. Morren.
- 40-10ii *A. weilbachii* forma **pendula** Reitz, *Sellowia* 26:33. 1975. Brazil:Rio de Janeiro. [Holo:HBR].
Syn.: *A. weilbachii* var. *pendula* Pereira & Moutinho.
- 40-10iii *A. weilbachii* forma **leodiensis** (André) Pereira & Leme, *J. Bromeliad Soc.* 37:123–4. 1987.
–Syn.: *A. weilbachii* var. *leodiensis* André.
- 40-10iv *A. weilbachii* forma **viridisepala** Pereira & Leme, *J. Bromeliad Soc.* 37:124. 1987. Brazil:Rio de Janeiro. [Holo:HB; Iso:RB].
- 40-10b *A. weilbachii* var. **leodiensis** André.
= *A. weilbachii* forma *leodiensis* (André) Pereira & Leme, *J. Bromeliad Soc.* 37:124. 1987.
- 40-10c *A. weilbachii* var. **pendula** Pereira & Moutinho, *Bradea* 3:214,218. 1981. Brazil:Rio de Janeiro. [Holo:HB].
= *A. weilbachii* forma *pendula* Reitz. See Pereira & Leme, *J. Bromeliad Soc.* 37:123–4. 1987.
- 40-11 *A. podantha* L.B. Smith.
–Syn.: *Lamprococcus podanthus* (L.B. Smith) Smith & Kress.
- 40-11.1 *A. pedicellata* Leme & Luther, *J. Bromeliad Soc.* 38:150–2. 1988. Brazil:Espirito Santo. [Holo:HB; Iso:SEL].
–Syn.: *Lamprococcus pedicellatus* (Leme & Luther) Smith & Kress.
- 40-12 *A. racinae* L.B. Smith.
–Syn.: *Lamprococcus racinae* (L.B. Smith) Smith & Kress.
- 40-12b *A. racinae* var. **tubiformis** Pereira.
–Syn.: *Lamprococcus racinae* var. *tubiformis* (Pereira) Smith & Kress.
- 40-12c *A. racinae* var. **erecta** L.B. Smith.
–Syn.: *Lamprococcus racinae* var. *erectus* (L.B. Smith) Smith & Kress.
- 40-12d *A. racinae* var. **intermedia** Pereira, *Bradea* 3:47. 1980. Brazil:Espirito Santo. [Holo:HB].
= *A. warasii* var. *intermedia* (Pereira) Pereira & Leme, *J. Bromeliad Soc.* 35:66,69. 1985.
- 40-13 *A. corallina* (Beer) Brongniart ex Baker.
= *Lymania corallina* (Brongniart ex Beer) R.W. Read, *J. Bromeliad Soc.* 34:212. 1984.
- 40-14 *A. miniata* (Beer) Hortus ex Baker.
–Syn.: *Lamprococcus miniatus* Beer.
- 40-14b *A. miniata* var. **discolor** (Beer) Beer.
–Syn.: *Lamprococcus miniatus* var. *discolor* Beer.
- 40-15 *A. farinosa* (Regel) L.B. Smith.
–Syn.: *Lamprococcus farinosus* Regel.

- 40-15b **A. farinosa** var. **conglomerata** (Baker) L.B. Smith.
—Syn.: *Lamprococcus farinosus* var. *glomeratus* Beer.
- 40-15c **A. farinosa** var. **discolor** (Beer) L.B. Smith.
—Syn.: *Lamprococcus farinosus* var. *discolor* (Beer ex Baker) Smith & Kress.
- 40-16 **A. warasii** Pereira.
—Syn.: *Lamprococcus warasii* (Pereira) Smith & Kress.
- 40-16b **A. warasii** var. **discolor** Pereira, Bradea 2:308. 1979. Brazil:Espírito Santo. [Holo: HB].
- 40-16c **A. warasii** var. **intermedia** (Pereira) Pereira & Leme, J. Bromeliad Soc. 35:66,69,157. 1985.
—Basionym: *A. racinae* var. *intermedia* Pereira, Bradea 3:47. 1980.
- 40-17 **A. victoriana** L.B. Smith.
—Syn.: *Lamprococcus victorianus* (L.B. Smith) Smith & Kress.
- 40-17b **A. victoriana** var. **discolor** M.B. Foster.
—Syn.: *Lamprococcus victorianus* var. *discolor* (M.B. Foster) Smith & Kress.
- 40-18 **A. fulgens** Brongniart.
—Syn.: *Lamprococcus fulgens* (Brongniart) Beer.
- 40-18b **A. fulgens** var. **discolor** (C. Morren) Brongniart.
—Syn.: *Lamprococcus fulgens* var. *discolor* Brongniart ex Beer.
- 40-18.1 **A. carvalhoi** Pereira & Leme, Bradea 4:267-8,274. 1986. Brazil:Bahia. [Holo:HB].
—Syn.: *Lamprococcus carvalhoi* (Pereira & Leme) Smith & Kress.
- 40-19.1 **A. caesia** Baker.
Formerly 109 in Smith & Downs (1979).
—Syn.: *Platyaechmea caesia* (Baker) Smith & Kress.
- 40-19.2 **A. flavorosea** Pereira, Bradea 2:321-2. 1979. Brazil. [Holo:HB; Iso:US].
—Syn.: *Platyaechmea flavorosea* (Pereira) Smith & Kress.
- 40-19.3 **A. fasciata** (Lindley) Baker.
Formerly 110 in Smith & Downs (1979).
—Syn.: *Platyaechmea fasciata* (Lindley) Smith & Kress.
- 40-19.3b **A. fasciata** var. **purpurea** Guillon. Formerly 110b in Smith & Downs (1979).
—Syn.: *Platyaechmea fasciata* var. *purpurea* (Guillon) Smith & Kress.
- 40-19.3c **A. fasciata** var. **flavivittata** Reitz, Sellowia 33:55. 1981. Brazil:Rio de Janeiro. [Holo: HBR].
—Syn.: *Platyaechmea fasciata* var. *flavivittata* (Reitz) Smith & Kress.
- 40-19.3d **A. fasciata** var. **pruinosa** Reitz, Sellowia 33:55. 1981. Brazil:Rio de Janeiro. [Holo: HBR].
—Syn.: *Platyaechmea fasciata* var. *pruinosa* (Reitz) Smith & Kress.
- 40-19.4 **A. dealbata** Baker.
Formerly 111 in Smith & Downs (1979).
—Syn.: *Platyaechmea dealbata* (Baker) Smith & Kress.
- 40-20(2) **A. orlandiana** ssp. **belloi** Pereira & Leme, Bradea 4:266-7,274. 1986. Brazil:Espírito Santo. [Holo:HB; Iso:RB.]. See also J. Bromeliad Soc.39:66-7. 1989.
- 40-23 **A. hoppii** (Harms) L.B. Smith.
—Syn.: *A. colombiana* var. *laxa* (E. Gross) Smith & Spencer.
—Syn.: *Streptocalyx colombianus* var. *laxus* E. Gross.
- 40-23.1 **A. colombiana** (L.B. Smith) Smith & Spencer, Phytologia 72:96-8. 1992.
—Basionym: *Streptocalyx colombianus* L.B. Smith, Caldasia 5:9. 1942.
- 40-23.1b **A. colombiana** var. **laxa** (E. Gross) Smith & Spencer, Phytologia 72:96-8. 1992.
—Basionym: *Streptocalyx colombianus* var. *laxus* E. Gross, Trop. Subtrop. Pflanzenwelt 65:72-5. 1988.
= *Aechmea hoppii* (Harms) L. B. Smith.
- 40-23.2 **A. longifolia** (Rudge) Smith & Spencer, Phytologia 72:96-8. 1992.
—Basionym: *Bromelia longifolia* Rudge, Guyan. 1:31. 1805.
—Syn.: *Streptocalyx longifolius* (Rudge) Baker.
- 40-23.3 **A. arenaria** (Ule) Smith & Spencer, Phytologia 72:96-8. 1992.
—Basionym: *Streptocalyx arenarius* Ule, Verh. Bot. Brandenb. 48:134. 1907.
- 40-23.4 **A. beeriana** Smith & Spencer, Phytologia 72:96-8. 1992.
—Basionym: *Streptocalyx poeppigii* Beer, Bromel. 141. 1856.

- 40-23.5 **A. fuerstenbergii** E. Morren & Wittmack.
—Syn.: *Streptocalyx fuerstenbergii* (E. Morren & Wittmack) E. Morren.
- 40-23.6 **A. poitaei** (Baker) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx poitaei* Baker, *Handbk. Bromel.* 31. 1889.
- 40-23.7 **A. williamsii** (L.B. Smith) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx williamsii* L.B. Smith, *Contr. Gray Herb.* 98:14. 1932.
- 40-23.8 **A. murcae** (L.B. Smith) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx murcae* L.B. Smith, *Phytologia* 7:110. 1960.
- 40-24.1 **A. esseri** E. Gross & Rauh, *Trop. Subtrop. Pflanzenwelt* 58:53–5. 1986. Paraguay: Amambay. [Holo:HEID].
- 40-25.1 **A. entringeri** Leme, *Bradea* 4:310. 1987. Brazil:Espirito Santo. [Holo:HB].
- 40-25.2 **A. floribunda** Martius ex Schultes f.
—Syn.: *Streptocalyx floribundus* (Martius ex Schultes f.) Mez.
- 40-25.3 **A. curranii** (L.B. Smith) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx curranii* L.B. Smith, *Contr. Gray Herb.* 95:44. 1931.
- 40-25.4 **A. lanata** (L.B. Smith) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx lanatus* L.B. Smith, *Contr. Gray Herb.* 95:45. 1931.
- 40-27.1 **A. discordiae** Leme, *Bradea* 4:255-6,258. 1986. Brazil:Bahia. [Holo:HB; Iso:RB].
- 40-28.1 **A. grazielae** Martinelli & Leme, *Bradea* 4:345-6. 1987. Brazil:Rio de Janeiro. [Holo:RB].
- 40-31.1 **A. flemingii** Luther, *Phytologia* 71:382–4. 1991. Guadeloupe:Grande Terre. [Holo:SEL; Iso:US, K].
- 40-40.1 **A. sergipana** Pereira & Leme, *Bradea* 4:268,275. 1986. Brazil:Sergipe. [Holo:HB].
- 40-44.1 **A. streptocalycoides** Philcox, *Kew Mag.* 2(1):198–201. 1985. Ecuador:Napo. [Holo:K].
- 40-44.2 **A. biflora** (L.B. Smith) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx biflorus* L.B. Smith, *Phytologia* 24:448. 1972.
- 40-44.3 **A. lugoi** (Gilmartin & Luther) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx lugoi* Gilmartin & Luther, *J. Bromeliad Soc.* 40:208. 1990.
- 40-44.4 **A. geminiflora** (Harms) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx geminiflorus* Harms, *Notizbl. Bot. Gart. Berlin* 12:527. 1935 non *S. geminiflorus* Philcox, *Kew Bull.* 47:261–3. 1992.
- 40-44.5 **A. napoensis** Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx pallidus* Luther, *J. Bromeliad Soc.* 30:256–8. 1980.
—Syn.: *Streptocalyx geminiflorus* Philcox.
—Syn.: *Streptocalyx squamiferus* Philcox.
- 40-44.6 **A. kentii** (Luther) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx kentii* Luther, *Selbyana* 12:83, 86. 1992.
- 40-44.7 **A. brachystachya** (Harms) Smith & Spencer, *Phytologia* 72:96–8. 1992.
—Basionym: *Streptocalyx brachystachys* Harms, *Notizbl. Bot. Gart. Berlin* 9:1152. 1927.
- 40-45 **A. capitata** (Schultes f.) Baker.
= *A. aquilega* (Salisbury) Grisebach. See Read & Luther, *Selbyana* 12:55. 1991.
- 40-46.1 **A. emmerichiae** Leme, *Bradea* 4:309. 1987. Brazil:Bahia. [Holo:HB].
- 40-50.1 **A. callichroma** R.W. Read & Baensch, *Selbyana* 12:60–2. 1991. Ex Hort. [Holo:SEL; Iso:US, RB, HB].
- 40-51 **A. aquilega** (Salisbury) Grisebach.
—Syn.: *A. aquilega* var. *chrysocoma* (Baker) L.B. Smith.
—Syn.: *A. capitata* (Schultes) Baker.
—Syn.: *A. hellae* Weber.
- 40-51b **A. aquilega** var. **chrysocoma** (Baker) L.B. Smith.
= *A. aquilega* (Salisbury) Grisebach. See Read & Luther, *Selbyana* 12:55. 1991.
- 40-51.1 **A. hellae** Weber, *Feddes Repert.* 97:111–3. 1986. Brazil:Bahia. [Holo:HAL]. See also *J. Bromeliad Soc.* 35:265–6. 1985.
= *A. aquilega* (Salisbury) Grisebach. See Read & Luther, *Selbyana* 12:55. 1991.
- 40-51.2 **A. marauensis** Leme, *J. Bromeliad Soc.* 36:266–8. 1986. Brazil:Bahia. [Holo:HB; Iso:RB].
—Syn.: *A. grandibracteata* Philcox.

- 40-51.3 **A. grandibracteata** Philcox, Kew Bull. 47:268,271. 1992. Brazil:Bahia. [Holo:CEPEC; Iso:K].
= *A. marauensis* Leme.
- 40-52b **A. fosteriana** ssp. **rupicola** Leme, Bradea 4:392-3,400. 1987. Brazil:Espirito Santo. [Holo:HB; Iso:RB].
- 40-52.1 **A. milsteiniana** L.B. Smith & R.W. Read, J. Bromeliad Soc. 29:21-3. 1979. Brazil. [Holo:US].
- 40-52.2 **A. gurkeniana** Pereira & Moutinho, Bradea 3:209-11,213. 1981. Brazil:Bahia. [Holo:HB].
- 40-52.3 **A. seidelii** (Leme) Smith & Spencer, Phytologia 72:96-8. 1992.
—Basionym: *Streptocalyx seidelii* Leme, Bradea 4:313.1987.
- 40-53.1 **A. correia-araujo** Pereira & Moutinho, Bradea 3:85-6,91. 1980. Brazil:Bahia. [Holo:HB].
- 40-61 **A. angustifolia** Poeppig & Endlicher.
—Syn.: *A. eggersii* Mez.
—Syn.: *A. leucocarpa* André.
- 40-62 **A. leucocarpa** André.
= *A. angustifolia* Poeppig & Endlicher.
- 40-65 **A. eggersii** Mez.
= *A. angustifolia* Poeppig & Endlicher.
- 40-80.1 **A. decurva** Proctor, J. Arnold Arbor. 63:203. 1982. Jamaica:Portland. [Holo:A].
- 40-85.1 **A. standleyi** Cufodontis, Arch. Bot. Biogeogr. Ital. 9:182-4. 1933. Costa Rica. [Holo: ?].
- 40-92 **A. guaratubensis** Pereira.
—Syn.: *Ortgiesia guaratubensis* (Pereira) Smith & Kress.
- 40-93 **A. recurvata** (Klotzsch) L.B. Smith.
—Syn.: *Ortgiesia recurvata* (Klotzsch) Smith & Kress.
- 40-93b **A. recurvata** var. **ortgiesii** (Baker) Reitz.
—Syn.: *Ortgiesia recurvata* var. *ortgiesii* Baker) Smith & Kress.
- 40-93c **A. recurvata** var. **benrathii** (Mez) Reitz.
—Syn.: *Ortgiesia recurvata* var. *benrathii* (Mez) Smith & Kress.
- 40-94 **A. pimenti-velosoi** Reitz.
—Syn.: *Ortgiesia pimenti-velosoi* (Reitz) Smith & Kress.
- 40-94b **A. pimenti-velosoi** var. **glabra** Reitz.
—Syn.: *Ortgiesia pimenti-velosoi* var. *glabra* (Reitz) Smith & Kress.
- 40-94.1 **A. seideliana** Weber, Feddes Repert. 97:113-5. 1986. Brazil:Espirito Santo. [Holo: HAL].
—Syn.: *Ortgiesia seideliana* (Weber) Smith & Kress.
- 40-95 **A. candida** E. Morren ex Baker.
—Syn.: *Ortgiesia candida* (E. Morren ex Baker) Smith & Kress.
- 40-95.1 **A. burle-marxii** Pereira, Bradea 2:307-8. 1979. Brazil:Minas Gerais. [Holo:HB].
—Syn.: *Ortgiesia burle-marxii* (Pereira) Smith & Kress.
- 40-95.2 **A. alegrensis** Weber, Feddes Repert. 97:110-1. 1986. Brazil:Espirito Santo. [Holo: HAL].
—Syn.: *Ortgiesia alegrensis* (Weber) Smith & Kress.
- 40-96 **A. caudata** Lindman.
—Syn.: *Ortgiesia caudata* (Lindman) Smith & Kress.
- 40-96ii **A. caudata** forma **albiflora** Weber & Röth, Feddes Repert. 93:337. 1982. Brazil. [Holo:HAL].
—Syn.: *Ortgiesia caudata* forma *albiflora* (Lindman) Smith & Kress.
- 40-96c **A. caudata** var. **eipperii** Reitz, Sellowia 17:41. 1965.
Treated as a synonym of *A. organensis* Wawra in Smith & Downs (1979).
- 40-96.1 **A. leppardii** Philcox, Kew Bull. 47:268. 1992. Brazil:Santa Catarina. [Holo:K].
- 40-97 **A. winkleri** Reitz.
—Syn.: *Ortgiesia winkleri* (Reitz) Smith & Kress.
- 40-98 **A. coelestis** (K. Koch) E. Morren.
—Syn.: *Ortgiesia coelestis* (K. Koch) Smith & Kress.
- 40-98b **A. coelestis** var. **albomarginata** M.B. Foster.
—Syn.: *Ortgiesia coelestis* var. *albomarginata* (M.B. Foster) Smith & Kress.

- 40-98c **A. coelestis** var. **acutifolia** Pereira, Bradea 2:322. 1979. Brazil:Rio de Janeiro. [Holo: HB].
—Syn.: *Orgiesia coelestis* var. *acutifolia* (Pereira) Smith & Kress.
- 40-98.1 **A. lymanii** Weber, J. Bromeliad Soc. 34:202–4. 1984. Brazil:Bahia. [Holo:HAL].
—Syn.: *Orgiesia lymanii* (Weber) Smith & Kress.
- 40-99 **A. organensis** Wawra.
—Syn.: *Orgiesia organensis* (Wawra) Smith & Kress.
- 40-100 **A. gracilis** Lindman.
—Syn.: *Orgiesia gracilis* (Lindman) Smith & Kress.
- 40-101 **A. bicolor** L.B. Smith.
—Syn.: *Orgiesia bicolor* (L.B. Smith) Smith & Kress.
- 40-102 **A. blumenavii** Reitz.
—Syn.: *Orgiesia blumenavii* (Reitz) Smith & Kress.
- 40-102b **A. blumenavii** var. **alba** Reitz, Bromeliaceas e a malaria-bromelia endemica 412-3. 1983. Brazil:Santa Catarina. [Holo:HBR].
—Syn.: *Orgiesia blumenavii* var. *alba* (Reitz) Smith & Kress.
- 40-103 **A. kertesziae** Reitz.
—Syn.: *Orgiesia kertesziae* (Reitz) Smith & Kress.
- 40-103b **A. kertesziae** var. **viridiaurata** Reitz, Sellowia 33:55–6. 1981. Brazil:Santa Catarina. [Holo:HBR].
—Syn.: *Orgiesia kertesziae* var. *viridiaurata* (Reitz) Smith & Kress.
- 40-104 **A. lindenii** (E. Morren) Baker.
= *A. comata* (Gaudichaud) Baker.
- 40-104b **A. lindenii** var. **makoyana** (Mez) L.B. Smith.
= *A. comata* var. *makoyana* (Mez) L.B. Smith.
- 40-104.1 **A. comata** (Gaudichaud) Baker.
—Syn.: *A. lindenii* (E. Morren) Baker.
- 40-104.1b **A. comata** var. **makoyana** Baker
—Syn.: *A. lindenii* var. *makoyana* (Mez) L. B. Smith.
- 40-105 **A. calyculata** (E. Morren) Baker.
—Syn.: *Orgiesia calyculata* (E. Morren) Smith & Kress.
- 40-106 **A. apocalypticica** Reitz.
—Syn.: *Orgiesia apocalypticica* (Reitz) Smith & Kress.
- 40-107 **A. cylindrata** Lindman.
—Syn.: *Orgiesia cylindrata* (Lindman) Smith & Kress.
- 40-108 **A. gamosepala** Wittmack.
—Syn.: *Orgiesia gamosepala* (Wittmack) Smith & Kress.
- 40-108b **A. gamosepala** var. **nivea** Reitz.
—Syn.: *Orgiesia gamosepala* var. *nivea* (Reitz) Smith & Kress.
- 40-112 **A. distichantha** Lemaire.
—Syn.: *Platyaechmea distichantha* (Lemaire) Smith & Kress.
- 40-112aii **A. distichantha** var. **distichantha** forma **albiflora** L. B. Smith.
—Syn.: *Platyaechmea distichantha* var. *distichantha* forma *albiflora* (L. B. Smith) Smith & Kress.
- 40-112b **A. distichantha** var. **schlumbergeri** E. Morren.
—Syn.: *Platyaechmea distichantha* var. *schlumbergeri* (E. Morren) Smith & Kress.
- 40-112c **A. distichantha** var. **glaziovii** (Baker) L.B. Smith.
—Syn.: *Platyaechmea distichantha* var. *glaziovii* (Baker) Smith & Kress.
- 40-112d **A. distichantha** var. **vernica** Pereira, Bradea 2:308. 1979. Brazil:Rio de Janeiro. [Holo:HB].
—Syn.: *Platyaechmea distichantha* var. *vernica* (Pereira) Smith & Kress.
- 40-113 **A. wittmackiana** (Regel) Mez.
—Syn.: *Platyaechmea wittmackiana* (Regel) Smith & Kress.
- 40-114 **A. contracta** (Martius ex Schultes f.) Baker.
—Syn.: *Platyaechmea contracta* (Martius) Smith & Kress.
- 40-115 **A. anomala** L.B. Smith.
—Syn.: *Platyaechmea anomala* (L.B. Smith) Smith & Kress.
- 40-116 **A. retusa** L.B. Smith.
See Luther, J. Bromeliad Soc. 30:197–9. 1980.
—Syn.: *Platyaechmea retusa* (L.B. Smith) Smith & Kress.

- 40-117 **A. chantinii** (Carrière) Baker.
—Syn.: *Platyaechmea chantinii* (Carrière) Smith & Kress.
- 40-117a **A. chantinii** var. **chantinii** forma **amazonica** (Ule) Luther, Selbyana 10:56. 1987.
- 40-117b **A. chantinii** var. **fuchsii** Luther, Selbyana 10:56. 1987. Ecuador:Napo. [Holo:SEL; ISO:US].
- 40-117.1 **A. moorei** Luther, J. Bromeliad Soc. 30:176–8. 1980. Peru:Loreto. [Holo:SEL; Iso:US].
—Syn.: *Platyaechmea moorei* (Luther) Smith & Kress.
- 40-118 **A. dichlamydea** Baker.
—Syn.: *Platyaechmea dichlamydea* (Baker) Smith & Kress.
- 40-118b **A. dichlamydea** var. **pariaensis** Pittendrigh.
—Syn.: *Platyaechmea dichlamydea* var. *pariaensis* (Pittendrigh) Smith & Kress.
- 40-118c **A. dichlamydea** var. **trinitensis** L.B. Smith.
—Syn.: *Platyaechmea dichlamydea* var. *trinitensis* (L.B. Smith) Smith & Kress.
- 40-119 **A. smithiorum** Mez.
—Syn.: *Platyaechmea smithiorum* (Mez) Smith & Kress.
- 40-119b **A. smithiorum** var. **longistipitata** E. Gross, J. Bromeliad Soc. 35:262–4. 1985. St. Vincent. [Holo:HEID].
- 40-120 **A. zebrina** L.B. Smith.
—Syn.: *Platyaechmea zebrina* (L.B. Smith) Smith & Kress.
- 40-121 **A. serrata** (Linnaeus) Mez.
—Syn.: *Platyaechmea serrata* (Linnaeus) Smith & Kress.
—Syn.: *Tillandsia maxima* Strangeways non *T. maxima* Lillo & Hauman.
- 40-122 **A. tillandsioides** (Martius ex Schultes f.) Baker.
—Syn.: *Aechmea tillandsioides* var. *kienastii* (E. Morren ex Mez) L.B. Smith.
—Syn.: *Platyaechmea tillandsioides* (Martius ex Schultes f.) Smith & Kress.
—Syn.: *Platyaechmea tillandsioides* var. *kienestii* (Martius ex Schultes f.) Smith & Kress.
- 40-122b **A. tillandsioides** var. **kienastii** (E. Morren ex Mez) L.B. Smith
= *A. tillandsioides* (Martius ex Schultes f.) Baker.
- 40-123 **A. tessmannii** Harms.
—Syn.: *Platyaechmea tessmannii* (Harms) Smith & Kress.
- 40-123.1 **A. cucullata** Luther, Selbyana 10:56. 1987. Ecuador:Napo. [Holo:SEL].
- 40-124 **A. romeroi** L.B. Smith.
—Syn.: *Platyaechmea romeroi* (L.B. Smith) Smith & Kress.
- 40-125 **A. pectinata** Baker.
—Syn.: *Pothuava pectinata* (Baker) Smith & Kress.
- 40-126 **A. pitcairnioides** Mez.
= *Acanthostachys pitcairnioides* (Mez) Rauh & Barthlott, Trop. Subtrop. Pflanzenwelt 39:5–35. 1982; 42:34. 1983.
- 40-127 **A. aciculosa** Mez & Sodiro
—Syn.: *Nidularium deleonii* L.B. Smith.
—Syn.: *Pothuava aciculosa* (Mez & Sodiro) Smith & Kress.
—Syn.: *Ronnbergia deleonii* L.B. Smith pro parte.
—Syn.: *Ronnbergia nidularioides* Luther.
- 40-128 **A. weberbaueri** Harms.
—Syn.: *Pothuava weberbaueri* (Harms) Smith & Kress.
- 40-129 **A. involucrata** André.
—Syn.: *Pothuava involucrata* (André) Smith & Kress.
- 40-130 **A. fraseri** Baker.
—Syn.: *Pothuava fraseri* (Baker) Smith & Kress.
- 40-131 **A. allenii** L.B. Smith.
—Syn.: *Pothuava allenii* (L.B. Smith) Smith & Kress.
- 40-131.3 **A. subpetiolata** L.B. Smith.
—Syn.: *Pothuava subpetiolata* (L.B. Smith) Smith & Kress.
- 40-132 **A. tonduzii** Mez & Pittier ex Mez.
—Syn.: *Pothuava tonduzii* (Mez & Pittier) Smith & Kress.
- 40-133 **A. mariae-reginae** H. Wendland.
—Syn.: *Pothuava mariae-reginae* (H. Wendland) Smith & Kress.

- 40-134 **A. drakeana** André.
—Syn.: *Pothuava drakeana* (André) Smith & Kress.
- 40-134.4 **A. cathcartii** C. F. Reed & R.W. Read, J. Bromeliad Soc. 31:60–1. 1981. Venezuela: Miranda. [Holo:REED].
—Syn.: *Lamprococcus cathcartii* (C. F. Reed & R.W. Read) Smith & Kress.
- 40-135 **A. squarrosa** Baker.
—Syn.: *Pothuava squarrosa* (Baker) Smith & Kress.
- 40-136 **A. alopecurus** Mez.
See Pereira & Leme, J. Bromeliad Soc. 35:215–6. 1985; W. Till, J. Bromeliad Soc. 36:14–5. 1986.
—Syn.: *Pothuava alopecurus* (Mez) Smith & Kress.
- 40-138 **A. vanhoutteana** (Van Houtte) Mez.
—Syn.: *A. nervata* L.B. Smith.
—Syn.: *Machrochordion nervata* (L.B. Smith) Smith & Kress.
—Syn.: *Pothuava vanhoutteana* (Van Houtte) Smith & Kress.
- 40-138.1 **A. bocainensis** Pereira & Leme, Rev. Brasil. Biol. 45:634–5. 1985. Brazil: Bahia. [Holo:HB].
—Syn.: *Pothuava bocainensis* (Pereira & Leme) Smith & Kress.
- 40-139 **A. kleinii** Reitz.
—Syn.: *Pothuava kleinii* (Reitz) Smith & Kress.
- 40-140 **A. ornata** Baker.
—Syn.: *Pothuava ornata* (Baker) Smith & Kress.
- 40-140b **A. ornata** var. **hoehneana** L.B. Smith.
—Syn.: *Pothuava ornata* var. *hoehneana* (L.B. Smith) Smith & Kress.
- 40-140c **A. ornata** var. **nationalis** Reitz.
—Syn.: *Pothuava ornata* var. *nationalis* (Reitz) Smith & Kress.
- 40-140.1 **A. roberto-anselmoi** Pereira & Leme, J. Bromeliad Soc. 35:171–3. 1985. Brazil: Rio de Janeiro. [Holo:HB; Iso:US].
—Syn.: *Pothuava roberto-anselmoi* (Pereira & Leme) Smith & Kress.
- 40-141 **A. pineliana** (Brongniart ex Planchon) Baker.
—Syn.: *Pothuava pineliana* (Brongniart) Smith & Kress.
- 40-141b **A. pineliana** var. **minuta** M.B. Foster.
—Syn.: *Pothuava pineliana* var. *minuta* (M.B. Foster) Smith & Kress.
- 40-141.1 **A. guarapariensis** Pereira & Leme, Brasil Florest. 59:40–1. 1984. Brazil: Espírito Santo. [Holo:HB; Iso:US].
—Syn.: *Pothuava guarapariensis* (Pereira & Leme) Smith & Kress.
- 40-142 **A. triticina** Mez.
—Syn.: *Pothuava triticina* (Mez) Smith & Kress.
- 40-142b **A. triticina** var. **capensis** L.B. Smith.
—Syn.: *Pothuava triticina* var. *capensis* (L.B. Smith) Smith & Kress.
- 40-143 **A. nudicaulis** (Linnaeus) Grisebach.
—Syn.: *Pothuava nudicaulis* (Linnaeus) Smith & Kress.
- 40-143b **A. nudicaulis** var. **cuspidata** Baker.
—Syn.: *Pothuava nudicaulis* var. *cuspidata* (Baker) Smith & Kress.
- 40-143bii **A. nudicaulis** var. **cuspidata** forma **tabuleirensis** (Reitz) Reitz, Bromeliaceas e a malaria-bromelia endemica 446-7. 1983.
—Syn.: *A. nudicaulis* var. *tabuleirensis* Reitz.
—Syn.: *Pothuava nudicaulis* var. *tabuleirensis* (Reitz) Smith & Kress.
- 40-143c **A. nudicaulis** var. **aureorosea** (Antoine) L.B. Smith.
—Syn.: *Pothuava nudicaulis* var. *aureorosea* (Antoine) Smith & Kress.
- 40-143d **A. nudicaulis** var. **aequalis** L.B. Smith & Reitz.
—Syn.: *Pothuava nudicaulis* var. *aequalis* (L.B. Smith & Reitz) Smith & Kress.
- 40-143e **A. nudicaulis** var. **flavomarginata** Pereira, Bradea 2:31. 1975. Brazil: Santa Catarina. [Holo:HB].
—Syn.: *Pothuava nudicaulis* var. *flavomarginata* (Pereira) Smith & Kress.
- 40-143f **A. nudicaulis** var. **simulans** Pereira, Bradea 2:174. 1977. Brazil: Espírito Santo. [Holo:HB].
—Syn.: *Pothuava nudicaulis* var. *simulans* (Pereira) Smith & Kress.

- 40-143g **A. nudicaulis** var. **tabuleirensis** Reitz, Sellowia 33:55. 1981. Brazil:Santa Catarina. [Holo:HBR].
= *A. nudicaulis* var. *cuspidata* forma *tabuleirensis* (Reitz) Reitz, Bromeliaceas e a malaria-bromelia 446-7. 1983.
- 40-143.1 **A. pseudonudicaulis** Leme, Bradea 4:394,401. 1987. Brazil:Espirito Santo. [Holo:HB].
- 40-144 **A. nervata** L.B. Smith.
= *A. vanhoutteana* (Van Houtte) Mez. See Leme, J. Bromeliad Soc. 42:103-8. 1992.
- 40-145 **A. turbinocalyx** Mez.
-Syn.: *Macrochordion turbinocalyx* (Mez) Smith & Kress.
- 40-146 **A. alba** Mez.
-Syn.: *Macrochordion alba* (Mez) Smith & Kress.
- 40-147 **A. lamarchei** Mez.
-Syn.: *Macrochordion lamarchei* (Mez) Smith & Kress.
- 40-147.1 **A. pabstii** Pereira & Moutinho, Bradea 3:86-7,91,95. 1980. Brazil:Bahia. [Holo:HB].
-Syn.: *Macrochordion pabstii* (Pereira & Moutinho) Smith & Kress.
- 40-148 **A. triangularis** L.B. Smith.
-Syn.: *Macrochordion triangularis* (L.B. Smith) Smith & Kress.
- 40-149 **A. bromeliifolia** (Rudge) Baker.
-Syn.: *Macrochordion bromeliifolia* (Rudge) Smith & Kress.
- 40-149b **A. bromeliifolia** var. **albobracteata** Philcox, Ashingtonia. Sept. 1974. Brazil: Mato Grosso. [Holo:K].
- 40-149c **A. bromeliifolia** var. **angustispica** Philcox, Kew Bull. 47:268,270. 1992. Brazil:Bahia. [Holo:CEPEC; Iso:K].
- 40-150 **A. maculata** L.B. Smith.
-Syn.: *Macrochordion maculata* (L.B. Smith) Smith & Kress.
- 40-150.1 **A. kautskyana** Pereira & L.B. Smith, Bradea 3:46-7,49. 1980. Brazil:Espirito Santo. [Holo:HB; Iso:US].
-Syn.: *Macrochordion kautskyana* (Pereira & Smith) Smith & Kress.
- 40-151 **A. chlorophylla** L.B. Smith.
-Syn.: *Macrochordion chlorophylla* (L.B. Smith) Smith & Kress.
- 40-152 **A. germinyana** (Carrière) Baker.
-Syn.: *Chevaliera germinyana* (Carrière) Smith & Kress.
- 40-153 **A. veitchii** Baker.
-Syn.: *Chevaliera veitchii* (Baker) Smith & Kress.
- 40-154 **A. lateralis** L.B. Smith.
-Syn.: *Chevaliera lateralis* (L.B. Smith) Smith & Kress.
- 40-155 **A. magdalenae** (André) André ex Baker.
-Syn.: *Chevaliera magdalenae* (André) Smith & Kress.
- 40-155b **A. magdalenae** var. **quadricolor** M.B. Foster.
-Syn.: *Chevaliera magdalenae* var. *quadricolor* (M.B. Foster) Smith & Kress.
- 40-156 **A. fernandae** (E. Morren) Baker.
-Syn.: *Chevaliera fernandae* (E. Morren) Smith & Kress.
- 40-157 **A. rubiginosa** Mez.
-Syn.: *Chevaliera rubiginosa* (Mez) Smith & Kress.
- 40-157.1 **A. tayoensis** Gilmartin, Selbyana 5:308-9. 1981. Ecuador:Morona-Santiago. [Holo:E].
-Syn.: *Chevaliera tayoensis* (Gilmartin) Smith & Kress.
- 40-158 **A. strobilacea** L.B. Smith.
-Syn.: *Chevaliera strobilacea* (L.B. Smith) Smith & Kress.
- 40-159 **A. multiflora** L.B. Smith.
-Syn.: *Chevaliera multiflora* (L.B. Smith) Smith & Kress.
- 40-160 **A. depressa** L.B. Smith.
-Syn.: *Chevaliera depressa* (L.B. Smith) Smith & Kress.
- 40-161 **A. saxicola** L.B. Smith.
-Syn.: *Chevaliera saxicola* (L.B. Smith) Smith & Kress.
- 40-162 **A. hostilis** Pereira.
-Syn.: *Chevaliera hostilis* (Pereira) Smith & Kress.

- 40-163 **A. conifera** L.B. Smith.
—Syn.: *Chevaliera conifera* (L.B. Smith) Smith & Kress.
- 40-164 **A. rodriguesiana** (L.B. Smith) L.B. Smith.
—Syn.: *Chevaliera rodriguesiana* (L.B. Smith) Smith & Kress.
- 40-164.1 **A. itapoana** W. Till & Morawetz, Pl. Syst. Evol. 138:147–51. 1981. Brazil: Bahia.
[Holo:WU; Iso:K,RB].
= *Hohenbergia littoralis* L.B. Smith. See R.W. Read & L.B. Smith, Supplement to Fl. Neotrop. Monogr. 1986. (unpubl.)
- 40-165 **A. digitata** L.B. Smith & R.W. Read.
—Syn.: *Chevaliera digitata* (Smith & Read) Smith & Kress.
- 40-166 **A. perforata** L.B. Smith.
—Syn.: *Chevaliera perforata* (L.B. Smith) Smith & Kress.
- 40-167 **A. sphaerocephala** Baker.
—Syn.: *Chevaliera sphaerocephala* (Baker) Smith & Kress.
- 40-167.1 **A. microcephala** Pereira & Leme, Bradea 4:149-51. 1985. Brazil: Espirito Santo.
[Holo:HB].
—Syn.: *Chevaliera microcephala* (Pereira & Leme) Smith & Kress.
- 40-168 **A. leucolepis** L.B. Smith.
—Syn.: *Chevaliera leucolepis* (L.B. Smith) Smith & Kress.
- 40-169 **A. pallida** L.B. Smith.
—Syn.: *Chevaliera pallida* (L.B. Smith) Smith & Kress.
- 40-170 **A. muricata** (Arruda da Camara) L.B. Smith.
—Syn.: *Chevaliera muricata* (Arruda da Cammara) Smith & Kress.
- 40-171 **A. cariocae** L.B. Smith.
—Syn.: *Chevaliera cariocae* (L.B. Smith) Smith & Kress.
- 40-172 **A. castanea** L.B. Smith.
—Syn.: *Chevaliera castanea* (L.B. Smith) Smith & Kress.

40.1 PODAECHEMEA Mez. See Smith & Kress (1990).

- 40.1-1 **P. macvaughii** (L.B. Smith) Smith & Kress, Phytologia 69:271. 1990.
—Basionym: *Aechmea macvaughii* L.B. Smith, Phytologia 10:481. 1964.
= *Aechmea macvaughii* L.B. Smith.
- 40.1-2 **P. galeottii** (Baker) Smith & Kress, Phytologia 69:271. 1990.
—Basionym: *Aechmea galeottii* Baker, Handb. Bromel. 51. 1889.
= *Aechmea galeottii* Baker.
- 40.1-3 **P. mexicana** (Baker) Smith & Kress, Phytologia 69:271. 1990.
—Basionym: *Aechmea mexicana* Baker, J. Bot. 17:165. 1879.
= *Aechmea mexicana* Baker.
- 40.1-4 **P. lueddemanniana** (K. Koch) Smith & Kress, Phytologia 69:271. 1990.
—Basionym: *Pironneava lueddemanniana* K. Koch, Wochenschr. Gärtnerei Pflanzenk. 9:182. 1866.
= *Aechmea lueddemanniana* (K. Koch) Mez.
- 40.1-5 **P. ferruginea** (L.B. Smith) Smith & Kress, Phytologia 69:271. 1990.
—Basionym: *Aechmea ferruginea* L.B. Smith, Contr. Gray Herb. 98:5. 1932.
= *Aechmea ferruginea* L.B. Smith.

40.2 LAMPROCOCCUS Beer. See Smith & Kress (1989).

- 40.2-0 **L. corallinus** Brongniart ex Beer.
= *Lymania corallina* (Brongniart ex Beer) R.W. Read.
- 40.2-6 **L. campanulatus** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea campanulata* L.B. Smith, Mem. N.Y. Bot. Gard. 9:316. 1957.
= *Aechmea campanulata* L.B. Smith.
- 40.2-7 **L. brevicollis** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea brevicollis* L.B. Smith, Contr. Gray Herb. 154:32. 1945.
= *Aechmea brevicollis* L.B. Smith.
- 40.2-10 **L. weilbachii** (Didrichsen) E. Morren, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea weilbachii* Didrichsen, Ann. Sci. Nat. Bot. IV. 2:375. 1854.
= *Aechmea weilbachii* Didrichsen.

- 40.2-11 **L. podanthus** (L.B. Smith) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea podantha* L.B. Smith, *Smithsonian Misc. Collect.* 126:18,203. 1955
 = *Aechmea podantha* L.B. Smith.
- 40.2-11.1 **L. pedicellatus** (Leme & Luther) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea pedicellata* Leme & Luther, *J. Bromeliad Soc.* 38:150. 1988.
 = *Aechmea pedicellata* Leme & Luther.
- 40.2-12 **L. racinae** (L.B. Smith) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea racinae* L.B. Smith, *Arq. Bot. Estado Sao Paulo* 1:56. 1941.
 = *Aechmea racinae* L.B. Smith.
- 40.2-12b **L. racinae** var. **tubiformis** (Pereira) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea racinae* var. *tubiformis* Pereira, *Bradea* 1:161. 1972.
 = *Aechmea racinae* var. *tubiformis* Pereira.
- 40.2-12c **L. racinae** var. **erectus** (L.B. Smith) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea racinae* var. *erecta* L.B. Smith, *Arch. Jard. Bot. Rio de Janeiro* 10:142. 1950.
 = *Aechmea racinae* var. *erecta* L.B. Smith.
- 40.2-14 **L. miniatus** Beer, *Phytologia* 66:70-9. 1989.
 = *Aechmea miniata* (Beer) Hort. ex Baker.
- 40.2-14b **L. miniatus** var. **discolor** Beer
 = *Aechmea miniata* var. *discolor* (Beer) Beer ex Baker.
- 40.2-15 **L. farinosus** Regel, *Ind. Sem. Hort. Petrop.* for 1868:79. 1869.
 = *Aechmea farinosa* (Regel) L.B. Smith.
- 40.2-15b **L. farinosus** var. **glomeratus** (Beer) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *L. glomeratus* Beer, *Bromel.* 105. 1856.
 = *Aechmea farinosa* var. *conglomerata* (Baker) L.B. Smith.
- 40.2-15c **L. farinosus** var. **discolor** (Beer ex Baker) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea conglomerata* var. *discolor* Beer ex Baker *Handb. Bromel.* 53. 1889.
 = *Aechmea farinosa* var. *discolor* Beer ex Baker.
- 40.2-16 **L. warasii** (Pereira) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea warasii* Pereira, *Bradea* 1:160. 1972.
 = *Aechmea warasii* Pereira.
- 40.2-17 **L. victorianus** (L.B. Smith) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea victoriana* L.B. Smith *Arq. Bot. Estado Sao Paulo* 1:57. 1941.
 = *Aechmea victoriana* L.B. Smith.
- 40.2-17b **L. victorianus** var. **discolor** (M. B. Foster) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea victoriana* var. *discolor* M.B. Foster, *Bromeliad Soc. Bull.* 5:29. 1955.
 = *Aechmea victoriana* var. *discolor* M. B. Foster.
- 40.2-17.1 **L. cathcartii** (C. F. Reed & R.W. Read) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea cathcartii* C.F. Reed & R.W. Read, *J. Bromeliad Soc.* 31:59. 1981.
 = *Aechmea cathcartii* C.F. Reed & R.W. Read.
- 40.2-18 **L. fulgens** (Brongniart) Beer, *Bromel.* 103. 1856.
 -Basionym: *Aechmea fulgens* Brongniart, *Ann. Sci. Nat. Bot. II.* 15:571. 1841.
 = *Aechmea fulgens* Brongniart.
- 40.2-18b **L. fulgens** var. **discolor** Brongniart ex Beer, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea discolor* C. Morren, *Ann. Soc. Gard.* 2:175. 1846.
 = *Aechmea fulgens* var. *discolor* (C. Morren) Brongniart ex Baker.
- 40.2-18.2 **L. carvalhoi** (Pereira & Leme) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea carvalhoi* Pereira & Leme in Pereira et al. *Bradea* 4:267. 1985.
 = *Aechmea carvalhoi* Pereira & Leme.

40.3 ORTGIESIA Regel. See Smith & Kress (1989).

- 40.3-92 **O. guaratubensis** (Pereira) Smith & Kress, *Phytologia* 66:70-9. 1989.
 -Basionym: *Aechmea guaratubensis* Pereira, *Bradea* 1:278. 1972.
 = *Aechmea guaratubensis* Pereira.

- 40.3-93 **O. recurvata** (Klotzsch) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Macrochordium recurvata* Klotzsch, *Allg. Gartenzeitung* 24:393. 1856.
 = *Aechmea recurvata* (Klotzsch) L.B. Smith.
- 40.3-93b **O. recurvata** var. **ortgiesii** (Baker) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea ortgiesii* Baker, *J. Bot.* 17:236. 1879.
 = *Aechmea recurvata* var. *ortgiesii* (Baker) Reitz.
- 40.3-93c **O. recurvata** var. **benrathii** (Mez) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea benrathii* Mez, *Feddes Repert.* 16:6. 1919.
 = *Aechmea recurvata* var. *benrathii* (Mez) Reitz.
- 40.3-94 **O. pimenti-velosoi** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea pimenti-velosoi* Reitz, *Anais Bot. Herb. “Barbosa Rodrigues”* 4:26. 1952.
 = *Aechmea pimenti-velosoi* Reitz.
- 40.3-94b **O. pimenti-velosoi** var. **glabra** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea pimenti-velosoi* var. *glabra* Reitz, *Anais Bot. Herb. “Barbosa Rodrigues”* 5:256. 1953.
 = *Aechmea pimenti-velosoi* var. *glabra* Reitz.
- 40.3-94.1 **O. seideliana** (Weber) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea seideliana* Weber, *Feddes Repert.* 97:110. 1986.
 = *Aechmea seideliana* Weber.
- 40.3-95 **O. candida** (E. Morren ex Baker) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea candida* E. Morren ex Baker, *Handb. Bromel.* 41. 1889
 = *Aechmea candida* E. Morren ex Baker.
- 40.3-95.1 **O. burle-marxii** (Pereira) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea burle-marxii* Pereira, *Bradea* 2:307. 1979.
 = *Aechmea burle-marxii* Pereira.
- 40.3-95.2 **O. alegrensis** (Weber) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea alegrensis* Weber, *Feddes Repert.* 97:110. 1986.
 = *Aechmea alegrensis* Weber.
- 40.3-96 **O. caudata** (Lindman) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea caudata* Lindman, *Kongl. Svenska Vetenskapskad. Handl.* 24(8):29. 1891.
 = *Aechmea caudata* Lindman.
- 40.3-96ii **O. caudata** forma **albiflora** (Weber & Röth) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea caudata* forma *albiflora* Weber & Röth in Weber, *Feddes Repert.* 93:337. 1982.
 = *Aechmea caudata* forma *albiflora* Weber & Röth.
- 40.3-97 **O. winkleri** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea winkleri* Reitz, *Sellowia* 1:63. 1975.
 = *Aechmea winkleri* Reitz.
- 40.3-98 **O. coelestis** (K. Koch) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Hoplophytum coeleste* K. Koch, *Ind. Sem. Hort. Berol. for 1856 (App.):* 6. 1857.
 = *Aechmea coelestis* (K. Koch) E. Morren.
- 40.3-98b **O. coelestis** var. **albomarginata** (M.B. Foster) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea coelestis* var. *albomarginata* M.B. Foster, *Bull. Bromeliad Soc.* 7:91. 1957.
 = *Aechmea coelestis* var. *albomarginata* M.B. Foster.
- 40.3-98c **O. coelestis** var. **acutifolia** (Pereira) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea coelestis* var. *acutifolia* Pereira, *Bradea* 2:322. 1979.
 = *Aechmea coelestis* var. *acutifolia* Pereira.
- 40.3-98.1 **O. lymanii** (Weber) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea lymanii* Weber, *J. Bromeliad Soc.* 34:202. 1984.
 = *Aechmea lymanii* Weber.
- 40.3-99 **O. organensis** (Wawra) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea organensis* Wawra, *Osterr. Bot. Z.* 30:116. 1880.
 = *Aechmea organensis* Wawra.

- 40.3-100 **O. gracilis** (Lindman) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea gracilis* Lindman, Kongl. Svenska Vetenskapsakad. Handl. 24(8):30. 1891.
 = *Aechmea gracilis* Lindman.
- 40.3-101 **O. bicolor** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea bicolor* L.B. Smith, *Smithsonian Misc. Collect.* 126:12,213. 1955.
 = *Aechmea bicolor* L.B. Smith.
- 40.3-102 **O. blumenavii** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea blumenavii* Reitz, *Anais Bot. Herb. “Barbosa Rodrigues”* 4:21. 1952.
 = *Aechmea blumenavii* Reitz.
- 40.3-102b **O. blumenavii** var. **alba** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea blumenavii* var. *alba* Reitz, *Bromeliaceae Fl. Illustr. Catar.* 1:412. 1983.
 = *Aechmea blumenavii* var. *alba* Reitz.
- 40.3-103 **O. kertesziae** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea kertesziae* Reitz, *Anais Bot. Herb. “Barbosa Rodrigues”* 4:24. 1952.
 = *Aechmea kertesziae* Reitz.
- 40.3-103b **O. kertesziae** var. **viridiaurata** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea kertesziae* var. *viridiaurata* Reitz, *Sellowia* 33:55. 1981.
 = *Aechmea kertesziae* var. *viridiaurata* Reitz.
- 40.3-104 **O. lindenii** (E. Morren) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Hoplophytum lindenii* E. Morren, *Belg. Hort.* 15:164. 1865.
 = *Aechmea comata* (Gaudichaud) Baker.
- 40.3-104b **O. lindenii** var. **makoyana** (Mez) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea lindenii* var. *makoyana* Mez, *Pflanzenreich* IV. 32:159. 1934.
 = *Aechmea comata* var. *makoyana* (Mez) L.B. Smith.
- 40.3-105 **O. calyculata** (E. Morren) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Hoplophytum calyculatum* E. Morren, *Belg. Hort.* 15:162. 1965.
 = *Aechmea calyculata* (E. Morren) Baker.
- 40.3-106 **O. apocalyptica** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea apocalyptica* Reitz, *Sellowia* 14:99. 1962.
 = *Aechmea apocalyptica* Reitz.
- 40.3-107 **O. cylindrata** (Lindman) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea cylindrata* Lindman, Kongl. Svenska Vetenskapsakad. Handl. 24(8):32. 1891.
 = *Aechmea cylindrata* Lindman.
- 40.3-108 **O. gamosepala** (Wittmack) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea gamosepala* Wittmack, *Bot. Jahrb. Syst.* 13(Beibl. 29):3,13. 1891.
 = *Aechmea gamosepala* Wittmack.
- 40.3-108b **O. gamosepala** var. **nivea** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea gamosepala* var. *nivea* Reitz, *Sellowia* 14:101. 1962.
 = *Aechmea gamosepala* var. *nivea* Reitz.

40.4 PLATYAECHMEA Baker. See Smith & Kress (1990).

- 40.4-109 **P. caesia** (Baker) Smith & Kress, *Phytologia* 69:272–4. 1990.
 –Basionym: *Aechmea caesia* E. Morren ex Baker, *Handb. Bromel.* 43. 1889.
 = *Aechmea caesia* E. Morren ex Baker.
- 40.4-109.1 **P. flavorosea** (Pereira) Smith & Kress, *Phytologia* 69:272–4. 1990.
 –Basionym: *Aechmea flavorosea* Pereira, *Bradea* 2:321. 1979.
 = *Aechmea flavorosea* Pereira.
- 40.4-110 **P. fasciata** (Lindley) Smith & Kress, *Phytologia* 69:272–4. 1990.
 –Basionym: *Billbergia fasciata* Lindley, *Bot. Reg.* 13:pl.1130. 1828.
 = *Aechmea fasciata* (Lindley) Baker.

- 40.4-110b **P. fasciata** var. **purpurea** (Guillon) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Billbergia rhodocyanea* var. *purpurea* Guillon, Rev. Hort. 55:453. 1883.
 = *Aechmea fasciata* var. *purpurea* (Guillon) Mez.
- 40.4-110c **P. fasciata** var. **flavivittata** (Reitz) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea fasciata* var. *flavivittata* Reitz, Sellowia 33:55. 1981.
 = *Aechmea fasciata* var. *flavivittata* Reitz.
- 40.4-110d **P. fasciata** var. **pruinosa** (Reitz) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea fasciata* var. *pruinosa* Reitz, Sellowia 33:55. 1981.
 = *Aechmea fasciata* var. *pruinosa* Reitz.
- 40.4-111 **P. dealbata** (Baker) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea dealbata* E. Morren ex Baker, Handb. Bromel. 58. 1889.
 = *Aechmea dealbata* E. Morren ex Baker.
- 40.4-112 **P. distichantha** (Lemaire) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea distichantha* Lemaire, Jard. Fleur. 3:269. 1853.
 = *Aechmea distichantha* Lemaire.
- 40.4-112ii **P. distichantha** var. **distichantha** forma **albiflora** (L.B. Smith) Smith & Kress. Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea distichantha* var. *distichantha* forma *albiflora* L.B. Smith, Arq. Bot. Estado Sao Paulo 1:102. 1943.
 = *Aechmea distichantha* var. *distichantha* forma *albiflora* L.B. Smith.
- 40.4-112b **P. distichantha** var. **schlumbergeri** (Mez) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea distichantha* var. *schlumbergeri* E. Morren ex Mez in Martius, Fl. Bras. 3:343. 1892.
 = *Aechmea distichantha* var. *schlumbergeri* E. Morren ex Mez.
- 40.4-112c **P. distichantha** var. **glaziovii** (Baker) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea glaziovii* Baker, J. Bot. 17:133. 1879.
 = *Aechmea distichantha* var. *glaziovii* (Baker) L.B. Smith.
- 40.4-112d **P. distichantha** var. **vernica** (Pereira) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea distichantha* var. *vernica* Pereira, Bradea 2:308. 1979.
 = *Aechmea distichantha* var. *vernica* Pereira.
- 40.4-113 **P. wittmackiana** (Regel) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Quesnelia wittmackiana* Regel, Gartenflora 37:497. 1888.
 = *Aechmea wittmackiana* (Regel) Mez.
- 40.4-114 **P. contracta** (Martius ex Schultes f.) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Billbergia contracta* Martius ex Schultes f. in Roemer & Schultes, Syst. Veg. 7:1263. 1830.
 = *Aechmea contracta* (Martius ex Schultes f.) Baker.
- 40.4-115 **P. anomala** (L.B. Smith) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea anomala* L.B. Smith, Caldasia 3:237. 1945.
 = *Aechmea anomala* L.B. Smith.
- 40.4-116 **P. retusa** (L.B. Smith) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea retusa* L.B. Smith, Phytologia 10:484. 1964.
 = *Aechmea retusa* L.B. Smith.
- 40.4-117 **P. chantinii** (Carrière) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Billbergia chantinii* Carrière, Rev. Hort. 50:112. 1878; 52:272. 1880.
 = *Aechmea chantinii* (Carrière) Baker.
- 40.4-117.1 **P. moorei** (Luther) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea moorei* Luther, J. Bromeliad Soc. 30:176. 1980.
 = *Aechmea moorei* Luther.
- 40.4-118 **P. dichlamydea** (Baker) Smith & Kress, Phytologia 69:272–4. 1990.
 –Basionym: *Aechmea dichlamydea* Baker, J. Bot. 17:133. 1879.
 = *Aechmea dichlamydea* Baker.
- 40.4-118b **P. dichlamydea** var. **pariaensis** (Pittendrigh) Smith & Kress.
 –Basionym: *Aechmea dichlamydea* var. *pariaensis* Pittendrigh in L.B. Smith, Phytologia 18:137. 1969.
 = *Aechmea dichlamydea* var. *pariaensis* Pittendrigh.
- 40.4-118c **P. dichlamydea** var. **trinitensis** (L.B. Smith) Smith & Kress, Phytologia 69:272–4. 1990.

- Basionym: *Aechmea dichlamydea* var. *trinitensis* L.B. Smith, Proc. Amer. Acad. Arts 68:145. 1933.
 = *Aechmea dichlamydea* var. *trinitensis* L.B. Smith.
- 40.4-119 **P. smithiorum** (Mez) Smith & Kress, Phytologia 69:272–4. 1990.
 —Basionym: *Aechmea smithiorum* Mez in C. DeCandolle, Monogr. Phan. 9:246. 1896.
 = *Aechmea smithiorum* Mez.
- 40.4-120 **P. zebrina** (L.B. Smith) Smith & Kress, Phytologia 69:272–4. 1990.
 —Basionym: *Aechmea zebrina* L.B. Smith, Phytologia 4:358. 1953.
 = *Aechmea zebrina* L.B. Smith.
- 40.4-121 **P. serrata** (Linnaeus) Smith & Kress, Phytologia 69:272–4. 1990.
 —Basionym: *Tillandsia serrata* Linnaeus, Sp. Pl. Pl.286. 1753.
 = *Aechmea serrata* (Linnaeus) Mez.
- 40.4-122 **P. tillandsioides** (Schultes f.) Smith & Kress, Phytologia 69:272–4. 1990.
 —Basionym: *Billbergia tillandsioides* Schultes f. in Roemer & Schultes, Syst. Veg. 7:1269. 1830.
 = *Aechmea tillandsioides* (Martius ex Schultes f.) Baker.
- 40.4-122b **P. tillandsioides** var. **kienastii** (Mez) Smith & Kress, Phytologia 69:272–4. 1990.
 —Basionym: *Aechmea kienastii* E. Morren ex Mez in C. DeCandolle, Monogr. Phan. 9:243. 1896.
 = *Aechmea tillandsioides* (Martius ex Schultes f.) Baker.
- 40.4-123 **P. tessmannii** (Harms) Smith & Kress, Phytologia 69:272–4. 1990.
 —Basionym: *Aechmea tessmannii* Harms, Bot. Gart. Berlin 9:1153. 1927.
 = *Aechmea tessmannii* Harms.
- 40.4-124 **P. romeroi** (L.B. Smith) Smith & Kress, Phytologia 69:272–4. 1990.
 —Basionym: *Aechmea romeroi* L.B. Smith, Phytologia 5:282. 1955.
 = *Aechmea romeroi* L.B. Smith.

40.5 POTHUAVA Gaudichaud. See Smith & Kress (1989).

- 40.5-125 **P. pectinata** (Baker) Smith & Kress, Phytologia 66:70–9. 1989.
 —Basionym: *Aechmea pectinata* Baker, J. Bot. 17:233. 1879.
 = *Aechmea pectinata* Baker.
- 40.5-127 **P. aciculosa** (Mez & Sodiro) Smith & Kress, Phytologia 66:70–9. 1989.
 —Basionym: *Aechmea aciculosa* Mez & Sodiro, Bull. Herb. Boiss. II. 4:620. 1904.
 = *Aechmea aciculosa* Mez & Sodiro.
- 40.5-128 **P. weberbaueri** (Harms) Smith & Kress, Phytologia 66:70–9. 1989.
 —Basionym: *Aechmea weberbaueri* Harms, Notizbl. Bot. Gart. Berlin-Dahlem 14: 330. 1939.
 = *Aechmea weberbaueri* Harms.
- 40.5-129 **P. involucrata** (André) Smith & Kress, Phytologia 66:70–9. 1989.
 —Basionym: *Aechmea involucrata* André, Enum. Bromel. 4. 13 Dec 1888; Rev. Hort. 60:564. 16 Dec 1888.
 = *Aechmea involucrata* André.
- 40.5-130 **P. fraseri** (Baker) Smith & Kress, Phytologia 66:70–9. 1989.
 —Basionym: *Aechmea fraseri* Baker, Handb. Bromel. 61. 1889.
 = *Aechmea fraseri* Baker.
- 40.5-131 **P. allenii** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
 —Basionym: *Aechmea allenii* L.B. Smith, Ann. Missouri Bot. Gard. 28:411. 1941.
 = *Aechmea allenii* L.B. Smith.
- 40.5-132 **P. tonduzii** (Mez & Pittier) Smith & Kress, Phytologia 66:70–9. 1989.
 —Basionym: *Aechmea tonduzii* Mez & Pittier ex Mez, Bull. Herb. Boiss. II. 3:132. 1903.
 = *Aechmea tonduzii* Mez & Pittier.
- 40.5-133 **P. mariae-reginae** (H. Wendland) Smith & Kress, Phytologia 66:70–9. 1989.
 —Basionym: *Aechmea mariae-reginae* H. Wendland, Hamburger Garten-Blumenzeitung 19:32. 1863.
 = *Aechmea mariae-reginae* H. Wendland.

- 40.5-134 **P. drakeana** (André) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea drakeana* André, *Rev. Hort.* 60:401. 1888.
= *Aechmea drakeana* André.
- 40.5-135 **P. squarrosa** (Baker) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea squarrosa* Baker, *Handb. Bromel.* 63. 1889.
= *Aechmea squarrosa* Baker.
- 40.5-136 **P. alopecurus** (Mez) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea alopecurus* Mez in *Martius, Fl. Bras.* 3:367. 1892.
= *Aechmea alopecurus* Mez.
- 40.5-137 **P. subpetiolata** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea subpetiolata* L.B. Smith, *Contr. Gray Herb.* 124:8. 1939.
= *Aechmea subpetiolata* L.B. Smith.
- 40.5-138 **P. vanhoutteana** (Van Houtte) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Echinostachys vanhoutteana* Van Houtte, *Catal.* 1878.
= *Aechmea vanhoutteana* (Van Houtte) Mez.
- 40.5-138.1 **P. bocainensis** (Pereira & Leme) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea bocainensis* Pereira & Leme, *Revista Brasil. Biol.* 45:634. 1985.
= *Aechmea bocainensis* Pereira & Leme.
- 40.5-139 **P. kleinii** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea kleinii* Reitz, *Anais Bot. Herb. "Barbosa Rodrigues"* 5:254. 1954.
= *Aechmea kleinii* Reitz.
- 40.5-140 **P. ornata** (Baker) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea ornata* Baker, *J. Bot.* 17:162. 1879.
= *Aechmea ornata* Baker.
- 40.5-140b **P. ornata** var. **hoehneana** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea ornata* var. *hoehneana* L.B. Smith, *Smithsonian Misc. Collect.* 126:17,224. 1955.
= *Aechmea ornata* var. *hoehneana* L.B. Smith.
- 40.5-140c **P. ornata** var. **nationalis** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea ornata* var. *nationalis* Reitz, *Anais Bot. Herb. "Barbosa Rodrigues"* 4:30. 1952.
= *Aechmea ornata* var. *nationalis* Reitz.
- 40.5-140.1 **P. roberto-anselmoi** (Pereira & Leme) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea roberto-anselmoi* Pereira & Leme, *J. Bromeliad Soc.* 35:171. 1985.
= *Aechmea roberto-anselmoi* Pereira & Leme.
- 40.5-141 **P. pineliana** (Brongniart ex Planchon) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Echinostachys pineliana* Brongniart ex Planchon, *Hort. Donat.* 25. 1854-8.
= *Aechmea pineliana* (Brongniart ex Planchon) Baker.
- 40.5-141b **P. pineliana** var. **minuta** (M. B. Foster) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea pineliana* var. *minuta* M.B. Foster, *Bull. Bromeliad Soc.* 11:96. 1966.
= *Aechmea pineliana* var. *minuta* M. B. Foster.
- 40.5-141.1 **P. guarapariensis** (Pereira & Leme) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea guarapariensis* Pereira & Leme, *Brasil Florestal* 59:49. 1984.
= *Aechmea guarapariensis* Pereira & Leme.
- 40.5-142 **P. triticina** (Mez) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea triticina* Mez in *Martius, Fl. Bras.* 3:369. 1892.
= *Aechmea triticina* Mez.
- 40.5-142b **P. triticina** var. **capensis** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Aechmea triticina* var. *capensis* L.B. Smith, *Smithsonian Misc. Collect.* 126:19,223. 1955.
= *Aechmea triticina* var. *capensis* L.B. Smith.
- 40.5-143 **P. nudicaulis** (Linnaeus) Smith & Kress, *Phytologia* 66:70–9. 1989.
—Basionym: *Bromelia nudicaulis* Linnaeus, *Sp. Pl.* 286. 1753.
= *Aechmea nudicaulis* (Linnaeus) Grisebach.

- 40.5-143b **P. nudicaulis** var. **cuspidata** (Baker) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea nudicaulis* var. *cuspidata* Baker, *J. Bot.* 17:234. 1879.
 = *Aechmea nudicaulis* var. *cuspidata* Baker.
- 40.5-143c **P. nudicaulis** var. **aureorosea** (Antoine) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Hoplophytum aureoroseum* Antoine, *Wiener Ill Gart.-Zeitung* 6-97.1881.
 = *Aechmea nudicaulis* var. *aureorosea* (Antoine) L.B. Smith.
- 40.5-143d **P. nudicaulis** var. **aequalis** (L.B. Smith & Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea nudicaulis* var. *aequalis* L. B. Smith & Reitz, *Phytologia* 8:506. 1963.
 = *Aechmea nudicaulis* var. *aequalis* L.B. Smith & Reitz.
- 40.5-143e **P. nudicaulis** var. **flavomarginata** (Pereira) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea nudicaulis* var. *flavomarginata* Pereira, *Bradea* 2:31. 1975.
 = *Aechmea nudicaulis* var. *flavomarginata* Pereira.
- 40.5-143f **P. nudicaulis** var. **simulans** (Pereira) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea nudicaulis* var. *simulans* Pereira, *Bradea* 2:174. 1977.
 = *Aechmea nudicaulis* var. *simulans* Pereira.
- 40.5-143g **P. nudicaulis** var. **tabuleirensis** (Reitz) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea* var. *tabuleirensis* Reitz, *Sellowia* 33:55. 1981.
 = *Aechmea nudicaulis* var. *cuspidata* forma *tabuleirensis* Reitz.
- 40.6 MACHROCHORDION** DeVriese. See Smith & Kress (1989).
- 40.6-144 **M. nervata** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea nervata* L.B. Smith, *Smithsonian Misc. Collect.* 126:17,224. 1955.
 = *Aechmea vanhoutteana* (Van Houtte) Mez.
- 40.6-145 **M. turbinocalyx** (Mez) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea turbinocalyx* Mez in *Martius, Fl. Bras.* 3:359. 1892.
 = *Aechmea turbinocalyx* Mez.
- 40.6-146 **M. alba** (Mez) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea alba* Mez in *Martius, Fl. Bras.* 3:375. 1892.
 = *Aechmea alba* Mez.
- 40.6-147 **M. lamarchei** (Mez) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea lamarchei* Mez in *Martius Fl. Bras.* 3:370. 1892.
 = *Aechmea lamarchei* Mez.
- 40.6-147.1 **M. pabstii** (Pereira & Moutinho) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea pabstii* Pereira & Moutinho, *Bradea* 3:86. 1980.
 = *Aechmea pabstii* Pereira & Moutinho.
- 40.6-148 **M. triangularis** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea triangularis* L.B. Smith, *Smithsonian Misc. Collect* 126:19,224. 1955.
 = *Aechmea triangularis* L.B. Smith.
- 40.6-149 **M. bromeliifolia** (Rudge) Beer, *Phytologia* 66:70–9. 1989.
 –Basionym: *Tillandsia bromeliifolia* Rudge, *Pl. Guian.* 32. 1807.
 = *Aechmea bromeliifolia* (Rudge) Baker.
- 40.6-150 **M. maculata** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea maculata* L.B. Smith, *Smithsonian Misc. Collect.* 126:15,227. 1955.
 = *Aechmea maculata* L.B. Smith.
- 40.6-150.1 **M. kautskyana** (Pereira & L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea kautskyana* Pereira & L.B. Smith in *Pereira, Bradea* 3:46. 1980.
 = *Aechmea kautskyana* Pereira & L.B. Smith.
- 40.6-151 **M. chlorophylla** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
 –Basionym: *Aechmea chlorophylla* L.B. Smith, *Smithsonian Misc. Collect.* 126:14,227. 1955.
 = *Aechmea chlorophylla* L.B. Smith.

40.7 CHEVALIERA Gaudichaud. See Smith & Kress (1989).

- 40.7-152 **C. germinyana** Carrière, Rev. Hort. 53:230. 1881.
= *Aechmea germinyana* (Carrière) Baker.
- 40.7-153 **C. veitchii** (Baker) E. Morren, Belg. Hort. 28:177. 1878.
—Basionym: *Aechmea veitchii* Baker, Bot. Mag. 103:pl 6329. 1877.
= *Aechmea veitchii* Baker.
- 40.7-154 **C. lateralis** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea lateralis* L.B. Smith, Contr. U.S. Natl. Herb. 29:525. 1954.
= *Aechmea lateralis* L.B. Smith.
- 40.7-155 **C. magdalenae** André, Enum. Bromel. 3:13 Dec 1888.
= *Aechmea magdalenae* (André) André ex Baker.
- 40.7-155b **C. magdalenae** var. **quadricolor** (M.B. Foster) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea magdalenae* var. *quadricolor* M.B. Foster, Brom. Soc. Bull. 16:27. 1966.
= *Aechmea magdalenae* var. *quadricolor* M.B. Foster.
- 40.7-156 **C. fernandae** (E. Morren) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Bromelia fernandae* E. Morren, Ill. Hort. 18:114. 1871.
= *Aechmea fernandae* (E. Morren) Baker.
- 40.7-157 **C. rubiginosa** (Mez) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea rubiginosa* Mez in C. DeCandolle Monogr. Phan. 9:285. 1896.
= *Aechmea rubiginosa* Mez.
- 40.7-157.1 **C. tayoensis** (Gilmartin) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea tayoensis* Gilmartin, Selbyana 5(3-4):308. 1981.
= *Aechmea tayoensis* Gilmartin.
- 40.7-158 **C. strobilacea** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea strobilacea* L.B. Smith, Phytologia 6:435. 1954.
= *Aechmea strobilacea* L.B. Smith.
- 40.7-159 **C. multiflora** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea multiflora* L.B. Smith, Contr. Gray Herb. 117:4. 1937.
= *Aechmea multiflora* L.B. Smith.
- 40.7-160 **C. depressa** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea depressa* L.B. Smith, Arq. Bot. Estado Sao Paulo 1:54. 1941.
= *Aechmea depressa* L.B. Smith.
- 40.7-161 **C. saxicola** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea saxicola* L.B. Smith, Arq. Bot. Estado Sao Paulo 2:118. 1950.
= *Aechmea saxicola* L.B. Smith.
- 40.7-162 **C. hostilis** (Pereira) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea hostilis* Pereira, Bradea 1:277. 1972.
= *Aechmea hostilis* Pereira.
- 40.7-163 **C. conifera** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea conifera* L.B. Smith, Arq. Bot. Estado Sao Paulo 1:53. 1941.
= *Aechmea conifera* L.B. Smith.
- 40.7-164 **C. rodriguesiana** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Gravisia rodriguesiana* L.B. Smith, Phytologia 13:153. 1966.
= *Aechmea rodriguesiana* (L.B. Smith) L.B. Smith.
- 40.7-164.1 **C. itapoana** (W. Till & Morawetz) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea itapoana* W. Till & Morawetz, Pl. Syst. Evol. 138:147. 1981.
= *Hohenbergia littoralis* L.B. Smith.
- 40.7-165 **C. digitata** (L.B. Smith & R.W. Read) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea digitata* L.B. Smith & R.W. Read, Phytologia 33:432. 1976.
= *Aechmea digitata* L.B. Smith & R.W. Read.
- 40.7-166 **C. perforata** (L.B. Smith) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea perforata* L.B. Smith, Arq. Bot. Estado Sao Paulo 1:55. 1941.
= *Aechmea perforata* L.B. Smith.
- 40.7-167 **C. sphaerocephala** (Baker) Smith & Kress, Phytologia 66:70–9. 1989.
—Basionym: *Aechmea sphaerocephala* Baker, J. Bot. 17:162. 1879.
= *Aechmea sphaerocephala* Baker.

- 40.7-167.1 **C. microcephala** (Pereira & Leme) Smith & Kress, *Phytologia* 66:70–9. 1989.
–Basionym: *Aechmea microcephala* Pereira & Leme, *Bradea* 4:149. 1985.
= *Aechmea microcephala* Pereira & Leme.
- 40.7-168 **C. leucolepis** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
–Basionym: *Aechmea leucolepis* L.B. Smith, *Smithsonian Misc. Collect.* 126:14,228. 1955.
= *Aechmea leucolepis* L.B. Smith.
- 40.7-169 **C. pallida** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
–Basionym: *Aechmea pallida* L.B. Smith, *Mem. N.Y. Bot. Gard.* 10:40. 1964.
= *Aechmea pallida* L.B. Smith.
- 40.7-170 **C. muricata** (Arruda da Camara) Smith & Kress, *Phytologia* 66:70–9. 1989.
–Basionym: *Bromelia muricata* Arruda da Camara, *Diss. Pl. Brasil.* 21. 1810.
= *Aechmea muricata* (Arruda da Camara) L.B. Smith.
- 40.7-171 **C. cariocae** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
–Basionym: *Aechmea cariocae* L.B. Smith, *Smithsonian Misc. Collect.* 126:15,228. 1955.
= *Aechmea cariocae* L.B. Smith.
- 40.7-172 **C. castanea** (L.B. Smith) Smith & Kress, *Phytologia* 66:70–9. 1989.
–Basionym: *Aechmea castanea* L.B. Smith, *Smithsonian Misc. Collect.* 126:13,228. 1955.
= *Aechmea castanea* L.B. Smith.

41 QUESNELIA Gaudichaud.

- 41-6b **Q. edmundoi** var. **rubrobracteata** Pereira, *Bradea* 3:214,216. 1981. Brazil:Rio de Janeiro. [Holo:HB]. Emended Pereira & Leme, *Brasil Florestal* 59:42. 1984.
- 41-6c **Q. edmundoi** var. **intermedia** Pereira & Leme, *Brasil Florestal* 59:41–2. 1984. Brazil:Rio de Janeiro. [Holo:HB; Iso:RB].
- 41-10.1 **Q. alvimii** Leme, *Bradea* 5:392-3,395. 1991. Brazil:Bahia. [Holo:HB].

42 BILLBERGIA Thunberg.

- 42-0 **B. x claudioi** Leme, *Bradea* 4:314-6. 1987. Brazil:Rio de Janeiro. [Holo:HB; Iso:RB].
- 42-1 **B. vittata** Brongniart.
–Syn.: *B. domingo-martinsis* E. Gross.
- 42-1.1 **B. macracantha** Pereira, *Sellowia* 26:79. 1975. Brazil:Rio de Janeiro. [Holo:HB].
- 42-1.2 **B. lymanii** Pereira & Leme, *Bradea* 4:72,76. 1984. Brazil:Espirito Santo. [Holo:HB].
- 42-1.2b **B. lymanii** var. **angustifolia** Pereira & Leme, *Bradea* 4:130,132. 1985. Brazil:Rio de Janeiro. [Holo:HB; Iso:HB].
- 42-3e **B. amoena** var. **carnea** Pereira, *Bradea* 2:32. 1975. Brazil:Minas Gerais. [Holo:HB].
- 42-3f **B. amoena** var. **stolonifera** Pereira & Moutinho, *Bradea* 3:214,219. 1981. Brazil:Rio de Janeiro. [Holo:HB]. See also *J. Bromeliad Soc.* 34:218. 1984.
- 42-3fi **B. amoena** var. **stolonifera** forma **viridiflora** Pereira & Moutinho, *Bradea* 3:214,220. 1981. Brazil:Rio de Janeiro. [Holo:HB].
- 42-3g **B. amoena** var. **flavescens** Reitz, *Bromeliaceas e a malaria-bromelia endemica* 495. 1983. Brazil:Rio de Janeiro. [Holo:HBR].
- 42-3h **B. amoena** var. **robertiana** Pereira & Leme, *Brasil Florestal* 59:41. 1984. Brazil:Espirito Santo. [Holo:HB].
- 42-4.1 **B. nana** Pereira, *Bradea* 1:316-8. 1973. Brazil:Espirito Santo. [Holo:HB].
- 42-4.2 **B. castelensis** Pereira, *Bradea* 1:384-5,389. 1974. Brazil:Espirito Santo. [Holo:HB].
- 42-6.1 **B. manarae** Steyermark, *Brittonia* 30:39–40. 1978. Venezuela:Distrito Federal. [Holo:US; Iso:VEN].
- 42-6.2 **B. domingos-martinsis** E. Gross, *Trop. Subtrop. Pflanzenwelt* 65:65–7. 1988. Brazil:Espirito Santo. [Holo:HEID].
= *B. vittata* Brongniart.
- 42-7c **B. nutans** var. **striata** Reitz, *Sellowia* 17:41. 1965. Brazil:Rio Grande de Sul. [Holo:HBR].
- 42-7.1 **B. amandae** Weber, *Feddes Repert.* 97(3-4):115–8. 1986. Brazil. [Holo:HAL].

- 42-8b **B. minarum** var. **viridiflora** Pereira & Leme, Bradea 4:130-2. 1985. Brazil:Espirito Santo. [Holo:HB].
- 42-13 **B. chlorosticta** Hortus Saunders.
= *B. saundersii* Bull. See R.W. Read, Taxon 34:294, 341-2. 1985.
- 42-13.1 **B. saundersii** Bull.
See R.W. Read, Taxon 34:294. 1985.
—Syn.: *B. chlorosticta* Hortus Saunders.
—Syn.: *B. debilis* Pereira
—Syn.: *B. fosteriana* L.B. Smith.
- 42-14 **B. debilis** Pereira.
= *B. saundersii* Bull. See Smith & Downs (1979).
- 42-15 **B. fosteriana** L.B. Smith.
= *B. saundersii* Bull. See Smith & Downs (1979).
- 42-22.1 **B. decipiens** Pereira & Reitz, Sellowia 26:82-5. 1975. Brazil:Rio de Janeiro. [Holo:HB; Iso:HBR].
- 42-24.1 **B. kautskyana** Pereira, Bradea 2:275-6. 1978. Brazil:Espirito Santo. [Holo:HB].
- 42-26c **B. pyramidalis** var. **vernica** Pereira, Bradea 2:308. 1979. Brazil:Rio de Janeiro. [Holo:HB].
- 42-26d **B. pyramidalis** var. **striata** M.B. Foster Bromeliad Soc. Bull. 10:58. 1960. Hort. [US].
- 42-26e **B. pyramidalis** var. **lutea** Leme & Weber, J. Bromeliad Soc. 34:79-80. 1984. Brazil:Rio de Janeiro. [Holo:HB; Iso:HAL].
- 42-33.1 **B. eloiseae** L.B. Smith & R.W. Read, J. Bromeliad Soc. 33:243-5, 263. 1983. Colombia. [Holo:US; Iso:COL].
- 42-36 **B. rosea** Hortus ex Beer.
—Syn.: *B. venezuelana* Mez.
- 42-43 **B. venezuelana** Mez.
= *B. rosea* Hortus ex Beer. See Steyermark & L.B. Smith, J. Bromeliad Soc. 33:4-6, 12. 1983.
- 42-47.1 **B. robert-readii** E. Gross & Rauh, J. Bromeliad Soc. 37:56-8. 1987. Peru:Cuzco. [Holo:HEID]. See also Trop. Subtrop. Pflanzenwelt 60:89-90. 1987.
- 42-50 **B. nobilis** Bull. Cat. 358:377. 1901.
= *B. porteana* Brongniart ex Beer. See Mabberley, Taxon 34:456. 1985.
- 42-50 **B. porteana** Brongniart ex Beer.
—Syn.: *B. nobilis* Bull.

43 NEOGLAZIOVIA Mez.

- 43-2.1 **N. burle-marxii** Leme, J. Bromeliad Soc. 40:102-4. 1990. Brazil:Bahia. [Holo:HB].

44 PORTEA Brongniart.

- 44-1.1 **P. grandiflora** Philcox, Kew Bull. 47:275-6. 1992. Brazil:Bahia. [Holo:CEPEC; Iso:K].
- 44-5.1 **P. alatisepala** Philcox, Kew Bull. 47:273-4. 1992. Brazil:Bahia. [Holo:CEPEC; Iso:K].

46 ANANAS Miller.

- 46-1 **A. monstrosus** (Carrière) L.B. Smith.
= *A. comosus* (Linnaeus) Merrill. See Leal, J. Bromeliad Soc. 40:246-9. 1990.
- 46-8 **A. comosus** (Linnaeus) Merrill.
—Syn.: *A. monstrosus* (Carrière) L.B. Smith.

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* Entries in italics are taxa that have been synonymized.