



I O S

**Repertorium  
Plantarum  
Succulentarum  
XXXVIII (1987)**





# Repertorium Plantarum Succulentarum XXXVIII (1987)

*Index nominum novarum plantarum succulentarum anno MCMLXXXVII  
editorum nec non bibliographia taxonomica ab U. Egli et N. P. Taylor  
compositus.*

International Organization for Succulent Plant Study  
Internationale Organisation für Sukkulentenforschung

May 1989

### 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 of K, Z, ZSS 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 one of 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. 7 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 or illegitimate names, the articles of the ICBN which have been contravened are indicated in brackets.
- 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 given in the nomenclatural section and 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 for 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 K, 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. 7, und in Taxon publizierten Supplementen] der publizierten Hintelegungsorte für Holotyp [1. Abkürzung] und Isotypen). Ungültige oder illegitime 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.
- 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 nach Bibliographia Periodicorum Huntianum.

Compiled by: / Zusammengestellt von:

U. Eggli, Städtische Sukkulente-Sammlung, Mythenquai 88, CH-8002 Zürich, Switzerland; and  
N. P. Taylor, Herbarium, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3EA, U.K.

Available from (incl. all back issues): / Erhältlich durch (inkl. alle bereits erschienenen Hefte):  
Städtische Sukkulente-Sammlung (adress above / Adresse siehe oben).

© by IOS, Zürich (Switzerland) 1989.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of the copyright holder.

Alle Rechte vorbehalten. Kein Teil dieser Publikation darf ohne das vorherige schriftliche Einverständnis des Copyright-Inhabers in irgendeiner Form reproduziert, photokopiert oder auf Datenträgern bzw. in Datenbanken gespeichert oder verbreitet werden.



## Preface

The compilers are very sorry that this issue of the 'Repertorium' is published rather late. This is partly due to the extraordinary number of new names which had to be included in this issue, partly to the fact that the Repertorium is now published directly from a newly created computerized database. Moreover, both editors had been involved in field studies for several weeks each.

As in previous years, a number of readers of the 'Repertorium' have contributed notes on errors and omissions: Thanks go to W. Spanowsky (Dresden) for a number of small corrections and two additions to previous volumes. B. Ullrich (Pforzheim) has pointed out a number of omissions from previous volumes of RPS of taxa of *Agave* and related genera, some of which are now included in the current volume. The compilers are also grateful to G. D. Rowley (Reading) for his continuing assistance with several publications which are hard to come by. We are grateful for all this assistance.

## Vorwort

Leider erscheint die vorliegende Ausgabe des 'Repertoriums' stark verspätet. Dies ist einerseits auf die ausserordentliche grosse Anzahl von Namen zurückzuführen, die im Berichtszeitraum zu verarbeiten waren. Andererseits verursachte die Umstellung auf eine computerisierte Datenbank zusätzlichen Aufwand. Schliesslich sind die beiden Redaktoren im Verlaufe des Jahres je für längere Zeit abwesend gewesen.

Auch im vergangenen Jahr haben uns einige Benutzer des 'Repertoriums' auf Fehler oder Auslassungen aufmerksam gemacht: W. Spanowsky (Dresden) hat uns freundlicherweise eine Anzahl von Fehlern in der letzten Ausgabe zur Kenntnis gebracht. B. Ullrich (Pforzheim) hat uns auf eine ganze Reihe von Auslassungen in früheren Bänden des RPS hingewiesen, die die Gattung *Agave* und verwandte Taxa betreffen. Einige der übersehenen Namen sind in die vorliegende Ausgabe aufgenommen worden. Im weiteren sind wir G. D. Rowley dankbar, dass er uns mit seiner umfassenden Bibliothek zur Verfügung gestanden ist. Wir sind für alle diese Hilfen sehr dankbar.

### Corrections to previous volumes

- Due to an absent-minded minute of one of the RPS compilers (ue), the combination *Weberocereus glaber* var. *mirandae* (Bravo-H.) Eliasson was included as superfluous in RPS 37: 7 and was attributed to Kimmach (1978). This is incorrect; Kimmach published the combination under *Werckleocereus* and apologies are offered to the combining author.
- In RPS 35: 4, *Discocactus bonitoensis* is given as basionym for the combination *D. hartmannii* var. *bonitoensis* (Buin. & Bred.) P. J. Braun, while the correct basionym is *D. hartmannii* ssp. *bonitoensis*. This cannot be taken as a new combination in itself (as advocated in *Sussex Cact. Succ. Yearbook* 1987: 19), as the introduction to the RPS clearly states that the compilers do not accept any name which may have been validated inadvertently (cf. ICBN, Art. 34.1).

### Korrekturen zu früheren Bänden

- Durch ein Versehen des einen Autors (ue) wurde die Kombination *Weberocereus glaber* var. *mirandae* (Bravo-H.) Eliasson in RPS 37: 7 als überflüssig bezeichnet und M. Kimmach (1978) zugeschrieben. Dies ist jedoch falsch; Kimmach publizierte die Kombination als *Werckleocereus*. Wir entschuldigen uns beim Autor der fälschlicherweise nicht akzeptierten Kombination.
- In RPS 35: 4 wird *Discocactus bonitoensis* als Basionym für die Kombination *D. hartmannii* var. *bonitoensis* (Buining & Brederoo) P. J. Braun angegeben, das korrekte Basionym ist aber *D. hartmannii* ssp. *bonitoensis*. Dieser Fehler führt aber nicht zur gültigen Publikation einer neuen Kombination auf Artrang (wie im *Sussex Cact. Succ. Yearbook* 1987 angenommen), denn in den Vorbemerkungen wird klar festgehalten, dass die Herausgeber keine unbemerkterweise validierten Namen anerkennen (vgl. ICBN, Art. 34.1).



## NOMINA NOVA

## AGAVACEAE

- Agave capensis* Gentry, Occ. Pap. Calif. Acad. Sci. 130: 72-73, ills. (pp. 74-76). 1978. Typus: *Gentry et Fox* 11247 (US). [Omitted from RPS so far.]
- Agave cerulata* ssp. *dentiens* (Trelease) Gentry, Occ. Pap. Calif. Acad. Sci. 130: 43. 1978. Basionym: *Agave dentiens*. [Omitted from RPS so far.]
- Agave cerulata* ssp. *nelsonii* (Trelease) Gentry, Occ. Pap. Calif. Acad. Sci. 130: 44. 1978. Basionym: *Agave nelsonii*. [Omitted from RPS so far.]
- Agave cerulata* ssp. *subcerulata* Gentry, Occ. Pap. Calif. Acad. Sci. 130: 44-48, ills. (pp. 46-47, 49). 1978. Typus: *Gentry* 10330 (US, DES, MEXU). [Omitted from RPS so far.]
- Agave deserti* ssp. *pringlei* (Engelmann ex Baker) Gentry, Occ. Pap. Calif. Acad. Sci. 130: 20. 1978. Basionym: *Agave pringlei*. [Omitted from RPS so far.]
- Agave deserti* ssp. *simplex* Gentry, Occ. Pap. Calif. Acad. Sci. 130: 22, ills. (pp. 23-24). 1978. Typus: *Gentry* 23404 (US, ARIZ, DES, MEXU). [Omitted from RPS so far.]
- Agave gigantensis* Gentry, Occ. Pap. Calif. Acad. Sci. 130: 63-67, ills. (pp. 65-66, 68). 1978. Typus: *Gentry et McGill* 23320 (US, DES, MEXU, SD). [Omitted from RPS so far.]
- Agave moranii* Gentry, Occ. Pap. Calif. Acad. Sci. 130: 58, ills. (59-61). 1978. Typus: *Gentry et McGill* 23287 (US, DES, SD). [Omitted from RPS so far.]
- Agave shawii* ssp. *goldmaniana* (Trelease) Gentry, Occ. Pap. Calif. Acad. Sci. 130: 93. 1978. Basionym: *Agave goldmaniana*. [Combination repeated in *Agaves* Cont. North Amer., 642 (1982), see RPS 33: 5.]
- Agave sobria* ssp. *frailensis* Gentry, Occ. Pap. Calif. Acad. Sci. 130: 54-56, ills. 1978. Typus: *Gentry et Cech* 11264 (US). [Omitted from RPS so far.]
- Agave sobria* ssp. *roseana* (Trelease) Gentry, Occ. Pap. Calif. Acad. Sci. 130: 54. 1978. Basionym: *Agave roseana*. [Omitted from RPS so far.]
- Agave vizcainoensis* Gentry, Occ. Pap. Calif. Acad. Sci. 130: 67-69, ills. 1978. Typus: *Gentry* 7469 (US, ARIZ, DES, DS, MEXU). [Omitted from RPS so far.]

## AIZOACEAE

- Lithops karasmontana* var. *aiaisensis* (De Boer) Cole, Madoqua Mem. 1: 42. 1987. Basionym: *Lithops erniana* var. *aiaisensis*.
- Lithops pseudotruncatella* var. *riehmerae* D. T. Cole, Madoqua Mem. 1: 45, 38, ills. (pl. 9: 5-6). 1987. Typus: *D. T. Cole* C097 (PRE). [First mentioned and illustrated without formal

description in *Aloe* 21(2): 28-29, 1984.]

## ALOEACEAE

- Aloe chortolirioides* var. *woolliana* (Pole Evans) Glen & Hardy, South Afr. J. Bot. 53(6): 489. 1987. Basionym: *Aloe woolliana*.
- Aloe cooperi* ssp. *pulchra* Glen & Hardy, Flow. Pl. Afr. 49(3-4): pl. 1944, 4 pp. of text, map. 1987. Typus: *Harrison* 980 (PRE).
- Aloe fouriei* Hardy & Glen, Flow. Pl. Afr. 49(3-4): pl. 1941, 2 pp. of text. 1987. Typus: *Fourie* 3070 (PRE).
- Aloe greatheadii* var. *davyana* (Schönland) Glen & Hardy, South Afr. J. Bot. 53(6): 490. 1987. Basionym: *Aloe davyana*.
- Aloe hardyi* Glen, Flow. Pl. Afr. 49(3-4): pl. 1942, 3 pp. of text. 1987. Typus: *Fourie* 3252 (PRE).
- Aloe marlothii* ssp. *orientalis* Glen & Hardy, Flow. Pl. Afr. 49(3-4): pl. 1943, 2 pp. of text. 1987. Typus: *Plowes* 2260 (PRE, LISC, SRGH).
- Aloe striata* ssp. *karasbergensis* (Pillans) Glen & Hardy, South Afr. J. Bot. 53(6): 491. 1987. Basionym: *Aloe karasbergensis*.
- Aloe striata* ssp. *komaggasensis* (Kritzing & van Jaarsveld) Glen & Hardy, South Afr. J. Bot. 53(6): 491. 1987. Basionym: *Aloe komaggasensis*.
- Astroloba herrei* cv. *Dodsoniana* (Uitewaal *pro sp.*) Groen, Succulenta 66(4): 85, ills. (p. 84). 1987. Basionym: *Astroloba dodsoniana*.
- Astroloba muricata* Groen, Succulenta 66(4): 86, ills. (p. 84). 1987. Based on *Reinecke* 18. *Nom. inval.* (Art. 36.1). [*Nom. prov.*]
- Astroloba spiralis* cv. 'Pentagona' (Aiton *pro var.*) Groen, Succulenta 66(9): 171, ill. (p. 172). 1987. Basionym: *Aloe spiralis* var. *pentagona*.
- Astroloba spiralis* ssp. *foliolosa* (Haworth) Groen, Succulenta 66(7/8): 162, ills. (p. 165). 1987. Basionym: *Aloe foliolosa*.
- × *Astroworthia skinneri* (A. Berger) Groen, Succulenta 66(12): 261, ill. 1987. Basionym: *Apicra skinneri*. [First published by Pilbeam in *Haworthia* & *Astroloba*, 153, 1983, but not accepted by him (Art. 34.1).]
- Gasteria vlokii* van Jaarsveld, Cact. Succ. J. (US) 58(4): 170-174, ills. 1987. Typus: *Vlok* 880 (NBG).

## ASCLEPIADACEAE

- Hoya angustisepala* Burton, Hoyan 8(4: part II): a-b, ill. 1987. Typus: *Elmer* 10829 (B).
- Hoya cagayanensis* Burton, Hoyan 8(4: part II): c-d, ill. 1987. Typus: *M. Ramos* s.n. (B).
- Raphionacme elsana* Venter & Verhoeven, South Afr. J. Bot. 53(2): 177-178, ills., map. 1987.

Venter 9085 (BFLU, K, PRE).

ASPHODELACEAE

- Bulbine glauca** (Rafinesque) E. M. Watson, Fl. Austral. 45: 469. 1987. Basionym: *Nemopogon glaucum*.  
**Bulbine vagans** E. M. Watson, Fl. Austral. 45: 470. 1987. Watson 152 (CBG, AD, BRI, K).

ASTERACEAE

- Kleinia balsamica** (Dalzell & Gibson) P. Halliday, Kew Bull. 42(2): 442. 1987. Basionym: *Notonia balsamica*.  
**Notonia hebdingii** Rauh & Buchloh, Kakt. and Sukk. 38(11): 270-275, ills. 1987. Typus: *Rauh* 10485 (HEID).

CACTACEAE

- Arrojadoa polyantha** (Werdermann) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Cephalocereus polyanthus*.  
**Arthroocereus melanurus** (K. Schumann) Diers et al., Kakt. and Sukk. 38(12): 314. 1987. Basionym: *Cereus melanurus*.  
**Cereus calcirupicola** (Ritter) Rizzini, Rev. Brasil. Biol. 46: 782. 1987. Basionym: *Piptanthocereus calcirupicola*. [Vol. for 1986, publ. 1987.]  
**Cereus calcirupicola** var. **albicans** Rizzini, Rev. Brasil. Biol. 46: 784. 1987. *Rizzini et Mattos-Filho* s.n. (RB [not found]). [Vol. for 1986, publ. 1987.]  
**Cereus calcirupicola** var. **pluricostatus** (Ritter) Rizzini, Rev. Brasil. Biol. 46: 784. 1987. Basionym: *Piptanthocereus calcirupicola*. [Vol. for 1986, publ. 1987.]  
**Cleistocactus acanthurus** (Vaupel) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Cereus acanthurus*.  
**Cleistocactus aureispinus** (Ritter) D. Hunt, Bradleya 5: 92. 1987. *Nom. illeg.* (Art. 64), based on *Winteria aureispina*, *nom. inval.* (Art. 43.1 ?). [non *C. aureispinus* Fric, = *C. winteri* D. Hunt, Bradleya 6: 100, 1988.]  
**Cleistocactus fieldianus** (Britton & Rose) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Borzicactus fieldianus*.  
**Cleistocactus samaipatanus** (Cardenas) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Bolivocereus samaipatanus*.  
**Copiapoa cinerea** var. **gigantea** (Backeberg) N. P. Taylor, Bradleya 5: 92. 1987. Basionym: *Copiapoa gigantea*.  
**Disocactus buenekeri** Abraham, Kakt. and Sukk. 38(11): 282-285, ills. 1987. Typus: *Büneker* in *Abraham* 27 (KOELN).  
**Disocactus pseudolatispinus** Diers & Esteves, Kakt. and Sukk. 38(10): 242-247, ills., SEM-ills. 1987. Typus: *Esteves* 111 (KOELN).  
**Disocactus kimmachii** Rowley, Brit. Cact. Succ. J. 5(3): 84. 1987. Basionym: *Nopalxochia*

- horichii*. [*Nom. nov.* needed to avoid conflict with *Disocactus horichii* Kimmach 1979.]  
**Disocactus ramulosus** var. **angustissimus** (F. A. C. Weber) Kimmach, Cact. Succ. J. (US) 58(2): 67. 1987. Basionym: *Rhipsalis angustissima*.  
**Echinocereus nicholii** (Benson) Parfitt, Phytologia 53(3): 157-158. 1987. Basionym: *Echinocereus engelmannii* var. *nicholii*.  
**Echinopsis candicans** (Gillies ex Salm-Dyck) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Cereus candicans*.  
**Echinopsis schielliana** (Backeberg) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Lobivia schielliana*.  
**Echinopsis tegeleriana** (Backeberg) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Lobivia tegeleriana*.  
**Echinopsis thionantha** (Spegazzini) Werdermann, Notizbl. Bot. Gart. Berlin 40(104): 264. 1931. Basionym: *Echinocactus thionanthus*. [Combination repeated by D. Hunt in Bradleya 5: 92. 1987.]  
**Ferocactus macrodiscus** var. **septentrionalis** Meyran, Cact. Suc. Mex. 32(3): 51-54, ills. 1987. Typus: *G. A. Navarro* s.n. (MEXU).  
**Gymnocalycium achirasense** Till & Schatzl ex Till, Kakt. and Sukk. 38(8): 191. 1987. Typus: *Genser* B21 (WU). [First published invalidly (Art. 9.5) in l.c. 30(2): 25-28, ills. 1979.]  
**Gymnocalycium bayrianum** Till, Kakt. and Sukk. 38(8): 191. 1987. Typus: *Schickendantz* s.n. (WU). [First published invalidly (Art. 9.5) l.c. 18(12): 222-224, ills. 1967. Erroneously included as valid in RPS 18: 10.]  
**Gymnocalycium borthii** Koop ex Till, Kakt. and Sukk. 38(8): 191. 1987. Typus: *Borth* BO 55 (WU). [First published invalidly (Art. 9.5) in l.c. 27(2): 25-27, ills. 1976.]  
**Gymnocalycium bruchii** var. **brigittae** J. Piltz, Succulenta 66(10): 213-216, ills, SEM-ills. 1987. Typus: *Piltz* 214/3 (KOELN). [Reprinted in *Gymnos* 5(9): 30-34, 1988.]  
**Gymnocalycium horridispinum** G. Frank ex Till, Kakt. and Sukk. 38(8): 191. 1987. Typus: *Fechser* s.n. (WU). [First published invalidly (Art. 9.5) in l.c. 14(1): 8-10, ills. 1963. Included as valid in RPS 14: 7, as there is no indication in the publication that the type had not been conserved.]  
**Gymnocalycium intertextum** Backeberg ex Till, Kakt. and Sukk. 38(8): 191. 1987. Typus: *Fechser* s.n. (WU). [First published invalidly (Art. 9.5) in Backeberg, *Kakt.-Lex.*, 169, fig. 138. 1966. So far omitted from RPS.]  
**Gymnocalycium pugionacanthum** Backeberg ex Till, Kakt. and Sukk. 38(8): 191. 1987. Typus: *Fechser* s.n. (WU, WU). [First invalidly (art. 9.5) published in *Kakt.-Lex.*, 172, fig. 144, 1966. Erroneously included as valid in RPS 17: 10.]  
**Gymnocalycium schroederianum** var. **bayense** Kiesling, Cact. Succ. J. (US) 58(2): 48-49, ills. 1987. Typus: *Kiesling et Lopez* 4323 (SD). [= *Gymnocalycium bayense* Rausch *nom. nud.*]



- Gymnocalycium schroederianum** var. **paucicostatum** Kiesling, Cact. Succ. J. (US) 58(2): 49, ill. (p. 44). 1987. Typus: *Schinini et al.* 21678 (SI).
- Gymnocalycium strigianum** Jegge ex Till, Kakt. and. Sukk. 38(8): 191. 1987. Typus: *Rausch* s.n. (548 ?) (WU). [First published invalidly (Art. 9.5) in l.c. 24: 267, ill. 1973. Erroneously included as valid in RPS 14: 7.]
- Haageocereus weberbaueri** (Schumann ex Vaupel) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Cereus weberbaueri*.
- Harrisia hahniana** (Backeberg) Kimmach & Hutchison, Cact. Succ. J. (US) 58(2): 59, ill. (p. 60). 1987. Basionym: *Mediocactus hahnianus*.
- Harrisia tetracantha** (Labouret) D. Hunt, Bradleya 5: 92. 1987. Basionym: *Cereus tetracanthus*.
- Hatoria** subgen. **Rhipsalidopsis** (Britton & Rose) Barthlott, Bradleya 5: 100. 1987. Basionym: *Rhipsalidopsis*.
- Hatoria gaertneri** (Regel) Barthlott, Bradleya 5: 100. 1987. Basionym: *Epiphyllum russellianum* var. *gaertneri*.
- Hatoria** × **graeseri** (Werdermann) Barthlott, Bradleya 5: 100. 1987. Basionym: × *Rhipsaptylopsis graeseri*. [= *Hatoria gaertneri* × *H. rosea*.]
- Hatoria herminiae** (Campos-Porto & Cast.) Backeberg ex Barthlott, Bradleya 5: 100. 1987. Basionym: *Hariota herminiae*. [*Hatoria herminiae* (Campos-Porto & Castellanos) Backeberg, Die Cact. 2: 710. 1959, *nom. inval.* (Art. 33.2).]
- Hatoria rosea** (Lagerheim) Barthlott, Bradleya 5: 100. 1987. Basionym: *Rhipsalis rosea*.
- + **Hylocalycium singulare** P. V. Heath, Sussex Cact. Succ. Yearb. 1987: 46. 1987. [= graft chimaera between *Gymnocalycium mihanovichii* var. *friedrichii* 'Hibotan' and *Hylocereus undatus*.]
- Lepismium** subgen. **Acanthorhipsalis** (K. Schumann) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis* subgen. *Acanthorhipsalis*.
- Lepismium** subgen. **Lymanbensonia** (Kimmach) Barthlott, Bradleya 5: 99. 1987. Basionym: *Lymanbensonia*.
- Lepismium** subgen. **Ophiorhipsalis** (K. Schumann) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis* subgen. *Ophiorhipsalis*.
- Lepismium** subgen. **Pfeiffera** (Salm-Dyck) Barthlott, Bradleya 5: 99. 1987. Basionym: *Pfeiffera*.
- Lepismium aculeatum** (F. A. C. Weber) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis aculeata*.
- Lepismium brevispinum** Barthlott, Bradleya 5: 99. 1987. Typus: *Ritter* s.n. (fig. 1114 in F. Ritter, Kakt. Südamer. 4: 1529). [= *Acanthorhipsalis brevispina* F. Ritter 1981, *nom. inval.* (Art. 37.1).]
- Lepismium crenatum** (Britton) Barthlott, Bradleya 5: 99. 1987. Basionym: *Hariota crenata*.
- Lepismium houlettianum** (Lemaire) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis houlettiana*.
- Lepismium houlettianum** var. **regnellii** (Lindberg) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis regnellii*.
- Lepismium ianthothele** (Monville) Barthlott, Bradleya 5: 99. 1987. Basionym: *Cereus ianthothele*.
- Lepismium incachacanum** (Cardenas) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis incachacana*.
- Lepismium lorentzianum** (Grisebach) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis lorentziana*.
- Lepismium lumbricoides** (Lemaire) Barthlott, Bradleya 5: 99. 1987. Basionym: *Cereus lumbricoides*.
- Lepismium micranthum** (Vaupel) Barthlott, Bradleya 5: 99. 1987. Basionym: *Cereus micranthus*.
- Lepismium miyagawae** (Barthlott & Rauh) Barthlott, Bradleya 5: 99. 1987. Basionym: *Pfeiffera miyagawae*.
- Lepismium monacanthum** (Grisebach) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis monacantha*.
- Lepismium paranganiense** (Cardenas) Barthlott, Bradleya 5: 99. 1987. Basionym: *Acanthorhipsalis paranganiensis*.
- Lepismium warmingianum** (K. Schumann) Barthlott, Bradleya 5: 99. 1987. Basionym: *Rhipsalis warmingiana*.
- Lobivia atrovirens** var. **haefneriana** (Cullmann) Rausch, Lobivia 85, 12, ill. (p. 14). 1987. Basionym: *Mediolobivia haefneriana*.
- Lobivia atrovirens** var. **huasiensis** (Rausch) Rausch, Lobivia 85, 13. 1987. Basionym: *Aylostera huasiensis*.
- Lobivia atrovirens** var. **pseudoritteri** Rausch, Lobivia 85, 13, 137. 1987. Typus: *Rausch* 506 (ZSS). [Syn. *Rebutia ritteri* sensu Ritter (*non* Wessner), Kakt. Südamer. 2: 603. 1980.]
- Lobivia atrovirens** var. **raulii** (Rausch) Rausch, Lobivia 85, 13. 1987. Basionym: *Digitorebutia raulii*.
- Lobivia atrovirens** var. **ritteri** (Wessner) Rausch, Lobivia 85, 13. 1987. Basionym: *Lobivia ritteri*.
- Lobivia atrovirens** var. **yuncharasensis** Rausch, Lobivia 85, 13, 137. 1987. Typus: *Rausch* 91 (ZSS).
- Lobivia atrovirens** var. **yuquinensis** (Rausch) Rausch, Lobivia 85, 13. 1987. Basionym: *Digitorebutia yuquinensis*.
- Lobivia atrovirens** var. **zecheri** (Rausch) Rausch, Lobivia 85, 13. 1987. Basionym: *Aylostera zecheri*.
- Lobivia aurea** var. **callochrysea** (Ritter) Rausch, Lobivia 85, 16. 1987. Basionym: *Hymenorebutia aurea* var. *callochrysea*.
- Lobivia aurea** var. **catamarcensis** (Ritter) Rausch, Lobivia 85, 16, ill. (p. 15). 1987. Basionym: *Hymenorebutia aurea* var.

- catamarcensis*.
- Lobivia aurea** var. **sierragrandensis** Rausch, *Lobivia* 85, 17, 137, ill. (p. 138). 1987. Typus: *Rausch* 711b (ZSS).
- Lobivia aurea** var. **tortuosa** Rausch, *Lobivia* 85, 17, 137-138, ill. 1987. Typus: *Rausch* 711e (ZSS).
- Lobivia backebergii** var. **larae** (Cardenas) Rausch, *Lobivia* 85, 20, ill. (p. 19). 1987. Basionym: *Lobivia larae*.
- Lobivia calorubra** (Cardenas) Rausch, *Lobivia* 85, 21. 1987. Basionym: *Echinopsis calorubra*.
- Lobivia calorubra** var. **grandiflora** (Rausch) Rausch, *Lobivia* 85, 21. 1987. Basionym: *Lobivia pojoensis* var. *grandiflora*.
- Lobivia calorubra** var. **megaloccephala** (Rausch) Rausch, *Lobivia* 85, 21. 1987. Basionym: *Echinopsis rauschii* var. *megaloccephala*.
- Lobivia calorubra** var. **mizquensis** (Rausch) Rausch, *Lobivia* 85, 21. 1987. Basionym: *Lobivia mizquensis*.
- Lobivia calorubra** var. **pojoensis** (Rausch) Rausch, *Lobivia* 85, 21, ill. (p. 22). 1987. Basionym: *Lobivia pojoensis*.
- Lobivia cinnabarina** var. **draxleriana** (Rausch) Rausch, *Lobivia* 85, 28. 1987. Basionym: *Lobivia draxleriana*.
- Lobivia einsteinii** (Fric) Rausch, *Lobivia* 85, 28, ill. (p. 30-31). 1987. Basionym: *Rebutia einsteinii*.
- Lobivia einsteinii** var. **atrospinosa** Rausch, *Lobivia* 85, 32, 138. 1987. Typus: *Rausch* 163 (ZSS).
- Lobivia einsteinii** var. **aureiflora** (Backeberg) Rausch, *Lobivia* 85, 33, ill. (p. 34). 1987. Basionym: *Rebutia aureiflora*.
- Lobivia einsteinii** var. **elegans** (Backeberg) Rausch, *Lobivia* 85, 33. 1987. Basionym: *Mediolobivia elegans*.
- Lobivia einsteinii** var. **gonjianii** (Kiesling) Rausch, *Lobivia* 85, 32, ill. (p. 31). 1987. Basionym: *Rebutia gonjianii*. [Combination erroneously attributed to Donald, who published the combination *Rebutia einsteinii* var. *gonjianii* in 1974.]
- Lobivia euanthema** var. **tilcarensis** Rausch, *Lobivia* 85, 36, 138-139, ill. (p. 35). 1987. Typus: *Rausch* 700 (ZSS).
- Lobivia formosa** var. **bertramiana** (Backeberg) Rausch, *Lobivia* 85, 45, ill. (p. 51). 1987. Basionym: *Trichocereus bertramianus*.
- Lobivia formosa** var. **bruchii** (Britton & Rose) Rausch, *Lobivia* 85, 48, ill. (p. 46). 1987. Basionym: *Lobivia bruchii*.
- Lobivia formosa** var. **grandis** (Britton & Rose) Rausch, *Lobivia* 85, 49. 1987. Basionym: *Lobivia grandis*.
- Lobivia formosa** var. **hyalacantha** (Spegazzini) Rausch, *Lobivia* 85, 45. 1987. Basionym: *Lobivia hyalacantha*.
- Lobivia formosa** var. **kieslingii** (Rausch) Rausch, *Lobivia* 85, 48. 1987. Basionym: *Lobivia kieslingii*.
- Lobivia formosa** var. **nivalis** (Fric) Rausch, *Lobivia* 85, 45. 1987. Basionym: *Lobivia bruchii* var. *nivalis*.
- Lobivia formosa** var. **randallii** (Cardenas) Rausch, *Lobivia* 85, 45. 1987. Basionym: *Trichocereus randallii*.
- Lobivia formosa** var. **rosarioana** (Rausch) Rausch, *Lobivia* 85, 48, ill. (p. 49). 1987. Basionym: *Lobivia rosarioana*.
- Lobivia formosa** var. **tarijensis** (Vaupel) Rausch, *Lobivia* 85, 44, ill. (p. 50). 1987. Basionym: *Cereus tarijensis*.
- Lobivia formosa** var. **uebelmanniana** (Lembcke & Backeberg) Rausch, *Lobivia* 85, 48. 1987. *Nom. inval.*, based on *Soehrensia uebelmanniana*, *nom. inval.* (Art. 37.1).
- Lobivia grandiflora** var. **crassicaulis** (Kiesling) Rausch, *Lobivia* 85, 53, ill. (p. 54). 1987. Basionym: *Lobivia crassicaulis*. [Erroneously based on *Helianthocereus crassicaulis* Backeberg (*nom. inval.*, Art. 9.5), later validly described by Kiesling, and treated as bibliographic error.]
- Lobivia grandiflora** var. **herzogii** Rausch, *Lobivia* 85, 159, ill. 1987. Typus: *Rausch* 795 (ZSS).
- Lobivia grandiflora** var. **lobivioides** (Graeser & Ritter) Rausch, *Lobivia* 85, 53, ill. (p. 55). 1987. Basionym: *Trichocereus lobivioides*.
- Lobivia grandiflora** var. **longispina** Rausch, *Lobivia* 85, 53, 139, ill. (p. 138). 1987. Typus: *Rausch* 151a (ZSS).
- Lobivia grandiflora** var. **pumila** Rausch, *Lobivia* 85, 53, 139-140, ill. (p. 138). 1987. Typus: *Rausch* 758 (ZSS).
- Lobivia haagei** var. **canacruzensis** (Rausch) Rausch, *Lobivia* 85, 56. 1987. Basionym: *Digitorebutia canacruzensis*.
- Lobivia haagei** var. **crassa** Rausch, *Lobivia* 85, 56, 140, ill. (p. 139). 1987. Typus: *Rausch* 501 (ZSS).
- Lobivia haagei** var. **elegantula** Rausch, *Lobivia* 85, 57, 140. 1987. Typus: *Rausch* 502 (ZSS).
- Lobivia haagei** var. **eos** (Rausch) Rausch, *Lobivia* 85, 57. 1987. Basionym: *Digitorebutia eos*.
- Lobivia haagei** var. **mudanensis** (Rausch) Rausch, *Lobivia* 85, 57, ill. (p. 59). 1987. Basionym: *Digitorebutia mudanensis*.
- Lobivia haagei** var. **nazarenoensis** (Rausch) Rausch, *Lobivia* 85, 57, ill. (p. 59). 1987. Basionym: *Digitorebutia nazarenoensis*.
- Lobivia haagei** var. **orurensis** (Backeberg) Rausch, *Lobivia* 85, 57, ill. (p. 58). 1987. Basionym: *Lobivia orurensis*.
- Lobivia haagei** var. **pallida** (Rausch) Rausch, *Lobivia* 85, 57. 1987. Basionym: *Digitorebutia pallida*.
- Lobivia haagei** var. **pelzliana** Rausch, *Lobivia* 85, 57, 140, ill. (p. 139). 1987. Typus: *Rausch* 333a (ZSS).
- Lobivia haagei** var. **violascens** (Ritter) Rausch, *Lobivia* 85, 57. 1987. Basionym: *Rebutia violascens*.
- Lobivia haematantha** var. **chorillosensis** (Rausch) Rausch, *Lobivia* 85, 61, ill. (p. 63). 1987. Basionym: *Lobivia chorillosensis*.



- Lobivia haematantha** var. **jasimanensis** Rausch, *Lobivia* 85, 60, 140. 1987. Typus: *Rausch* 792 (ZSS).
- Lobivia haematantha** var. **rebutioides** (Backeberg) Rausch, *Lobivia* 85, 61. 1987. Basionym: *Lobivia rebutioides*.
- Lobivia haematantha** var. **viridis** Rausch, *Lobivia* 85, 60, 140-141, ill. (p. 139). 1987. Typus: *Rausch* 709a (ZSS).
- Lobivia hertrichiana** var. **laui** (Donald) Rausch, *Lobivia* 85, 65. 1987. Basionym: *Lobivia laui*. [sphalm. 'lauii'.]
- Lobivia hertrichiana** var. **simplex** (Rausch) Rausch, *Lobivia* 85, 65, ill. (p. 66). 1987. Basionym: *Lobivia simplex*.
- Lobivia huascha** var. **calliantha** (Ritter) Rausch, *Lobivia* 85, 69. 1987. Basionym: *Trichocereus callianthus*.
- Lobivia huascha** var. **robusta** Rausch, *Lobivia* 85, 72, 141. 1987. Typus: *Rausch* 229 (ZSS).
- Lobivia huascha** var. **rubriflora** (F. A. C. Weber) Rausch, *Lobivia* 85, 72. 1987. Basionym: *Cereus huascha* var. *rubriflorus*.
- Lobivia huascha** var. **walteri** (Kiesling) Rausch, *Lobivia* 85, 69, ill. (p. 67). 1987. Basionym: *Lobivia walteri*.
- Lobivia jajoiana** var. **aurata** Rausch, *Lobivia* 85, 73, 141. 1987. Typus: *Rausch* 701 (ZSS).
- Lobivia jajoiana** var. **elegans** Rausch, *Lobivia* 85, 73, 141, ill. (p. 142). 1987. Typus: *Rausch* 36 (ZSS).
- Lobivia jajoiana** var. **nidularis** Rausch, *Lobivia* 85, 76, 141, ill. (p. 142). 1987. Typus: *Rausch* 702 (ZSS).
- Lobivia jajoiana** var. **paucicostata** (Rausch) Rausch, *Lobivia* 85, 73, ill. (p. 75). 1987. *Nom. inval.* (Art. 57.1, 57.3), based on *Lobivia glauca* var. *paucicostata*.
- Lobivia jajoiana** var. **pungens** Rausch, *Lobivia* 85, 76, 141, ill. (p. 74). 1987. Typus: *Rausch* 516 (ZSS).
- Lobivia lateritia** var. **rubriflora** (Backeberg) Rausch, *Lobivia* 85; 81. 1987. *Nom. inval.*, based on *Lobivia kupperiana* var. *rubriflora*, *nom. inval.* (Art. 9.5).
- Lobivia marsoneri** var. **iridescens** (Backeberg) Rausch, *Lobivia* 85, 84, ill. (p. 83). 1987. Basionym: *Lobivia iridescens*.
- Lobivia maximiliana** var. **durispina** Rausch, *Lobivia* 85, 88, 141-142, ill. 1987. Typus: *Rausch* 204 (ZSS).
- Lobivia maximiliana** var. **sicuanensis** (Rausch) Rausch, *Lobivia* 85, 89. 1987. Basionym: *Lobivia sicuanensis*.
- Lobivia maximiliana** var. **violacea** (Rausch) Rausch, *Lobivia* 85, 88, ill. (p. 87). 1987. Basionym: *Lobivia caespitosa* var. *violacea*.
- Lobivia nigricans** var. **albspina** Rausch, *Lobivia* 85, 100, 142, ill. (p. 98). 1987. Typus: *Rausch* 771 (ZSS).
- Lobivia nigricans** var. **carmeniana** (Rausch) Rausch, *Lobivia* 85, 100, ill. (p. 98). 1987. Basionym: *Digitorebutia carmeniana*.
- Lobivia nigricans** var. **peterseimilii** (Fric) Rausch, *Lobivia* 85, 100. 1987. Basionym: *Rebutobivia peterseimii*. [Basionym not checked for validity.]
- Lobivia pampana** var. **borealis** Rausch, *Lobivia* 85, 101, 142-143, ill. (p. 102). 1987. Typus: *Rausch* 387a (ZSS).
- Lobivia pugionacantha** var. **corrugata** Rausch, *Lobivia* 85, 105, 143. 1987. Typus: *Rausch* 176 (ZSS).
- Lobivia pugionacantha** var. **haematantha** Rausch, *Lobivia* 85, 108, 143-144, ill. (p. 111). 1987. Typus: *Rausch* 639 (ZSS).
- Lobivia pygmaea** var. **colorea** (Ritter) Rausch, *Lobivia* 85, 116. 1987. Basionym: *Rebutia colorea*.
- Lobivia pygmaea** var. **diersiana** (Rausch) Rausch, *Lobivia* 85, 116, ill. (p. 115). 1987. Basionym: *Digitorebutia diersiana*.
- Lobivia pygmaea** var. **friedrichiana** (Rausch) Rausch, *Lobivia* 85, 116, ill. (p. 115). 1987. Basionym: *Digitorebutia friedrichiana*.
- Lobivia pygmaea** var. **iscayachensis** (Rausch) Rausch, *Lobivia* 85, 116. 1987. Basionym: *Digitorebutia iscayachensis*.
- Lobivia pygmaea** var. **knizei** Rausch, *Lobivia* 85, 116, 144, ill. (p. 143). 1987. Typus: *Rausch* 676a (ZSS). [sphalm. 'knizeii'.]
- Lobivia pygmaea** var. **minor** (Rausch) Rausch, *Lobivia* 85, 116. 1987. Basionym: *Digitorebutia diersiana* var. *minor*.
- Lobivia pygmaea** var. **nigrescens** Rausch, *Lobivia* 85, 116, ill. (p. 115). 1987. *Nom. illeg.* (Art. 56), based on *Digitorebutia diersiana* var. *atrovirens*.
- Lobivia pygmaea** var. **polypetala** Rausch, *Lobivia* 85, 116, 144, ill. (p. 143). 1987. Typus: *Rausch* 301 (ZSS).
- Lobivia pygmaea** var. **tafnaensis** Rausch, *Lobivia* 85, 116, 144, ill. (p. 114). 1987. Typus: *Rausch* 508a (ZSS).
- Lobivia pygmaea** var. **violacistaminea** Rausch, *Lobivia* 85, 116, 144, ill. (p. 143). 1987. Typus: *Rausch* 742 (ZSS).
- Lobivia saltensis** var. **pseudocachensis** (Backeberg) Rausch, *Lobivia* 85, 117. 1987. Basionym: *Lobivia pseudocachensis*.
- Lobivia saltensis** var. **zapallarensis** Rausch, *Lobivia* 85, 120, 144-145. 1987. Typus: *Rausch* 16 (ZSS).
- Lobivia schieliana** var. **leptacantha** (Rausch) Rausch, *Lobivia* 85, 121, ill. (p. 122). 1987. Basionym: *Lobivia leptacantha*.
- Lobivia schieliana** var. **quiabayensis** (Rausch) Rausch, *Lobivia* 85, 121. 1987. Basionym: *Lobivia quiabayensis*.
- Lobivia schreiteri** var. **riolarensis** Rausch, *Lobivia* 85, 124, 145. 1987. Typus: *Rausch* 793 (ZSS).
- Lobivia schreiteri** var. **stilowiana** (Backeberg) Rausch, *Lobivia* 85, 121, ill. (p. 123). 1987. Basionym: *Lobivia stilowiana*.
- Lobivia spiniflora** (K. Schumann) Rausch, *Lobivia* 85, 157. 1987. Basionym: *Echinocactus spiniflorus*.
- Lobivia spiniflora** var. **klimpelliana** (Weidlich & Werdermann) Rausch, *Lobivia* 85, 157. 1987.

- Basionym: *Echinopsis klimpeliana*.  
**Lobivia spiniflora** var. **macrantha** Rausch, Lobivia 85, 158, ill. 1987. Typus: *Rausch* 761 (ZSS).
- Lobivia spiniflora** var. **peitscheriana** (Backeberg) Rausch, Lobivia 85, 158. 1987. Basionym: *Acanthocalycium peitscherianum*.
- Lobivia spiniflora** var. **violacea** (Werdermann) Rausch, Lobivia 85, 157. 1987. Basionym: *Echinopsis violacea*.
- Lobivia steinmannii** var. **applanata** Rausch, Lobivia 85, 129, 145. 1987. Typus: *Rausch* 486 (ZSS).
- Lobivia steinmannii** var. **brachyantha** (Wessner) Rausch, Lobivia 85, 129, ill. (p. 127). 1987. Basionym: *Lobivia brachyantha*.
- Lobivia steinmannii** var. **camargoensis** (Rausch) Rausch, Lobivia 85, 129. 1987. Basionym: *Aylostera camargoensis*.
- Lobivia steinmannii** var. **christinae** (Rausch) Rausch, Lobivia 85, 129. 1987. Basionym: *Digitorebutia christinae*.
- Lobivia steinmannii** var. **cinninata** (Rausch) Rausch, Lobivia 85, 129, ill. (p. 126). 1987. Basionym: *Digitorebutia cinninata*.
- Lobivia steinmannii** var. **costata** (Werdermann) Rausch, Lobivia 85, 129, ill. (p. 127). 1987. Basionym: *Rebutia costata*.
- Lobivia steinmannii** var. **leucacantha** Rausch, Lobivia 85, 129, 145-146. 1987. Typus: *Rausch* 644 (ZSS).
- Lobivia steinmannii** var. **major** Rausch, Lobivia 85, 129, 146, ill. 1987. Typus: *Rausch* 334 (ZSS).
- Lobivia steinmannii** var. **melanocentra** Rausch, Lobivia 85, 129, 146. 1987. Typus: *Rausch* 744 (ZSS).
- Lobivia steinmannii** var. **parvula** Rausch, Lobivia 85, 129, 146, ill. 1987. Typus: *Rausch* 296 (ZSS).
- Lobivia steinmannii** var. **rauschii** (Zeher) Rausch, Lobivia 85, 129. 1987. Basionym: *Digitorebutia rauschii*.
- Lobivia steinmannii** var. **tuberculata** Rausch, Lobivia 85, 129, 145. 1987. Typus: *Rausch* 743 (ZSS).
- Lobivia thionantha** var. **aurantiaca** (Rausch) Rausch, Lobivia 85, 156. 1987. Basionym: *Acanthocalycium aurantiacum*.
- Lobivia thionantha** var. **brevispina** (Ritter) Rausch, Lobivia 85, 153. 1987. Basionym: *Acanthocalycium brevispinum*.
- Lobivia thionantha** var. **catamarcensis** (Ritter) Rausch, Lobivia 85, 156. 1987. Basionym: *Acanthocalycium catamarcense*.
- Lobivia thionantha** var. **chionantha** (Spegazzini) Rausch, Lobivia 85, 156. 1987. Basionym: *Echinocactus chionanthus*.
- Lobivia thionantha** var. **erythrantha** Rausch, Lobivia 85, 155, ill. 1987. Typus: *Rausch* 763 (ZSS).
- Lobivia thionantha** var. **ferrarii** (Rausch) Rausch, Lobivia 85, 156. 1987. Basionym: *Acanthocalycium ferrarii*.
- Lobivia thionantha** var. **glauca** (Ritter) Rausch, Lobivia 85, 156. 1987. Basionym: *Acanthocalycium glaucum*.
- Lobivia thionantha** var. **munita** Rausch, Lobivia 85, 154, ill. 1987. Typus: *Rausch* 772 (ZSS).
- Lobivia thionantha** var. **variiflora** (Backeberg) Rausch, Lobivia 85, 156. 1987. *Nom. inval.*, based on *Acanthocalycium variiflorum*, *nom. inval.* (Art. 9.5).
- Lobivia tiegeliana** cv. **Peclardiana** (Krainz pro sp.) Herzog, Kakt. / Sukk. 22(1-2): 40. 1987. Basionym: *Lobivia peclardiana*.
- Lobivia wrightiana** var. **winteriana** (Ritter) Rausch, Lobivia 85, 136. 1987. Basionym: *Lobivia winteriana*.
- Mammillaria albata** Reppenhagen, Gattung Mammillaria, 130-131, fig. 40 (p. 192), SEM-ills. 109-110 (p. 214). 1987. Typus: *Reppenhagen* 1129 (ZSS).
- Mammillaria albata** var. **longispina** Reppenhagen, Gattung Mammillaria, 132, SEM-ills. 111-112 (p. 214). 1987. Typus: *Reppenhagen* 1149 (ZSS). [Published type is *Reppenhagen* 1449, but this is an error according to a letter by W. Reppenhagen to ZSS, Febr. 22, 1988.]
- Mammillaria albata** var. **sanciro** Reppenhagen, Gattung Mammillaria, 132-133, fig. 41 (p. 193), SEM-ills. 113-114 (p. 215). 1987. Typus: *Reppenhagen* 1132 (ZSS).
- Mammillaria angelensis** var. **estebanensis** (Lindsay) Reppenhagen, Gattung Mammillaria, 34. 1987. Basionym: *Mammillaria estebanensis*.
- Mammillaria apamensis** Reppenhagen, Gattung Mammillaria, 71-72, fig.15 (p. 186), SEM-ills. 51-52 (p. 207). 1987. Typus: *Reppenhagen* 910 (ZSS).
- Mammillaria apamensis** var. **pratensis** Reppenhagen, Gattung Mammillaria, 73-74, fig.15 (p. 186), SEM-ills. 53-54 (p. 207). 1987. Typus: *Reppenhagen* 1099 (ZSS).
- Mammillaria apozolensis** Reppenhagen, Gattung Mammillaria, 143-144, fig. 47 (p. 194), SEM-ills. 125-126 (p. 216). 1987. Typus: *Reppenhagen* 978 (ZSS).
- Mammillaria apozolensis** var. **saltensis** Reppenhagen, Gattung Mammillaria, 145-146, fig. 51 (p. 195), SEM-ills. 127-128 (p. 216). 1987. Typus: *Reppenhagen* 1510 (ZSS).
- Mammillaria ascensionis** var. **nominis-dulcis** (Lau) Reppenhagen, Gattung Mammillaria, 58. 1987. Basionym: *Mammillaria glassii* var. *nominis-dulcis*.
- Mammillaria aurispina** (Lau) Reppenhagen, Gattung Mammillaria, 101, SEM-ills. 79-80 (p. 210). 1987. Basionym: *Mammillaria rekoii* var. *aurispina*.
- Mammillaria beneckei** var. **multiceps** Reppenhagen, Gattung Mammillaria, 29-30. 1987. Typus: *Reppenhagen* 671 (ZSS).
- Mammillaria bernalensis** Reppenhagen, Gattung Mammillaria, 151-152, fig. 53 (p. 196), SEM-ills. 137-138 (p. 218). 1987. Typus: *Reppenhagen* 790 (ZSS).
- Mammillaria bocensis** var. **movasana**



- Reppenhagen, Gattung *Mammillaria*, 148, fig. 52 (p. 195), SEM-ills. 131-132 (p. 217). 1987. Typus: *Reppenhagen* 829 (ZSS).
- Mammillaria bocsenii*** var. *rubida* (Schwarz ex Backeberg) Reppenhagen, Gattung *Mammillaria*, 146, SEM-ills. 129-130 (p. 217). 1987. Basionym: *Mammillaria rubida*.
- Mammillaria bonavittii*** Reppenhagen, Gattung *Mammillaria*, 66-68, fig. 13 (p. 186), SEM-ills. 45-46 (p. 206). 1987. Typus: *Reppenhagen* 907 (ZSS). [A name first mentioned in a catalogue by Schmolli and included by Backeberg as provisional in *Die Cact.* 5: 3466. 1961.]
- Mammillaria brachytrichion*** J. Lüthy, *Kakt. and Sukk.* 38(12): 294-297, ills., SEM-ills. 1987. Typus: *Lau* 1337 (ZSS).
- Mammillaria brevicrinata*** Reppenhagen, Gattung *Mammillaria*, 42-43, fig. 4 (p. 183), SEM-ills. 25-26 (p. 204). 1987. Typus: *Reppenhagen* 1127 (ZSS).
- Mammillaria bucareliensis*** var. *multiflora* Reppenhagen, Gattung *Mammillaria*, 164-165, fig. 61 (p. 198), SEM-ills. 153-154 (p. 220). 1987. Typus: *Reppenhagen* 355a (ZSS).
- Mammillaria bucareliensis*** var. *tamaulipa* Reppenhagen, Gattung *Mammillaria*, 166-167, fig. 62 (p. 198), SEM-ills. 155-156 (p. 220). 1987. Typus: *Reppenhagen* 1864 (ZSS). [The collection number of the type is said to be *Reppenhagen* 1866 in the erratum sheet published separately as supplement to *Mitteilungsbl.* AfM 12(4), 1988, but the type material received at ZSS has the number 1864 as given in the book.]
- Mammillaria buxbaumiana*** Reppenhagen, Gattung *Mammillaria*, 63-64, fig. 12 (p. 185), SEM-ills. 43-44 (p. 206). 1987. Typus: *Reppenhagen* 2037 (ZSS). ['*buxbaumeriana*' in error according to a letter from W. Reppenhagen to ZSS, Feb. 22, 1988.]
- Mammillaria candida*** var. *estanzuelensis* Reppenhagen, Gattung *Mammillaria*, 27, SEM-ills. 3-4 (p. 201). 1987. Typus: *Reppenhagen* 1206 (ZSS).
- Mammillaria centralifera*** Reppenhagen, Gattung *Mammillaria*, 153-154, fig. 54 (p. 196), SEM-ills. 139-140 (p. 218). 1987. Typus: *Reppenhagen* 1140 (ZSS).
- Mammillaria chica*** Reppenhagen, Gattung *Mammillaria*, 52-53, fig. 8 (p. 184), SEM-ills. 35-36 (p. 205). 1987. Typus: *Reppenhagen* 1093 (ZSS).
- Mammillaria claviformis*** Reppenhagen, Gattung *Mammillaria*, 91-92, fig. 22 (p. 188), SEM-ills. 73-74 (p. 210). 1987. Typus: *Reppenhagen* 1462 (ZSS).
- Mammillaria compacticaulis*** Reppenhagen, Gattung *Mammillaria*, 80-81, fig. 18 (p. 187), SEM-ills. 63-64 (p. 208). 1987. Typus: *Reppenhagen* 1047 (ZSS).
- Mammillaria conspicua*** var. *vaupelii* (Tiegel) Reppenhagen, Gattung *Mammillaria*, 113, SEM-ills. 91-92 (p. 212). 1987. Basionym: *Mammillaria vaupelii*.
- Mammillaria crassa*** Reppenhagen, Gattung *Mammillaria*, 139-140, fig. 45 (p. 194), SEM-ills. 121-122 (p. 216). 1987. Typus: *Reppenhagen* 980 (ZSS).
- Mammillaria crassimammillis*** Reppenhagen, Gattung *Mammillaria*, 169-171, fig. 67 (p. 199), SEM-ills. 159-160 (p. 220). 1987. Typus: *Reppenhagen* 1790 (ZSS). [*Reppenhagen* 1620 originally given as collection number of the type, but corrected in the erratum published in *Mitteilungsbl.* AfM 11(3): 92, 1987.]
- Mammillaria crassior*** Reppenhagen, Gattung *Mammillaria*, 85-86, fig. 19 (p. 187), SEM-ills. 67-68 (p. 209). 1987. Typus: *Reppenhagen* 761 (ZSS).
- Mammillaria discolor*** var. *longispina* Reppenhagen, Gattung *Mammillaria*, 77, fig. 16 (p. 186), SEM-ills. 57-58 (p. 208). 1987. Typus: *Reppenhagen* 1100 (ZSS).
- Mammillaria discolor*** var. *multispina* Reppenhagen, Gattung *Mammillaria*, 77, fig. 17 (p. 187). 1987. Typus: *Reppenhagen* 1725 (ZSS).
- Mammillaria discolor*** var. *ochotereneae* (Bravo-H.) Reppenhagen, Gattung *Mammillaria*, 77. 1987. Basionym: *Neomammillaria ochotereneae*.
- Mammillaria discolor*** var. *schmollii* (Bravo-H.) Reppenhagen, Gattung *Mammillaria*, 78. 1987. Basionym: *Neomammillaria schmollii*.
- Mammillaria dixanthocentron*** var. *flavicentra* (Backeberg ex Mottram) Reppenhagen, Gattung *Mammillaria*, 122-123, fig. 35 (p. 191). 1987. Basionym: *Mammillaria flavicentra*. [The neotype designation (*Reppenhagen* 1636) is unnecessary, as *M. flavicentra* has already been typified by R. Mottram in 1980.]
- Mammillaria dixanthocentron*** var. *rubripina* R. Wolf, *Kakt. and Sukk.* 38(2): 46-47, ills. 1987. Typus: *R. & F. Wolf* 19/84 (WU).
- Mammillaria duiformis*** var. *xuchiapensis* Reppenhagen, Gattung *Mammillaria*, 104-105, fig. 26 (p. 189), SEM-ills. 83-84 (p. 211). 1987. Typus: *Reppenhagen* 1677 (ZSS).
- Mammillaria durangicola*** Reppenhagen, Gattung *Mammillaria*, 135-136, fig. 43 (p. 193), SEM-ills. 117-118 (p. 215). 1987. Typus: *Reppenhagen* 545 (ZSS).
- Mammillaria elegans*** var. *longicaudata* Reppenhagen, Gattung *Mammillaria*, 109-110, fig. 30 (p. 190), SEM-ills. 87-88 (p. 211). 1987. Typus: *Reppenhagen* 918 (ZSS).
- Mammillaria elegans*** var. *lupina* Reppenhagen, Gattung *Mammillaria*, 108-109, fig. 29 (p. 190). 1987. Typus: *Reppenhagen* 1670 (ZSS).
- Mammillaria elegans*** var. *teyuca* Reppenhagen, Gattung *Mammillaria*, 111-112, fig. 50 (p. 195), SEM-ills. 89-90 (p. 212). 1987. Typus: *Reppenhagen* 956 (ZSS).
- Mammillaria erythra*** Reppenhagen, Gattung *Mammillaria*, 180-182, fig. 68 (p. 199), SEM-ills. 171-172 (p. 222). 1987. Typus: *Reppenhagen* 1350 (ZSS).

- Mammillaria felipensis* Reppenhagen, Gattung *Mammillaria*, 38-39, fig. 2 (p. 183), SEM-ills. 19-20 (p. 203). 1987. Typus: *Reppenhagen* 636 (ZSS).
- Mammillaria freudenbergeri* Reppenhagen, *Kakt. and. Sukk.* 38(10): 254-255, ill. 1987. Typus: *Freudenberger* s.n. (K). [Reprinted in *Mitteilungsbl. AfM* 11(6): 198-201, ill., with additional SEM-ills. of seed.]
- Mammillaria glochidiata* var. *xiloensis* Reppenhagen, Gattung *Mammillaria*, 40-41, fig. 3 (p. 183), SEM-ills. 21-22 (p. 203). 1987. Typus: *Reppenhagen* 1924 (ZSS).
- Mammillaria hamilton-hoytea* var. *pilensis* (Shurly) Reppenhagen, Gattung *Mammillaria*, 138-139. 1987. Basionym: *Mammillaria pilensis*. [The 'type locality' cited by Reppenhagen is not based on previously published information from either Backeberg or Shurly.]
- Mammillaria hirsuta* var. *grandis* Reppenhagen, Gattung *Mammillaria*, 36-37, fig. 1 (p. 183), SEM-ills. 17-18 (p. 203). 1987. Typus: *Reppenhagen* 1954 (ZSS).
- Mammillaria huiguerensis* Reppenhagen, Gattung *Mammillaria*, 141-142, fig. 46 (p. 194), SEM-ills. 123-124 (p. 216). 1987. Typus: *Reppenhagen* 975 (ZSS).
- Mammillaria ignota* Reppenhagen, Gattung *Mammillaria*, 126-127, fig. 38 (p. 192), SEM-ills. 105-106 (p. 214). 1987. Typus: *Reppenhagen* 1644 (ZSS).
- Mammillaria igualensis* Reppenhagen, Gattung *Mammillaria*, 123-124, fig. 36 (p. 191), SEM-ills. 101-102 (p. 213). 1987. Typus: *Reppenhagen* 932 (ZSS).
- Mammillaria igualensis* var. *palmillensis* Reppenhagen, Gattung *Mammillaria*, 125-126, fig. 37 (p. 192), SEM-ills. 103-104 (p. 213). 1987. Typus: *Reppenhagen* 1668 (ZSS).
- Mammillaria isotensis* Reppenhagen, Gattung *Mammillaria*, 78-79, fig. 49 (p. 195), SEM-ills. 61-62 (p. 208). 1987. Typus: *Reppenhagen* 771 (ZSS).
- Mammillaria krasuckae* Reppenhagen, Gattung *Mammillaria*, 99-100, fig. 25 (p. 189). 1987. Typus: *Reppenhagen* 1647 (ZSS).
- Mammillaria lanigera* Reppenhagen, Gattung *Mammillaria*, 116-117, fig. 32 (p. 190), SEM-ills. 95-96 (p. 212). 1987. Typus: *Reppenhagen* 944 (ZSS).
- Mammillaria lanigera* var. *juxtahuacensis* Reppenhagen, Gattung *Mammillaria*, 118-119, fig. 33 (p. 191), SEM-ills. 97-98 (p. 213). 1987. Typus: *Reppenhagen* 877 (ZSS).
- Mammillaria leptacantha* (Lau) Reppenhagen, Gattung *Mammillaria*, 103, SEM-ills. 81-82 (p. 211). 1987. Basionym: *Mammillaria rekoii* var. *leptacantha*.
- Mammillaria mercadensis* var. *guillauminiana* (Backeberg) Reppenhagen, Gattung *Mammillaria*, 35, SEM-ills. 11-12 (p. 202). 1987. Basionym: *Mammillaria guillauminiana*.
- Mammillaria monticola* Reppenhagen, Gattung *Mammillaria*, 115-116, fig. 31 (p. 190), SEM-ills. 93-94 (p. 212). 1987. Typus: *Reppenhagen* 844 (ZSS).
- Mammillaria nagliana* Reppenhagen, Gattung *Mammillaria*, 173-174, fig. 65 (p. 199), SEM-ills. 163-164 (p. 221). 1987. Typus: *Reppenhagen* 1045 (ZSS).
- Mammillaria nazasensis* (Glass & Foster) Reppenhagen, Gattung *Mammillaria*, 36, SEM-ills. 13-14 (p. 202). 1987. Basionym: *Mammillaria pennispinosa* var. *nazasensis*.
- Mammillaria noureddineana* Reppenhagen, Gattung *Mammillaria*, 128-129, fig. 39 (p. 192), SEM-ills. 107-108 (p. 214). 1987. Typus: *Reppenhagen* 1646 (ZSS).
- Mammillaria papasquiarensis* (Bravo-H.) Reppenhagen, Gattung *Mammillaria*, 137-138, fig. 44 (p. 193), SEM-ills. 119-120 (p. 215). 1987. Basionym: *Mammillaria tesopacensis* var. *papasquiarensis*.
- Mammillaria parrasensis* Reppenhagen, Gattung *Mammillaria*, 133-134, fig. 42 (p. 193), SEM-ills. 115-116 (p. 215). 1987. Typus: *Reppenhagen* 1083 (ZSS).
- Mammillaria pottsii* var. *gigas* Reppenhagen, Gattung *Mammillaria*, 61, fig. 10 (p. 185), SEM-ills. 39-40 (p. 205). 1987. Typus: *Reppenhagen* 2135 (ZSS).
- Mammillaria pottsii* var. *multicaulis* Reppenhagen, Gattung *Mammillaria*, 60-61, fig. 9 (p. 185), SEM-ills. 37-38 (p. 205). 1987. Typus: *Reppenhagen* 687 (ZSS).
- Mammillaria priessnitzii* Reppenhagen, Gattung *Mammillaria*, 158-160, fig. 58 (p. 197), SEM-ills. 147-148 (p. 219). 1987. Typus: *Reppenhagen* 1142 (ZSS).
- Mammillaria prolifera* var. *perpusilla* (Meinshausen) B. Hofmann, Lieferungswerk *Mammillaria*, [part 2], unnumbered page. 1987. Basionym: *Mammillaria multiceps* var. *perpusilla*. [Dated 1. 7. 1986, but effectively distributed only in 1987.]
- Mammillaria puberula* Reppenhagen, Gattung *Mammillaria*, 44-45, fig. 5 (p. 184), SEM-ills. 23-24 (p. 203). 1987. Typus: *Reppenhagen* 1059 (ZSS).
- Mammillaria pulliamata* Reppenhagen, Gattung *Mammillaria*, 96-97, fig. 23 (p. 188). 1987. Typus: *Reppenhagen* 195 (ZSS). [Based on a provisional name by C. Backeberg, *Die Cact.* 6: 3898, 1962.]
- Mammillaria rectispina* (Dawson) Reppenhagen, Gattung *Mammillaria*, 33, SEM-ills. 9-10 (p. 202). 1987. Basionym: *Mammillaria goodridgii* var. *rectispina*.
- Mammillaria rioverdense* Reppenhagen, Gattung *Mammillaria*, 162-163, fig. 60 (p. 197), SEM-ills. 151-152 (p. 219). 1987. Typus: *Reppenhagen* 1123 (ZSS). [*Reppenhagen* 1133 erroneously given as type, according to the erratum sheet published as supplement to *Mitteilungsbl. AfM*, 12(4), 1988.]
- Mammillaria sanjuanensis* Reppenhagen, Gattung *Mammillaria*, 98-99, fig. 24 (p. 188), SEM-ills. 77-78 (p. 210). 1987. Typus:

- Reppenhagen* 946 (ZSS).
- Mammillaria saxicola** Reppenhagen, Gattung Mammillaria, 160-162, fig. 59 (p. 197), SEM-ills. 149-150 (p. 219). 1987. Typus: *Reppenhagen* 1139 (ZSS).
- Mammillaria schumannii** var. *globosa* R. Wolf, Kakt. and. Sukk. 38(6): 147, ills. 1987. Typus: R. & F. Wolf 47/83 (WU).
- Mammillaria scrippsiana** var. *armeria* Reppenhagen, Gattung Mammillaria, 149-150, fig. 48 (p. 194), SEM-ills. 135-136 (p. 217). 1987. Typus: *Reppenhagen* 1621 (ZSS).
- Mammillaria seitziana** var. *tolantongensis* Reppenhagen, Gattung Mammillaria, 154-156, fig. 55 (p. 196), SEM-ills. 141-142 (p. 218). 1987. Typus: *Reppenhagen* 1689 (ZSS).
- Mammillaria silvatica** Reppenhagen, Gattung Mammillaria, 89-90, fig. 21 (p. 188), SEM-ills. 71-72 (p. 209). 1987. Typus: *Reppenhagen* 1603 (ZSS).
- Mammillaria subducta** (D. Hunt) Reppenhagen, Gattung Mammillaria, 55. 1987. Basionym: *Mammillaria laui* fa. *subducta*. [Basionym is cited indirectly and via the literature references given.]
- Mammillaria subducta** var. *dasyacantha* (D. Hunt) Reppenhagen, Gattung Mammillaria, 55. 1987. Basionym: *Mammillaria laui* fa. *dasyacantha*. [Basionym is cited indirectly and via the literature references given.]
- Mammillaria supraflumen** Reppenhagen, Gattung Mammillaria, 87-88, fig. 20 (p. 187), SEM-ills. 69-70 (p. 209). 1987. Typus: *Reppenhagen* 1609 (ZSS).
- Mammillaria tlocii** Reppenhagen, Gattung Mammillaria, 120-121, fig. 34 (p. 191), SEM-ills. 99-100 (p. 213). 1987. Typus: *Reppenhagen* 901 (ZSS).
- Mammillaria tropica** Reppenhagen, Gattung Mammillaria, 171-173, fig. 64 (p. 198), SEM-ills. 161-162 (p. 221). 1987. Typus: *Reppenhagen* 677 (ZSS).
- Mammillaria vallensis** Reppenhagen, Gattung Mammillaria, 156-158, fig. 56 (p. 196), SEM-ills. 143-144 (p. 218). 1987. Typus: *Reppenhagen* 1117 (ZSS).
- Mammillaria vallensis** var. *brevispina* Reppenhagen, Gattung Mammillaria, 158, fig. 57 (p. 197), SEM-ills. 145-146 (p. 219). 1987. Typus: *Reppenhagen* 1119 (ZSS).
- Mammillaria verticealba** Reppenhagen, Gattung Mammillaria, 68-69, fig. 14 (p. 186), SEM-ills. 47-48 (p. 206). 1987. Typus: *Reppenhagen* 719 (ZSS).
- Mammillaria verticealba** var. *zacatecasensis* Reppenhagen, Gattung Mammillaria, 70-71, SEM-ills. 49-50 (p. 207). 1987. Typus: *Reppenhagen* 973 (ZSS). [No type is actually indicated, but the reference to *Reppenhagen* 973 in the caption to the SEM-ills. is here regarded as being sufficient in the context of ICBN Arts. 37.3 and 37.4.]
- Mammillaria voburnensis** var. *collinsii* (Britton & Rose) Reppenhagen, Gattung Mammillaria, 175-176. 1987. Basionym: *Neomammillaria collinsii*. [The neotype designation by Reppenhagen, l.c. (*Reppenhagen* 958) is unnecessary, as the original type is extant at US (cited by D. R. Hunt in *Bradleya* 1: 125, 1983).]
- Mammillaria voburnensis** var. *eichlamii* (Quehl) Reppenhagen, Gattung Mammillaria, 178-180, SEM-ills. 169-170 (p. 222). 1987. Basionym: *Mammillaria eichlamii*.
- Mammillaria voburnensis** var. *quetzalcoatl* Reppenhagen, Gattung Mammillaria, 177-178, fig. 66 (p. 199), SEM-ills. 167-168 (p. 221). 1987. Typus: *Reppenhagen* 1504 (ZSS).
- Mammillaria wohlschlagerei** Reppenhagen, Gattung Mammillaria, 49-50, fig. 7 (p. 184), SEM-ills. 33-34 (p. 205). 1987. Typus: *Reppenhagen* 2132 (ZSS).
- Mammillaria xaltiangensis** var. *aguilensis* Reppenhagen, Gattung Mammillaria, 106-107, fig. 27 (p. 189), SEM-ills. 85-86 (p. 211). 1987. Typus: *Reppenhagen* 1046 (ZSS).
- Mammillaria xochipilli** Reppenhagen, Gattung Mammillaria, 167-169, fig. 63 (p. 198), SEM-ills. 157-158 (p. 220). 1987. Typus: *Reppenhagen* 1709 (ZSS).
- Mammillaria zephyranthoides** var. *heidiae* (Krainz) J. Lüthy, Kakt. and. Sukk. 38(1): 11. 1987. Basionym: *Mammillaria heidiae*.
- Mammillaria zuberli** Reppenhagen, Gattung Mammillaria, 48-49, fig. 6 (p. 184), SEM-ills. 31-32 (p. 204). 1987. Typus: *Zubler* s.n. (ZSS).
- Matucana tuberculata** (Donald) Bregman et al., Succulenta 66(9): 175, ills. (pp. 176-177). 1987. Basionym: *Borzicactus tuberculatus*.
- Neoporteria horrida** (Remy ex Gay) D. Hunt, *Bradleya* 5: 93. 1987. Basionym: *Echinocactus horridus*.
- Neoporteria subikii** Riha, Kaktusy 23(6): 128-130, ills. 1987. Based on *Knize* 39. *Nom. inval.* (Art. 36.1). [Published as provisional name.]
- Notocactus ottonis** var. *nigrispinus* Lück, *Internoto* 8(4): 124-125, ill. 1987. Based on *Rausch* 374. *Nom. inval.* (Art. 36.1). [Published as provisional name; the plant is also cultivated as *Notocactus nigrispinus*.]
- Notocactus pseudopulvinatus** Gerloff, *Internoto* 8(4): 126-127, ill. 1987. Based on *van Vliet* 36. *Nom. inval.* (Art. 36.1). [Published as provisional name.]
- Notocactus scopa** var. *xiphacanthus* Abraham, *Succulenta* 66(12): 256-260, ills. 1987. Typus: *Abraham* 156 (KOELN).
- Nyctocereus castellanosi** Scheinvar, *Anales Inst. Biol. Univ. Nac. Mexico, Ser. Bot.* 47-53: 165-176, ills., SEM ills. 1984. Typus: *Scheinvar et Orozco* 2190 (MEXU). [Vol. for 1976-1982, published 1984. Name omitted from RPS so far.]
- Opuntia articulata** (Pfeiffer) D. Hunt, *Bradleya* 5: 93. 1987. Basionym: *Cereus articulatus*. [syn. *O. articulata* Otto in *Allg. Gartenzeit.* 1: 367, 1833, *nom. nud.*]
- Opuntia lindheimeri** var. *subarmata* (Griffiths) Elizondo & Wehbe, *Cact. Suc. Mex.* 32(1): 17.



1987. Basionym: *Opuntia subarmata*. [First published invalidly l.c. 31(4): 99.]
- Opuntia rzedowskii** Scheinvar, *Anales Inst. Biol. Univ. Nac. Mexico, Ser. Bot.* 47-53: 123-136, ills., SEM ills. 1984. *Scheinvar* 2216 (MEXU). [Vol. for 1976-1982, published 1984. Name omitted from RPS so far.]
- Oreocereus hempelianus** (Gürke) D. Hunt, *Bradleya* 5: 93. 1987. Basionym: *Echinopsis hempeliana*.
- Oroya peruviana* fa. *minima* Riha & Subik, *Kaktusy* 23(6): 142-144, ills. 1987. *Nom. inval.* (Art. 36.1). [Published as provisional name.]
- Pachycereus militaris** (Audot) D. Hunt, *Bradleya* 5: 93. 1987. Basionym: *Cereus militaris*.
- Pachycereus schottii** (Engelmann) D. Hunt, *Bradleya* 5: 93. 1987. Basionym: *Cereus schottii*.
- Parodia** sect. *Sulcatae* Weskamp, *Gattung Parodia*, 33. 1987. Typus: *P. formosa* Ritter.
- Parodia allosiphon** (Marchesi) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus allosiphon*.
- Parodia buiningii** (F. Buxbaum) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus buiningii*.
- Parodia caespitosa** (Spegazzini) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Echinocactus caespitosus*.
- Parodia concinna** (Monville) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Echinocactus concinnus*.
- Parodia crassigibba** (Ritter) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus crassigibbus*.
- Parodia erinacea** (Haworth) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Cactus erinaceus*.
- Parodia herteri** (Werdermann) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Echinocactus herteri*.
- Parodia horstii** (Ritter) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus horstii*.
- Parodia liliputana** (Werdermann) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Blossfeldia liliputana*.
- Parodia lohianiana* var. *rubriflora* (Backeberg) Weskamp, *Gattung Parodia*, 421. 1987. *Nom. inval.*, based on *Parodia catamarcensis* var. *rubriflora*, *nom. inval.* (Art. 9.5). [epithet erroneously given as 'rubriflorens'.]
- Parodia macranctristra** (K. Schumann) Weskamp, *Gattung Parodia*, 424-425. 1987. Basionym: *Echinocactus microspermus* var. *macranctristrus*. [Basionym erroneously cited as *Parodia microsperma* var. *macranctristra*, but with correct bibliographic citation.]
- Parodia mammulosa** (Lemaire) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Echinocactus mammulosus*.
- Parodia mueller-melchersii** (Fric ex Backeberg) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus mueller-melchersii*.
- Parodia neohorstii** (Theunissen) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus neohorstii*.
- Parodia ottonis** (Lehmann) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Cactus ottonis*.
- Parodia ottonis** var. *tortuosa* (Link & Otto) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Echinocactus tortuosus*.
- Parodia riojensis** Ritter & Weskamp, *Gattung Parodia*, 474-476, fig. 75. 1987. Typus: Ritter 917 (Herb. Univ. Dresden).
- Parodia rutilans** (Däniker & Krainz) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus rutilans*.
- Parodia salmonea** var. *lau-multicostata* F. Brandt, *Kakt. Orch.-Rundschau* 1: 3-4. 1975. Typus: *Lau* s.n. (HEID). [Publication repeated in l.c. 12(2): 16-17, 1987. The type has Brandt's accession no. 17/c.]
- Parodia scopa** (Sprengel) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Cactus scopa*.
- Parodia succinea** (Ritter) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus succineus*.
- Parodia tuberculosi-costata* var. *cafayatensis* (Backeberg) Weskamp, *Gattung Parodia*, 520-521. 1987. *Nom. inval.*, based on *Parodia microsperma* var. *cafayatensis*, *nom. inval.* (Art. 37.1).
- Parodia wagneriana* Weskamp, *Kakt. / Sukk.* 22(3): 70-71, ill. (p. 89). 1987. *Nom. inval.* (Art. 37.1). [Equals *Parodia pluricentralis* Backeberg *nom. inval.* (Art. 36.1/9.5).]
- Parodia werdermanniana** (Herter) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Notocactus werdermannianus*.
- Peniocereus serpentinus** (Lagasca & Rodrigues) N. P. Taylor, *Bradleya* 5: 93. 1987. Basionym: *Cactus serpentinus*.
- Pfeiffera miyagawae** Barthlott & Rauh, *Cact. Succ. J. (US)* 58(2): 63-65, ills., SEM ill. 1987. Typus: *Miyagawa* s.n. (HEID 32857, BONN, HNT, ZSS).
- Pilosocereus albisummus** P. J. Braun & Esteves, *Kakt. and. Sukk.* 38(5): 126-131, ills., SEM-ills. 1987. Typus: *Esteves* P. 123 (ZSS).
- Pilosocereus braunii** Esteves, *Kakt. and. Sukk.* 38(5): 132. 1987. Typus: *Braun* 70 (ZSS). [Additional detailed description in l.c. 40(1): 6-13, ills., SEM-ills., 1989.]
- Pilosocereus cristalinensis** P. J. Braun & Esteves, *Kakt. and. Sukk.* 38(5): 132, (7): 163-167, ills., SEM-ills. 1987. Typus: *Esteves* P. 73 (ZSS).
- Pilosocereus kanukuensis** (Alexander) Leuenberger, *Willdenowia* 16: 506. 1987. Basionym: *Cephalocereus kanukuensis*. [Published in February. Combination repeated by P. J. Braun in *Succulenta* 66(5): 106-107, 1987 (publ. May).]
- Pilosocereus lindaianus** P. J. Braun & Esteves, *Kakt. and. Sukk.* 38(5): 132. 1987. Typus: *Esteves* P. 60 (ZSS). [Additional detailed description and illustrations in *Kakt. and. Sukk.* 39(10): 222-228, 1988.]
- Pilosocereus schoebelii** P. J. Braun, *Cact. Succ. J. (US)* 58(4): 150-156, ills., SEM-ills. 1987. Typus: *Braun* 426 (ZSS, KOELN).

- Rebutia cylindrica* (Donald & Lau) Donald, Bradleya 5: 93. 1987. Basionym: *Sulcorebutia cylindrica*.
- Rebutia fidaiana* (Backeberg) D. Hunt, Bradleya 5: 94. 1987. Basionym: *Echinocactus fidaianus*.
- Rebutia mentosa* (Ritter) Donald, Bradleya 5: 93. 1987. Basionym: *Sulcorebutia mentosa*.
- Rebutia neocumingii* (Backeberg) D. Hunt, Bradleya 5: 94. 1987. Basionym: *Weingartia neocumingii*.
- Rebutia neumanniana* (Werdermann) D. Hunt, Bradleya 5: 94. 1987. Basionym: *Weingartia neumanniana*.
- Rhipsalis baccifera* ssp. *erythrocarpa* (K. Schumann) Barthlott, Bradleya 5: 100. 1987. Basionym: *Rhipsalis erythrocarpa*.
- Rhipsalis baccifera* ssp. *horrida* (Baker) Barthlott, Bradleya 5: 100. 1987. Basionym: *Rhipsalis horrida*.
- Rhipsalis baccifera* ssp. *mauritiana* (De Candolle) Barthlott, Bradleya 5: 100. 1987. Basionym: *Rhipsalis cassytha* var. *mauritanica*.
- Rhipsalis occidentalis* Barthlott & Rauh, Kakt. and. Sukk. 38(1): 16-19, ills. 1987. Typus: *Rauh et Barthlott* 35392 (HEID, BONN, HNT).
- Sclerocactus erectocentrus* (J. Coulter) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus erectocentrus*.
- Sclerocactus intertextus* (Engelmann) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus intertextus*.
- Sclerocactus intertextus* var. *dasyacanthus* (Engelmann) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus intertextus* var. *dasyacanthus*.
- Sclerocactus johnsonii* (Engelmann) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus johnsonii*.
- Sclerocactus mariposensis* (Hester) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinomastus mariposensis*.
- Sclerocactus papyracanthus* (Engelmann) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Mammillaria papyracantha*.
- Sclerocactus scheeri* (Salm-Dyck) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus scheeri*.
- Sclerocactus schlesseri* Heil & Welsh, Great Basin Natural. 46(4): 677-678. 1986. *Heil* s.n. (BRY, NY). [Omitted from RPS for 1986.]
- Sclerocactus uncinatus* (Galeotti) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus uncinatus*.
- Sclerocactus uncinatus* var. *crassihamatus* (F. A. C. Weber) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus crassihamatus*.
- Sclerocactus uncinatus* var. *wrightii* (Engelmann) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus uncinatus* var. *wrightii*.
- Sclerocactus unguispinus* (Engelmann) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus unguispinus*.
- Sclerocactus unguispinus* var. *durangensis* (Runge) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Echinocactus durangensis*.
- Sclerocactus warnockii* (L. Benson) N. P. Taylor, Bradleya 5: 94. 1987. Basionym: *Neolloydia warnockii*.
- Sulcorebutia fischeriana* Augustin, Kakt. and. Sukk. 38(9): 210-216, ills., SEM-ills. 1987. Typus: *Swoboda* 79 (ZSS).
- Thelocactus bicolor* var. *schwarzii* (Backeberg) E. F. Anderson, Bradleya 5: 61. 1987. Basionym: *Thelocactus schwarzii*.
- Thelocactus setispinus* (Engelmann) E. F. Anderson, Bradleya 5: 59. 1987. Basionym: *Echinocactus setispinus*.
- Thelocactus tulensis* var. *buekii* (Klein) E. F. Anderson, Bradleya 5: 65. 1987. Basionym: *Echinocactus buekii*.
- Thelocactus tulensis* var. *matudae* (Sanchez-Mejorada & Lau) E. F. Anderson, Bradleya 5: 66. 1987. Basionym: *Thelocactus matudae*.
- Turbincarpus swoboda* L. Diers, Kakt. and. Sukk. 38(4): 86-91, ills., SEM-ills. 1987. Typus: *Swoboda* s.n. (KOELN).

## CRASSULACEAE

- Dudleya abramsii* ssp. *affinis* K. Nakai, Madroño 34(4): 349, fig. 4 (p. 343). 1987. *Nakai* 1146 (CAS, LA, NY).
- Dudleya abramsii* ssp. *calicola* (Bartel & Shevock) K. Nakai, Madroño 34(4): 347. 1987. Basionym: *Dudleya calicola*.
- Dudleya cymosa* ssp. *agourensis* K. Nakai, Madroño 34(4): 339, fig. 2 (p. 343). 1987. *Nakai* 606 (CAS, LA, SD).
- Dudleya cymosa* ssp. *crebrifolia* K. Nakai & Verity, Madroño 34(4): 344-45, fig. 3 (p. 343). 1987. *Nakai* 775 (CAS, LA, MO, RSA, SD, US).
- Dudleya cymosa* ssp. *paniculata* (Jepson) K. Nakai, Madroño 34(4): 338. 1987. Basionym: *Cotyledon caespitosa* var. *paniculata*.
- Dudleya cymosa* ssp. *pumila* (Rose) K. Nakai, Madroño 34(4): 336-337. 1987. Basionym: *Dudleya pumila*.
- Graptopetalum pentandrum* var. *superbum* Kimmach, Cact. Succ. J. (US) 58(4): 140-143, ills. 1987. Typus: *Avina* s.n. (HNT, BH, MEXU, US).
- × *Graptophytum* cv. 'Anita' Zonneveld, Brit. Cact. Succ. J. 5(1): 21, ills. 1987. [= *Graptopetalum filiferum* × *Pachyphytum oviferum*.]
- × *Graptosedum* cv. 'Heswall' Roberts, Brit. Cact. Succ. J. 5(3): 72, ill. 1987. [= *Graptopetalum bellum* × *Sedum suaveolens*.]
- Helladia* M. Král, Preslia 59(4): 309. 1987. Typus: *Sedum creticum*.
- Helladia cretica* (C. Presl) M. Král, Preslia 59(4): 309. 1987. Basionym: *Sedum creticum*.
- Jovibarba* × *smithii* Zonneveld, Sempervivum Fanciers Assoc. Newslett. 13(1): 1, ill. (p. 3). 1987. Typus: *Zonneveld* s.n. (U). [= *J. hirta* ×

- J. heuffelii.*]  
**Jovibarba** × **smithii** cv. 'Pallas Athene' Zonneveld, Sempervivum Fanciers Assoc. Newslett. 13(1): 1, ill. (p. 3). 1987.
- Oreosedum album** var. **micranthum** (De Candolle) P. V. Heath, Sussex Cact. Succ. Yearb. 1987: 55. 1987. Basionym: *Sedum album* var. *micranthum*.
- Petrosedum rupestre** (Linnaeus) P. V. Heath, Sussex Cact. Succ. Yearb. 1987: 56. 1987. Basionym: *Sedum rupestre*.
- Rosularia blepharophylla** Eggl, Kakt. and Sukk. 38(6): 134-135, (8): (81) [erratum], ill. 1987. Typus: *Eggl* 851 (Z, ISTE, ZSS).
- Rosularia sempervivum** ssp. **amanensis** Eggl, Kakt. and Sukk. 38(6): 135-136, ill. 1987. Typus: *Haradjian* 536 (G, E, G, K).
- Rosularia sempervivum** ssp. **glaucophylla** Eggl, Kakt. and Sukk. 38(6): 136-137, ill. 1987. Typus: *Davis* 19947 (E, BM, K).
- Rosularia serpentina** var. **gigantea** Eggl, Kakt. and Sukk. 38(6): 137-138, ill. 1987. Typus: *Carlström* s.n. (Z, ISTE, ZSS).
- Sedum** cv. **Goldii** (Matuda) R. Evans, Sedum Soc. Newslett. No. 3: 4. 1987. Basionym: *Gratiopetalum goldii*. [Repeated by G. Rowley in l.c. No. 4: 10, 1988; the omission of a basionym citation by R. Evans does not invalidate the transfer of the variety as cultivar.]
- Sedum** subgen. **Chuhsingianum** K. T. Fu, Bull. Bot. Res. North-East Forest. Inst. 7(1): 67. 1987. Typus: *S. chuhsingense* K. T. Fu.
- Sedum celatum** fa. **calcaratum** K. T. Fu, Bull. Bot. Res. North-East Forest. Inst. 7(1): 69. 1987. *Hao* 1025 (PE).
- Sedum chuhsingense** K. T. Fu, Bull. Bot. Res. North-East Forest. Inst. 7(1): 68. 1987. *Xie* 124 (HNWP).
- Sedum** × **hommelsii** 't Hart, Bot. Jahrb. Syst. 109(1): 4-8, ill. 1987. Typus: 't Hart 22555 (U). [= *Sedum ochroleucum* (2n=68) × *S. rupestre* ssp. *erectum* (2n=96).]
- Sedum** × **lorenzoi** 't Hart, Bot. Jahrb. Syst. 109(1): 8-10, ill. (p. 5). 1987. Typus: 't Hart 28539 (U). [= *Sedum ochroleucum* × *S. rupestre* ssp. *rupestre*.]
- Sedum tehauztense** Moran & Meyran, Cact. Suc. Mex. 32(1): 3-7, 24, ill. 1987. Typus: *Otero* 76 (MEXU 407034, CU, HNT, SD). [Type cited as *Otero* 79 in the latin diagnosis, but as *Otero* 76 in the Spanish description.]
- EUPHORBIACEAE**
- Euphorbia** subgen. **Lacanthis** (Rafinesque) M. Gilbert, Kew Bull. 42(1): 238. 1987. Basionym: *Lacanthis*.
- Euphorbia alfredii** Rauh, Cact. Succ. J. (US) 58(5): 209-212, ill. 1987. Typus: *Razafindratsira* s.n. (HEID).
- Euphorbia ambovombensis** Rauh & Razafindratsira, Cact. Succ. J. (US) 58(6): 251-255, ill. 1987. Typus: *Rauh* 68656 (HEID).
- Euphorbia atroflorea** S. Carter, Kew Bull. 42(2): 393. 1987. Typus: *Gilbert, Kanuri et Mungai* 5630 (K, EA, ETH).
- Euphorbia бага** var. **parvifolia** L. E. Newton, Bot. J. Linn. Soc. 94: 464, fog. 7 (p. 457). 1987. Typus: *Newton* 2670 (K, KUU, P).
- Euphorbia biharamulensis** S. Carter, Kew Bull. 42(3): 675-676, ill. (p. 674). 1987. Typus: *Balslev* 31 (K).
- Euphorbia boronensis** M. Gilbert, Kew Bull. 42(2): 391-392. 1987. Typus: *Rippstein* 1978 (K).
- Euphorbia breviararticulata** var. **trunciformis** S. Carter, Kew Bull. 42(3): 676-677. 1987. Typus: *Bally et Carter* 16572 (K).
- Euphorbia bussei** var. **kibwezensis** (N. E. Brown) S. Carter, Kew Bull. 42(3): 678. 1987. Basionym: *Euphorbia kibwezensis*.
- Euphorbia bwambensis** S. Carter, Kew Bull. 42(3): 681-682, ill. (p. 674). 1987. Typus: *Carcasson* 31 in *Bally* 10588 [E 443] (K, EA, G).
- Euphorbia candelabrum** var. **bilocularis** (N. E. Brown) S. Carter, Kew Bull. 42(3): 681. 1987. Basionym: *Euphorbia bilocularis*.
- Euphorbia cataractarum** S. Carter, Kew Bull. 42(2): 379-380, ill. (p. 374). 1987. Typus: *Bullock* 1081 (K).
- Euphorbia cryptocaulis** M. Gilbert, Kew Bull. 42(1): 231-233, ill. 1987. Typus: *Corradi* s.n. (FT).
- Euphorbia cuprispina** S. Carter, Kew Bull. 42(2): 378-379. 1987. Typus: *Gilbert, Kanuri et Mungai* 5511 (K, EA, ETH).
- Euphorbia dalettiensis** M. Gilbert, Kew Bull. 42(2): 391. 1987. Typus: *W. Burger* 3402 (K).
- Euphorbia dauana** S. Carter, Kew Bull. 42(2): 376-377, ill. (p. 372). 1987. Typus: *Gilbert et Thulin* 1537 (K, EA).
- Euphorbia decaryi** var. **spirosticha** Rauh & Buchloh, Cact. Succ. J. (US) 58(1): 9-12, ill. 1987. Typus: *Rauh et Buchloh* 7599 (HEID).
- Euphorbia discrepans** S. Carter, Kew Bull. 42(2): 380-381, ill. (p. 374). 1987. Typus: *Leach* 10352 (K).
- Euphorbia exilisipina** S. Carter, Kew Bull. 42(2): 382-383, ill. (p. 374). 1987. Typus: *Gilli* 280 (W).
- Euphorbia fissispina** Bally & S. Carter, Kew Bull. 42(2): 375-376, ill. (p. 372). 1987. Typus: *Bally* 9315 (K, EA).
- Euphorbia greenwayi** ssp. **breviaculeata** S. Carter, Kew Bull. 42(2): 381-382. 1987. Typus: *Bullock* 3036 (K).
- Euphorbia heterochroma** ssp. **tsavoensis** S. Carter, Kew Bull. 42(2): 387-389. 1987. Typus: *Verdcourt* 2385 (K, EA).
- Euphorbia heterospina** S. Carter, Kew Bull. 42(2): 389-390. 1987. Typus: *M. Hale* 45 in *Bally* 4042 (K).
- Euphorbia heterospina** ssp. **baringoensis** S. Carter, Kew Bull. 42(2): 390. 1987. Typus: *Bally* 4533 (K).
- Euphorbia laikiipiensis** S. Carter, Kew Bull.

- 42(2): 373, 375, ill. (p. 372). 1987. Typus: *Gilbert et al.* 5082 (K, EA).
- Euphorbia magnicapsula** S. Carter, Kew Bull. 42(3): 678-679, ill. (p. 674). 1987. Typus: *Greenway et Kanuri* 12532 (K).
- Euphorbia magnicapsula** var. *lacertosa* S. Carter, Kew Bull. 42(3): 679-680. 1987. Typus: *Bally et Carter* 16537 (K).
- Euphorbia monadenioides** M. Gilbert, Kew Bull. 42(1): 233-234, ills. (p. 232). 1987. Typus: *M. Gilbert* 2295 (K, ETH).
- Euphorbia nyassae** ssp. *mentiens* S. Carter, Kew Bull. 42(2): 379, ill. (p. 374). 1987. Typus: *Richards* 13168 (K).
- Euphorbia nyikae** var. *neovolkensii* (Pax) S. Carter, Kew Bull. 42(3): 677. 1987. Basionym: *Euphorbia neovolkensii*.
- Euphorbia radians** var. *stormiae* (Croizat) Rzedowski & Calderón de Rzedowski, Cact. Suc. Mex. 32(4): 76, ills. (p. 75, 100). 1987. Basionym: *Euphorbia stormiae*.
- Euphorbia scarlatina** S. Carter, Kew Bull. 42(2): 392-393. 1987. Typus: *Verdcourt* 3465 (K).
- Euphorbia similiramea** S. Carter, Kew Bull. 42(2): 371-373, ill. 1987. Typus: *Polhill et Paulo* 1029 (K, EA).
- Euphorbia taruensis** S. Carter, Kew Bull. 42(2): 377-378, ill. (p. 372). 1987. Typus: *Lavranos et Newton* 12315 (K).
- Euphorbia tenuispinosa** var. *robusta* Bally & Carter, Kew Bull. 42(2): 377, ill. (p. 372). 1987. Typus: *Sheldrick* s.n. in *Bally* 8572 (K, EA).
- Monadenium catenatum** S. Carter, Kew Bull. 42(4): 905-906. 1987. Typus: *Milne-Redhead et Taylor* 8523 (K).
- Monadenium depauperatum** (Bally) S. Carter, Kew Bull. 42(4): 908. 1987. Basionym: *Monadenium laeve* fa. *depauperatum*.
- Monadenium elegans** S. Carter, Kew Bull. 42(4): 909-911, ill. 1987. Typus: *Polhill et Paulo* 1319 (K).
- Monadenium filiforme** (Bally) S. Carter, Kew Bull. 42(4): 905. 1987. Basionym: *Monadenium chevalieri* var. *filiforme*.
- Monadenium gladiatum** (Bally) S. Carter, Kew Bull. 42(4): 913. 1987. Basionym: *Monadenium yattanum* var. *gladiatum*.
- Monadenium globosum** Bally & S. Carter, Kew Bull. 42(4): 906-907, ill. 1987. Typus: *Richards* 14022 (K, EA).
- Monadenium heteropodum** var. *formosum* (Bally) S. Carter, Kew Bull. 42(4): 916. 1987. Basionym: *Monadenium schubei* var. *formosum*.
- Monadenium kundelunguense** Malaisse, Cact. Succ. J. (US) 58(5): 204-206, ills. 1987. Typus: *Malaisse* 12036 (BR).
- Monadenium pedunculatum** S. Carter, Kew Bull. 42(4): 903. 1987. Typus: *Richards* 7053 (K).
- Monadenium renneyi** S. Carter, Kew Bull. 42(4): 916-917, ill. 1987. Typus: *Gillett* 16994 (K).
- Monadenium ritchiei** ssp. *marsabitense* S. Carter, Kew Bull. 42(4): 915. 1987. Typus: *Lavranos et Bleck* 19627 (K).
- Monadenium ritchiei** ssp. *nyambense* S. Carter, Kew Bull. 42(4): 915. 1987. Typus: *Bally et Smith* 14719 (K).
- Monadenium rubellum** (Bally) S. Carter, Kew Bull. 42(4): 913. 1987. Basionym: *Monadenium montanum* var. *rubellum*.
- Monadenium spectabile** S. Carter, Kew Bull. 42(4): 911-913, ill. 1987. Typus: *Greenway et Kanuri* 14522 (K).
- Monadenium stapelioides** var. *congestum* (Bally) S. Carter, Kew Bull. 42(4): 914. 1987. Basionym: *Monadenium stapelioides* fa. *congestum*.
- Monadenium stoloniferum** (Bally) S. Carter, Kew Bull. 42(4): 913. 1987. Basionym: *Monadenium rhizophorum* var. *stoloniferum*.
- Synadenium calycinum** S. Carter, Kew Bull. 42(3): 670-671, ill. (p. 668). 1987. Typus: *Haerdi* 580/0 (K).
- Synadenium compactum** var. *rubrum* S. Carter, Kew Bull. 42(3): 669. 1987. Typus: *E. Polhill* 152 (K).
- Synadenium glabratum** S. Carter, Kew Bull. 42(3): 667-668, ill. 1987. Typus: *Richards* 11209 (K).
- Synadenium halipedicola** Leach, Garcia de Orta, ser. Bot. 6(1-2): 47, ills. 1984. Typus: *Leach* 11262 (LISC, BM, BR, K, MO, NBG, NH, PRE, SRGH). [So far omitted from RPS.]

## GERANIACEAE

- Pelargonium caroli-henrici** B. Nordenstam, Pl. Syst. Evol. 155: 333-337, ills., map. 1987. *Hall et Nordenstam* in *Nordenstam* 2883 (S).

## HYACINTHACEAE

- Bowiea volubilis** ssp. *gariensis* (van Jaarsveld) Bruyns, Caryologia 40(4): 291. 1987. Basionym: *Bowiea gariensis*.

## PIPERACEAE

- Peperomia dolabella** Rauh & Kimmach, Cact. Succ. J. (US) 58(1): 3-8, ills. 1987. Typus: *Kimmach et al.* 2895b (HEID, HNT).



## BIBLIOGRAPHIA

Abbenes, D. (1987): → Pot, J.

[1] Adrien, J. (1987). *Melocactus* du Bresil. Cact. Succ. Pl. Acclimat. 2(5): 103-112, map, ills. [On the variability of *Melocactus azureus*.]

[2] Albers, F. & Austmann, M. (1987). *Asclepiadaceae*. In: Löve, A. (ed.): Chromosome number reports. XCV. Taxon 36(2): 494-496. [Includes a vast number of chromosome counts for succulent asclepiads.]

[3] Alvarez, A. & Kohler, E. (1987). Morfología del polen de las *Agavaceae* y algunos generos afines. Grana 26(1): 25-46, ills.

[4] Anderson, E. F. (1987). A revision of the genus *Thelocactus* B. & R. (*Cactaceae*). Bradleya 5: 49-76, ills., SEM-ills., maps, key.

[5] Appenzeller, O. (1987). Die Gattung *Mammillaria* Haw. im Wandel der Zeiten. AfM-Festschrift 1987: 21-34.

[6] Augustin, K. (1987). Die HS-Sulcorebutien und Weingarten. Auswertung der Felddarstellungen. Kakt. and. Sukk. 38(7): 178-180, ills., map. [Continued from vol. 37, continuing in vol. 39.]

[7] Augustin, K. & Tyrassek, G. (1987). Früchte der Gattungen *Sulcorebutia* Backeberg und *Weingartia* Werdermann. Kakt. and. Sukk. 38(3): 56-48, ills.

Austmann, M. (1987): → Albers, F.

[8] Baas, W. J. (1987). On the survival of *Hoya* species in nature. Hoya 8(3): 44-47, ills. [Includes data on triterpene compounds.]

[9] Baker, M. A. & Pinkava, D. J. (1987). A cytological and morphometric analysis of a triploid apomict, *Opuntia* × *kelvinensis* (subgenus *Cylindropuntia*, *Cactaceae*). Brittonia 39(3): 387-401, map.

[10] Barthlott, W. (1987). New names in *Rhipsalidinae* (*Cactaceae*). Bradleya 5: 97-100, ills., key.

[11] Bayer, M. B. (1987). Natural variation and species delimitation in *Haworthia* Duval. Part 6: *Haworthia maculata* (v. Poellnitz) Bayer. Brit. Cact. Succ. J. 5(1): 13-15, ills., map.

[12] Bayer, M. B. & Harold, K. (1987). Artificial hybridisation in *Duvalia*. Asklepios 41: 25-31, ills.

[13] Berezkina, V. I. & Braion, A. V. (1985). Osobennosti anatomicheskogo straniya vegetativnykh organov nekotorykh predstavitelei roda ochitkov (*Sedum* L.) Okhr. Izuch. Obogashch. Rast. Mira (Kiev) 12: 103-107, ills. [Data on anatomy and morphology.]

[14] Bernhard, U. (1987). At the habitat of

*Astrophytum coahuilense*. Brit. Cact. Succ. J. 5(4): 106-111, ills., map.

[15] Berthet, P. (1987). A la découverte des *Caralluma* d'Espagne. Succulentes 1987(2): 3-5, ills.

[16] Bittrich, V. (1986). Untersuchungen zu Merkmalsbestand, Gliederung und Abgrenzung der Unterfamilie *Mesembryanthemoideae* (*Mesembryanthemaceae* Fenzl). Mitt. Inst. Bot. Hamburg 21: 5-116, ills., maps, keys. [Includes data on chromosome numbers, anatomy and morphology.]

[17] Bleicher, W. (1987). Was ist *Tephrocactus hegenbartianus*? Kaktus (Hanau) 1987(1): 14-16.

[18] Blum, N. (1987). *Echinocereus reichenbachii* (Terscheck) F. A. Haage und seine Varietäten. Kakt. and. Sukk. 38(2): 22-25, ills.

[19] Böhler, U. (1987). *S[empervivum] ciliosum*, its forms and hybrid. Sempervivum Fanciers Assoc. Newslett. 13(4): 19, 21, ills.

[20] Boele, C. & Kroesen, A. C. J. & Noltee, F. K. A. (1987). Checklist of *Brachystelma*, *Ceropegia*, *Riocrexia* and the *Stapelieae*. With literature references to all species. Burgess Hill (GB): Southern Reprographics in association with the International Asclepiad Society. c. 170 pp., some ills.

[21] Boele, C. (1987). *Echinopsis* – relationships, distribution and diversity. Asklepios 39: 31-38, ills., map.

Braion, A. V. (1987): → Berezkina, V. I.

[22] Brandt, F. H. (1986). Genus *Weingartia*. Eine blütenmorphologische Studie. Kakt. Orch.-Rundschau 11(2-3): 21-31, ills. [Erroneously omitted from RPS for 1986.]

Braun, P. J. (1987): → Diers, L.

[23] Braun, P. J. (1987). Einige Anmerkungen zur Erstbeschreibung von *Micranthocereus streckeri* van Heek & van Criekinge. Kakt. and. Sukk. 38(9): 226-227, ills.

[24] Braun, P. J. & Esteves P., E. (1987). Revision der Gattung *Facheiroa* Britton & Rose (*Cactaceae*). Kakt. and. Sukk. 38(2): 26-33, (4): 82-85, (8): 184-187, ills., SEM-ills., map. [Continued in vol. 39.]

[25] Bravo-H., H. & Sanchez-Mejorada, H. (1987). Notas sobre las *Cactaceas* de Mesoamerica. Cact. Suc. Mex. 32(1): 21-24, ills. [Concluded from vol. 31. This instalment covers *Stenocereus aragonii* and contains the bibliography.]

[26] Bregman, R. et al. (1987). Het geslacht *Matucana* Br. & R. Succulenta 66(1): 4-7, (2): 36-38, (3): 56-59, (4): 87-91, (5): 113-116, (7/8):

158-162, (9): 175-178, key, ills., SEM-ills. [Continued from vol. 65, continued in vol. 67.]

[27] Brummitt, R. K. (1987). Proposal 673: 5408 *Stenocactus* (K. Schum.) A. Berger vs. *Echinofossulocactus* Lawrence, etc. In: Report of the Committee for Spermatophyta, 33. Taxon 36(4): 734-735.

[28] Bruyns, P. V. (1987). Miscellaneous notes on *Stapeliaceae* (*Asclepiadaceae*). *Bradleya* 5: 77-90, ills., maps. [Includes notes on the genus *Caralluma* in Europe, and on *Caralluma hexagona* Lavranos.]

[29] Bruyns, P. V. (1987). The genus *Caralluma* R. Brown (*Asclepiadaceae*) in Israel. *Israel J. Bot.* 36(2): 73-86, ills., maps. [Reprinted in *Asklepios* 45: 32-44, ills., 1988.]

[30] Bruyns, P. V. & Vosa, C. G. (1987). Taxonomic and cytological notes on *Bowiea* Hook. f. and allied genera (*Liliaceae*). *Caryologia* 40(4): 287-297, fig., map, chromosome ills.

[31] Burton, C. M. (1987). *Hoya betchei* / *Hoya chlorantha*, etc. *Hoyan* 8(4): 61-65, ills.

[32] Burton, C. M. (1987). *Hoya camphorifolia* vs. *Hoya fischeriana*. *Hoyan* 9(2): 23-26, ills.

[33] Busek, J. (1987). *Pediocactus peeblesianus* (Croizat) L. Benson und seine Varietäten – kleine Juwelen aus dem Südwesten der USA. *Kakt. and Sukk.* 38(7): 158-161, ills.

[34] Carolin, R. (1987). A review of the family *Portulacaceae*. *Austral. J. Bot.* 35(4): 383-412, ills.

[35] Carter, S. (1987). Problems of distinction among succulent *Euphorbia* species from Eastern Tropical Africa. *Bot. J. Linn. Soc.* 94: 67-78, ills.

[36] Carter, S. (1987). *Euphorbias* from East Africa, part. 4. Pax's species from German Collections. *Euphorbia J.* 4: 92-101, ills. [Continued from vol. 3.]

[37] Carter, S. (1987). New taxa in *Euphorbia* subgen. *Euphorbia* from Eastern Tropical Africa. *Kew Bull.* 42(2): 371-383, ills.

[38] Carter, S. (1987). Taxonomic changes in *Synadenium* (*Euphorbiaceae*) from East Africa. *Kew Bull.* 42(3): 667-671, ills.

[39] Carter, S. (1987). New species and taxonomic changes amongst the succulent trees and shrubs of *Euphorbia* subgen. *Euphorbia* from East Africa. *Kew Bull.* 42(3): 673-682, ills.

[40] Carter, S. (1987). New taxa and observations in *Monadenium* (*Euphorbiaceae*) in East Africa. *Kew Bull.* 42(4): 903-918, ills.

[41] Carter, S. & Gilbert, M. G. (1987). *Euphorbia heterochroma*, *E. stapfii* and related taxa. *Kew Bull.* 42(2): 385-394, map, key. [Includes a key for this group of closely related taxa.]

[42] Chahinian, B. J. (1987). The *Sansevieria*

*trifasciata* varieties. A presentation of all cultivated varieties. *Reseda* (USA): Trans Terra Publishing, 110 pp., ills. [Dated 1986, published early in 1987.]

[43] Chvastek, J. (1987). *Thelocactus bicolor* (Gal.) Br. & R. a jeho variabilita. *Kaktusy* 23(1): 2-8, ills.

Clarkson, R. B. (1987): → Romeo, P. A.

[44] Codd, L. E. (1987). *Tetradenia nervosa*. *Adenium obesum*. *Pachypodium lealii*. *Flow. Pl. Afr.* 49(3-4): pl. 1949, pl. 1953, pl. 1959, + text. [*Tetradenia nervosa* is a labiate with semi-succulent leaves.]

[45] Cole, D. T. (1987). *Lithops* of SWA / Namibia. *Madoqua Memoir*, 1. 46 pp., map, col. ills. [Includes a descriptive terminology for the genus.]

[46] Collette, S. (1987). Spiny *Euphorbias* in Saudi Arabia. *Euphorbia J.* 4: 102-122, ills., map.

[47] Costanzo, M. & P. (1987). *Sempervivum* L. & *Jovibarba* Opiz. *Piante Grasse* 7(2): 33-46, ills., map. [Includes a checklist of taxa.]

[48] Court, G. D. (1987). *Fockea* Endl. – an african genus. *Asklepios* 40: 69-74, ills.

[49] Cremers, G. & Sell, Y. (1987). Architecture végétative et structures inflorescentielles chez les *Didiereaceae* de Madagascar. *Beitr. Biol. Pfl.* 61(3): 381-400, ills.

[50] Cumming, D. (1987). The affinities of *Haworthia bruynsii* Bayer. *Brit. Cact. Succ. J.* 5(1): 3-5, ills.

[51] Danin, A. (1987). Contributions to the flora of Israel and Sinai: 1. Studies in the apetalous genera *Minuartia*, *Silene*, *Polygala* and *Sedum*. *Israel J. Bot.* 36(2): 63-71, ills. [Includes data on *Sedum litoreum*.]

Davis, T. E. (1987): → Fitz Maurice, W. A.

Dehn, M. (1987): → Hartmann, H. E. K.

[52] Diavatis, B. (1987). *Caralluma sacculata* N. E. Brown. *Asklepios* 41: 7-8, ills.

[53] Diers, L. & Braun, P. J. & Esteves P., E. (1987). Studien zur Klärung der Art *Leocereus melanurus* (K. Schumann) Britton & Rose. *Kakt. and Sukk.* 38(12): 312-315, ills. [Includes the new combination *Arthrocerus melanurus*.]

[54] Dizerbo, A. H. (1983). *Le Sedum × bergeri* P. Fournier. *Bull. Soc. Sci. Bretagne* 55(1-4): 63-68.

[55] Donkelaar, R. van (1987). *Dischidia pectenoides*, een nieuwe kamerplant ? *Hoya Nieuwsbrief* No. 5: 2-8, ills.

[56] Dowers, J. E. & McLaughlin, S. P. (1987). Flora and vegetation of the Rincon Mountains, Pima County, Arizona. *Desert Pl.* 8(2): 51-94, ills. [Includes a species list with ecological data, incl. data on taxa of *Cactaceae*, *Crassulaceae*,

*Portulacaceae, Agavaceae.*]

[57] Drawert, J. (1987). Ein seltener chilenischer "Erdkaktus": *Thelocephala nuda* F. Ritter. *Kakt. / Sukk.* 22(3): 71-74, ill., SEM-ills.

[58] Eggli, U. (1987). *Sedum mexicanum* Britton. *Kakt. and. Sukk.* 38(2): 34-36, ill.

[59] Eggli, U. (1987). Curt Backeberg und die Erforschung der Kakteen. *Kakt. and. Sukk.* 38(5): 112-116, (6): 140-143, ill. [Biography of C. Backeberg.]

[60] Eggli, U. (1987). Neue Taxa der Gattung *Rosularia* (De Candolle) Stapf (*Crassulaceae* – *Sedoideae*). *Kakt. and. Sukk.* 38(6): 134-138, ill., l.c. (8): (81) (erratum).

[61] Eggli, U. (1987). A type specimen register of *Cactaceae* in Swiss Herbaria. Register der Typ-Belege von Cactaceen in Schweizer Herbarien. *Trop. subtrop. Pfl.welt* 59. 124 pp., ill.

Esteves P., E. (1987): → Braun, P. J.

Esteves P., E. (1987): → Diers, L.

[62] Ferguson, D. J. (1987). *Opuntia cymochila* Eng. & Big., a species lost in the shuffle. *Cact. Succ. J. (US)* 58(6): 256-260, ill. [Includes a key to the U.S. species of the *Opuntia compressa* group.]

[63] Fitz Maurice, W. A. (1987). Fieldnotes. *Cact. Succ. J. (US)* 58(6): 247-249, ill. [On the re-discovery of *Gymnocactus gielsdorffianus*.]

[64] Fitz Maurice, W. A. & Davis, T. E. (1987). Fieldnotes. *Cact. Succ. J. (US)* 58(4): 144-145, ill. [Description of a small variant of *Ariocarpus fissuratus*.]

[65] Forster, P. I. (1987). *Orbea* Haw. or *Stapelia* L. (*Asclepiadaceae*): a choice of generic names for the naturalised carrion flower. *Austral. Syst. Bot. Soc. Newslett.* 53: 406.

[66] Forster, P. I. (1987). *Euphorbia sarcostemmoides* J. H. Willis: a rare Australian endemic. *Euphorbia J.* 4: 123-130, ill.

[67] Fourie, S. P. (1987). An introduction to the succulent Euphorbias of the Transvaal. *Euphorbia J.* 4: 48-68, ill., maps. [Continued from vol. 3.]

[68] Fritz, G. (1987). Was ist *Turbinicarpus roseiflorus* Backeberg? *Kakt. and. Sukk.* 38(1): 8-9, ill.

[69] Fu, K. T. (1987). [in Chinese:] *Chuhsingianum*, a new subgenus of *Sedum* from China. *Bull. Bot. Res. North-East. Forest. Inst.* 7(1): 67-70, ill.

[70] Gentry, H. S. (1978). The Agaves of Baja California. *Occ. Pap. Calif. Acad. Sci.*, no. 130. 119 pp., ill., maps, keys. [Omitted from RPS so far. Contains several new taxa (see NOMINA NOVA of this RPS).]

[71] Gerloff, N. (1987). Die Verbreitung der kleinblütigen *Paucispini*. Info.-material

Arbeitsgemeinschaft. *Notokakt.* 1987: 4-8, 2 maps. [Czech translation published in *Minimus* 18(3): 41-47, 2 maps, 1987.]

[72] Gerloff, N. (1987). *Notocactus* spec. Schl[osser] 155 – ein schöner Vertreter der *Paucispini* aus Norduruguay. *Internoto* 8(2): 35-38, ill. [Closely allied to *Notocactus megapotamicus*.]

[73] Gerloff, N. (1987). *Notocactus* spec. HU 37 – eine schöne Form des *Notocactus archavaletai* (Speg.) Herter var. *alacriportanus* Ritter. *Internoto* 8(3): 67-74, ill.

[74] Gerloff, N. (1987). *Notocactus* 7. *Paucispini*-Blätter 1-52. Ludwigsburg (BRD): published by the author. 82 pp., ill.

[75] Gertel, W. (1987). Sympatrisches Vorkommen zweier *Sulcorebutia*-Arten: *Sulcorebutia frankiana* Rausch und *S. alba* Rausch. *Kakt. and. Sukk.* 38(12): 310-311, ill.

Gilbert, M. G. (1987): → Carter, S.

[76] Gilbert, M. G. (1987). Two new geophytic species of *Euphorbia* with comments on the subgeneric grouping of its African members. *Kew Bull.* 42(1): 231-244, ill.

[77] Glen, H. F. (1987). *Aloe hardyi*. *Ruschia namaquana*. *Flow. Pl. Afr.* 49(3-4): pl. 1942, pl. 1960, + text.

Glen, H. F. (1987): → Retief, E.

[78] Glen, H. F. & Hardy, D. S. (1987). *Aloe fouriei*, *Aloe marlothii* ssp. *orientalis*, *Aloe cooperi* ssp. *pulchra*. *Flow. Pl. Afr.* 49(3-4): pl. 1941, pl. 1943, pl. 1944, + text.

[79] Glen, H. F. & Hardy, D. S. (1987). Nomenclatural notes on three southern African representatives of the genus *Aloe*. *South Afr. J. Bot.* 53(6): 489-492, maps, keys.

[80] Gratias, J. (1987). Rod *Pachyphytum* Link, Klotzsch et Otto. *Aztekia* 9: 26-29, 2 figs. (appendix). [Vol. for 1986, published 1987.]

[81] Grierson, A. J. C. & Long, D. C. (1987). Flora of Bhutan: including a record of plants from Sikkim. Vol. 1, part. 3. Edinburgh (GB): Royal Botanic Gardens. pp. 466-834, ill., keys. [This part includes the *Crassulaceae*.]

[82] Groen, L. E. (1987). *Astroloba* Uitew. *Succulenta* 66(3): 51-55, (4): 82-87, (5): 110-113, (7/8): 162-167, (9): 171-174, (12): 261-263, key, maps, ill., SEM-ills. [Concluded from vol. 65.]

[83] Gröner, G. (1987). Die falsche Lobvie – eine echte Schönheit. *Gartenpraxis* 13(1): 46-48, ill. [On the confusion of *Lobivia famatimensis* with *L. densispina*.]

[84] Gutierrez, J. (1984). Los cactus nativos de Cuba. La Habana (Cuba): Editorial Científico-Técnica. 36 pp., ill., maps, keys.

[85] Hammer, S. (1987). *Conophytum burgeri*. *Aloe* 24(1): 15-17, ill.

- [86] Hammer, S. (1987). *Conophytum* – the section *Barbata*. Cact. Succ. J. (US) 58(1): 32-34, ill.
- [87] Hammer, S. (1987). Notes on *Conophytum smorenskadiense*. Cact. Succ. J. (US) 58(3): 109-112, 117, ills.
- Hardy, D. S. (1987): → Glen, H. F.
- [88] Hargreaves, B. J. (1987). Succulent spurges of Malawi. Roma (Lesotho): Abu Chilembwe Press. 89 pp., ills. [Includes descriptions of taxa of *Euphorbia*, *Jatropha*, *Monadenium* and *Synadenium*.]
- Harold, K. (1987): → Bayer, M. B.
- [89] Hart, H. 't (1987). Natural hybrids in *Sedum* (*Crassulaceae*). 1. Two new hybrids of *S.* series *Rupestria* and a new locality of *S.* × *brevierei*. Bot. Jahrb. Syst. 109(1): 1-16, ills.
- [90] Hartmann, H. E. K. (1987). Phytogeography of the subtribe *Leipoldtiinae* (*Mesembryanthemaceae*). Bothalia 17(2): 205-212, ills., maps.
- [91] Hartmann, H. E. K. & Dehn, M. (1987). Monographien der *Leipoldtiinae*. 7. Monographie der Gattung *Cheiridopsis* (*Mesembryanthemaceae*). Bot. Jahrb. 108(4): 567-663, ills., maps, keys.
- [92] Haugg, E. (1987). Auf der Suche nach *Parodia gibbulosa* Ritter. Kakt. and. Sukk. 38(1): 4-6, ills.
- [93] Haun, R. (1987). Rebutien ans Licht gerückt: 13. *Aylostera fiebrigii* (Gürke) Backeb. Kakt. / Sukk. 22(3): 81-83, ills. (pp. 85-88).
- [94] Havlicek, R. (1987). Die Untergattung *Notocactus* sensu Buxbaum – Gruppierung der Arten der "Besenförmigen" und der heutige Stand der Kenntnisse über die Arten, etc. Internoto 8(1): 21-26, (2): 47-53, ills., maps. [Revised version of a paper already published earlier in "Minimus". Continued from vol. 7.]
- [95] Hayashi, M. (1987). Callus characteristics and classification of *Haworthia* and allied genera. South Afr. J. Bot. 53(6): 411-423.
- [96] Heath, P. V. (1987). *Haworthia margariifera* and *Haworthia pumila*. Sussex Cact. Succ. Yearb. 1987: 63-64, 62.
- [97] Herzog, E. (1987). Arten der Gattung *Lobivia*: 4. *Lobivia tiegeliana* Wessner. Kakt. / Sukk. 22(1-2): 37-53, ills., map.
- [98] Hjerson, S. (1987). A survey of the genus *Discocactus*. Sussex Cact. Succ. Yearb. 1987: 17-29, ills. [Uncritical checklist of taxa.]
- [99] Hofacker, A. (1987). Ist *Notocactus tenuicylindricus* Ritter ein Synonym von *N. minimus* Fric & Kreuzinger? Internoto 8(3): 75-78, ill.
- [100] Horich, C. K. (1987). Die *Opuntia* von den Rio Grande Kippen: Ein Neufund? Kakt. and. Sukk. 38(1): 1-3, ills.
- [101] Horich, C. K. (1987). In der Heimat von *Pereskia bleo* (HBK.) De Candolle. Kakt. and. Sukk. 38(3): 53-55, ills.
- [102] Horich, C. K. (1987). Die Heimat von *Disocactus lankesteri* Kimmach. Kakt. and. Sukk. 38(8): 188-190, ills.
- [103] Hunt, D. R. (1987). A new review of *Mammillaria* names. Bradleya 5: 17-48, ills. [Concluded from vol. 4. The entire series has been issued as a separate booklet, conserving the original pagination.]
- [104] Hunt, D. R. (1987). *Sedum lucidum*. Kew Mag. 4(2): 64-66, pl. 75, ill.
- [105] Hunt, D. R. & Taylor, N. P. (1987). New and unfamiliar names of *Cactaceae* to be used in the European Garden Flora. Bradleya 5: 91-94.
- [106] Ihlenfeldt, H.-D. & Struck, M. (1987). Morphologie und Taxonomie der *Dorotheanthinae* Schwantes (*Mesembryanthemaceae*). Beitr. Biol. Pfl. 61(3): 411-453, ills., maps, keys.
- [107] Jaarsveld, E. van (1987). The succulent riches of South Africa and Namibia. Aloe 24(3-4): 45-92, ills. [Enumeration and short discussion of families with succulent plants in South Africa and Namibia.]
- Jaarsveld, E. van (1987): → Koutnik, D.
- [108] Jackson, W. P. U. (1987). *Crassula versicolor* Burchell ex Edwards. Veld & Flora 73(1): 33-34, ills.
- [109] Jimenez, A. M. (1984). Flora de Cochabamba. Santa Cruz de la Sierra: Imprenta 'Los Huerfanos'. 390 pp., ills., maps. [Succulents are covered as follows: *Cactaceae* (pp. 69-80), *Portulacaceae* (pp. 80-82) and *Crassulaceae* (p. 120).]
- [110] Jonkers, B. (1987). Enkele Nedercalifornische gehaakdoornigen nogmaals beschouwd. Succulenta 66(2): 38-42, ill. [Some nomenclatural remarks on taxa of *Mammillaria*.]
- [111] Kimberley, M. J. (1987). *Euphorbia wildii* and the man after whom it was named. Cact. Succ. J. (US) 58(3): 92-96, ills.
- [112] Kimberley, M. J. (1987). Notes on *Euphorbia decidua*. Cact. Succ. J. (US) 58(5): 221-225, ills.
- [113] Kimmach, M. (1987). *Harrisia hahniana*. Cact. Succ. J. (US) 58(2): 59-62, ills.
- Kimmach, M. (1987): → Rauh, W.
- [114] Knize, K. (1987). KK-Index 1967-1987. Lima (Peru): Karel Knize. 100 pp. [Listing of Knize field numbers with approximate collection sites.]
- Kohler, E. (1987): → Alvarez, A.
- [115] Kolarik, J. & Lisal, K. (1987). *Notocactus*



- minimus* – *Notocactus tenuicylindricus*. *Minimus* 18(3): 50-59, ill., map.
- [116] Koutnik, D. & Jaarsveld, E. van (1987). The succulent Euphorbias of the Cape Peninsula of South Africa. *Euphorbia J.* 4: 77-91, ill., map.
- [117] Krähenbühl, F. (1987). *Lepidocoryphantha macromeris* (Engelmann) Backeberg und *L. runyonii* (Britton & Rose) Backeberg. *Kakt. and Sukk.* 38(8): 182-183, ill.
- [118] Krell, S. (1987). Zur Verbreitung von *Notocactus minimus* und *Notocactus tenuicylindricus*. *Internoto* 8(1): 6-9, ill., map.
- Kroesen, A. C. J. (1987): → Boele, C.
- [119] Kurkin, V. A. et al. (1986). Khimicheskoe issledovanie nekotorykh vidov rodov *Rhodiola* L. i *Sedum* L. i voprosy ikh khemosistematiki. *Rast. Resursy* 22(3): 310-319.
- [120] LaFon, R. (ed.) (1987). The succulent *Euphorbiaceae*. Photographic collection and descriptions. *Euphorbia J.* 4: 131-164, ill. [Continued from vol. 3.]
- [121] Lambert, J. (1987). *Gymnocalycium kieslingii* versus *G. alboareolatum*. *Succulenta* 66(7/8): 146-151, ill., SEM-ills.
- [122] Lang, W. (1987). Die Petalen des *N. ottonis* (Lehm.) Berger ex Backeberg in der Literatur. *Internoto* 8(4): 106-108, ill.
- [123] Leue, M. (1987). Die Schönheit der Blattkakteen. *Epiphyllum*. The splendour of leaf cacti. Haunetal (BRD): Marga Leue publisher. 125 pp., ill. [Included on account of the many illustrations of recent hybrids of 'orchid cacti'.]
- [124] Leuenberger, B. E. (1987). Über *Pereskia bleo* (Kunth) De Candolle und *Pereskia grandifolia* Haworth. *Kakt. and Sukk.* 38(11): 266-269, ill., map.
- [125] Leuenberger, B. E. (1987). Was ist *Cereus squamosus* Gürke? *Kakt. and Sukk.* 38(3): 60-63, ill.
- [126] Leuenberger, B. E. (1987). *Pereskia* oder *Peireskia*: Eine immer noch umstrittene Frage? *Kakt. and Sukk.* 38(4): 96-100, ill.
- [127] Leuenberger, B. E. (1987). A preliminary list of *Cactaceae* from the Guianas and recommendations for future collecting and preparation of specimens. *Willdenowia* 16: 497-510.
- Lisal, K. (1987): → Kolarik, J.
- [128] Lomeli S., J. A. (1987). Poblaciones silvestres de *Nyctocereus serpentinus* en Jalisco. *Cact. Suc. Mex.* 32(2): 46-47, ill.
- Long, D. C. (1987): → Grierson, A. J. C.
- [129] Lüthy, J. (1987). Die ältesten Mammillarien. *Kakt. and Sukk.* 38(1): 11-15, ill., map. [On evolutionary concepts in some series of the genus.]
- [130] Malaisse, F. (1987). Diversity and splendour of succulent dwarf *Monadenium* geophytes in Zaïre. *Cact. Succ. J. (US)* 58(5): 204-207, key, ill.
- [131] Marx, G. (1987). *Euphorbia albipollinifera* Leach, a recently described species from the South-Eastern Cape Province. *Aloe* 24(1): 18-19, ill.
- [132] Matis, J. (1987). Rastliny okruhu *Borzicactus* (SG. *Matucana*) *madisoniorum*. *Acta Chilenia* 3(3):1-7, diag.
- [133] Mazel, B. (1987). Lokality kaktusu v mexickém státě Hidalgo. *Aztekia* 9: 44-51, map. [Vol. for 1986, published 1987.]
- McLaughlin, S. P. (1987): → Dowers, J. E.
- [134] McNeill, J. & al. (1987). American Code and later lectotypifications of Linnaean generic names dating from 1753: a case study of discrepancies. *Taxon* 36(2): 350-401. [*Cactus* L. is covered on pp. 363-364, *Jatropha* L. on p. 375.]
- [135] Menges, R. (1987). *Notocactus scopa* var. *machadoensis* n.n. *Internoto* 8(4): 109-111, ill. [Provisional name based on Horst & Uebelmann 184.]
- [136] Merregalli, M. (1987). Rapporto preliminare sui *Gymnocalycium* appartenenti al gruppo *Mazanense* Backeberg. Parte III. Piante Grasse 7(1): 3-11, ill. [Continued from vol. 6. Includes an English translation.]
- [137] Metzging, D. (1987). *Gymnocalycium vatteri* – *Gymnocalycium moserianum*. *Gymnos* 4(7): 37-43, map, figs. 2-4.
- [138] Meve, U. (1987). *Quaqua inversa* var. *cincta* (Luckhoff) Bruyns und *Huernia kennedyana* Lavranos – blühende Raritäten am Standort in der Kapprovinz. *Kakt. and Sukk.* 38(11): 286-288, ill.
- [139] Meyran Garcia, J. & Piña Luján, I. (1986). *Cactaceae* y otras suculentas del Estado de Mexico. Mexico D.F.: Ediciones Gobierno del Estado de Mexico (Serie Documentos). 135 pp., ill., maps, keys. [Includes *Cactaceae*, *Crassulaceae*, *Agavaceae*, etc.]
- [140] Meyran, J. (1987). Las *Cactaceae* y otras suculentas del Estado de Veracruz. *Cact. Suc. Mex.* 32(4): 93-100, ill., map.
- [141] Milos, K. (1987). *Sedum creticum* C. Presl - a forgotten species. *Preslia* 59: 307-310. [Not seen.]
- [142] Moran, R. (1987). *Dudleya nubigena* (Brandegge) Britton & Rose. *Cact. Succ. J. (US)* 58(6): 235-242, ill.
- [143] Moran, R. (1987). *Dudleya rigida* Rose. *Cact. Succ. J.* 58(5): 187-194, ill., l.c. (6): 242 (erratum).
- [144] Müller, H. D. (1987). Mikroradiografien

von Kakteensamen. Kakt. and. Sukk. 38(8): 196-197, ill. [Included as novel method for seed investigation.]

[145] Nakai, K. M. (1987). *Crassulaceae* in Southern California Deserts. *Crossosoma* 13(3): 1-6, ill., keys.

[146] Nakai, K. M. (1987). Some new and reconsidered California *Dudleya* (*Crassulaceae*). *Madroño* 34(4): 334-353, ill., map, key.

Narain, P. (1987): → Srivastava, S.

[147] Neduchal, J. (1987). Brasilparodien – ein Überblick. *Frankfurter Kakt.-Freund* 1987(4): 88-96, ill.

[148] Neduchal, J. (1987). *Notocactus* 6. Namen, Feldnummern, Fundorte, Synonyme, Bemerkungen. Neu-Isenburg (BRD): published by the author. 44 pp. [A revised version of *Notocactus* 3 (publ. 1981).]

[149] Neutelings, T. M. W. (1987). *Mammillaria*-reeksen nader bekeken – *Ancistracanthae*. *Succulenta* 66(1): 15-16, ill. [Continued from vol. 65.]

[150] Newton, L. E. (1987). An amplified description of *Euphorbia бага* Chevalier (*Euphorbiaceae*), with notes on variation and description of a new variety. *Bot. J. Linn. Soc.* 94: 453-464, ill., map.

[151] Newton, L. E. (1987). Succulent plants in print. The story of a private library, with a catalogue of books, pamphlets, and serial publications. Dagenham (GB): published by the author. 142 pp., 1 ill. [A detailed bibliography.]

[152] Newton, L. E. (1987). A Check List of Kenyan Aloes. *East Afr. Nat. Hist. Soc. Bull.* 17(2): 16-17.

[153] Niemeier, W. (1987). Am Standort von *Mammillaria subtilis* Backeberg – ist sie synonym mit *Mammillaria pilispina* Purpus ? *Mitteilungsbl. AfM* 11(3): 96-102, ill., map.

[154] Nilsson, M. (1987). *Lobivia marsoneri* (Werd.) Backbg. *Kaktus (Odense)* 22(4): 87-91, map, ill.

[155] Nixon, C. W. (1987). *Sempervivum* aggregate names. *Sempervivum Fanciers Assoc. Newslett.* 13(4): 20, 23.

Noltee, F. K. A. (1987): → Boele, C.

[156] Nyananyo, B. L. (1987). Taxonomic studies in the genus *Portulaca* L. (*Portulacaceae*). *Feddes Repert.* 98(7-8): 399-402, keys. [Includes chromosome numbers.]

[157] Nyananyo, B. L. (1987). Lectotypification of *Ceraria* (*Portulacaceae*). *Taxon* 36(1): 115-116.

[158] Nyananyo, B. L. (1987). *Portulacaceae*. In: Löve, A. (ed.): Chromosome number reports. XCVI. *Taxon* 36(3): 661.

[159] Oeser, R. (1987). Bemerkungen und Ergänzungen zu dem Artikel über den *Sulcorebutia verticillacantha*-Formenkreis von Rolf Weber. *Inform.-Brief ZAG Echinopseer* 10: 14-17.

[160] Ohba, H. (1987). Biogeography of the genus *Rhodiola* (*Crassulaceae*). *Acta Phytotax. Geobot.* 38: 211-223, maps.

[161] Orozco, C. (1987). Estudio anatómico de la epidermis de 7 especies de *Opuntia* de 20 localidades del Valle de México. *Cact. Suc. Mex.* 32(4): 87-92, diags., map.

[162] Ostolaza, C. (1987). *Browningia candelaris* (Meyen) Br. & R. A new habitat for an old cactus species. *Cact. Succ. J. (US)* 58(1): 13-15, ill.

[163] Palomino, G. & Zulueta, S. & Scheinvar, L. (1987). *Cactaceae*. In: Löve, A. (ed.): Chromosome number reports. XCVI. *Taxon* 36(1): 284-185.

[164] Parker, K. C. (1987). Seedcrop characteristics and minimum reproductive size of Organ Pipe Cactus (*Stenocereus thurberi*) in southern Arizona. *Madroño* 34(4): 294-303, ill.

[165] Parkinson, P. G. (1987). Adanson's generic names for seed plants: Validation and typification, part 1: Nomina Conservanda and Nomina Conservanda Proposita. *Taxon* 36(1): 81-87. [Included is information on *Kalanchoe* Adanson.]

[166] Pfennig, H. (1987). Zur Herkunft von *Kalanchoe figuereidoi* Croizat. *Kakt. and. Sukk.* 38(12): 308.

[167] Pichler, G. (1987). Die Variationsbreite der Echinocereen an ihren natürlichen Standorten am Beispiel des *Echinocereus adustus* Engelmänn (syn. *E. radians* Engelmänn). *Kakt. and. Sukk.* 38(1): 6-7, ill.

[168] Piens, E. (1987). *Parodia schuetziana* Jajó. *Succulenta* 66(7/8): 155-158, ill.

Piña Luján, I. (1986): → Meyran Garcia, J.

Pinkava, D. J. (1987): → Baker, M. A.

[169] Pot, J. & Abbenes, D. (1987). Determineren van *Rebutia*. Published by the author. 72 + 62 pp.

[170] Powys, G. (1987). Extracts from the diary of an amateur succulent collector's wanderings in northern Kenya. *Asklepios* 41: 3-6, ill. [Includes notes on several taxa of *Caralluma*.]

[171] Prestlé, K. H. (1987). *Notocactus minimus* Fric et Kreuzinger. *Internoto* 8(1): 10-14, ill., SEM-ills.

[172] Prestlé, K. H. (1987). *Notocactus tenuicylindricus* Ritter. *Internoto* 8(2): 43-46, ill., SEM-ills., map.

[173] Prestlé, K. H. (1987). *Notocactus gibberulus* Prestlé. *Internoto* 8(3): 82-84, ill.

- [174] Prestlé, K. H. (1987). *Notocactus securituberculatus* var. *miniatispinus* F. Ritter. *Internoto* 8(4): 120-123, ills.
- [175] Rauh, W. (1987). Madagascan Euphorbias: life & growth forms, part 2. *Euphorbia* J. 4: 11-26, ills. [Continued from vol. 3]
- [176] Rauh, W. & Kimnach, M. (1987). *Peperomia dolabella* Rauh & Kimnach, eine bemerkenswerte neue, knollenbildende *Peperomia* aus Nordperu. *Kakt. and. Sukk.* 38(3): 63-66, ills. [See formal entry under *Nomina Nova.*]
- [177] Rausch, W. (1987). *Lobivia* 85. Wien (A): Verlag R. Herzig. 160 pp., numerous col. ills., SEM-ills., 1 map. [Dated 1985/86, but only effectively distributed in spring 1987.]
- [178] Reppenhagen, W. (1987). Die Gattung *Mammillaria* nach dem heutigen Stand meines Wissens. Münster (D): Arbeitskreis für Mammillarienfreunde e.V. 223 pp., ills., SEM-ills. [Errata published in *Mitteilungsbl. AfM* 11(3): 92, 1987; index of new taxa published l.c. 11(3): 90-91.]
- [179] Retief, E. & Glen, H. F. (1987). *Cyphostemma oleraceum*. *Cyphostemma hardyi*. *Cyphostemma juttae*. *Flow. Pl. Afr.* 49(3-4): pl. 1954, pl. 1955, pl. 1956, + text.
- [180] Rizzini, C. T. (1986). Sobre a Cactacea dendroide do calcario de Minas Gerais. *Rev. Brasil. Biol.* 46(4): 781-784, ills.
- [181] Rogozinski, H. (1987). Ein vorläufiger Beitrag zum Themenkreis um *Mammillaria gasseriana* Böd. *Mitteilungsbl. AfM* 11(1): 6-11, (2): 39-45, (3): 76-87, ills., SEM-ills. [Continued from vol. 10.]
- [182] Rogozinski, H. (1987). *Mammillaria candida* Scheidweiler: *Mammillaria* of *Mammilloidya*? Heeft Buxbaum zich vergist? *Succulenta* 66(4): 91-94, (5): 107-110, (7/8): 167), ills., SEM-ills. [German translation in *Mitteilungsbl. AfM* 11(4): 135-141, (5): 155-166, ills., SEM-ills.]
- [183] Romeo, P. A. & Stephenson, S. L. & Clarkson, R. B. (1987). Systematics of *Opuntia* (Cactaceae) in the central Appalachians. *Bull. Torrey Bot. Club* 114(1): 8-12.
- [184] Rowley, G. D. (1987). The Duchess of Beaufort's succulent plants. *Bradleya* 5: 1-16, ills. [A historical account, including information on possible introduction dates for several taxa.]
- [185] Rowley, G. D. (1987). Caudiciform and pachycaul succulents: pachycauls, bottle-, barrel- and elephant-trees and their kin, a collector's miscellany. Mill Valley (USA): Strawberry Press. xiii + 282 pp., ills. [Covers many families of succulent plants.]
- [186] Ruhl, K. (1987). Bemerkungen über *Echinocereus kuenzleri* Castetter et al. und *Echinocereus hemPELLii* Fobe. *Kakt. and. Sukk.* 38(7): 170-171, ills.
- [187] Sankaria, J. S. (1987). Indian Succulent Log. Part. VIII ("part VIX"). *J. Nation. Cact. Succ. Soc. India* 6(1): 44-64. [Includes records of important collections made during 1977. Volume for 1986, published 1987.]
- [188] Sauer, N. (1987). *Ophthalmophyllum littlewoodii*. *Aloe* 24(2): 28, ills.
- [189] Schäfer, G. (1987). Über die Bildung von Sprossen bei den *Paucispini*. *Info.-Material Arbeitsgemeinschaft. Notokakt.* 1987: 19-23.
- [190] Schätzle, P. (1987). *Echinocereus* spec. "Rio Nazas" - eine neue Varietät des *Echinocereus adustus* Engelman? *Kakt. and. Sukk.* 38(10): 258-259, ills.
- [191] Schätzle, P. (1987). *Echinocereus* spec. Lau 1143. *Kakt. and. Sukk.* 38(12): 306-307, ills. [= *Echinocereus koehresianus* nom. nud.]
- [192] Schätzle, P. (1987). *Echinocereus grandis* Britton & Rose mit weisser Blüte. *Kakt. and. Sukk.* 38(4): 102-103, ills. [Included on account of the illustration of this taxon and of *Echinocereus websterianus.*]
- [193] Scheinvar, L. (1987): → Palomino, G.
- [194] Schütz, B. (1987). Monografie rodu *Gymnocalycium*. Brno (CSSR): Vydal Klub Kaktusáru Astrophytum Brno. 150 pp., ills. [Dated 1986, published 1987. Erratum sheet published and distributed separately. Supplement published 1988.]
- [195] Sell, Y. (1987): → Cremers, G.
- [196] Slaba, R. (1987). Notokaktusy komplexu *N. horstii*. *Kaktusy* 23(4): 75-79, ills.
- [197] Slaba, R. (1987). *Gymnocalycium saglionis* (Cels) Br. et Rose emend. Krainz. *Kaktusy* 23(4): 81-84, ills.
- [198] Smeaton, J. (1987). The flowering of *Didierea trollii*. *Brit. Cact. Succ. J.* 5(2): 41-42, ills.
- [199] Srivastava, S. & Narain, P. & Srivastava, G. S. (1987). A new basic chromosome number in *Euphorbia* based on male meiosis of *E. clandestina* Jacquin. *Cytologica* (Japan) 52(3): 627-630, ills.
- [200] Steeger, R. (1987). Die zwei rotblühenden Varietäten des *Notocactus ottonis*. *Info.-Material Arbeitsgemeinschaft. Notokakt.* 1987: 28-31.
- [201] Stephenson, S. L. (1987): → Romeo, P. A.
- [202] Struck, M. (1987): → Ihlenfeldt, H.-D.
- [203] Stuchlik, S. (1987). *Wigginsia leprosororum* Ritter. *Kaktusy* 23(1): 8-12, ills.
- [204] Stuchlik, S. (1987). *Notocactus orthacanthus* (Link et Otto) D. van Vliet. *Kaktusy*

23(2): 35-38, ills.

[201] Stuchlik, S. (1987). *Notocactus arechavaletai* Spegazzini a jeho variety. Kaktusy 23(6): 123-126, ills.

[202] Taylor, N. P. (1987). Additional notes on some *Ferocactus* species. Bradleya 5: 95-96, ill.

Taylor, N. P. (1987): → Hunt, D. R.

[203] Theunissen, J. (1987). Wat is *Notocactus apricus*? Succulenta 66(9): 182-187, ill.

Thorburn, M. (1987): → Walker, C. C.

[204] Till, H. & W. (1987). *Gymnocalycium mazanense* – ein "nomen dubium"? Gymnos 8(4): 79-85, ills., key.

[205] Toledo M., J. (1987). *Escobaria cubensis*. Brit. Cact. Succ. J. 5(1): 10-11, ill.

[206] Toledo M., J. (1987). *Melocactus holguinensis* Areces, una especie de la Provincia de Holguin, Cuba. Cact. Suc. Mex. 32(2): 39-41, ill.

Tyrassek, G. (1987): → Augustin, K.

[207] Urban, J. (1987). A propos du genre *Echinofossulocactus* Lawr. Succulentes 1987(1): 6-11, ills.

[208] Venter, K. (1987). A new field hybrid from the Transvaal? A suspected hybrid between *Euphorbia excelsa* and *Euphorbia enormis*. Euphorbia J. 4: 69-70, ills.

[209] Vorster, P. (1987). *Pelargonium magenteum*. Flow. Pl. Afr. 49(3-4): pl. 1947 + text. [The taxon has tuberous roots.]

[210] Wagenaar-Hummelink, P. (1987). Agavenproblemen op de Bovenwindse Eilanden der Kleine Antillen. Succulenta 66(1): 10-13, (3): 65-69, (6): 127-132, (9): 187-189, (10): 205-211, (12): 265-270, key, ills., tab. [Concluded from vol. 65.]

[211] Walker, C. C. (1987). *Pelargonium crassaule* L'Herit. Aloe 24(2): 32-34, ills.

[212] Walker, C. C. (1987). *Dischidia* – an obscure organism? Asklepios 40: 75-80, ills. [Includes bibliography of recent literature on the genus.]

[213] Walker, C. C. & Thorburn, M. (1987). The Euphorbias of Gran Canaria, Canary Islands. Euphorbia J. 4: 32-47, ills., map.

[214] Wallace, R. S. & Fairbrothers, D. E. (1987). The New England distribution of *Opuntia humifusa* (Raf.) Raf. Rhodora 89(859): 327-332, map.

[215] Weber, R. (1987). Der *Rebutia fiebrigii* (Gürke) Br. & R. -Formenkreis. Inform.-Brief ZAG Echinopseer 10: 5-10, ills. [Continued from no. 8, to be finished in no. 11]

[216] Weskamp, W. (1987). Die Gattung *Parodia*: Cuticula statt Arillushaut. Kakt. / Sukk.

22(1-2): 17-19, SEM-ills.

[217] Weskamp, W. (1987). Die Gattung *Parodia*. Kiel (D): published by the author. v + 600 pp., col. ills., SEM-ills.

[218] Weskamp, W. (1987). *Parodia muhrii* Brandt. Succulenta 66(6): 139-141, ill.

[219] Wickens, G. (1987). Flora of Tropical East Africa: *Crassulaceae*. Rotterdam (NL) / Boston (USA): A. A. Balkema. 66 pp., 1 map, ills. [Includes the following native genera: *Crassula*, *Sedum*, *Aeonium*, *Bryophyllum*, *Kalanchoe*, *Cotyledon*, *Umbilicus*.]

[220] Winkler, G. (1987). *Lobivia hertrichiana* Backeberg. Succulenta 66(5): 99-104, map, ills.

[221] Wolf, R. (1987). Beobachtungen am Standort der *Mammillaria schumannii* Hildmann. Mitteilungsbl. AfM 11(1): 11-16, ills.

[222] Wolters, C. (1987). An acquaintance with *Gymnocalycium multiflorum*. Brit. Cact. Succ. J. 5(3): 63-66, ills., map. [The same paper is also published in Kaktus (Odense) 22(2): 33-37, and in Gymnos 4(8): 68-78.]

[223] Wolters, C. (1987). Vi praesenterer... *Gymnocalycium spegazzinii* Br. & R. Kaktus (Odense) 22(3): 55-61, maps, ills. [The same paper is also published in an English translation in Brit. Cact. Succ. J. 6(1): 3-5, 1988 and in a German version in Gymnos 5(9): 20-29, 1988.]

[224] Zonneveld, B. J. M. (1987). The fourth *Jovibarba* hybrid with *J. heuffelii*. Sempervivum Fanciers Assoc. Newslett. 13(1): 1, 3, ill.

[225] Zonneveld, B. J. M. (1987). List of *Sempervivum* and *Jovibarba* cultivars and hybrids named by B. Zonneveld. Sempervivum Fanciers Assoc. Newslett. 13(2): 11-12.

[226] Zonneveld, B. J. M. (1987). *Sempervivum* × *barbulatum* 'Hookeri' vereist verandering van naam. Succulenta 66(2): 35-36, ill.

Zulueta, S. (1987): → Palomino, G.



## INDEX BIBLIOGRAPHIAE

The numbers refer to the entry numbers in the Bibliography. – Die Nummern verweisen auf die nummerierten Einträge in der Bibliographie.

### Agavaceae

- Agave 70 210
- floristic account 139
- palynology 3
- etiam Dracaenaceae

### Aizoaceae

- Cheiridopsis 91
- classification 16 106
- Conophytum 85 86 87
- distribution 90
- Lithops 45
- Ophthalmophyllum 188
- Ruschia 77

### Aloeaceae

- Aloe 77 78 79 152
- Astroloba 82 95
- Chortolirion 95
- Haworthia 11 50 95 96
- Poellnitzia 95

### Apocynaceae

- Adenium 44
- Pachypodium 44

### Asclepiadaceae

- bibliography 20
- Caralluma 15 28 29 52 170
- cytology 2
- Dischidia 55 212
- Duvalia 12
- Echidnopsis 21
- Fockea 48
- Hoya 8 31 32
- Huemia 138
- hybrids 12
- Orbea 65
- Quaqua 138

### Bibliography

- general 151

### Cactaceae

- Ariocarpus 64
- Arthrocareus 53
- Astrophytum 14
- Borzicactus 132
- Brasiliparodia 147
- Browningia 162
- Cactus 134
- Coryphantha 117
- cytology 163
- Discocactus 98
- Disocactus 102
- Echinocereus 18 167 186 190 191 192
- Echinofossulocactus 27 207

### Echinopsis 154 177 220

- ecology 164
- Escobaria 205
- Facheiroa 24 125
- Ferocactus 202
- field numbers 114
- floristic account 84 109 127 133 139
- general 105 180
- Gymnocactus 63
- Gymnocalycium 121 136 137 193 195 204 222 223
- Harrisia 113
- Hattoria 10
- herbaria 61
- hybrids 123
- Leocereus 53
- Lepidocoryphantha 117
- Lepismium 10
- Lobivia 83 97 154 177 220
- Mammillaria 5 103 110 129 149 153 178 181 182 221
- Matucana 26 132
- Melocactus 1 206
- Micranthocereus 23
- Neoporteria 57
- Notocactus 71 72 73 74 94 99 115 118 122 135 147 148 171 172 173 174 189 194 198 199 200 201 203
- Nyctocereus 128 163
- Opuntia 9 17 62 100 161 183 214
- Parodia 92 147 168 216 217 218
- Pediocactus 33
- Pereskia 101 124 126
- Rebutia 93 169 215
- Rhipsalis 10
- seeds 144
- Stenocactus 27 207
- Stenocereus 25 164
- Sulcorebutia 6 7 75 159
- Tephrocactus 17
- Thelocactus 4 43
- Thelocephala 57
- Turbincarpus 68
- Weingartia 7 22
- Wigginsia 199

### Crassulaceae

- Aeonium 219
- Bryophyllum 219
- chemotaxonomy 119
- Cotyledon 219
- Crassula 108 145 219
- Dudleya 142 143 145 146
- floristic account 81 109 139 219
- hybrids 89 155 225
- Jovibarba 47 224
- Kalanchoe 165 166 219

Pachyphytum 80  
 Rhodiola 119 160  
 Rosularia 60  
 Sedum 13 51 54 58 69 89 104 119 141 145  
 219  
 Sempervivum 19 47 155 226  
 Umbilicus 219

Didiereaceae  
 Didierea 196  
 general 49

Dracaenaceae  
 Sansevieria 42

Euphorbiaceae  
 cytology 197  
 Euphorbia 35 36 37 39 41 46 66 67 76 88 111  
 112 116 120 131 150 175 197 208 213  
 Jatropha 88 120 134  
 Monadenium 40 88 120 130  
 Synadenium 38 88

Geraniaceae  
 Pelargonium 209 211

Hyacinthaceae  
 Bowia 30

Lamiaceae  
 Tetradenia 44

Liliaceae  
 → etiam Aloeaceae  
 → etiam Asphodelaceae  
 → etiam Hyacinthaceae

Mesembryanthemaceae  
 → Aizoaceae

Peperomiaceae  
 → Piperaceae

Piperaceae  
 Peperomia 176

Portulacaceae  
 Ceraria 157 158  
 cytology 158  
 floristics 109  
 general 34  
 Portulaca 156 158  
 Portulacaria 157 158  
 Talinum 158

Vitaceae  
 Cyphostemma 179







