



IOS

**Repertorium
Plantarum
Succulentarum
XLVII (1996)**

Repertorium Plantarum Succulentarum XLVII (1996)

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compositus.*

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Conventions used in Repertorium Plantarum Succulentarum

- Repertorium Plantarum Succulentarum attempts to list, under separate headings, newly published names of succulent plants and relevant literature on the systematics of these plants, on an annual basis. New names noted after the issue for the relevant year has gone to press are included in later issues. Specialist periodical literature is scanned in full (as available at the libraries at ZSS and Z or received by the compilers). Also included is information supplied to the compilers direct. It is urgently requested that any reprints of papers not published in readily available botanical literature be sent to the compilers.
- Validly published names are given in **bold face** type, accompanied by an indication of the nomenclatural type (name or specimen dependent on rank), followed by the herbarium acronyms of the herbaria where the holotype and possible isotypes are said to be deposited (first acronym for holotype), according to Index Herbariorum, ed. 8 and supplements as published in Taxon. Invalid, illegitimate, or incorrect names are given in *italic* type face. In either case a full bibliographic reference is given. For new combinations, the basionym is also listed. For invalid, illegitimate or incorrect names, the articles of the ICBN which have been contravened are indicated in brackets (note that the numbering of some regularly cited articles has changed in the Tokyo (1994) edition of ICBN).
- The compilers would like to point out that they do not accept any names that might be inadvertently validated in this volume of RPS.
- Bibliographic details of papers dealing only with the description of one or two new taxa are not repeated in the bibliographic section.
- Abbreviations for periodicals are those suggested in 'A Bibliography of Succulent Plant Periodicals' (U. Eggli in Bradleya 3: 103-119, 1985, and supplements in l.c. 5: 101-104, 1987) for specialized periodicals, or those of Bibliographia Periodicorum Huntianum (including Supplement) for most other periodicals.

Konventionen im Zusammenhang mit dem Repertorium Plantarum Succulentarum

- Das Repertorium Plantarum Succulentarum ist eine jährlich herausgegebene Zusammenstellung neuer Namen für sukkulente Pflanzen und der relevanten systematischen Literatur. Neue Namen, die nach der Drucklegung der Ausgabe des betreffenden Jahres bekannt werden, erscheinen in der nächsten erreichbaren Ausgabe. Spezialisierte Zeitschriften werden umfassend durchgesehen, soweit sie in den Bibliotheken von Z und ZSS vorhanden sind oder den Herausgebern privat vorliegen. Die Herausgeber bitten alle Autoren dringend, Separata relevanter Publikationen zur Verfügung zu stellen, vor allem wenn es sich um Beiträge in schwer zugänglichen Serien handelt.
- Gültig veröffentlichte Namen werden in **Fettschrift** wiedergegeben unter Angabe des nomenklatorischen Typs (Name oder Belegexemplar je nach Rangstufe; gefolgt von den Herbarabkürzungen [entsprechend Index Herbariorum, ed. 8, und in Taxon publizierten Supplementen] der publizierten Hinterlegungsorte für Holotyp [1. Abkürzung] und Isotypen). Ungültige, illegitime oder falsch angewandte Namen erscheinen in *Kursivschrift* unter Angabe (in Klammer) derjenigen Artikel des ICBN, die verletzt worden sind. In allen Fällen folgen die kompletten bibliographischen Angaben. Für Umkombinationen wird auch das Basionym angegeben. Dabei ist zu beachten, dass die Nummerierung einiger häufig zitierter Artikel mit dem Erscheinen der Tokyo-Version (1994) des ICBN geändert hat.
- Die Herausgeber weisen mit aller Deutlichkeit darauf hin, dass sie keinen Namen anerkennen, der zufälligerweise in dieser Ausgabe des RPS validiert worden sein könnte.
- Beiträge, welche nur Beschreibungen eines oder zweier Taxa enthalten, werden in der bibliographischen Liste nicht separat aufgeführt.
- Die Abkürzungen für spezialisierte Sukkulente-Zeitschriften richten sich nach 'A Bibliography of Succulent Plant Periodicals' (U. Eggli in Bradleya 3: 103-119, 1985, sowie Supplementen in l.c. 5: 101-104, 1987), für allgemeine botanische Zeitschriften in der Regel nach Bibliographia Periodicorum Huntianum und Supplement.

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Preface

The present issue of RPS has turned out to be a big one. This is partly due to the fact that references omitted from the issues for 1994 and 1995 have come to light thanks to the efforts of Daniela Zappi at Kew. More importantly, 1996 has seen both very numerous new names in various groups of succulent plants, and also a large number of important publications dealing with these plants.

The editors try to make RPS as complete as possible, and as managing editor, I am very grateful especially to Daniela Zappi for her invaluable help, as well as to the authorities at Kew to allow access to their holdings. Numerous authors have helped by sending reprints of their relevant papers. In order to help with the compilation of RPS, I would like to **urge all members of IOS as well as other authors to send reprints of their relevant papers to the IOS library at Zürich**, especially if their contributions have appeared in 'general' botanical journals. Your cooperation is vital if RPS is to remain *the source* for information on succulent plant nomenclature and literature.

Urs Egli

Vorwort

Die vorliegende Ausgabe des RPS ist sehr umfangreich geworden. Zum Teil sind dafür zahlreiche Literaturzitate verantwortlich, die in den Ausgaben für 1994 und 1995 nicht erschienen sind und jetzt Dank den Anstrengungen von Daniela Zappi in Kew zugänglich wurden. Stärker zum Umfang beigetragen haben aber die zahlreichen 1996 publizierten neuen Namen für sukkulente Pflanzen, sowie die grosse Zahl von wichtigen Veröffentlichungen zu dieser Pflanzengruppe.

Die Herausgeber versuchen, das RPS so vollständig wie möglich zusammenzustellen. Als verantwortlicher Herausgeber bin ich vor allem Daniela Zappi für ihre unschätzbare Hilfe sehr zu Dank verpflichtet, sowie der Leitung von Kew, welche den Zugang zu den dortigen Publikationen ermöglicht. Zahlreiche Autoren haben uns darüberhinaus durch die Zusendung von Sonderdrucken ihrer Publikationen geholfen. Um die Zusammenstellung des RPS zu erleichtern, möchte ich deshalb **alle IOS-Mitglieder sowie die anderen Autoren bitten, der IOS-Bibliothek in Zürich jeweils Sonderdrucke ihrer Beiträge zur Verfügung zu stellen**, vor allem wenn es sich um Artikel in 'allgemeinen' botanischen Zeitschriften handelt. Diese Zusammenarbeit ist unschätzbar wichtig, wenn das RPS auch in Zukunft *die Quelle* für Informationen über Nomenklatur und Literatur der sukkulenten Pflanzen sein soll.

Urs Egli

Corrections to previous volumes

- Instead of the correct name *Stoeberia arborea*, RPS 46: 4 gave the epithet incorrectly as 'arborescens'.
- The names *Opuntia apurimacensis*, *O. atroglobosa*, *O. basilaris* 'Cristata' and *O. brachycantha* have been overlooked for the last RPS, but are here included. This unfortunate oversight is mainly due to the cryptic publication of these combinations.

Korrekturen zu früheren Bänden

- Statt dem korrekten Namen *Stoeberia arborea* listete RPS 46: 4 den Artnamen fälschlich als 'arborescens'.
- Die Namen *Opuntia apurimacensis*, *O. atroglobosa*, *O. basilaris* 'Cristata' und *O. brachycantha* wurden für das letzte RPS nicht berücksichtigt, wurden aber hier eingefügt. Dieses unglückliche Versehen ist nicht zuletzt auch durch die kryptische Anordnung der Kombinationen im betreffenden Text bedingt.

NOMINA NOVA

AGAVACEAE

- Agave** sect. **Yuccaefoliae** (A. Terraciano) B. Ullrich, *Piante Grasse* 16(1): 29, 1996. Basionym: *Agave* subser. *Yuccaefoliae*.
- Agave montana** Villarreal, *Sida* 17(1): 191-195, ill., 1996. Typus: Villarreal et al. 8120 (MEXU, ANSM, ENCB).
- Agave tequilana** cv. **Sunrise** Trager & Kimmach, *Cact. Succ. J. (US)* 68(2): 82, 1996. [Proposed as replacement for *Agave tequilana* 'Limeño', published 1991.]
- Agave vivipara** cv. **Marginata** (Hort. ex Gentry) P. I. Forster, *Brittonia* 44: 74, 1992. *Nom. inval.*, based on *Agave angustifolia* var. *marginata*, *nom. inval.* (Art. 36.1, 37.1). [Omitted previously.]
- Agave vivipara** cv. **Variegata** (Trelease) P. I. Forster, *Brittonia* 44: 75, 1992. Basionym: *Agave angustifolia* var. *variegata*. [Omitted previously.]
- Agave vivipara** var. **deweyana** (Trelease) P. I. Forster, *Brittonia* 44: 74, 1992. Basionym: *Agave deweyana*. [Omitted previously.]
- Agave vivipara** var. **letonae** (Taylor ex Trelease) P. I. Forster, *Brittonia* 44: 74, 1992. Basionym: *Agave letonae*. [Omitted previously.]
- Agave vivipara** var. **nivea** (Trelease) P. I. Forster, *Brittonia* 44: 74, 1992. Basionym: *Agave nivea*. [Omitted previously.]
- Agave vivipara** var. **rubescens** (Salm-Dyck) P. I. Forster, *Brittonia* 44: 74-75, 1992. Basionym: *Agave rubescens*. [Omitted previously.]
- Agave vivipara** var. **sargentii** (Trelease) P. I. Forster, *Brittonia* 44: 75, 1992. Basionym: *Agave angustifolia* var. *sargentii*. [Omitted previously.]
- Furcraea antillana** A. Álvarez, *Anales Inst. Biol. UNAM, Ser. Bot.* 67(2): 331-335, ill., 1996. Typus: Álvarez 63654 (HAJB).
- Polianthes michoacana** Cedano, *Bol. Inst. Bot. (Guadalajara)* 1(7): 521-524, ill. (p. 239), 1993. Typus: Escobedo 1485 (IEB).
- Yucca linearifolia** Clary, *Brittonia* 47(4): 394-396, ill., 1995. Typus: Clary 364 (MEXU, ANSM, MO, TEX, US).
- Yucca linearis** (Trelease) D. J. Ferguson, *Cact. Succ. J. (US)* 68(3): 130, ill., 1996. *Nom. illeg.* (Art. 52.1), based on *Yucca rostrata* var. *linearis*.

AIZOACEAE

- Acrodon quarciicola** H. E. K. Hartmann, *Bradleya* 14: 33, ill. (figs. 2A, 3, pl. Ic, p. 49), 1996. Typus: Hartmann 30400 (HBG).
- Amphibolia rupis-arcuatae** (Dinter) H. E. K. Hartmann, *Bradleya* 14: 34, 1996. Basionym:

- Mesembryanthemum rupis-arcuatae*.
- Antimima aurasensis** H. E. K. Hartmann, *Kakt. and. Sukk.* 47(11): 231, ill., 1996. Typus: Hartmann et al. 20865 (HBG).
- Arenifera pungens** H. E. K. Hartmann, *Bradleya* 14: 37, ill., 1996. Typus: Hartmann et al. 25739 (HBG).
- Arenifera spinescens** (L. Bolus) H. E. K. Hartmann, *Bradleya* 14: 38, pl. Id (p. 49), 1996. Basionym: *Ruschia spinescens*.
- Arenifera stylosa** (L. Bolus) H. E. K. Hartmann, *Bradleya* 14: 38, pl. Ib (p. 49), 1996. Basionym: *Ruschia stylosa*.
- Aridaria noctiflora** ssp. **defoliata** (Haworth) Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 50, 1996. Basionym: *Mesembryanthemum defoliatum*.
- Aridaria noctiflora** ssp. **straminea** (Haworth) Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 52, 1996. Basionym: *Mesembryanthemum stramineum*.
- Cheiridopsis amabilis** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 78, figs. 75-76 (p. 73), 1996. Typus: Hammer et Heunis 1964A (BOL). [Dated 1995, publ. Jan. 1996.]
- Cheiridopsis gamoepensis** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 78-79, fig. 77 (p. 76), 1996. Typus: Williamson 4640a (BOL). [Dated 1995, publ. Jan. 1996.]
- Cheiridopsis glomerata** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 79, 82, fig. 79 (p. 77), 1996. Typus: Hammer et Williamson 2012 (BOL). [Dated 1995, publ. Jan. 1996.]
- Cheiridopsis ponderosa** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 82-83, fig. 81 (p. 80), 1996. Typus: Hammer 1651 (HNT). [Dated 1995, publ. Jan. 1996.]
- Conophytum bachelorum** ssp. **sponsaliorum** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 38, figs. 53-54 (p. 60), 1996. Typus: Hammer 1437 (HNT). [Dated 1995, publ. Jan. 1996.]
- Conophytum obscurum** ssp. **barbatum** (L. Bolus) S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 34, 1996. Basionym: *Conophytum barbatum*. [Dated 1995, publ. Jan. 1996.]
- Dorotheanthus ulularis** Brusse, *Bradleya* 14: 89-90, ill., SEM-ills., 1996. Typus: Brusse 6356 (PRE, K).
- Gibbaeum** subgen. **Imitaria** (N. E. Brown) Van Jaarsveld & S. A. Hammer, *Bradleya* 14: 16, 1996. Basionym: *Imitaria*.
- Gibbaeum johnstonii** Van Jaarsveld & S. A. Hammer, *Bradleya* 14: 14-16, ill., 1996. Typus: Van Jaarsveld et Beran 14205 (NBG).
- × **Harbotrya** S. A. Hammer, *Cact. Succ. J. (US)* 68(1): 8, 1996. [First invalidly published l.c. 67(3): 172, 1995 (at that time, the name *Hartmanthus* was not yet published).] [= *Hartmanthus* × *Jensenobotrya*.]
- Lithops aucampiae** cv. **Green River** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 47, 1996. [Dated 1995, publ. Jan. 1996. Published subordinate to var. *fuminalis*.]

- Lithops gracilidelineata** cv. **Café au Lait** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 47, 1996. [Dated 1995, publ. Jan. 1996. Sphalm. 'Café au Lait'.]
- Lithops hookeri** cv. **Envy** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 47, 1996. [Dated 1995, publ. Jan. 1996. Published subordinate to var. *hookeri*.]
- Lithops julii** cv. **Hotlips** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 48, fig. 68 (p. 69), 1996. [Dated 1995, publ. Jan. 1996.]
- Lithops lesliei** cv. **Fred's Redhead** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 48, 1996. [Dated 1995, publ. Jan. 1996. Published subordinate to var. *lesliei*.]
- Lithops localis** cv. **Violetta** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 48, 1996. [Dated 1995, publ. Jan. 1996.]
- Lithops marmorata** cv. **Polepský Smaragd** Pavelka, *Cactaceae etc.* 6(1): 26, ill. (p. 24), 1996.
- Lithops olivacea** cv. **Red Olive** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 50, fig. 69 (p. 72), 1996. [Dated 1995, publ. Jan. 1996. Published subordinate to var. *nebrowii*.]
- Lithops pseudotruncatella** cv. **Split Pea** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 47, 1996. [Dated 1995, publ. Jan. 1996. Published subordinate to ssp. *archerae*.]
- Lithops schwantesii** cv. **Bluemoon** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 49, 1996. [Dated 1995, publ. Jan. 1996. Published subordinate to var. *rugosa*.]
- Lithops vallis-mariae** cv. **Valley Girl** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 49, 1996. [Dated 1995, publ. Jan. 1996.]
- Lithops verruculosa** cv. **Rose of Texas** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 49-50, 1996. [Dated 1995, publ. Jan. 1996.]
- Lithops verruculosa** cv. **Verdigris** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 47, 1996. [Dated 1995, publ. Jan. 1996.]
- Mitrophyllum minimum* S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 43, fig. 61 (p. 65), 1996. Based on *Hammer* 1294. *Nom. inval.* (Art. 34.1b). [Dated 1995, publ. Jan. 1996. Published as provisional name.]
- Mitrophyllum narogense* S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 43, fig. 62 (p. 65), 1996. Based on *Hammer* 1953. *Nom. inval.* (Art. 34.1b). [Dated 1995, publ. Jan. 1996. Published as provisional name.]
- Odontophorus pusillus** S. A. Hammer, *Piante Grasse* 15(4: Suppl.): 86, fig. 83 (p. 80), 1996. Typus: *Van Jaarsveld* 11461 (BOL). [Dated 1995, publ. Jan. 1996.]
- Phyllobolus amabilis** Gerbaulet & Struck, *Haseltonia* 4: 24-26, ill., 1996. Typus: *Hammer* 1405 (BOL).
- Phyllobolus chrysophthalmus** Gerbaulet & Struck, *Haseltonia* 4: 25-26, ill., 1996. Typus: *Gerbaulet et Struck* 24733 (BOL).
- Phyllobolus gariopensis** Gerbaulet & Struck, *Haseltonia* 4: 25-26, ill., 1996. Typus: *Jürgens* 93620 (BOL).
- Polymita steenbokensis** H. E. K. Hartmann, *Bradleya* 14: 42, ill., pl. IIg (p. 52), 1996. Typus: *Hartmann et Bayer* 00.32 (HBG).
- Prenia englishiae** (L. Bolus) Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 30, 1996. Basionym: *Mesembryanthemum englishiae*.
- Prenia pallens** ssp. **lancea** (Thunberg) Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 32, 1996. Basionym: *Mesembryanthemum lanceum*.
- Prenia pallens** ssp. **lutea** Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 32, 1996. Typus: *Hall* in *BOL* 25281 (BOL) [Incorrectly given as lectotype.]. [Attributed to L. Bolus 1954 who in fact published the taxon as variety. Interpreted as new name with direct reference to a previously published latin diagnosis.]
- Prenia pallens** ssp. **namaquensis** Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 34, 1996. Typus: *Gerbaulet et Struck* 24916 (BOL).
- Prenia radicans** (L. Bolus) Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 34, 1996. Basionym: *Aridaria radicans*.
- Prenia tetragona** (Thunberg) Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 36, 1996. Basionym: *Mesembryanthemum tetragonum*.
- Psammophora saxicola** H. E. K. Hartmann, *Bradleya* 14: 44, ill., pl. IIIc (p. 53), 1996. Typus: *Hartmann et Dehn* 15052 (HBG).
- Ruschia scabra** H. E. K. Hartmann, *Bradleya* 14: 46, ill., pl. IIIId (p. 53), 1996. Typus: *Hartmann et al.* 31718 (HBG).
- Sceletium exalatum** Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 17, 1996. Typus: *Struck* 186 (STE).
- Sceletium varians** (Haworth) Gerbaulet, *Bot. Jahrb. Syst.* 118(1): 20, 1996. Basionym: *Mesembryanthemum varians*.
- Stoeberia porphyrea** H. E. K. Hartmann, *Bradleya* 14: 51, pl. IIIa-b (p. 53), 1996. Typus: *Hartmann* 32668 (HBG).
- Tetragonia coronata** D. Rye & Trudgen, *Nuytsia* 10(3): 459-462, ill., 1996. Typus: *Trudgen* 8000 (PERTH, CANB, MEL).

ALOACEAE

- Aloe carnea** S. Carter, *Kew Bull.* 51(4): 784-785, 1996. Typus: *Leach et Wild* 11135 (K, LISC, PRE, SRGH).
- Aloe collina** S. Carter, *Kew Bull.* 51(4): 781-782, 1996. Typus: *Leach* 269 (K, B, LISC, SRGH).
- Aloe eumassawana** S. Carter & al., *Kew Bull.* 51(4): 776, 1996. Typus: *Ash* 1816 (K).
- Aloe fimbrialis** S. Carter, *Kew Bull.* 51(4): 779-781, ill., 1996. Typus: *Fanshawe* 8938 (K, SRGH).
- Aloe inyangensis** var. **kimberleyana** S. Carter, *Kew Bull.* 51(4): 777-779, ill., 1996. Typus: *Carter et al.* 2702 (K, SRGH).
- Aloe menyharthii** ssp. **ensifolia** S. Carter, *Kew Bull.* 51(4): 783-784, 1996. Typus: *Leach et Rutherford-Smith* 10876 (K, SRGH).
- Haworthia venusta** C. L. Scott, *Bradleya* 14: 87-88, ill., 1996. Typus: *Britten* 781 (GRA).

APOCYNACEAE

Pachypodium inopinatum Lavranos, Cact. Succ. J. (US) 68(4): 171-176, ills., 1996. Typus: *Rööslé et Hoffmann* 4693 (ZSS, HEID, P, TAN, WAG).

ASCLEPIADACEAE

Brachystelma burchellii (Decaisne) Peckover, Aloe 33(2-3): 43, 1996. Basionym: *Macropetalum burchellii*.

Brachystelma chloranthum (Schlechter) Peckover, Aloe 33(2-3): 43, 1996. Basionym: *Tenaris chlorantha*.

Brachystelma codonanthum Bruyns, Bothalia 25(2): 157-158, ills., 1995. Typus: *Bruyns* 5518 (BOL).

Brachystelma filifolium (Schlechter) Peckover, Aloe 33(2-3): 43, 1996. Basionym: *Macropetalum filifolium*.

Brachystelma gymnopodium (Schlechter) Bruyns, Bothalia 25(2): 161, 1995. Basionym: *Ceropegia gymnopoda*.

Brachystelma maritae Peckover, Cact. Succ. J. (US) 68(1): 3-5, ills., 1996. Typus: *Specks* MES419 (PRE). [Collector of the type erroneously stated to be R. G. Peckover.]

Brachystelma megasepalum Peckover, Kakt. and. Sukk. 47(12): 249-252, ills., 1996. Typus: *Specks* 385 (PRE).

Brachystelma pellacibellum L. E. Newton, Bradleya 14: 97, ills. (p. 95), 1996. Typus: *Powys* s.n. sub *Newton* 4230 (K, EA).

Brachystelma recurvatum Bruyns, Bothalia 25(2): 156-157, ills., 1995. Typus: *Bruyns* 5486 (BOL, K, WIND).

Brachystelma rubellum (E. Meyer) Peckover, Aloe 33(2-3): 43, 1996. Basionym: *Tenaris rubella*.

Brachystelma schultzei (Schlechter) Bruyns, Bothalia 25(2): 162, 1995. Basionym: *Kinipetalum schultzei*.

Ceropegia hermannii Rauh & M. Teissier, Succulentas 19(4): 22-25, ills., 1996. Typus: *Petignat* 455 (HEID). [Sphalm. 'hermanni'.]

Cynanchum aculeatum (Descoings) Liede & Meve, Novon 6(1): 59, ills. (p. 60), 1996. Basionym: *Prosopostelma aculeatum*.

Cynanchum ansamalense Liede, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 112-114, ills., 1996. Typus: *Rauh* 21850 (HEID).

Cynanchum appendiculatopsis Liede, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 114-116, ills., 1996. Typus: *Bosser* 16816 (P).

Cynanchum folotsioides Liede & Meve, Novon 6(1): 60-63, fig. 2, 1957. Typus: *Rauh* 21847 (K, MSUN).

Cynanchum hardyi Liede & Meve, Novon 6(1): 63, fig. 3 (p. 62), 1996. Typus: *Hardy et Jacobsen* 3571 (K, MSUN, PRE).

Cynanchum lineare ssp. *keraudreniae* Liede, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 108, fig. 2 (p. 107), 1996. Typus: *Keraudren* 1594 (P).

Cynanchum luteifluens var. *longicoronae* Liede, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 118-119, ills., 1996. Typus: *Keraudren* 306 (P).

Cynanchum mevei Liede, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 120-123, ills., 1996. Typus: *Liede et Conrad* 2780 (MO, MSUN, TAN).

Cynanchum nematostemma Liede, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 123, ills. (p. 124), 1996. Typus: *Perrier* 13227 (P). [Nom. nov. pro *Nematostemma perrieri* Choux 1921 (non *Cynanchum perrieri* Choux 1914).]

Cynanchum petignatii Liede & Rauh, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 126-128, ills., 1996. Typus: *Decary* 9011 (P).

Cynanchum phillipsonianum Liede & Meve, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 109-111, ills., map, 1996. Typus: *Bardot-Vaucoulon* 40 (P).

Cynanchum sigridiae Meve & M. Teissier, Bradleya 14: 10-13, ills., 1996. Typus: *Teissier* 135 (K, MSUN).

Folotsia ambovombensis Liede, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 130-132, ills., 1996. Typus: *Decary* 8374 (P). [Sphalm. 'ambovombense'. Based on the unpublished name *Cynanchum ambovombense* Choux.]

Folotsia humbertii Liede, Bull. Mus. Nation. Hist. Nat., Sect. B, Adansonia 18(1-2): 132-135, ills., 1996. Typus: *Humbert et Capuron* 29382 (P).

Hoya sect. **Angustialatus** C. M. Burton, Hoya 17(3: Part 2): 17, 1996. Typus: *Hoya flavescens* Schlechter. "Tentatively published" according to l.c. 18(2: Part 2): 12, 1996, and thus perhaps invalid under Art. 34.1b.

Hoya sect. **Ecarinatus** C. M. Burton, Hoya 18(2: Part 2): 10, 1996. Typus: *Hoya wightii* Hooker fil. "Tentatively published" according to l.c. 18(2: Part 2): 12, 1996, and thus perhaps invalid under Art. 34.1b.

Hoya sect. **Latiretinacula** C. M. Burton, Hoya 17(3: Part 2): 17-18, 1996. Typus: *Hoya griffithii* Hooker fil. "Tentatively published" according to l.c. 18(2: Part 2): 12, 1996, and thus perhaps invalid under Art. 34.1b.

Hoya sect. **Pachystelma** C. M. Burton, Hoya 18(2: Part 2): 9, 1996. Typus: *Hoya mindorensis* Schlechter. "Tentatively published" according to l.c. 18(2: Part 2): 12, 1996, and thus perhaps invalid under Art. 34.1b.

Hoya sect. **Pseudopterostelma** C. M. Burton, Hoya 17(3: Part 2): 17, 1996. Typus: *Hoya albiflora* (Zippelius ex Blume) Boerlage. "Tentatively published" according to l.c. 18(2: Part 2): 12, 1996, and thus perhaps invalid under Art. 34.1b.

- Hoya** subsect. **Lactisuccus** C. M. Burton, Hoya 17(3: Part 2): 14, 1996. Typus: *Hoya pottsii* J. Traill. "Tentatively published" according to l.c. 18(2): Part 2): 12, 1996, and thus perhaps invalid under Art. 34.1b.
- Hoya crassicaulis** Elmer ex Kloppenburg, Fraterna 1995(3): 10-13, ills., 1996. Typus: *Elmer* 14440 (BO, UC). [Dated 1995, publ. spring 1996. Based on a nude name by Elmer.]
- Hoya parasitica** var. **hendersonii** Kiew, Sandakania 6: 66-67, 1995. Typus: *Henderson* SFN23668 (SING). [Republished in Fraterna 1996(2): 7-8, 1996.]
- Hoya telosmoides** Omlor, Novon 6(3): 289-294, ills., 1996. Typus: *Clemens* 29828 (BM, K, NY).
- Hoya verticillata** var. **citrina** (Ridley) Veldkamp, Blumea 41(2): 440, 1996. Basionym: *Hoya citrina*. [Repeated by Kloppenburg, Fraterna 1996(2): 9, (3): 10.]
- Hoya verticillata** var. **hendersonii** (Ridley) Veldkamp, Blumea 41(2): 440, 1996. Basionym: *Hoya parasitica* var. *hendersonii*. [Repeated by Kloppenburg, Fraterna 1996(2): 9, (3): 10.]
- Hoya wallichii** (Wight) C. M. Burton, Hoya 18(1: Part 2): 5, 1996. Basionym: *Physostelma wallichii*.
- Karimbolea macrantha** (Jumelle & H. Perrier) Liede & Meve, Brittonia 48(4): 502, ills. (p. 503), 1996. Basionym: *Cynanchum macranthum*.
- Raphionacme haeneliae** Venter & Verhoeven, South Afr. J. Bot. 62(6): 316-320, ills., 1996. Typus: *Haenel* s.n. (K).
- Sarcostemma viminale** ssp. **odontolepis** (Balfour fil.) Meve & Liede, Bot. J. Linn. Soc. 120(1): 31, ills. (p. 26), 1996. Basionym: *Sarcostemma odontolepis*.
- Sarcostemma viminale** ssp. **stipitaceum** (Forsskål) Meve & Liede, Bot. J. Linn. Soc. 120(1): 32, ills. (p. 33), 1996. Basionym: *Asclepias stipitacea*.
- Sarcostemma viminale** ssp. **suberosum** Meve & Liede, Bot. J. Linn. Soc. 120(1): 35-36, ills., 1996. Typus: *Kirk* 97 (K).

ASPHODELACEAE

- Bulbine fragilis** G. Williamson, Haseltonia 4: 13-15, 17, ills., 1996. Typus: *Williamson et Hammer* 5411 (NBG).
- Bulbine francescae** G. Williamson & Baijnath, South Afr. J. Bot. 61(6): 312-314, ills., 1995. Typus: *Williamson* 4711 (NBG).
- Bulbine lamprophylla** G. Williamson, Bradleya 14: 84-86, ills., 1996. Typus: *Williamson et Hammer* 5707 (NBG).
- Bulbine pendens** G. Williamson & Baijnath, South Afr. J. Bot. 61(6): 316-319, ills., 1995. Typus: *Williamson* 4738 (NBG).
- Bulbine quartzicola** G. Williamson, Haseltonia 4: 19-21, ills. (p. 16), 1996. Typus: *Williamson*

- et Hammer* 5416 (NBG).
- Bulbine torsiva** G. Williamson, Haseltonia 4: 21, ills. (p. 17, 20), 1996. Typus: *Williamson et Hammer* 5420 (NBG).
- Bulbine truncata** G. Williamson, Haseltonia 4: 19, ills. (p. 15, 20), 1996. Typus: *Williamson et Hammer* 5415 (NBG).
- Bulbine vitrea** G. Williamson & Baijnath, South Afr. J. Bot. 61(6): 314-316, ills., 1995. Typus: *Williamson* 4471 (NBG).
- Bulbine vittatifolia** G. Williamson, Haseltonia 4: 21-22, ills. (p. 18, 20), 1996. Typus: *Williamson* 5527 (NBG).

ASTERACEAE

- Senecio** cv. **Hippogriff** G. D. Rowley, Brit. Cact. Succ. J. 14(2): 93-94, ills., 1996. [= *Senecio articulatus* × *S. rowleyanus*. Based on *Kleinia* × *peregrina* Kunkel 1988. Repeated in Bradleya 14: 83, ill., 1996.]
- Senecio mweruensis** fa. **schwartzii** (L. E. Newton) G. D. Rowley, Bradleya 14: 83, 1996. Basionym: *Kleinia schwartzii*.
- Senecio tuberosus** var. **pubescens** (Mesfin) G. D. Rowley, Bradleya 14: 83, 1994. Basionym: *Solanecio tuberosus* var. *pubescens*.

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- Anredera aspera** Sperling, Phytologia 79(1): 3, 1996. Typus: *Sperling et King* 5412 (GH, LPB). [Dated July 1995, received at Z March 1996.]
- Anredera ramosa** ssp. **aurea** R. Eriksson, in Harling, G. & Andersson, L. (eds.), Fl. Ecuador 55: 83, ills. (p. 82), 1996. Typus: *Harling et Andersson* 14435 (GB).

BOMBACACEAE

- Adansonia gibbosa** (A. Cunningham) Guymer ex D. A. Baum, Ann. Missouri Bot. Gard. 82(3): 454, 1995. Basionym: *Capparis gibbosa*.

CACTACEAE

- Cephalocereus royenii** fa. **cristatus** P. V. Heath, Calyx 5(3): 104, 1996. Typus: [icon] Cact. Succ. J. (US) 68: 74, fig. 7, 1996. [Name first used by Evanich (*nom. nud.*) and also based on *Pilosocereus royenii* 'Cristatus' Trager & Kimmnach 1996.]
- Cipocereus fissuratus* Lodé, Fichier Encycl. Cact. autres Succ. sér. 17: No. 1587, ill., 1996. Based on *Lodé* 86112. *Nom. inval.* (Art. 34.1b). [Published as provisional name.]

- Cleistocactus acanthurus** var. **faustianus** (Backeberg) Ostolaza, Brit. Cact. Succ. J. 14(4): 171, 1996. Basionym: *Borzicactus faustianus*.
- Cleistocactus acanthurus** var. **pullatus** (Rauh & Backeberg) Ostolaza, Brit. Cact. Succ. J. 14(4): 171, 1996. Basionym: *Loxanthocereus pullatus*.
- Cleistocactus xylorhizus** (F. Ritter) Ostolaza, Brit. Cact. Succ. J. 14(4): 170, 1996. Basionym: *Loxanthocereus xylorhizus*.
- Consolea moniliformis** ssp. **guantanamana** Areces, Brittonia 48(2): 225-230, 1996. Typus: *Areces* 3111 (MNHN, NY).
- Consolea nashii** ssp. **gibarensis** Areces, Brittonia 48(2): 231-234, ill., 1996. Typus: *Areces* 4266 (MNHN, NY).
- Coryphantha muehlenfordtii** ssp. **robustispina** (Schott ex Engelmann) Dicht, Kakt. and. Sukk. 47(5): 98, 1996. Basionym: *Mammillaria robustispina*.
- Coryphantha muehlenfordtii** ssp. **uncinata** (L. Benson) Dicht, Kakt. and. Sukk. 47(5): 98, 1996. Basionym: *Coryphantha scheeri* var. *uncinata*.
- Denmoza rhodacantha** var. **diamantina** Slaba, Kaktusy 32(4): 98-103, ill., 1996. Typus: *Slaba* s.n. (PRC 4692).
- Discocactus crassispinus** ssp. **araguiensis** P. J. Braun & E. Esteves Pereira, Kakt. and. Sukk. 47(9): 192-196, ill., 1996. Typus: *Esteves Pereira* 50 (UFG 13005).
- Discocactus hartmannii** ssp. **giganteus** P. J. Braun & E. Esteves Pereira, Succulenta 75(6): 260-262, ill., 1996. Typus: *Braun* 219 (ZSS).
- Discocactus aurantiacus** var. **blomianus** (Kimmach) E. Meier, Kakt. and. Sukk. 48(1): 7, 1996. Basionym: *Heliocereus aurantiacus* var. *blomianus*. [Dated 1997, publ. late Dec. 1996.]
- × **Disophyllum** cv. **Floribundum** (Kimmach) Kimmach, Epiphytes 20(78): 30, 1996. Basionym: *Epiphyllum floribundum*.
- Echinocereus ortegae** ssp. **koehresianus** (G. R. W. Frank) W. Rischer & G. R. W. Frank, Echinocereenfreund 9(4): 100, ill., 1996. Basionym: *Echinocereus scheeri* var. *koehresianus*.
- Echinocereus polyacanthus** ssp. **mombergerianus** (G. R. W. Frank) Breckwoldt, Echinocereenfreund 9(Sonderheft): 15, 1996. Basionym: *Echinocereus mombergerianus*.
- Echinocereus polyacanthus** ssp. **pacificus** (Engelmann) Breckwoldt, Echinocereenfreund 9(Sonderheft): 15, 1996. Basionym: *Cereus phoeniceus* var. *pacificus*.
- Echinopsis** cv. **Galaxy** Trager & Kimmach, Cact. Succ. J. (US) 68(2): 71, fig. 2 (p. 72), 1996. [Of complex descent from "Paramount" hybrids, created by B. Schick, California, USA.]
- Echinopsis** cv. **Gold Emblem** Trager & Kimmach, Cact. Succ. J. (US) 68(2): 71, fig. 3 (p. 72), 1996. [= *Echinopsis* 'Forty Niner' × *E.* 'Orange Glory', produced by B. Schick, California, USA.]
- Echinopsis** cv. **Princess Ann** Trager & Kimmach, Cact. Succ. J. (US) 68(2): 72, fig. 4, 1996. [Of complex descent, produced by B. Schick, California, USA. Sphalm. 'Princess Anne' (Trager in litt. April 1996).]
- Echinopsis** cv. **Purple Haze** Trager & Kimmach, Cact. Succ. J. (US) 68(2): 72, fig. 5, 1996. [Of complex descent, produced by M. Dimmitt, Arizona, USA.]
- Echinopsis** cv. **Vanguard** Trager & Kimmach, Cact. Succ. J. (US) 68(2): 72, 1996. [= *Echinopsis* sp. × *E.* 'Stars and Stripes', produced by B. Schick, California, USA.]
- Echinopsis arachnacantha** cv. **Gusto** M. Holmes, Cact. Succ. J. (Woollahra) 20(6): 104-105, ill., 1996. [Derived from an unspecified cross; with bicoloured flowers.]
- Echinopsis huotii** ssp. **vallegrandensis** (Cárdenas) G. Navarro, Lazaroa 17: 50, 1996. Basionym: *Echinopsis vallegrandensis*.
- Echinopsis obrepanda** ssp. **calorubra** (Cárdenas) G. Navarro, Lazaroa 17: 50, 1996. Basionym: *Echinopsis calorubra*.
- Echinopsis obrepanda** ssp. **tapecuana** (F. Ritter) Navarro, Lazaroa 17: 51, 1996. Basionym: *Echinopsis tapecuana*.
- Echinopsis pentlandii** ssp. **hardeniana** (Bödeker) G. Navarro, Lazaroa 17: 53, 1996. Basionym: *Lobivia hardeniana*.
- Echinopsis pentlandii** ssp. **larae** (Cárdenas) G. Navarro, Lazaroa 17: 53, 1996. Basionym: *Lobivia laeae*.
- Echinopsis pugionacantha** ssp. **rossii** (Bödeker) G. Navarro, Lazaroa 17: 53, 1996. Basionym: *Echinopsis rossii*. [The name cited as basionym is itself a combination, which is here treated as bibliographical error and corrected.]
- Emorycactus** Doweld, Succulenta 75(6): 270, 1996. Typus: *Echinocactus polycephalus* Engelmann & Bigelow.
- Emorycactus parryi** (Engelmann) Doweld, Succulenta 75(6): 270, 1996. Basionym: *Echinocactus parryi*.
- Emorycactus polycephalus** (Engelmann & Bigelow) Doweld, Succulenta 75(6): 270, 1996. Basionym: *Echinocactus polycephalus*.
- Emorycactus xeranthemoides** (J. M. Coulter) Doweld, Succulenta 75(6): 270, 1996. Basionym: *Echinocactus polycephalus* var. *xeranthemoides*.
- Escobaria missouriensis** ssp. **navajoensis** Hochstätter, Succulenta 75(6): 256-258, ill., 1996. Typus: *Hochstätter* 1000 p.p. (HBG). [Repeated in Kaktusblüte 1997: 6-8, ill.]
- Glandulicactus mathssonii* (Berge) Wozniak, Swiat Kakt. 30: 10, 1996. *Nom. inval.* (Art. 33.2), based on *Echinocactus mathssonii*.
- Gymnocalycium gibbosum** fa. **crebriforme** (Spegazzini) Papsch, Gymnocalycium 9(4): 201, 1996. Basionym: *Echinocactus gibbosum* var. *crebriformis*. [Sphalm. 'crebriformis'.]
- Gymnocalycium gibbosum** ssp. **ferox** (Labouret ex Rümpler) Papsch, Gymnocalycium 9(4):

- 201, 1996. Basionym: *Echinocactus gibbosus* var. *ferox*.
- Gymnocalycium gibbosum** var. **brachypetalum** (Spegazzini) Papsch, *Gymnocalycium* 9(4): 201, 1996. Basionym: *Gymnocalycium brachypetalum*.
- Gymnocalycium gibbosum** var. **chubutense** (Spegazzini) Papsch, *Gymnocalycium* 9(4): 201, 1996. Basionym: *Echinocactus gibbosus* var. *chubutensis*.
- Gymnocalycium spegazzinii** ssp. **cardenasianum** (F. Ritter) R. Kiesling & Metzger, *Darwiniana* 34(1-4): 404, 1996. Basionym: *Gymnocalycium cardenasianum*.
- Gymnocalycium stellatum** ssp. **occultum** Fric ex H. Till & W. Till, *Gymnocalycium* 9(2): 176, ills., 1996. Typus: *Neuhuber* 91-461/1478 (WU). [Based on *Gymnocalycium occultum* Fric ex Schütz 1962, *nom. inval.*]
- Gymnocalycium stellatum** var. **flavispinum** Bozsing ex H. Till & W. Till, *Gymnocalycium* 9(1): 172, ills., 1996. Typus: *Till* 88-225/2530 (WU). [Based on *G. quehlianum* var. *flavispinum* Bozsing in Backeberg 1959 (*nom. inval.*, Art. 37.1.)]
- Gymnocalycium stellatum** var. **kleinianum** Rausch ex H. Till & W. Till, *Gymnocalycium* 9(1): 171, ills., 1996. Typus: *Till* 88-116/1710 (WU). [First used as nude name by Rausch, Verzeichnis der Sammelnummern, for *Rausch* 103b, 1975.]
- Gymnocalycium stellatum** var. **obductum** (Piltz) H. Till & W. Till, *Gymnocalycium* 9(1): 174, ills., 1996. Basionym: *Gymnocalycium obductum*.
- Gymnocalycium stellatum** var. **zantnerianum** (Schick) H. Till & W. Till, *Gymnocalycium* 9(1): 169, ills., 1996. Basionym: *Gymnocalycium quehlianum* var. *zantnerianum*.
- Haageocereus acranthus** fa. **rubriflorior** (Rauh & Backeberg) Ostolaza, *Brit. Cact. Succ. J.* 14(4): 167, 1996. Basionym: *Haageocereus olowinskianus* var. *rubriflorior*.
- Haageocereus pseudomelanosteles** var. **aureispinus** (Rauh & Backeberg) Ostolaza, *Brit. Cact. Succ. J.* 14(4): 170, 1996. Basionym: *Haageocereus aureispinus*.
- Harrisia pomanensis** ssp. **regelii** (Weingart) R. Kiesling, *Darwiniana* 34(1-4): 395, 1996. Basionym: *Cereus regelii*.
- Heliocereus schrankii** var. **helenae** (Scheinvar) Kimmach, 68(4): 217, 1996. Basionym: *Heliocereus elegantissimus* var. *helenae*.
- Heliocereus schrankii** var. **stenopetalus** (Bravo) Kimmach, 68(4): 217, 1996. Basionym: *Heliocereus elegantissimus* var. *stenopetalus*.
- Lophophora diffusa** var. **koehresii** Riha, *Kaktusy Köhres* 2809 (PRC 11449). [First mentioned as provisional name l.c. 31(4): 120, 1995.]
- Lophophora fricii* var. *decepiens* P. Hansen, *Kakt. and. Sukk.* 47(12): 271, 1996. *Nom. inval.* (Art. 34.1b). [Published as provisional name.]
- Lophophora williamsii* fa. *jourdaniana* (Habermann) P. Hansen, *Kakt. and. Sukk.* 47(12): 271, 1996. *Nom. inval.* (Art. 34.1b), based on *Lophophora jourdaniana*. [Published as provisional name.]
- Maihuenioideae** P. Fearn, *Rev. Orig. Cact. Fam.*, [69-70], 1996. Typus: *Maihuenia* (F. A. C. Weber) K. Schumann.
- Mammillaria luethyi** G. S. Hinton, *Phytologia* 80(1): 58-61, ills., 1996. *Hinton et al.* 25771 (Herb. G. B. Hinton).
- Mammillaria sphaclata** fa. **viperina** (J. A. Purpus) Battaia & Zanovello, *Piante Grasse* 16(1): 18-19, ills., 1996. Basionym: *Mammillaria viperina*.
- Meyeroactus** Doweld, *Succulenta* 75(6): 271, 1996. Typus: *Echinocactus horizonthalonius* Lemaire.
- Meyeroactus horizonthalonius** (Lemaire) Doweld, *Succulenta* 75(6): 271, 1996. Basionym: *Echinocactus horizonthalonius*.
- Notocactus* ser. *Holkospermae* Prestlé, *Minimus* 27(4): 39, 1996. *Nom. inval.* (Art. 36.1, 37.1).
- Notocactus* ser. *Leiospermae* Prestlé, *Minimus* 27(4): 39, 1996. *Nom. inval.* (Art. 36.1, 37.1).
- Notocactus alacriportanus* fa. *hamatacanthus* Prestlé, *Minimus* 27(4): 44-47, ills., 1996. *Nom. inval.* (Art. 37.4, 37.5). [Given as 'spec. nova' and 'nom. prov'.]
- Notocactus concinnus* var. *durispinus* hort. ex Prauser, *Internoto* 17(2): 44-46, ills., 1996. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Notocactus concinnus* var. *pororensis* van Vliet ex M. Dumont, *Internoto* 17(3): 100-101, ills., 1996. *Nom. inval.* (Art. 34.1a, 36.1). [Published as provisional name and probably used previously.]
- Notocactus gracilis* (F. Ritter) Gemmrich, *Internoto* 17(3): 98, 1996. *Nom. inval.* (Art. 34.1b), based on *Notocactus glaucinus* var. *gracilis*. [Published as provisional name.]
- Notocactus langsdorffii** fa. **eddievarasii** Gerloff, *Minimus* 25(2): 5-9, ills., 1996. *Waras* 34 (HAS 32884). [Dated 1994, received at ZSS 1996. First published as provisional name in *Internoto* 1482: 77-78, ills., 1993 (cf. RPS 44).]
- Notocactus minusculus** Hofacker & Herm, *Internoto* 17(3): 75-79, ills., 1996. Typus: *Hofacker* 71 (ZSS, PACA).
- Notocactus obscurus* Prestlé, *Internoto* 17(2): 66-69, ills., 1996. Based on *Prestlé* 81a. *Nom. inval.* (Art. 36.1, 37.4). [Published as provisional name.]
- Notocactus ottonis* subvar. *rubrispinus* Prestlé, *Minimus* 27(2): 25-27, ills., 1996. Based on *Prestlé* 686. *Nom. inval.* (Art. 36.1, 37.1). [Name probably already used previously.]
- Opuntia albicarpa* Scheinvar, in Barbera, G. & al. (eds.): *Agro-ecology, cultivation and uses of cactus pear*, 22, pl. 5, 1995. Based on *Scheinvar* 6077. *Nom. inval.* (Art. 36.1).
- Opuntia apurimacensis** (F. Ritter) R. Crook & Mottram, *Bradleya* 13: 100, 1995. Basionym: *Platyopuntia apurimacensis*. [First used as synonym by F. Ritter, *Kakt. Südamer.* 4: 1257,

- 1981.]
Opuntia atroglobosa (Backeberg ex F. Ritter) R. Crook & Mottram, *Bradleya* 13: 106, 1995. *Nom. inval.*, based on *Platyopuntia atroglobosa*, *nom. inval.* (Art. 9.5). [Nomenclatural status not assessed. The basionym given is treated as validation of *Tephrocactus atroglobosus* Backeberg 1962 by the combining authors.]
- Opuntia basilaris*** cv. ***Cristata*** (Walton) R. Crook & Mottram, *Bradleya* 13: 111, 1995. Basionym: *Opuntia basilaris* fa. *cristata*.
- Opuntia brachyacantha*** (F. Ritter) R. Crook & Mottram, *Bradleya* 13: 115, 1995. Basionym: *Platyopuntia brachyacantha*. [Name first used by F. Ritter, *Kakt. Südamer.* 2: 501, 1980 (*nom. inval.*, Art. 34.1(a)).]
- Opuntia californica*** var. ***parkeri*** (J. M. Coulter) Pinkava, *Haseltonia* 4: 103, 1996. Basionym: *Opuntia echinocarpa* var. *parkeri*.
- Opuntia clavarioides*** cv. ***'Cristata'*** (Schelle) R. Crook & Mottram, *Bradleya* 14: 110, 1996. Basionym: *Opuntia clavarioides* fa. *cristata*.
- Opuntia elata*** var. ***obovata 'Oblongata'*** (E. Walther) R. Crook & Mottram, *Bradleya* 14: 140, 1996. Basionym: *Opuntia elata* var. *oblongata*.
- Opuntia ganderi*** (C. B. Wolf) Pinkava, *Haseltonia* 4: 103, 1996. Basionym: *Opuntia acanthocarpa* ssp. *ganderi*.
- Opuntia violacea* var. *azurea* (Rose) Lodé, *Fichier Encycl. Cact. autres Succ. sér.* 17, no. 1576, ill., 1996. *Nom. inval.* (Art. 33.2, 43.1), based on *Opuntia azurea*.
- Oreocereus doelzianus*** var. ***sericatus*** (F. Ritter) J. Lodé, *Fichier Encycl. Cact. autres Succ. Sér.* 17, no. 1583, ill., 1996. Basionym: *Morawetzia sericata*.
- Pilosocereus royenii*** cv. ***Cristatus*** Trager & Kimmach, *Cact. Succ. J. (US)* 68(2): 73, fig. 7 (p. 74), 1996.
- Rebutia atrovirens*** (Backeberg) Sida, *Atlas Kakt.* 10: 40, 1996. Basionym: *Lobivia atrovirens*. [Dated 1995, publ. 1996.]
- Rebutia steinmannii* var. *brachyantha* (Wessner) Pilbeam, *Cact. File* 10(2): 18, 1996. *Nom. inval.* (Art. 33.2), based on *Lobivia brachyantha*.
- Rebutia steinmannii* var. *camargoensis* (Rausch) Pilbeam, *Cact. File* 10(2): 18, 1996. *Nom. inval.* (Art. 33.2), based on *Rebutia camargoensis*.
- Rebutia steinmannii* var. *christinae* (Rausch) Pilbeam, *Cact. File* 10(2): 18, 1996. *Nom. inval.* (Art. 33.2), based on *Rebutia christinae*.
- Rebutia steinmannii* var. *costata* (Werdermann) Pilbeam, *Cact. File* 10(2): 18, 1996. *Nom. inval.* (Art. 33.2), based on *Rebutia costata*.
- Rebutia steinmannii* var. *parvula* (Rausch) Pilbeam, *Cact. File* 10(2): 18, 1996. *Nom. inval.* (Art. 33.2), based on *Lobivia steinmannii* var. *parvula*.
- Rebutia steinmannii* var. *rauschii* (Zecher) Pilbeam, *Cact. File* 10(2): 18, 1996. *Nom. inval.* (Art. 33.2), based on *Rebutia rauschii*.
- Rhipsalis baccifera*** ssp. ***fasciculata*** (Willdenow) Süplie, *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 9(9): 136-137, ill., 1996. Basionym: *Cactus fasciculatus*.
- Rhipsalis brevispina*** (Barthlott) Kimmach, *Cact. Succ. J. (US)* 68(3): 156, 1996. Basionym: *Lepismium brevispinum*.
- Rhipsalis epiphylloides*** var. ***bradei*** (Campos-Porto & A. Castellanos) Kimmach, *Cact. Succ. J. (US)* 68(3): 156, 1996. Basionym: *Hariota epiphylloides* var. *bradei*.
- Rhipsalis herminiae*** (Campos-Porto & A. Castellanos) Kimmach, *Cact. Succ. J. (US)* 68(3): 156, 1996. Basionym: *Hariota herminiae*.
- Rhipsalis houletiana*** var. ***regnellii*** (G. Lindberg) Kimmach, *Cact. Succ. J. (US)* 68(3): 156, 1996. Basionym: *Rhipsalis regnellii*.
- Rhipsalis lumbricoides*** var. ***aculeata*** (F. A. C. Weber) Kimmach, *Cact. Succ. J. (US)* 68(3): 156, 1996. Basionym: *Rhipsalis aculeata*.
- Rhipsalis miyagawae*** (Barthlott & Rauh) Kimmach, *Cact. Succ. J. (US)* 68(3): 156, 1996. Basionym: *Pfeiffera miyagawae*.
- Rhipsalis salicinioides*** var. ***cylindrica*** (Britton & Rose) Kimmach, *Cact. Succ. J. (US)* 68(3): 156, 1996. Basionym: *Hattiora cylindrica*.
- Schlumbergera*** cv. ***Bristol Flame*** McMillan, *Epiphytes* 20(77): 23-24, ill., 1996. [= *Schlumbergera truncata* cv. *Weihnachtsfreude* × *S. orssichiana*.]
- × *Stenillocactus* P. V. Heath, *Calyx* 5(3): 102, 1996. *Nom. illeg.* (Art. 52.1). [= *Stenocactus* × *Myrtillocactus*; pre-dated by the validly published *Myrtillocereus* G. D. Rowley 1982.]
- × *Stenillocactus* nsect. *Insillocactus* P. V. Heath, *Calyx* 5(3): 102, 1996. *Nom. inval.* (Art. 43.1). [= *Myrtillocactus* sect. *Myrtillocactus* × *Stenocereus* subgen. *Isolatocereus* ('Insulatocereus').]
- × *Stenillocactus glassii* (P. V. Heath) P. V. Heath, *Calyx* 5(3): 102, 1996. *Nom. inval.* (Art. 43.1), based on × *Rathbunillocactus glassii*.
- Stenocereus*** subgen. ***Grisolatocereus*** P. V. Heath, *Calyx* 5(3): 101, 1996. Typus: No type needed. Sphalm. 'Grisulatocereus'. = *Stenocereus* subgen. *Griseocereus* × *Stenocereus* subgen. *Isolatocereus* ('Insulatocereus'); parent taxa erroneously cited as sections and here corrected.
- Stenocereus*** subgen. ***Rittellicereus*** P. V. Heath, *Calyx* 5(3): 101, 1996. Typus: No type needed. = *Stenocereus* subgen. *Nigellicerus* × *Stenocereus* subgen. *Ritterocereus*.
- Stenocereus*** subgen. ***Griseocereus*** P. V. Heath, *Calyx* 5(3): 101, 1996. Typus: Not indicated. *Nom. nov. pro Cereus* ser. *Pruinosi* K. Schumann 1897.
- Stenocereus*** subgen. ***Hertrichocereus*** (Backeberg) P. V. Heath, *Calyx* 5(3): 100, 1996. Basionym: *Hertrichocereus*.
- Stenocereus*** subgen. ***Isolatocereus*** (Backeberg) P. V. Heath, *Calyx* 5(3): 101, 1996. Basionym: *Lemaireocereus* subgen. *Isolatocereus*.

- [Subgeneric epithet incorrectly changed to 'Insulatocereus']
- Stenocereus** subgen. **Machaerocereus** (Britton & Rose) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Machaerocereus*.
- Stenocereus** subgen. **Nigellocereus** P. V. Heath, Calyx 5(3): 100, 1996. Typus: Not indicated. *Nom. nov. pro Cereus* ser. *Chlorotini* K. Schumann 1897.
- Stenocereus** subgen. **Ritterocereus** (Backeberg) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Ritterocereus*.
- Stenocereus alamosensis** fa. **cristatus** (P. V. Heath) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Rathbunia alamosensis* fa. *cristata*.
- Stenocereus alamosensis** var. **sonorensis** (K. Schumann) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Cereus sonorensis*.
- Stenocereus beneckei** fa. **cristatus** (P. V. Heath) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Rathbunia beneckei* fa. *cristata*.
- Stenocereus griseus* fa. **cristatus** (P. V. Heath) P. V. Heath, Calyx 5(3): 101, 1996. *Nom. inval.*, based on *Rathbunia grisea* fa. *cristata*, *nom. inval.* (Art. 9.5).
- Stenocereus griseus** var. **monstruosus** (De Candolle) P. V. Heath, Calyx 5(3): 101, 1996. Basionym: *Cereus eburneus* var. *monstruosus*.
- Stenocereus gummosus** fa. **cristatus** (P. V. Heath) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Rathbunia gummosa* fa. *cristata*.
- Stenocereus gummosus** fa. **tortuosus** (P. V. Heath) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Rathbunia gummosa* fa. *tortuosa*.
- Stenocereus laevigatus** var. **schumannii** (Mathsson ex K. Schumann) P. V. Heath, Calyx 5(3): 101, 1996. Basionym: *Cereus schumannii*.
- Stenocereus thurberi** fa. **cristatus** (P. V. Heath) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Rathbunia thurberi* fa. *cristata*.
- Stenocereus thurberi** fa. **dichotomus** (P. V. Heath) P. V. Heath, Calyx 5(3): 100, 1996. Basionym: *Rathbunia thurberi* fa. *dichotoma*.
- Stenocereus yunckeri** (Standley) P. V. Heath, Calyx 5(3): 101, 1996. Basionym: *Cereus yunckeri*. [Combination first cryptically suggested by Bravo & Sánchez Mejorada, Cact. Suc. Mex. 28: 92, 1983.]
- Strombocactus disciformis** ssp. **esperanzae** Glass & S. Arias, Brit. Cact. Succ. J. 14(4): 200-204, ill., 1996. Typus: *Glass et Arias* 8710 (Herb. CANTE, MEXU).
- Strombocactus jarmilae** Halda, Cactaceae etc. 6(3): 83-86, ill., 1996. Typus: *Halda* s.n. (PR 11472).
- Strombocactus pulcherrimus** Halda, Cactaceae etc. 6(3): 88-91, ill. (incl. p. 81), 1996. Typus: *Halda* s.n. (PR 11473).
- Sulcorebutia steinbachii* fa. **bicolorispina** (Knize ex Pilbeam) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.*, based on *Sulcorebutia tiraquensis* var. *bicolorispina*, *nom. inval.* (Art. 37.1). [Published as provisional name.]
- Sulcorebutia steinbachii* fa. **tiraquensis** (Cárdenas) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Rebutia tiraquensis*. [Published as provisional name.]
- Sulcorebutia steinbachii* ssp. **tiraquensis** (Cárdenas) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Rebutia tiraquensis*. [Published as provisional name.]
- Sulcorebutia steinbachii* subvar. **aguilarii** Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b, 36.1). [Sphalm. 'aguilari'. Published as provisional name.]
- Sulcorebutia steinbachii* subvar. **augustinii** (Hentzschel) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Sulcorebutia augustinii*. [Published as provisional name.]
- Sulcorebutia steinbachii* subvar. **epizanensis** Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Sulcorebutia steinbachii* subvar. **lepida** (F. Ritter) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Sulcorebutia lepida*. [Published as provisional name.]
- Sulcorebutia steinbachii* subvar. **longiseta** (Cárdenas) Gertel, Inform.-brief Freundeskreis Echinopseen No. 22: 26, 1996. *Nom. inval.* (Art. 33.2), based on *Rebutia tiraquensis* var. *longiseta*.
- Sulcorebutia steinbachii* subvar. **oenantha** (Rausch) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Sulcorebutia oenantha*. [Published as provisional name.]
- Sulcorebutia steinbachii* subvar. **pampagrlandensis** (Rausch) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Sulcorebutia pampagrlandensis*. [Published as provisional name.]
- Sulcorebutia steinbachii* subvar. **polymorpha** (Cárdenas) Gertel, Inform.-brief Freundeskreis Echinopseen No. 22: 26, 1996. *Nom. inval.* (Art. 33.2), based on *Rebutia polymorpha*.
- Sulcorebutia steinbachii* subvar. **totorensis** (Cárdenas) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Rebutia totorensis*. [Published as provisional name.]
- Sulcorebutia steinbachii* var. **krahnii** (Rausch) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Sulcorebutia krahnii*. [Published as provisional name.]
- Sulcorebutia steinbachii* var. **lepida** (F. Ritter) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Sulcorebutia lepida*. [Published as provisional name.]
- Sulcorebutia steinbachii* var. **tiraquensis** (Cárdenas) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on

- Rebutia tiraquensis*. [Published as provisional name.]
- Sulcorebutia steinbachii* var. *totorensis* (Cárdenas) Gertel, Kakt. and. Sukk. 47(6): 139, 1996. *Nom. inval.* (Art. 34.1b), based on *Rebutia totorensis*. [Published as provisional name.]
- Sulcorebutia steinbachii* var. *tunariensis* (Cárdenas) Gertel, Inform.-brief Freundeskreis Echinopseer No. 22: 26, 1996. *Nom. inval.* (Art. 33.2), based on *Rebutia tunariensis*.
- Thelocactus hexaedrophorus* var. *decipiens* (A. Berger) Pilbeam, *Thelocactus*, 29, 1996. *Nom. inval.* (Art. 33.2), based on *Echinocactus hexaedrophorus* var. *decipiens*.
- Thelocactus hexaedrophorus* var. *droegeanus* (Hildmann ex K. Schumann) Pilbeam, *Thelocactus*, 29, 1996. *Nom. inval.* (Art. 33.2), based on *Echinocactus droegeanus*.
- Thelocactus hexaedrophorus* var. *labouretianus* (K. Schumann) Pilbeam, *Thelocactus*, 30, 1996. *Nom. inval.* (Art. 33.2), based on *Echinocactus hexaedrophorus* var. *labouretianus*.
- Thelocactus hexaedrophorus* var. *paradensis* hort. ex Pilbeam, *Thelocactus*, 31, 1996. *Nom. inval.* (Art. 36.1, 37.1). [Used as nude name and probably first used elsewhere.]
- Thelocactus hexaedrophorus* var. *roseus* (Labouret) Pilbeam, *Thelocactus*, 31, 1996. *Nom. inval.* (Art. 33.2), based on *Echinocactus hexaedrophorus* var. *roseus*. [Used as informal name only.]
- Thelocactus hexaedrophorus* var. *subcostatus* (Salm-Dyck) Pilbeam, *Thelocactus*, 31, 1996. *Nom. inval.* (Art. 33.2), based on *Echinocactus hexaedrophorus* var. *subcostatus*. [Used as informal name only.]
- Thelocactus setispinus** var. **cachetianus** (Labouret) Pilbeam, *Thelocactus*, 42, 1996. Basionym: *Echinocactus setispinus* var. *cachetianus*. [Doubtfully accepted and therefore probably invalid under Art. 34.1a.]
- Thelocactus setispinus** var. **hamatus** (Mühlenpfordt) Pilbeam, *Thelocactus*, 42, 1996. Basionym: *Echinocactus hamatus*. [Doubtfully accepted and therefore probably invalid under Art. 34.1a.]
- Thelocactus setispinus** var. **mierensis** (K. Schumann) Pilbeam, *Thelocactus*, 42, 1996. Basionym: *Echinocactus setispinus* var. *mierensis*. [Doubtfully accepted and therefore probably invalid under Art. 34.1a.]
- Thelocactus setispinus** var. **muehlenpfordtii** (Fennel) Pilbeam, *Thelocactus*, 42, 1996. Basionym: *Echinocactus muehlenpfordtii*. [Sphalm. 'muehlenpfordtii'. The name given as basionym is itself a combination. It is here treated as bibliographical error and corrected. Doubtfully accepted and therefore perhaps invalid under Art. 34.1a.]
- Thelocactus setispinus** var. **orcuttii** (K. Schumann) Pilbeam, *Thelocactus*, 42, 1996. Basionym: *Echinocactus setispinus* var. *orcuttii*. [Doubtfully accepted and therefore perhaps invalid under Art. 34.1a.]
- perhaps invalid under Art. 34.1a.]
- Turbincarpus alonsoi** Glass & S. Arias, Kakt. and. Sukk. 47(2): 25-27, ills., 1996. Typus: *Glass et García Luna ALGA024* (Herb. CANTE San Miguel de Allende).
- Turbincarpus booleanus** G. S. Hinton, *Phytologia* 80(1): 62-65, ill., 1996. Typus: *Hinton et al.* 21805 (TEX, CANTE, ENCB, Herb. G. B. Hinton). [Partly translated and republished in Kakt. and. Sukk. 48(7): 145-147, 1997.]
- Turbincarpus mombergeri** Ríha, *Kaktusy* 32(2): 54-58, ills., SEM-ills., 1996. Typus: *Anonymus* s.n. (PRC 11447). [German translation in *Kaktusblüte* 1997: 15-19, ills.]
- Turbincarpus pseudomacrolele** fa. **minimus** (G. Frank) Zachar & al., *Rod Turbinicarpus*, 69, 1996. Basionym: *Turbincarpus krainzianus* fa. *minimus*.
- Turbincarpus pseudopectinatus** cv. **Barbara** Lux & Staník, in Zachar et al., *Rod Turbinicarpus*, 32, ill., 1996.
- Turbincarpus schmiedickeanus** var. **panarottoi** Ríha, *Kaktusy* 32(1): 25-27, ills., SEM-ills., 1996. Typus: *Anonymus* s.n. (PRC 1146).
- Turbincarpus schmiedickeanus* var. *polaskii* (Backeberg) Zachar & al., *Rod Turbinicarpus*, 47, 1996. *Nom. inval.*, based on *Turbincarpus polaskii*, *nom. inval.* (Art. 37.1).
- Turbincarpus valdezianus* var. *albiflorus* (Pazout) Zachar & al., *Rod Turbinicarpus*, 42, ills., 1996. *Nom. inval.*, based on *Pelecophora valdeziana* var. *albiflora*, *nom. inval.* (Art. 37.1).

CRASSULACEAE

- Crassula** cv. **Alice Herbert** M. Holmes, *Cact. Succ. J. (Woollahra)* 20(7): 128-129, ill., 1996. [= *Crassula tomentosa* var. *tomentosa* × *Crassula* 'Coralita' [= *C. susannae* × *C. perfoliata* var. *falcata*].]
- Echeveria agavoides** cv. **Cristata** Trager & Kimnach, *Cact. Succ. J. (US)* 68(2): 78, 1996.
- × **Graptoveria** cv. **Accolade** M. Holmes, *Cact. Succ. J. (Woollahra)* 20(4): 68-70, ills., 1996. [= *Echeveria globulosa* × *Graptopetalum pentandrum* ssp. *superbum*.]
- Hylotelephium decumbens** (Lucé) Byalt, *Bot. Zhurn. (Moscow & Leningrad)* 80(11): 34-36, 1995. Basionym: *Sedum decumbens*.
- Sedum** cv. **Alice Evans** R. Stephenson, *Sedum Soc. Newslett.* No. 38: 27, pl. 5: D, 1996. [A hybrid probably involving *Sedum lucidum* and perhaps *S. clavatum* or *S. cuspidatum*.]
- Sedum** cv. **Frosty Morn** S. W. Thompson, *Sedum Soc. Newslett.* No. 37: 18, 1996. [Introduced by Barry Yinger, and probably published previously.]
- Sedum album** cv. **Bella d'Inverno** Tavormina, *Sedum Soc. Newslett.* No. 37: 19, 1996. [Spontaneous garden sport with yellow-variegated young leaves.]

- Sedum booleanum** B. L. Turner, *Phytologia* 79(1): 31-34, ills., 1996. Typus: *Hinton et al.* 20468 (TEX). [Dated July 1995, received at Z March 1996.]
- Sedum candolleianum** Raymond-Hamet ex G. López, *Anales Jard. Bot. Madrid* 52: 221, 1995. [Dated 1994, publ. 1995. Unnecessary *nom. nov. pro Cotyledon sedoides* De Candolle 1808 (see *Taxon* 46(2): 328, 1997).]
- Sedum catorce** G. L. Nesom, *Phytologia* 79(4): 264, 1996. Typus: *Clausen* 772.028 (BH). [Dated 1995, publ. 1996. *Nom. nov. pro Sedum parvum* ssp. *dendroides* R. T. Clausen 1978, non *Sedum dendroides* De Candolle.]
- Sedum copalense** Kimmach, *Cact. Succ. J. (US)* 68(5): 241-244, ills., 1996. Typus: *Baker et al.* 7194c (HNT, MEXU).
- Sedum dasyphyllum** cv. **Luigi Pirandello** Tavormina, *Sedum Soc. Newslett.* No. 37: 19, 1996. [Crested offspring from the cross *S. dasyphyllum* var. *glanduliferum* × *S. dasyphyllum* var. *burnatii*.]
- Sedum diminutum** (R. T. Clausen) G. L. Nesom, *Phytologia* 79(4): 261, 1996. Basionym: *Sedum parvum* ssp. *diminutum*. [Dated 1995, publ. 1996.]
- Sedum dulcinomen** G. L. Nesom, *Phytologia* 79(4): 265, 1996. Typus: *Meyer et Rogers* 2699 (BH). [Dated 1995, publ. 1996.]
- Sedum eriocarpum* ssp. *apertiflorum* 't Hart, *Ot Sist. Bot. Dergisi* 2(2): 7, 1996. Based on 't Hart 25001. *Nom. inval.* (Art. 37.5). [Dated 1995, publ. 1996.]
- Sedum eriocarpum** ssp. *caricum* (Carlström) 't Hart, *Ot Sist. Bot. Dergisi* 2(2): 8, 1996. Basionym: *Sedum caricum*. [Dated 1995, publ. 1996.]
- Sedum eriocarpum** ssp. *delicum* (Vierhapper) 't Hart, *Ot Sist. Bot. Dergisi* 2(2): 7, 1996. Basionym: *Sedum rubens* ssp. *delicum*. [Dated 1995, publ. 1996.]
- Sedum eriocarpum** ssp. *epiroticum* (Baldacci) 't Hart, *Ot Sist. Bot. Dergisi* 2(2): 7, 1996. Basionym: *Sedum annuum* ssp. *epiroticum*. [Dated 1995, publ. 1996.]
- Sedum eriocarpum* ssp. *orientale* 't Hart, *Ot Sist. Bot. Dergisi* 2(2): 8-9, 1996. Based on *van Ham* 39.1. *Nom. inval.* (Art. 37.5). [Dated 1995, publ. 1996.]
- Sedum eriocarpum** ssp. *porphyreum* (Boissier) 't Hart, *Ot Sist. Bot. Dergisi* 2(2): 8, 1996. Basionym: *Sedum porphyreum*. [Dated 1995, publ. 1996.]
- Sedum eriocarpum* ssp. *spathulifolium* 't Hart, *Ot Sist. Bot. Dergisi* 2(2): 7-8, 1996. Based on 't Hart 27104. *Nom. inval.* (Art. 37.5). [Dated 1995, publ. 1996.]
- Sedum goldmanii** (Rose) Moran, *Haseltonia* 4: 46, 1996. Basionym: *Altamiranoa goldmanii*.
- Sedum jinianum** X. H. Guo, *Acta Bot. Yunnan.* 18(3): 297-298, 1996. Typus: *Guo* 94054 (ANUB, KUN).
- Sedum jurgensenii** (Hemsley) Moran, *Haseltonia* 4: 46, 1996. Basionym: *Cotyledon jurgensenii*.

- Sedum litoreum* var. *creticum* 't Hart, *Ot Sist. Bot. Dergisi* 2(2): 3, 1996. Based on 't Hart 27274. *Nom. inval.* (Art. 37.5). [Dated 1995, publ. 1996.]
- Sedum macdonaldii** G. L. Nesom, *Phytologia* 79(4): 266, 1996. Typus: *McDonald* 2135 (TEX, MEXU, BH). [Dated 1995, publ. 1996.]
- Sedum papillicaulum** G. L. Nesom, *Phytologia* 79(4): 265-266, 1996. Typus: *Hinton et al.* 17551 (TEX). [Dated 1995, publ. 1996.]
- Sedum rupestre** cv. **Sea Gold** Tavormina, *Sedum Soc. Newslett.* No. 37: 19, 1996. [Probably first published previously.]
- Sedum scopulinum** (Rose) Moran, *Haseltonia* 4: 46, 1996. Basionym: *Altamiranoa scopulina*.

DRACAENACEAE

- Sansevieria** cv. **Tarzana** Chahinian, *Sansevieria J.* 5(1): 33-34, ills., 1996. [= *Sansevieria fischeri* × *S. cylindrica* var. *cylindrica*.]
- Sansevieria hallii** Chahinian, *Sansevieria J.* 5: 7-10, ills., 1996. Typus: *Hall* 67/799 (MO, UPS).

EUPHORBACEAE

- Euphorbia astrophora** Marx, *Cact. Succ. J. (US)* 68(6): 311-314, ills., 1996. Typus: *Marx* 204 (GRA) [Ex cult.].
- Euphorbia cremersii** var. **rakotozafyi** (Cremers) Rauh, *Succ. Xerophyt. Pl. Madag.*, 172, 1995. Basionym: *Euphorbia francoisii* var. *rakotozafyi*. [Sphalm. 'rakatozafyi'.]
- Euphorbia suzannae-marnierae** Rauh & Petignat, *Succulentes* 19(4): 10-14, ills., 1996. Typus: *Petignat* 397 (HEID). [Sphalm. 'suzannae-marnierae' (Art. 60.11).]
- Tirucallia aequoris** (N. E. Brown) P. V. Heath, *Calyx* 5(3): 87, 1996. Basionym: *Euphorbia aequoris*.
- Tirucallia alata** (Hooker) P. V. Heath, *Calyx* 5(3): 87, 1996. Basionym: *Euphorbia alata*.
- Tirucallia alluaudii** (Drake) P. V. Heath, *Calyx* 5(3): 87, 1996. Basionym: *Euphorbia alluaudii*.
- Tirucallia alluaudii** ssp. **onoclada** (Drake) P. V. Heath, *Calyx* 5(3): 87, 1996. Basionym: *Euphorbia onoclada*.
- Tirucallia amarifontana** (N. E. Brown) P. V. Heath, *Calyx* 5(3): 87, 1996. Basionym: *Euphorbia amarifontana*.
- Tirucallia angrae** (N. E. Brown) P. V. Heath, *Calyx* 5(3): 87, 1996. Basionym: *Euphorbia angrae*.
- Tirucallia antisiphilitica** (Zuccarini) P. V. Heath, *Calyx* 5(3): 87, 1996. Basionym: *Euphorbia antisiphilitica*.
- Tirucallia aphylla** (Willdenow) P. V. Heath, *Calyx* 5(3): 87, 1996. Basionym: *Euphorbia aphylla*.

- Tirucallia arbuscula** (Balfour *fil.*) P. V. Heath, Calyx 5(3): 87, 1996. Basionym: *Euphorbia arbuscula*.
- Tirucallia arceuthoboides** (Boissier) P. V. Heath, Calyx 5(3): 87, 1996. Basionym: *Euphorbia arceuthoboides*.
- Tirucallia aspericaulis** (Pax) P. V. Heath, Calyx 5(3): 88, 1996. Basionym: *Euphorbia aspericaulis*.
- Tirucallia berotica** (N. E. Brown) P. V. Heath, Calyx 5(3): 88, 1996. Basionym: *Euphorbia berotica*.
- Tirucallia bottae** (Boissier) P. V. Heath, Calyx 5(3): 88, 1996. Basionym: *Euphorbia bottae*.
- Tirucallia brachiata** (Klotzsch) P. V. Heath, Calyx 5(3): 88, 1996. Basionym: *Arthrothamnus brachiatus*.
- Tirucallia burmannii** (E. Meyer *ex* Boissier) P. V. Heath, Calyx 5(3): 88, 1996. Basionym: *Arthrothamnus burmannii*. [Sphalm. 'burmanni'.]
- Tirucallia calamiformis** (P. R. O. Bally & S. Carter) P. V. Heath, Calyx 5(3): 88, 1996. Basionym: *Euphorbia calamiformis*.
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- Tirucallia ephedroides** var. *debilis* (L. C. Leach) P. V. Heath, Calyx 5(3): 90, 1996. Basionym: *Euphorbia ephedroides* var. *debilis*.
- Tirucallia ephedroides** var. *imminuta* (L. C. Leach & G. Williamson) P. V. Heath, Calyx 5(3): 90, 1996. Basionym: *Euphorbia ephedroides* var. *imminuta*.
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- Tirucallia gentilis** (N. E. Brown) P. V. Heath, Calyx 5(3): 90, 1996. Basionym: *Euphorbia gentilis*.
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- Tirucallia gossypina** (Pax) P. V. Heath, Calyx 5(3): 90, 1996. Basionym: *Euphorbia gossypina*.
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- Tirucallia gregaria** (Marloth) P. V. Heath, Calyx 5(3): 90, 1996. Basionym: *Euphorbia gregaria*.
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- Tirucallia intisy** (Drake) P. V. Heath, Calyx 5(3): 90, 1996. Basionym: *Euphorbia intisy*.
- Tirucallia juttae** (Dinter) P. V. Heath, Calyx 5(3): 90, 1996. Basionym: *Euphorbia juttae*. [Epithet incorrectly changed to 'judithae' on linguistic grounds.]
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- Tirucallia mauritanica** (Linné) P. V. Heath, Calyx 5(3): 91, 1996. Basionym: *Euphorbia mauritanica*.
- Tirucallia mixta** (N. E. Brown) P. V. Heath, Calyx 5(3): 91, 1996. Basionym: *Euphorbia mixta*.
- Tirucallia muricata** (Thunberg) P. V. Heath, Calyx 5(3): 91, 1996. Basionym: *Euphorbia muricata*.
- Tirucallia negromontana** (N. E. Brown) P. V. Heath, Calyx 5(3): 91, 1996. Basionym: *Euphorbia negromontana*.
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- Tirucallia rectirama** (N. E. Brown) P. V. Heath, Calyx 5(3): 92, 1996. Basionym: *Euphorbia rectirama*.
- Tirucallia rhombifolia** (Boissier) P. V. Heath, Calyx 5(3): 92, 1996. Basionym: *Euphorbia rhombifolia*.
- Tirucallia rhombifolia** var. **cymosa** (Klotzsch & Garcke ex N. E. Brown) P. V. Heath, Calyx 5(3): 92, 1996. Basionym: *Arthrothamnus cymosus*.
- Tirucallia rudolfii** (N. E. Brown) P. V. Heath, Calyx 5(3): 92, 1996. Basionym: *Euphorbia rudolfii*. [Epithet incorrectly changed to 'rudolphi' on linguistic grounds.]
- Tirucallia sarcostemmatoides** (Dinter) P. V. Heath, Calyx 5(3): 92, 1996. Basionym: *Euphorbia sarcostemmatoides*.
- Tirucallia schimperi** (Presl) P. V. Heath, Calyx 5(3): 92, 1996. Basionym: *Euphorbia schimperi*.
- Tirucallia spartaria** (N. E. Brown) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia spartaria*.
- Tirucallia spicata** (Boissier) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia spicata*.
- Tirucallia spinea** (N. E. Brown) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia spinea*.
- Tirucallia stapelioides** (Boissier) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia stapelioides*.
- Tirucallia stenoclada** (Baillon) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia stenoclada*.
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- Tirucallia tenax** (Burchell) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia tenax*.
- Tirucallia tirucalli** (Linné) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia tirucalli*.
- Tirucallia transvaalensis** (Schlechter) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia transvaalensis*.
- Tirucallia verruculosa** (N. E. Brown) P. V. Heath, Calyx 5(3): 93, 1996. Basionym: *Euphorbia verruculosa*.
- Tirucallia virgata** (Haworth) P. V. Heath, Calyx 5(3): 93-94, 1996. Basionym: *Euphorbia virgata*.
- Tirucallia virgata** var. **berthelotii** (Bolle ex Boissier) P. V. Heath, Calyx 5(3): 94, 1996. Basionym: *Euphorbia berthelotii*.
- Tirucallia virgata** var. **despoliata** (Menezes) P. V. Heath, Calyx 5(3): 94, 1996. Basionym: *Euphorbia obtusifolia* var. *despoliata*. [Sphalm. 'desfoliata'.]
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- Tirucallia virgata** var. **regis-jubae** (Webb & Berthelot) P. V. Heath, Calyx 5(3): 94, 1996. Basionym: *Euphorbia regis-jubae*.
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