

Regnum Vegetabile vol. 73

**Reper-
torium
plantarum
succulen-
tarum
XX-1969**

Edited by G. D. Rowley, assisted by L. E. Newton

1971 Utrecht-Netherlands published for the International Association for Plant Taxonomy
by A. Oosthoek's Uitgeversmaatschappij N.V.

Regnum Vegetabile, a series of publications for the use of plant taxonomists, volume 73
Repertorium Plantarum Succulentarum XX

ISBN 90 6046 057 x

Reper- torium plantarum succulen- tarum

An annual index of all new names of succulent plants



*Published under the auspices of
The International Organisation for Succulent Plant Study
l' Organisation Internationale de Recherches sur les Plantes Succulentes
Der Internationalen Organisation für Sukkulentenforschung
(Int. Commission for Succulent Plant Study of the I.U.B.S.)*

Reper- torium plantarum succulen- tarum XX-1969



*Edited by G. D. Rowley,
Agricultural Botany Department,
The University,
Reading, England,*

*assisted by L. E. Newton
The University,
Kumasi,
Ghana.*

*May 1971
Utrecht, Netherlands
Published for the International Association for Plant Taxonomy
by A. Oosthoek's Uitgeversmaatschappij N.V.
Domstraat 5-13, Utrecht, Netherlands*

Contents XX

COMBINACIONES NOVAE 1951 (Supplement)	7
DESCRIPTIONES NOVAE 1961 (Supplement)	7
COMBINACIONES NOVAE 1961 (Supplement)	7
DESCRIPTIONES NOVAE 1962 (Supplement)	7
COMBINACIONES NOVAE 1962 (Supplement)	7
DESCRIPTIONES NOVAE 1964 (Supplement)	8
COMBINACIONES NOVAE 1964 (Supplement)	8
DESCRIPTIONES NOVAE 1965 (Supplement)	8
COMBINACIONES NOVAE 1965 (Supplement)	8
COMBINACIONES NOVAE 1967 (Supplement)	9
DESCRIPTIONES NOVAE 1968 (Supplement)	9
DESCRIPTIONES NOVAE 1969	
ASCLEPIADACEAE	10
CACTACEAE	10
CRASSULACEAE	12
EUPHORBIACEAE	13
MESEMBRYANTHEMACEAE	13
COMBINACIONES NOVAE 1969	
ASCLEPIADACEAE	13
CACTACEAE	14
CRASSULACEAE	19
MESEMBRYANTHEMACEAE	20
PORTULACACEAE	20
BIBLIOGRAPHY 1950—1969	21
INDEX 1960—1969	31

This issue completes the second volume of the I.O.S. Repertorium, and includes an index to parts XI to XX, as well as a reference list of journals cited. As many issues of Volume One are now out of print, a reprint of the whole volume is now in course of preparation as an issue of *Regnum Vegetabile*.

Since 1956 the Repertorium has been published by the I.A.P.T., and the Editors would like to put on record their gratitude to Dr. F. A. Stafleu who has not only made this possible, but has agreed that future issues can be enlarged to increase the amount of information given. It is planned to include a bibliography of current literature on succulents, and the Editors would accordingly be glad to receive any copies or citations of relevant works for inclusion, as well as notification of any omissions from the Repertorium.

Cette publication complète le second volume du Repertorium de l'I.O.S. et comprend un index pour les antérieures allant de XI à XX, la liste des revues citées en référence.

Depuis 1956 le Repertorium a été publié par l'I.A.P.T.; c'est pourquoi les Editeurs tiennent à manifester, ici, leur gratitude au Dr F. A. Stafleu qui non seulement a permis de rendre sa parution possible mais encore a accepté que les prochains numéros aient plus d'ampleur afin de pouvoir donner un plus grand nombre d'informations.

Il est, en effet, envisagé d'incorporer désormais une bibliographie concernant toute littérature se rapportant aux succulentes; aussi, afin de le leur permettre, les Editeurs seraient très heureux de recevoir tout exemplaire d'ouvrage ou citation de travaux concernant ces plantes ainsi que d'être informés de toute omission qui aurait été relevée dans le Répertoire.

Dieses Heft vollendet den zweiten Band des I.O.S. Repertoriums. Es enthält ein Verzeichnis der Teile XI bis XX sowie auch ein Nachschlagsverzeichnis der angeführten Zeitschriften. Da viele Hefte des ersten Bandes bereits vergriffen sind, ist ein Wiederabdruck des ganzen Bandes (als ein *Regnum Vegetabile* Heft) zur Zeit in Vorbereitung.

Schon seit 1956 wird das Repertorium von I.A.P.T. herausgegeben. Die Redaktion möchte an dieser Stelle Herrn Dr. F. A. Stafleu ihren Dank ausdrücken, nicht nur dafür, dass er Dieses ermöglichte sondern auch für seine Zustimmung zukünftige Hefte umfangreicher gestalten zu können um deren Mitteilungsinhalt zu vermehren. Es ist geplant eine Bibliographie der gegenwärtigen Sukkulenten-Literatur in diesem Heft miteinzuschließen, dementsprechend wäre die Redaktion dankbar für den Erhalt jeglicher Wiederabdrücke oder Anführungen von zuständigen Werken, sowie auch für Mitteilungen über jeweilige Auslassungen im Repertorium.

COMBINATIONES NOVAE 1951

Supplement

Passifloraceae

- Adenia apiculata* (Mast.) Chakr. n. comb.
(= *Modecca apiculata* Mast. in Hook. f.
Fl. Brit. India **2**: 603, 1879) in Bull.
Bot. Soc. Beng. **3**: 67, 1951.

DESCRIPTIONES NOVAE 1961

Supplement

Crassulaceae

- Crassula tibetica* de Mire & Quezel n. sp.
in J. Agr. Trop. & Bot. Appl. **8**: 118,
1961.
- Sedum sichotense* Vorosh. n. sp. in Bull.
Princ. Bot. Gard. Acad. Sci. U.R.S.S.
40: 51, 1961.

Passifloraceae

- Adenia miegei* Ake Assi n. sp. in Bull. Jard.
Bot. Brux. **31**: 311, 1961.

COMBINATIONES NOVAE 1961

Supplement

Asclepiadaceae

- Caralluma russelliana* (Brongn.) Cuf. n. comb.
(= *Boucerosia russelliana* Courb. ex
Brongn. in Bull. Soc. Bot. France **7**:
900, 1860) in Bull. Jard. Bot. Brux. **31**
Suppl. 718, 1961.

Crassulaceae

- Tillaea kirkii* Allan n. nom. (= *T. diffusa*
Kirk in Trans. N.Z. Inst. **24**: 424, 1892,
non auct.) in Fl. N. Zealand **1**: 199,
1961.

DESCRIPTIONES NOVAE 1962

Supplement

Portulacaceae

- Portulaca hatschbachii* Legrand n. sp. in
An. Mus. Hist. Nat. Montevideo **7**:
105, 1962.

Vitaceae

- Cyphostemma elephantopus* Desc. n. sp. in
Bull. Soc. Bot. France **109**: 270, 1962.

- Cyphostemma laza* Desc. n. sp. in Bull. Soc.
Bot. France **109**: 266, 1962.

- Cyphostemma laza* Desc. var. *parvifolia* Desc.
n. var. in Bull. Soc. Bot. France **109**: 267,
1962.

COMBINATIONES NOVAE 1962

Supplement

Mesembryanthemaceae

- Mesembryanthemum deltatum* (Schwant.)
Maire & Weill. n. comb. (= *Oscularia*
deltata Schwant. in Möll. Deutsch.
Gärtn.-Zeit. **42**: 187, 1927) in Maire
Fl. Afr. Nord. **8**: 265, 1962.

DESCRIPTIONES NOVAE 1964

Supplement

Agavaceae

Sansevieria pinguicula Bally n. sp. in *Candollea* **19**: 145, 1964.

Asclepiadaceae

Ceropegia chipiaensis Stopp n. sp. in *Engl. Bot. Jahrb.* **83**: 119, 1964.

Ceropegia damanii Stopp n. sp. in *Engl. Bot. Jahrb.* **83**: 122, 1964.

Ceropegia renzii Stopp n. sp. in *Engl. Bot. Jahrb.* **83**: 124, 1964.

Vitaceae

Cyphostemma cornigera Desc. n. sp. in *Bull. Soc. Bot. France* **111**: 174, 1964.

Cyphostemma leucorufescens Desc. n. sp. in *Bull. Soc. Bot. France* **111**: 177, 1964.

Cyphostemma roseiglandulosa Desc. n. sp. in *Bull. Soc. Bot. France* **111**: 176, 1964.

Cyphostemma sakalavensis Desc. n. sp. in *Bull. Soc. Bot. France* **111**: 174, 1964.

COMBINATIONES NOVAE 1964

Supplement

Crassulaceae

Sedum smallii (Br.) Ahles n. comb. (= *Diamorpha smallii* Britton in *N. Amer. Fl.* **22**: 56, 1905) in *J. E. Mitchell Sci. Soc.* **80**: 172, 1964.

DESCRIPTIONES NOVAE 1965

Supplement

Crassulaceae

Sedum kurilense Vorosh. n. sp. in *Bull. Princ. Bot. Gard. Acad. Sci. U.R.S.S.* **60**: 39, 1965.

Sedum pseudosubtile Hara n. sp. in *Jap. J. Bot.* **40**: 19, 1965.

Sempervivum georgicum Gurg. n. sp. in *Not. Syst. Geogr. Inst. Bot. Tbilisi* **25**: 10, 1965.

COMBINATIONES NOVAE 1965

Supplement

Crassulaceae

Sedum erubescens (Max.) Ohwi n. comb. (= *Umbilicus erubescens* Max. in *Prim. Fl. Amur.* 114, 1859) in *Fl. Japan* 1440, 1965.

Sarcozona praecox (Muell.) Blake n. comb. (= *Mesembryanthemum praecox* Muell. in *Linnaea* 25: 384, 1852) in *Black Fl. S. Australia* **Edn. 2** Suppl. 134, 1965.

Mesembryanthemaceae

Gasoul aitonis (Jacq.) Eichl. n. comb. (= *Mesembryanthemum aitonis* Jacq. in *Hort. Vind.* 3: 8, 1776) in *Black Fl. S. Australia* **Edn. 2** Suppl. 133, 1965.

COMBINATIONES NOVAE 1967

Supplement

Vitaceae

- Cyphostemma bainesii* (Hook. f.) Desc. n. comb. (= *Vitis bainesii* Hook. f. in Bot. Mag. t. 5472, 1864; *Cissus bainesii* (Hook. f.) Gilg & Brandt in Not. Syst. **16**: 120, 1960 (n. comb. nud.); Nat. Monsp. **18**: 218, 1967.
- Cyphostemma cirrhosum* (Thunb.) Desc. n. comb. (= *Cissus cirrhosa* Thunb. in Prodr. **1**: 46, 1794; *Vitis cirrhosa* Thunb.) in Not. Syst. **16**: 120, 1960 (n. comb. nud.); Nat. Monsp. **18**: 219, 1967.
- Cyphostemma cramerianum* (Schinz) Desc. n. comb. (= *Cissus crameriana* Schinz in Verh. Bot. Ver. Brand. **30**: 241, 1888) in Not. Syst. **16**: 120, 1960 (n. comb. nud.); Nat. Monsp. **18**: 220, 1967.
- Cyphostemma currori* (Hook. f.) Desc. n. comb. (= *Cissus currori* Hook. f. in Fl. Nigrit. 265, 1849; *Vitis currori* Bak.) in Nat. Monsp. **18**: 220, 1967.
- Cyphostemma fleckii* (Schinz) Desc. n. comb. (= *Cissus fleckii* Schinz in Bull. Herb. Boiss. **8**: 640, 1908) in Not. Syst. **16**: 121, 1960 (n. comb. nud.); Nat. Monsp. **18**: 221, 1967.
- Cyphostemma hereroense* (Schinz) Desc. n. comb. (= *Cissus hereroensis* Schinz in Bull. Herb. Boiss. **8**: 640, 1908) in Nat. Monsp. **18**: 222, 1967.
- Cyphostemma hypoleucum* (Harv.) Desc. n. comb. (= *Cissus hypoleuca* Harv. in Fl. Cap. **1**: 252, 1860) in Nat. Monsp. **18**: 222, 1967.
- Cyphostemma juttiae* (Dint. & Gilg) Desc. n. comb. (= *Cissus juttiae* Dinter & Gilg in Engl. Bot. Jahrb. **46**: 510, 1912) in Not. Syst. **16**: 122, 1960 (n. comb. nud.); Nat. Monsp. **18**: 222, 1967.
- Cyphostemma macropus* (Welw.) Desc. n. comb. (= *Cissus macropus* Welw. in J. Linn. Soc. Bot. **8**: 77, 1864; *Vitis macropus* (Welw.) Bak.) in Not. Syst. **16**: 122, 1960 (n. comb. nud.); Nat. Monsp. **18**: 224, 1967.
- Cyphostemma migiurtinorum* (Chiov.) Desc. n. comb. (= *Cissus migiurtinorum* Chiov. in Fl. Somala 132, 1929) in Not. Syst. **16**: 123, 1960 (n. comb. nud.); Nat. Monsp. **18**: 224, 1967.
- Cyphostemma rupicolum* (Gilg & Brandt) Desc. n. comb. (= *Cissus rupicola* Gilg & Brandt in Engl. Bot. Jahrb. **46**: 509, 1912) in Not. Syst. **16**: 124, 1960 (n. comb. nud.); Nat. Monsp. **18**: 227, 1967.
- Cyphostemma seitzianum* (Gilg & Brandt) Desc. n. comb. (= *Cissus seitziana* Gilg & Brandt in Engl. Bot. Jahrb. **46**: 513, 1912) in Not. Syst. **16**: 124, 1960 (n. comb. nud.); Nat. Monsp. **18**: 228, 1967.
- Cyphostemma uter* (Ex. & Mend.) Desc. n. comb. (= *Cissus uter* Exell & Mendonça in Bol. Soc. Brot. **26**: 231, 1952) in Not. Syst. **16**: 125, 1960 (n. comb. nud.); Nat. Monsp. **18**: 229, 1967.

DESCRIPTIONES NOVAE 1968

Supplement

Cactaceae

- Bolivicereus pisacensis* Knize n. sp. in Biota **7** No. **57**: 252, Dec. 1968.
- Bolivicereus soukupi* Knize n. sp. in Biota **7** No. **57**: 252-253, Dec. 1968.
- Espostoa baumanii* ("baumanni") Knize n. sp. in Biota **7** No. **57**: 263, Dec. 1968.
- Espostoa baumanii* ("baumanni") Knize var. *arborescens* Knize n. var. in Biota **7** No. **57**: 263, Dec. 1968.
- Lobivia aureosenilis* Knize n. sp. in Biota **7** No. **57**: 253, Dec. 1968.
- Lobivia cruciaureispina* Knize n. sp. in Biota **7** No. **57**: 253-254, Dec. 1968.
- Morawetzia variicolor* Knize n. sp. in Biota **7** No. **57**: 254, Dec. 1968.
- Oroya baumanii* Knize n. sp. in Biota **7** No. **57**: 254-255, Dec. 1968.
- Oroya baumanii* Knize var. *rubrispina* Knize n. var. in Biota **7** No. **57**: 255, Dec. 1968.

Oroya gibbosa Ritt. n. nud. var. *citriflora*
Knize n. var. inval. (Art. 43) in *Biota* **7**
No. **57**: 255-256, Dec. 1968.

Weberbauerocereus cuzcoensis Knize n. sp. in
Biota **7** No. **57**: 256, Dec. 1968.

Liliaceae

Aloe ericetorum Bosser n. sp. in *Adansonia* **8**:
508, 1968.

Aloe erythrophylla Bosser n. sp. in *Adansonia*
8: 508. 1968.

Aloe × *imerinensis* Bosser n. hybr. (= *A.*
capitata Bak. × *macroclada* Bak.) in
Adansonia **8**: 510, 1968.

Aloe leandrii Bosser n. sp. in *Adansonia* **8**:
505, 1968.

DESCRIPTIONES NOVAE 1969

Asclepiadaceae

Caralluma dicapuae Chiov. ssp. *seticornona*
Bally n. subsp. in *Candollea* **24**: 17,
1969.

Caralluma dicapuae Chiov. ssp. *ukambensis*
Bally n. subsp. in *Candollea* **24**: 19,
1969.

Caralluma gerstneri Letty subsp. *elongata*
Dyer n. subsp. in *Fl. Pl. Afr.* **40**: t. 1567,
1969.

Caralluma gracilipes K. Sch. ssp. *arachnoidea*
Bally n. subsp. (= *C. arachnoidea* Bally
n. nud.) in *Candollea* **24**: 10, 1969.

Caralluma gracilipes K. Sch. ssp. *breviloba*
Bally (as "var.") n. subsp. in *Candollea*
24: 14, 1969.

Caralluma mireillae Lavr. n. sp. in *Nat.*
Cact. & Succ. J. **24**: 78-80, Dec. 1969.

Flaccidiflora Bally n. ser. (Genus *Caralluma*;
Typ. *C. dicapuae* Chiov.) in *Candollea* **24**:
3, 1969.

Huernia montana Kers n. sp. in *Bot. Not.*
122: 179, 1969.

Huernia urceolata Leach n. sp. in *Fl. Pl. Afr.*
39 t. 1550, May 1969.

Huernia verekeri Stent var. *pauciflora* Leach
n. var. in *Bothalia* **10**: 48-52, 1969.

Priogonium Bally n. subsect. (Genus *Caral-*
luma; Typ. *C. priogonium* K. Sch.) in
Candollea **24**: 2, 1969.

Stapelia parvula Kers n. sp. in *Bot. Not.* **122**:
173, 1969.

Stapelia schinzii Bgr. et Schltr. var. *angolen-*
sis Kers n. var. in *Bot. Not.* **122**: 176,
1969.

Cactaceae

Calochlora Schütz n. sect. (Gen. *Gymnocaly-*
cium; typ. *G. calochlorum* Ito) in *Friciana*
46: 3-23, "1968" (Sept. 1969).

Corynopuntia (Knuth) Benson n. sect.
superfl. (Gen. *Opuntia*; = Sect. *Clavatae*
Engelm. 1857) in *The Cacti of*
Arizona **Ed. III**: 63, 1969.

Coryphantha scheeri Benson var. *uncinata*
Benson n. var. in *Cact. & Succ. J. Amer.*
41: 234, Sept.-Oct. 1969.

Denudata Schütz n. sect. illeg. (Art. 22)
(Gen. *Gymnocalycium*; = Sect. *Gymno-*
calycium) in *Friciana* **46**: 3-23, "1968"
(Sept. 1969).

Echinocactus horizonthalonius Lem. var. *ni-*
choliei Benson n. var. in *The Cacti of*
Arizona **Ed. III**: 23, 174-175, 1969.

Echinocereus chloranthus Rumpfl. var. *neoca-*
pillus Weniger n. var. in *Cact. & Succ.*
J. Amer. **41**: 39-41, Jan.-Febr. 1969.

Echinocereus engelmannii Parry var. *acicularis*
Benson n. var. in *The Cacti of Arizona*
Ed. III: 22, 138, 140, 144, 1969.

Echinocereus engelmannii Parry var. *armatus*
Benson n. var. in *Cact. & Succ. J. Amer.*
41: 33, Jan.-Feb. 1969.

- Echinocereus engelmannii* Parry var. *purpureus* Benson n. var. in Cact. & Succ. J. Amer. **41**: 126-127, May-June 1969.
- Echinocereus reichenbachii* Tersch. var. *albertii* Benson n. var. in Cact. & Succ. J. Amer. **41**: 127, May-June 1969.
- Echinocereus russanthus* Weniger n. sp. in Cact. & Succ. J. Amer. **41**: 41-42, Jan.-Feb. 1969.
- Echinocereus triglochidiatus* Engelm. var. *gurneyi* Benson n. var. in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.
- Echinocereus viridiflorus* Engelm. var. *correllii* Benson n. var. in Cact. & Succ. J. Amer. **41**: 128, May-June 1969.
- Echinofossulocactus pentacanthus* Br. & R. var. *david boudetianus* (sic!) Bravo n. var. nud. in Cact. y Suc. Mex. **14**: 36, Apr.-June 1969.
- Echinofossulocactus tetraxyphus* ("tetraxyphus") Croiz. var. *longiflorus* ("longiflora") Bravo n. var. nud. in Cact. y Suc. Mex. **14**: 84, Oct.-Dec. 1969.
- Echinofossulocactus tricuspidatus* Br. & R. var. *longispinus* ("longispina") Bravo n. var. nud. in Cact. y Suc. Mex. **14**: 20, Jan.-March 1969.
- Echinofossulocactus zacatecasensis* Br. & R. var. *moranensis* Bravo n. var. nud. in Cact. y Suc. Mex. **14**: 67, July-Sept. 1969.
- Epithelantha bokei* Benson n. sp. in Cact. & Succ. J. Amer. **41**: 185-186, July-Aug. 1969; 233, Sept.-Oct. 1969.
- Ferocactus acanthodes* Lem. var. *eastwoodiae* Benson n. var. in The Cacti of Arizona **Ed. III**: 23, 166-167, 1969.
- Gibbosa* Schütz n. sect. illeg. (Art. 22) (Gen. *Gymnocalycium*; = Sect. *Ovatisemineum*) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Gymnocalycium friedrichii* var. *pazoutianum* Moser & Valn. n. var.? (Typ.?) in Friciana **44**: 3-15, "1967" (1969).
- × *Heliochia* 'Maiden Erlegh' Rowl. n. cv. (= *Heliocereus speciosus* × 'Deutsche Kaiserin') in Nat. Cact. & Succ. J. **24**: Front cover & p. 77, Dec. 1969.
- Hybopleura* Schütz n. sect. (Gen. *Gymnocalycium*; Typ. *G. hybopleurum* Back.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Lafaldensia* Schütz n. sect. (Gen. *Gymnocalycium*; Typ. *G. bruchii* Hoss.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Loricata* Schütz n. sect. (Gen. *Gymnocalycium*; Typ. *G. spegazzinii* Br. & R.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Mammillaria deherdtiana* Farwig n. sp. in Cact. & Succ. J. Amer. **41**: 27-29, Jan.-Feb. 1969.
- Mammillaria* ("Mammilearia") *meyranii* Bravo var. *michoacana* Buch. n. var. subnud. (Sine typ.) in Cact. y. Suc. Mex. **14**: 75-76, 93, Oct.-Dec. 1969.
- Mammillaria morricalii* Cowper n. sp. in Cact. & Succ. J. Amer. **41**: 208-209, Sept.-Oct. 1969.
- Mammillaria orestera* Benson n. sp. in The Cacti of Arizona **Ed. III**: 22, 155, 1969.
- Mammillaria santaclarensis* Cowper n. sp. in Cact. & Succ. J. Amer. **41**: 248-250, Nov.-Dec. 1969.
- Mazanensia* Schütz n. sect. (Gen. *Gymnocalycium*; Typ. *G. hossei* Berg.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Micranthocereus violaciflorus* Buining n. sp. in Kakt. u. and. Sukk. **20**: 129-130, July 1969.
- Microsemineum* Schütz n. subg. (Gen. *Gymnocalycium*; Typ. *G. saglionis* Br. & R.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Muscosemineum* Schütz n. subg. (Gen. *Gymnocalycium*; Typ. *G. mihanovichii* Br. & R.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Neolloydia warnockii* Benson n. sp. in Cact. & Succ. J. Amer. **41**: 186-188, July-Aug. 1969.
- Normanbokea* Klad. & Buxb. n. gen. (Typ. *N. valdeziana* (Möll.) Klad. & Buxb.) in Krainz Die Kakteen **C VIIIb**, March 1969.
- Notocactus rauschii* van Vliet n. sp. in Succulenta **48**: 3-5, Jan. 1969.
- Notocactus scopia* Berg. f. *albilanata* Jahn n. forma in Stachelpost **4** (22): 75, July 1969.
- Opuntia acanthocarpa* Eng. & Big. var. *coloradensis* Benson n. var. in The Cacti of Arizona **Ed III**: 20, 34, 37, 1969.

- Opuntia echinocarpa* Eng. & Big. var. *wolfei* Benson n. var. in Cact. & Succ. J. Amer. **41**: 33, Jan.-Feb. 1969.
- Opuntia lindheimeri* Engelm. var. *lehmannii* Benson n. var. in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia stanlyi* Engelm. var. *peeblesiana* Benson n. var. in The Cacti of Arizona **Ed. III**: 20, 64, 1969.
- Opuntia violacea* Engelm. var. *castetteri* Benson n. var. in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia wigginsii* Benson n. sp. in The Cacti of Arizona **Ed. III**: 19, 32, 1969.
- Ovatisemineum* Schütz n. subg. (Gen. *Gymnocalycium*; Typ. *G. gibbosum* Pfeiff.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Paraguayensia* Schütz n. sect. (Gen. *Gymnocalycium*; Typ. *G. fleischerianum* Back.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Parodia aureispina* Back. var. *australis* Brandt n. var. in Kakt. u. and. Sukk. **20**: 167-168, Sept. 1969.
- Parodia aureispina* Back. var. *vulgaris* Brandt n. var. in Kakt. u. and. Sukk. **20**: 164-165, Sept. 1969.
- Parodia backebergiana* Brandt n. sp. in Kakt. u. and. Sukk. **20**: 111-112, June 1969.
- Parodia malyana* Rausch n. sp. nud. (sine typ.) in Kakt. u. and. Sukk. **20**: 8, Jan. 1969.
- Parodia malyana* Rausch f. *citriflora* Rausch n. forma nud. in Kakt. u. and. Sukk. **20**: 8, Jan. 1969.
- Parodia thionantha* Brandt n. sp. in Kakt. u. and. Sukk. **20**: 156-157, Aug. 1969.
- Parodia weberiana* Brandt n. sp. (= *P. formosa* var. *roseiflora* hort.) in Kakt. u. and. Sukk. **20**: 206-207, Nov. 1969.
- Pediocactus peeblesianus* Benson var. *fickeisenii* Benson n. var. (= *Navajoa fickeisenii* Back. nom. subnud.; *Pediocactus peeblesianus* (Croiz.) Bens. var. *fickeisenii* Bens. 1962; *Toumeyia fickeisenii* Earle; *Pediocactus fickeisenii* Bens., etc.) in The Cacti of Arizona **Ed. III**: 23-24, 186-187, 1969.
- Pediocactus peeblesianus* Benson var. *maianus* Benson n. var. in The Cacti of Arizona **Ed. III**: 24, 186-187, 1969.
- Periferialia* Schütz n. sect. (Gen. *Gymnocalycium*; Typ. *G. megatae* Ito) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Pseudolobivia* 'Geisenheim' Kilian n. cv. in Stachelpost **4** (**24**): 137, Nov. 1969.
- Saglionia* Schütz n. sect. illeg. (Art. 22) (Gen. *Gymnocalycium*; = Sect. *Microsemineum*) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Sclerocactus pubispinus* Eng. var. *sileri* Benson n. var. in The Cacti of Arizona **Ed. III**: 23, 179, 1969.
- Sulcorebutia rauschii* Frank n. sp. in Kakt. u. and. Sukk. **20**: 238-239, Dec. 1969.
- Terminalia* Schütz n. sect. illeg. (Art. 22) (Gen. *Gymnocalycium*; = Sect. *Muscosemineum*) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Trichosemineum* Schütz n. subg. (Gen. *Gymnocalycium*; Typ. *G. quehlianum* Berg.) in Friciana **46**: 3-23, "1968" (Sept. 1969).
- Uebelmannia gummifera* Buining f. *cristata* Buining n. forma nud. in Succulenta **48**: 180-181, Nov. 1969.
- Wilcoxia zopilotensis* Meyran n. sp. in Cact. y Suc. Mex. **14**: 51-54, 70-71, July-Sept. 1969.

Crassulaceae

- Aeonium longithyrsum* Svent. n. sp. (= *Sempervivum canariense* L. ssp. *longithyrsum* Burch. nom. nud.) in Index Seminum quae Hortus Acclimatationis Plantarum Arautapae, Tenerife 1968: 45, 1969.
- Aeonium* × *praegeri* ("praegerii") Kunkel n. hybr. (= *A. simsii* Stearn ("caespitosum") × *undulatum* Praeg. in Praeger in Proc. Roy. Irish Acad. **29B**: 467, 1929 & Acc. Sempervivum Group: 199, 1932) in Cuadernos de Botanica Canaria **5**: 50, 1969.
- Dudleya nubigena* Br. & R. ssp. *cerralvensis* Moran n. subsp. in Trans. San Diego Soc. Nat. Hist. **15**: 269-271, Oct. 1969
- Echeveria rauschii* v. Keppel n. sp. in Nat. Cact. & Succ. J. **24**: 91, Dec. 1969.

Echeveria 'Vanbreen' v. Keppel n. cv.
(= *E. derenbergii* Purp. × *carnicolor*
Morren; *E. kircheriana* hort.) in Nat. Cact.
& Succ. J. **24**: 4-5, March 1969.

Echeveria vanvlietii v. Keppel n. sp. in Nat.
Cact. & Succ. J. **24**: 90-91, Dec. 1969.

Kalanchoe integra Kuntze var. *crenato-rubra*
Cuf. n. var. in Oesterr. Bot. Zeit. **116**:
320, 1969.

Monanthes praegeri ("praegerii") Bramwell
n. sp. in Inst. Nac. Invest. Agron. Bull.
61: 257-262, Dec. 1969.

Semprevivum armenum Boiss. & Huet var.
insigne Muirh. n. var. in Notes Roy. Bot.
Gdn. Edinb. **29**: 19, Jan. 1969.

Semprevivum artvinense Muirh. n. sp. in
Notes Roy. Bot. Gdn. Edinb. **29**: 23,
Jan. 1969.

Semprevivum brevipilum Muirh. n. sp. in
Notes Roy. Bot. Gdn. Edinb. **29**: 26,
Jan. 1969.

Semprevivum davisii Muirh. n. sp. in Notes
Roy. Bot. Gdn. Edinb. **29**: 23, Jan. 1969.

Semprevivum furseorum Muirh. n. sp. in
Notes Roy. Bot. Gdn. Edinb. **29**: 25,
Jan. 1969.

Semprevivum gilliani Muirh. n. sp. in Notes
Roy. Bot. Gdn. Edinb. **29**: 26, Jan. 1969.

Semprevivum ispartae Muirh. n. sp. in Notes
Roy. Bot. Gdn. Edinb. **29**: 21, Jan. 1969.

Semprevivum staintonii Muirh. n. sp. in Notes
Roy. Bot. Gdn. Edinb. **29**: 20, Jan. 1969.

Euphorbiaceae

Euphorbia anachoreta Svent. n. sp. in Index
Seminum quae Hortus Acclimatationis
Plantarum Arautapae, Tenerife 1968:
58, 1969.

Euphorbia gracilicaulis Leach n. sp. in Bol.
Soc. Brot. **43**: 175, Dec. 1969.

Euphorbia sereti De Wild. ssp. *variantissima*
Leach n. subsp. in J. S. Afr. Bot. **35**:
13-19, 1969.

Euphorbia strangulata N. E. Br. ssp. *demi-
nuens* Leach n. subsp. in Bol. Soc. Brot.
43: 171, Dec. 1969.

Euphorbia williamsonii Leach n. sp. in
J. S. Afr. Bot. **35**: 19-23, 1969.

Mesembryanthemaceae

Angustifolia Lavis n. sect. (Genus *Delo-
sperma*; Typ. *D. brevipetalum* L. Bol.) in
J. S. Afr. Bot. **35**: 146, May 1969.

Carpobrotus modestus Blake n. sp. in Contr.
Queensland Herb. **No. 7**: 30-32, Sept.
1969.

Cephalophyllum francisci L. Bol. n. sp. in
J. S. Afr. Bot. **35**: 144, 1969.

Delosperma guthriei Lavis n. sp. in J. S. Afr.
Bot. **35**: 145, May 1969.

Delosperma saxicolom Lavis n. sp. in J.S.
Afr. Bot. **35**: 145, May 1969.

Delosperma roseopurpleum Lavis n. sp. in
J. S. Afr. Bot. **35**: 145, May 1969.

Dorotheanthus booyensii L. Bol. n. sp. in J. S.
Afr. Bot. **35**: 143, 1969.

Dorotheanthus rourkei L. Bol. n. sp. in J. S.
Afr. Bot. **35**: 143, 1969.

Lampranthus tenuis L. Bol. n. sp. in J. S.
Afr. Bot. **35**: 144, 1969.

Lithops vallis-mariae N. E. Br. var. *marga-
rethae* de Boer n. var. subnud. (Sine typ.)
in Succulenta **48**: 9-10, Jan. 1969.

Planifolia Lavis n. sect. (Genus *Delosperma*;
Typ. *D. tradescantioides* (Berger) L. Bol.)
in J. S. Afr. Bot. **35**: 147, May 1969.

Sarcozona bicarinata Blake n. sp. in Contr.
Queensland Herb. **No. 7**: 37-39, Sept.
1969.

COMBINATIONES NOVAE 1969

Asclepiadaceae

Caralluma dicapuae Chiov. ssp. *turneri* Bally
n. comb. (= *C. turneri* Bruce in Hook.
Icon. Plant. **34**: t. 3339, 1937) in Can-
dollea **24**: 17, 1969.

Carallumarusselliana ("russeliana") (Brongn.)
Cuf. n. comb. (= *Boucerosia russelliana*
Brongn. in Bull. Soc. Bot. France **7**: 900,
1860) in Bull. Jard. Bot. Nat. Belg. **39**
Suppl. xxx, 1969.

Huernia andreaeana (Rauh) Leach n. comb.
(= *Divalia andreaeana* Rauh in Kakt.
u. a. Sukk. **12**: 114, 1961) in Bothalia
10: 54, 1969.

Huernia procumbens (Dyer) Leach n. comb. (= *Dwalia procumbens* Dyer in Fl. Pl. Afr. **31** t. 1218, 1956) in *Bothalia* **10**: 54, 1969.

Huernia tanganyikensis (Bruce & Bally) Leach n. comb. (= *Dwalia tanganyikensis* Bruce & Bally in Cact. & Succ. J. Amer. **13**: 179, 1941) in *Bothalia* **10**: 54, 1969.

Lalacruma (K. Sch.) Bally n. subsect. (= *Caralluma* sect. *Lalacruma* K. Sch. in Engl. & Prantl Die Natürl. Pflanzenf. **42**: 278, 1895) in *Candollea* **24**: 3, 1969.

Cactaceae

Ancistrocactus crassihamatus (Web.) Benson n. comb. (= *Echinocactus crassihamatus* Weber in Bois Dict. Hort. 468, 1896; *Ferocactus crassihamatus* Br. & R.; *Glandulicactus crassihamatus* Back.; *Thelocactus crassihamatus* Marshall; *Hamatocactus crassihamatus* Buxb.) in Cact. & Succ. J. Amer. **41**: 188, July-Aug. 1969.

Ancistrocactus uncinatus (Gal.) Benson n. comb. (= *Echinocactus uncinatus* Galeotti in Pfeiff. Abbild. Beschr. Cact. **2**: t. 18, 1848; *Ferocactus uncinatus* Br. & R.; *Echinomastus uncinatus* Knuth; *Hamatocactus uncinatus* Borg; *Thelocactus uncinatus* Marshall; *Glandulicactus uncinatus* Back.) in Cact. & Succ. J. Amer. **41**: 188, July-Aug. 1969.

Ancistrocactus uncinatus Benson var. *wrightii* (Engelm.) Benson n. comb. (= *Echinocactus uncinatus* Gal. var. *wrightii* Engelm. in Proc. Amer. Acad. **3**: 272, 1856; *E. wrightii* Engelm.; *Hamatocactus wrightii* Orcutt; *Echinomastus uncinatus* Knuth var. *wrightii* Knuth; *Glandulicactus uncinatus* Back. var. *wrightii* Back., etc.) in Cact. & Succ. J. Amer. **41**: 188, July-Aug. 1969.

Arthrocerus bylesianus (Back.) Buxb. n. comb. (= *Pygmaeocereus bylesianus* Back. in Nat. Cact. & Succ. J. **12**: 86-87, 1957) in Kakt. u. and. Sukk. **20**: 97, May 1969.

Arthrocerus rowleyanus (Back.) Buxb. n. comb. nud. in Kakt. u. and. Sukk. **20**: 97, May 1969.

Cereus eriophorus Pfeiff. var. *fragrans* (Small) Benson n. comb. (= *Harrisia fragrans* Small in Br. & R. The Cactaceae **2**: 149, 1920) in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.

Cereus gracilis Mill. var. *aboriginum* (Small) Benson n. comb. (= *Harrisia aboriginum* Small in Br. & R. The Cactaceae **2**: 154, 1920) in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.

Cereus gracilis Mill. var. *simpsonii* (Small) Benson n. comb. (= *Harrisia simpsonii* Small in Br. & R. The Cactaceae **2**: 152, 1920) in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.

Cereus grandiflorus Mill. var. *armatus* (K. Sch.) Benson n. comb. (= *Cereus nycticalus* Link var. *armatus* K. Sch. in Gesamtb. d. Kakt. 147, 1898) in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.

Cereus robinii (Lem.) Benson n. comb. (= *Pilocereus robinii* Lem. in Ill. Hort. **2**(1) Misc. 74, 1864; *Cephalocereus robinii* Br. & R.; *Pilosocereus robinii* Byl. & Rowl.; *Cephalocereus keyensis* Br. & R.; *Pilosocereus keyensis* Byl. & Rowl.) in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.

Cereus robinii (Lem.) Bens. var. *deeringii* (Small) Benson n. comb. (= *Cephalocereus deeringii* Small in J. New York Bot. Gdn. **18**: 201, 1917; *Pilosocereus deeringii* Byl. & Rowl.) in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.

Coryphantha cornifera Br. & R. var. *echinus* (Engelm.) Benson n. comb. (= *Mammillaria echinus* Engelm. in Proc. Amer. Acad. **3**: 267, 1856; *M. radians* D. C. var. *echinus* K. Sch.; *Coryphantha echinus* Br. & R., etc.) in Cact. & Succ. J. Amer. **41**: 189, July-Aug. 1969.

Coryphantha dasyacantha Orc. var. *varicolor* (Tieg.) Benson n. comb. (= *C. varicolor* Tiegel in Monats. Deutsch. Kakt. Ges. **3**: 278, 1932; *Escobaria varicolor* Tiegel) in Cact. & Succ. J. Amer. **41**: 189, July-Aug. 1969.

Coryphantha duncanii (Hest.) Benson n. comb. (= *Escobesseyia duncanii* Hester in Des. Pl. Life **13**: 192, 1941; **17**: 23-25, 1945; *Escobaria duncanii* Back.) in Cact. & Succ. J. Amer. **41**: 189, July-Aug. 1969.

Coryphantha macromeris Br. & R. var. *runyonii* (Br. & R.) Benson n. comb. (= *C. runyonii* Br. & R. in The Cactaceae **4**: 26, 1923; *Mammillaria runyonii* Cory, *Lepidocoryphantha runyonii* Back.) in Cact. & Succ. J. Amer. **41**: 188, July-Aug. 1969.

- Coryphantha missouriensis* Br. & R. var. *caespitosa* (Engelm.) Benson n. comb. (= *Mammillaria similis* Engelm. in Boston J. Nat. Hist. **5**: 246, 1845; *Echinocactus similis* Poselg.; *Mammillaria similis* var. *caespitosa* Engelm.; *Coryphantha similis* Br. & R.; *Neobesseyia similis* Br. & R. etc.) in Cact. & Succ. J. Amer. **41**: 189, July-Aug. 1969.
- Coryphantha missouriensis* Br. & R. var. *marstonii* (Clov.) Benson n. comb. (= *C. marstonii* Clover in Bull. Torr. Bot. Club. **65**: 412, 1938; *Neobesseyia marstonii* Hester) in The Cacti of Arizona **Ed. III**: 26, 204, 1969.
- Coryphantha missouriensis* Br. & R. var. *robustior* (Engelm.) Benson n. comb. (= *Mammillaria similis* Engelm. var. *robustior* Engelm. in Boston J. Nat. Hist. **6**: 200, 1850; *M. nuttallii* Engelm. var. *robustior* Engelm.; *M. missouriensis* Sweet var. *robustior* Wats., etc.) in Cact. & Succ. J. Amer. **41**: 190, July-Aug. 1969.
- Coryphantha scheeri* (Kuntze) Benson n. comb. (= *Mammillaria scheeri* Mühl. in Allg. Gartenz. **15**: 97, 1847, non 13: 346, 1845; *Coryphantha scheeri* Lem. nom. nud.; *Cactus scheeri* Kuntze) in The Cacti of Arizona **Ed. III**: 25, 195, 1969; Cact. & Succ. J. Amer. **41**: 234, Sept.-Oct. 1969.
- Coryphantha scheeri* Benson var. *robustispinus* (Schott) Benson n. comb. (= *Mammillaria robustispina* Schott ex Engelm. in Proc. Amer. Acad. **3**: 265, 1856; *Cactus robustispinus* Kuntze; *Coryphantha robustispina* Br. & R.; *C. muehlenpfordtii* Br. & R. var. *robustispinus* Marsh.; *Mammillaria brownii* Toum.; *Cactus brownii* Toum.) in The Cacti of Arizona **Ed. III**: 25, 195, 1969.
- Coryphantha scheeri* Benson var. *valida* (Eng.) Benson n. comb. (= *Mammillaria scheeri* Mühl. var. *valida* Eng. in Proc. Amer. Acad. **3**: 265, 1856, non *M. valida* Purp.) in The Cacti of Arizona **Ed. III**: 25, 195, 1969.
- Coryphantha sneedii* Berg. var. *leei* (Rose) Benson n. comb. (= *Escobaria leei* Rose ex Boedeker Mamm. Vergl.-Schlüssel 17, 1933) in Cact. & Succ. J. Amer. **41**: 189, July-Aug. 1969.
- Coryphantha strobiliformis* Orc. var. *durispina* (Quehl) Benson n. comb. (= *Mammillaria strobiliformis* Scheer var. *durispina* Quehl in Monats. Kakteenk. **17**: 87, 1907; *Escobaria tuberculosa* Br. & R. var. *durispina* Borg) in Cact. & Succ. J. Amer. **41**: 189, July-Aug. 1970.
- Coryphantha strobiliformis* Orc. var. *orcuttii* (Rose ex Orcutt) Benson n. comb. (= *Neolloydia orcuttii* Rose ex Orcutt in Möller's Deutsche Gärtnerz. 1926: 142; *Escobaria orcuttii* Boed.) in The Cacti of Arizona **Ed. III**: 26, 204, 1969.
- Coryphantha sulcata* Br. & R. var. *nickelsiae* (Brand.) Benson n. comb. (= *Mammillaria nickelsiae* Brandegee in Zoe **5**: 31, 1900; *Coryphantha nickelsiae* Br. & R.) in Cact. & Succ. J. Amer. **41**: 188, July-Aug. 1969.
- Coryphantha vivipara* Br. & R. var. *alversonii* (Coul.) Benson n. comb. (= *Cactus radius* Coul. var. *alversonii* Coul. in Contr. U.S. Nat. Herb. **3**: 122, 1894; *Mammillaria alversonii* Coul.; *M. radiosa* Eng. var. *alversonii* Schum.; *M. vivipara* Haw. var. *alversonii* Benson) in The Cacti of Arizona **Ed. III**: 26, 200, 1969.
- Coryphantha vivipara* Br. & R. var. *bisbeeana* (Orc.) Benson n. comb. (= *C. bisbeeana* Orcutt in Cactography **3**, 1926; *Escobaria bisbeeana* Borg; etc.) in The Cacti of Arizona **Ed. III**: 25, 197, 1969.
- Coryphantha vivipara* Br. & R. var. *rosea* (Clok.) Benson n. comb. (= *C. rosea* Clokey in Madroño **7**: 75, 1943, etc.) in The Cacti of Arizona **Ed. III**: 26, 200, 1969.
- Echinocereus blanckii* Palmer var. *papillosus* (Linke) Benson n. comb. (= *E. papillosus* Linke ex Rümpler in Förster Handb. Cacteenk. **Ed. 2**: 783, 1885; *Cereus papillosus* Berger) in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.
- Echinocereus enneacanthus* Engelm. var. *brevispinus* (Moore) Benson n. comb. (= *E. enneacanthus* Engelm. f. *brevispinus* Moore in Brittonia **18**: 93, 1967) in Cact. & Succ. J. Amer. **41**: 127, May-June 1969.
- Echinocereus enneacanthus* Engelm. var. *dubius* (Engelm.) Benson n. comb. (= *Cereus dubius* Engelm. in Proc. Amer. Acad. **3**: 282, 1856; *Echinocereus dubius* Engelm.) in Cact. & Succ. J. Amer. **41**: 127, May-June 1969.

- Echinocereus enneacanthus* Engelm. var. *stramineus* (Engelm.) Benson n. comb. (= *Cereus stramineus* Engelm. in Proc. Amer. Acad. **3**: 282, 1856; *Echinocereus stramineus* Engelm.) in Cact. & Succ. J. Amer. **41**: 127, May-June 1969.
- Echinocereus fasciculatus* (Engelm.) Benson n. comb. (= *Mammillaria fasciculata* Engelm. in Emory Notes Mil. Recon. Ft. Leav. **App. 2**: 156, 1848; *Cactus fasciculatus* Kuntze; *Neomammillaria fasciculata* Br. & R.; *Ebnerella fasciculata* Buxb.; *Echinocereus rectispinus* Peebl. var. *robustus* Peebl.; *E. robustus* Peebl.; *E. fendleri* Eng. var. *robustus* Benson) in The Cacti of Arizona **Ed. III**: 21, 132, 1969.
- Echinocereus fasciculatus* Benson var. *bonkeriae* (Th. & B.) Benson n. comb. (= *E. bonkeriae* Thornb. & Bonk. in The Fantastic Clan 71-73, 85, 1932; *E. fendleri* Eng. var. *bonkeriae* Benson; *E. boyce-thompsonii* Orc. var. *bonkeriae* Peebl.) in The Cacti of Arizona **Ed. III**: 22, 136, 1969.
- Echinocereus fasciculatus* Benson var. *boyce-thompsonii* (Orc.) Benson n. comb. (= *E. boyce-thompsonii* Orc. in Cactography 4, 1926; *E. fendleri* Lem. var. *boyce-thompsonii* Benson) in The Cacti of Arizona **Ed. III**: 21, 132, 1969.
- Echinocereus reichenbachii* Tersch. var. *albispinus* (Lahm.) Benson n. comb. (= *E. baileyi* Rose in Contr. U.S. Nat. Herb. **12**: t. 56, 57, 1909; *E. baileyi* Rose var. *albispinus* Back.; *E. albispinus* Lahm., etc.) in Cact. & Succ. J. Amer. **41**: 127, May-June 1969.
- Echinocereus reichenbachii* Tersch. var. *chisosensis* (Marsh.) Benson n. comb. (= *E. chisosensis* Marshall in Cact. & Succ. J. Amer. **12**: 15, 1940) in l.c. **41**: 127, May-June 1969.
- Echinocereus reichenbachii* Tersch. var. *fitchii* (Br. & R.) Benson n. comb. (= *E. fitchii* Br. & R. in The Cactaceae **3**: 30, 1922) in Cact. & Succ. J. Amer. **41**: 127, May-June 1969.
- Echinocereus reichenbachii* Tersch. var. *perbellus* (Br. & R.) Benson n. comb. (= *E. perbellus* Br. & R. in The Cactaceae **3**: 24, 1922) in Cact. & Succ. J. Amer. **41**: 127, May-June 1969.
- Echinocereus triglochidiatus* Engelm. var. *arizonicus* (Rose ex Orcutt) Benson n. comb. (= *E. arizonicus* Rose ex Orcutt in Cactography 3, 1926) in The Cacti of Arizona **Ed. III**: 21, 129, 1969.
- Echinofossulocactus caespitosus* Back. var. *gracilispinus* ("gracilispinus") Bravo n. comb. nud. in Cact. y Suc. Mex. **14**: 34, Apr.-June 1969.
- Echinofossulocactus flexispinus* (S. D.) Bravo n. comb. (= *Echinocactus flexispinus* S. D. in Cact. Hort. Dyck. 1849: 159, 1850, non Engelm.) in Cact. y Suc. Mex. **14**: 44 Apr.-June 1969.
- Echinofossulocactus phyllacanthus* Lawr. var. *hookeri* (Mühl.) Bravo n. comb. (= *Echinocactus hookeri* Mühl. in Allg. Gartenz. 1845: 345) in Cact. y Suc. Mex. **14**: 19, Jan.-March 1969.
- Echinofossulocactus vaupelianus* Tieg. & Oehme var. *rectispinus* Bravo n. comb. nud. (= *Stenocactus rectispinus* Schmoll, ubi?) in Cact. y Suc. Mex. **14**: 65, July-Sept. 1969.
- Ferocactus hamatacanthus* Br. & R. var. *sinuatus* (Dietr.) Benson n. comb. (= *Echinocactus sinuatus* Dietr. in Allg. Gartenz. **19**: 345, 1851; *E. setispinus* Engelm. var. *sinuatus* Poselg.; *E. longihamatus* Gal. var. *sinuatus* Web.) in Cact. & Succ. J. Amer. **41**: 128, May-June 1969.
- Ferocactus setispinus* (Engelm.) Benson n. comb. (= *Echinocactus setispinus* Engelm. in Boston J. Nat. Hist. **5**: 246, 1845; *Hamatocactus setispinus* Br. & R., etc.) in Cact. & Succ. J. Amer. **41**: 128, May-June 1969.
- Mammillaria grahamii* Engelm. var. *oliviae* (Orcutt) Benson n. comb. (= *M. oliviae* Orcutt in W. Amer. Sci. **12**: 163, 1902; *Neomammillaria oliviae* Br. & R.; *Chilita oliviae* Orc.; *Ebnerella oliviae* Buxb.) in The Cacti of Arizona **Ed. III**: 22, 161, 1969.
- Mammillaria gummiifera* Engelm. var. *applanata* (Engelm.) Benson n. comb. (= *M. applanata* Engelm. in Wisl. Mem. Tour N. Mex. 105, 1848 & Boston J. Nat. Hist. **6**: 198, 1850; *M. heyderi* Mühl. var. *applanata* Engelm.; *Neomammillaria applanata* Br. & R.; *Mammillaria heyderi* Mühl.; *Cactus heyderi* Kuntze; *Neomammillaria heyderi* Br. & R.; *Mammillaria declivis* Dietr.; *M. texensis* Lab.; *Cactus texensis* Kuntze) in The Cacti of Arizona **Ed. III**: 22, 150, 1969.

- Mammillaria gummifera* Engelm. var. *hemisphaerica* (Engelm.) Benson n. comb. (= *M. hemisphaerica* Engelm. in Boston J. Nat. Hist. **6**: 199, 1850; *M. heyderi* Mühl. var. *hemisphaerica* Engelm., etc.) in Cact. & Succ. J. Amer. **41**: 128, May-June 1969.
- Mammillaria gummifera* Engelm. var. *macdougalii* (Rose) Benson n. comb. (= *M. macdougalii* Rose in Bailey Stand. Cycl. Hort. **4**: 982, 1916; *Neomammillaria macdougalii* Br. & R.; *Mammillaria heyderi* Mühl. var. *macdougalii* Benson) in The Cacti of Arizona **Ed. III**: 22, 151, 1969.
- Mammillaria gummifera* Engelm. var. *meiacantha* (Engelm.) Benson n. comb. (= *M. meiacantha* Engelm. in Proc. Amer. Acad. **3**: 263, 1856; *Cactus meiacanthus* Kuntze; *Neomammillaria meiacantha* Br. & R.; *Mammillaria melanocentra* Pos. var. *meiacantha* Craig) in The Cacti of Arizona **Ed. III**: 22, 151, 1969.
- Mammillaria longimamma* D. C. var. *sphaerica* (Dietr.) Benson n. comb. superfl. (= *M. longimamma* D. C. var. *sphaerica* Brandegee) in Cact. & Succ. J. Amer. **41**: 128, May-June 1969, 190, July-Aug. 1969.
- Neolloydia erectocentra* (Coult.) Benson n. comb. (= *Echinocactus erectocentrus* Coulter in Contr. U. S. Nat. Herb. **3**: 376, 1896; *E. horripilus* Lem. var. *erectocentrus* Web.; *Echinomastus erectocentrus* Br. & R.; *Thelocactus erectocentrus* Marsh.; *Mammillaria childsii* Blanc; *Echinocactus krausei* Hildm.) in The Cacti of Arizona **Ed. III**: 24, 191, 1969.
- Neolloydia erectocentra* Benson var. *acunensis* (Marsh.) Benson n. comb. (= *Echinocactus acunensis* Marsh. in Sag. Bull. **7**: 33, 1953) in The Cacti of Arizona **Ed. III**: 25, 192, 1969.
- Neolloydia intertexta* (Engelm.) Benson n. comb. (= *Echinocactus intertextus* Engelm. in Proc. Amer. Acad. **3**: 277, 1856, non Philippi 1864; *Echinomastus intertextus* Br. & R.; *Thelocactus intertextus* Marsh.; *Cereus pectinatus* Eng. var. *centralis* Coult.; *Echinocereus pectinatus* var. *centralis* Schum.; *E. centralis* Rose; *Echinomastus centralis* Ito) in The Cacti of Arizona **Ed. III**: 24, 191, 1969; Cact. & Succ. J. Amer. **41**: 233, Sept.-Oct. 1969.
- Neolloydia intertexta* Benson var. *dasyacantha* Benson n. comb. (= *Echinocactus intertextus* Engelm. var. *dasyacanthus* Engelm. in Proc. Amer. Acad. **3**: 277, 1856; *Echinomastus dasyacanthus* Br. & R.; *Thelocactus dasyacanthus* Marshall, etc.) in Cact. & Succ. J. Amer. **41**: 233, Sept.-Oct. 1969.
- Neolloydia johnsonii* (Parry) Benson n. comb. (= *Echinocactus johnsonii* Parry ex Engelm. in S. Watson in King U.S. Geol. Expl. 40th. Par. Botany 117, 1871; *Ferocactus johnsonii* Br. & R.; *Echinomastus johnsonii* Baxter; *Thelocactus johnsonii* Marsh.; *Echinomastus arizonicus* Hester, etc.) in The Cacti of Arizona **Ed. III**: 25, 192, 1969.
- Neolloydia mariposensis* (Hest.) Benson n. comb. (= *Echinomastus mariposensis* Hester in Des. Pl. Life **17**: 59, 1945) in Cact. & Succ. J. Amer. **41**: 188, July-Aug. 1969.
- Neowerdermannia vorwerkii* Fric. f. *gielsdorfiana* (Back.) Krainz n. comb. (= *N. vorwerkii* var. *gielsdorfiana* Back. in Cact. & Succ. J. Amer. **23**: 86, 1951; *Weingartia vorwerkii* var. *gielsdorfiana* Back.) in Die Kakteen **C VI f**, March 1969.
- Normanbokea pseudopectinata* (Back.) Klad. & Buxb. n. comb. (= *Pelecyphora pseudopectinata* Back. in Kakteenkunde **5**: 98, 100, 101, 1935; *Solisia pseudopectinata* Back.) in Krainz Die Kakteen **C VIII b**, March 1969.
- Normanbokea valdeziana* (Möll.) Klad. & Buxb. n. comb. (= *Pelecyphora valdeziana* Möller in Deutsche Gartnerz. **15**: 179-180, 1930; *P. plumosa* Boed., *Echinocactus valdezianus* Boed. *Thelocactus valdezianus* Bravo; *Gymnocactus valdezianus* Back., etc.) in Krainz Die Kakteen **C VIII b**, March 1969.
- Opuntia acanthocarpa* Eng. & Big. var. *ganderi* (Wolf) Benson n. comb. (= *O. acanthocarpa* Eng. & Big. subsp. *ganderi* Wolf in Rancho Santa Ana Bot. Gdn. Occ. Papers **1** (2): 75, 1938) in Cact. & Succ. J. Amer. **41**: 33, Jan.-Feb. 1969.

- Opuntia acanthocarpa* Eng. & Big. var. *major* (Eng. & Big.) Benson n. comb. (= *O. echinocarpa* Eng. & Big. var. *major* Eng. & Big. in Proc. Amer. Acad. **3**: 305, 1856; *O. echinocarpa* Eng. & Big. var. *robustior* Coulter; *O. acanthocarpa* Eng. & Big. var. *ramosa* Peebl.; *Cylindropuntia acanthocarpa* Knuth var. *ramosa* Back.) in The Cacti of Arizona **Ed. III**: 20, 35, 1969.
- Opuntia compressa* Macbr. var. *ammophila* (Small) Benson n. comb. (= *O. ammophila* Small in J. New York Bot. Gdn. **20**: 29, 1919) in Cact. & Succ. J. Amer. **41**: 124, May-June 1969.
- Opuntia compressa* Macbr. var. *austrina* (Small) Benson n. comb. (= *O. austrina* Small in Fl. S. E. U. S. 816, 1335, 1903) in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia erinacea* Eng. & Big. var. *columbiana* (Griff.) Benson n. comb. (= *O. columbiana* Griffiths in Bull. Torr. Bot. Club. **43**: 523, 1916) in Cact. & Succ. J. Amer. **41**: 124, Jan.-Feb. 1969.
- Opuntia erinacea* Eng. & Big. var. *utahensis* (Eng.) Benson n. comb. (= *O. sphaerocarpa* Eng. & Big. var. *utahensis* Engelm. in Trans. St. Louis Acad. Sci. **11**: 199, 1863, non *O. utahensis* Purp.; *O. rhodantha* Schum.; *O. erinacea* Eng. & Big. var. *rhodantha* Benson; *O. xanthostemma* Schum.; *O. rhodantha* Schum. var. *xanthostemma* Rehd.; *O. erinacea* Eng. & Big. var. *xanthostemma* Benson; *O. rhodantha* Schum. var. *spinosior* Boiss.) in The Cacti of Arizona **Ed. III**: 20, 77, 80, 1969.
- Opuntia lindheimeri* Engelm. var. *cuija* (Griff. & Hare) Benson n. comb. (= *O. engelmannii* S. D. var. *cuija* Griff. & Hare in N. Mex. Agr. Exp. Stn. Bull. **60**: 44, 1906; *O. cuija* Br. & R.) in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia lindheimeri* Engelm. var. *linguiformis* (Griff.) Benson n. comb. (= *O. linguiformis* Griffiths in Rep. Missouri Bot. Gdn. **19**: 270, 1908; *O. lindheimeri* Engelm. var. *brava* Schulz & Runyon invalid.?) in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia lindheimeri* Engelm. var. *tricolor* (Griff.) Benson n. comb. (= *O. tricolor* Griffiths in Rep. Missouri Bot. Gdn. **20**: 85, 1909) in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia macrorhiza* Engelm. var. *pottsii* (S. D.) Benson n. comb. (= *O. pottsii* Salm-Dyck in Cact. Hort. Dyck. 1849: 236, 1850; *O. setispina* Engelm.; *O. tenuispina* Eng. & Big.; *O. filipendula* Engelm.; *O. ballii* Rose; *O. delicata* Rose) in The Cacti of Arizona **Ed. III**: 20, 89, 1969.
- Opuntia parryi* Eng. var. *serpentina* Benson n. comb. (= *O. serpentina* Engelm. in Amer. J. Sci. **14**: 338, 1852) in Cact. & Succ. J. Amer. **41**: 33, Jan.-Feb. 1969.
- Opuntia phaeacantha* Engelm. var. *camanchica* (Eng. & Big.) Benson n. comb. (= *O. camanchica* Eng. & Big. in Proc. Amer. Acad. **3**: 293, 1856; *O. phaeacantha* Engelm. subsp. *camanchica* Borg) in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia phaeacantha* Engelm. var. *laevis* (Coulter.) Benson n. comb. (= *O. laevis* Coulter in Contr. U. S. Nat. Herb. **3**: 419, 1896) in The Cacti of Arizona **Ed. III**: 21, 98, 1969.
- Opuntia phaeacantha* Engelm. var. *spinosibacca* (Anth.) Benson n. comb. (= *O. spinosibacca* Anthony in Amer. Midl. Nat. **55**: 246, 1956) in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia phaeacantha* Engelm. var. *wootonii* (Griff.) Benson n. comb. (= *O. wootonii* Griffiths in Rep. Missouri Bot. Gdn. **21**: 171, 1910; *O. engelmannii* S. D. var. *wootonii* Fosberg) in Cact. & Succ. J. Amer. **41**: 125, May-June 1969.
- Opuntia polyacantha* Haw. var. *juniperina* (Br. & R.) Benson n. comb. (= *O. juniperina* Br. & R. in The Cactaceae **1**: 197, 1919; *O. sphaerocarpa* Eng. & Big.; *O. erinacea* Eng. & Big. var. *juniperina* Marsh.) in The Cacti of Arizona **Ed. III**: 20, 72, 1969.
- Opuntia polyacantha* Haw. var. *rufispina* (Eng. & Big.) Benson n. comb. (= *O. missouriensis* D.C. var. *rufispina* Eng. & Big. in Proc. Amer. Acad. **3**: 300, 1856; *O. rutila* Nutt.) in The Cacti of Arizona **Ed. III**: 20, 71, 1969.
- Opuntia schottii* Engelm. var. *grahamii* (Engelm.) Benson n. comb. (= *O. grahamii* Engelm. in Proc. Amer. Acad. **3**: 304, 1856; *Corynopuntia grahamii* Knuth) in Cact. & Succ. J. Amer. **41**: 124, May-June 1969.

- Opuntia stricta* Haw. var. *dillenii* (Ker-Gawl.) Benson n. comb. (= *Cactus dillenii* Ker-Gawler in Edwards Bot. Reg. **3** t. 255, 1818; *Opuntia dillenii* Haw.) in Cact. & Succ. J. Amer. **41**: 126, May-June 1969.
- Opuntia tunicata* Lk. & Otto var. *davisii* (Eng. & Big.) Benson n. comb. (= *O. davisii* Eng. & Big. in Proc. Amer. Acad. **3**: 305, 1856; *Cylindropuntia davisii* Knuth) in Cact. & Succ. J. Amer. **41**: 124, May-June 1969.
- Opuntia violacea* Engelm. var. *gosseliniana* (Web.) Benson n. comb. (= *O. gosseliniana* Weber in Bull. Soc. Accl. France **49**: 83, 1902) in The Cacti of Arizona **Ed. III**: 21, 92, 1969.
- Opuntia violacea* Engelm. var. *macrocentra* (Eng.) Benson n. comb. (= *O. macrocentra* Engelm. in Proc. Amer. Acad. **3**: 292, 1856) in The Cacti of Arizona **Ed. III**: 21, 92, 1969.
- Opuntia violacea* Engelm. var. *santa-rita* (Gr. & Hare) Benson n. comb. (= *O. chlorotica* Engelm. var. *santa-rita* Gr. & Hare in N. Mex. Agr. Exp. St. Bull. **60**: 64, 1906; *O. santa-rita* Rose; *O. gosseliniana* Web. var. *santa-rita* Benson; *O. shreveana* Nels.) in The Cacti of Arizona **Ed. III**: 21, 92, 1969.
- Opuntia whipplei* Eng. & Big. var. *multigeniculata* (Clok.) Benson n. comb. (= *O. multigeniculata* Clokey in Madroño **7**: 69, 1943; *Cylindropuntia multigeniculata* Back.; *Opuntia abyssii* Hester; *Cylindropuntia abyssii* Back.) in The Cacti of Arizona **Ed. III**: 20, 38, 1969.
- Parodia aureispina* Back. var. *rubriflora* (Back.) Brandt n. comb. (= *P. rubriflora* Back. in Descr. Cact. Nov. **III**: 12, 1963) in Kakt. u. and. Sukk. **20**: 166, Sept. 1969.
- Parodia aureispina* Back. var. *scopaoides* (Back.) Brandt n. comb. (= *P. scopaioides* Back. in Back. & Knuth Kaktus-ABC 272, 416, 1935) in Kakt. u. and. Sukk. **20**: 165, Sept. 1969.
- Pereskia aculeata* Mill. f. *rubescens* (Pfeiff.) Krainz n. comb. (= *P. aculeata rubescens* Pfeiff. in Enum. Diagn. Cact. 176, 1837; *P. rubescens* Houghton) in Die Kakteen **A**, March 1969.
- Schlumbergera* × *buckleyi* (Moore) Hunt. n. comb. superfl. (= *S. x buckleyi* Tjaden in Gard. Chron. **156**: 421 et seq., 1964) in Kew Bull. **23**: 259, 1969.
- Schlumbergera obtusangula* (Schum.) Hunt. n. comb. (= *Cereus obtusangulus* Schum. in Mart. Fl. Bras. **4** (2): 198, 1890; *Epiphyllum obtusangulum* Lindb.; *Cereus microsphaericus* Schum.; *C. parvulus* Schum.; *C. anomalus* Schum.; *Epiphyllanthus obtusangulus* Berg.; *Zygocactus obtusangulus* Loefgr.; *Epiphyllanthus microsphaericus* Br. & R.) in Kew Bull. **23**: 260, 1969.
- Schlumbergera opuntioides* (Loefgr. & Dus.) Hunt. n. comb. (= *Epiphyllum opuntioides* Loefgr. & Dus. in Arch. Mus. Nac. Rio de Janeiro **13**: 49, 1905; *Zygocactus opuntioides* Loefgr.; *Epiphyllum polycanthum* Barb.-Rodr.; *Epiphyllanthus obovatus* Br. & R.; *E. opuntioides* Moran) in Kew Bull. **23**: 260, 1969.
- Thelocactus knuthianus* (Boed.) Klad. n. comb. superfl. (= *T. knuthianus* Borg in Cacti 346, 1951) in Krainz Die Kakteen **C VIIIb**, Dec. 1969.
- Thelocactus mcdowellii* (Rebut) Glass n. comb. (= *Echinocactus mcdowellii* Rebut in Quehl in Monats. Kakteenk. **4**: 133, 1894; *Echinomastus mcdowellii* Br. & R.) in Cact. y Suc. Mex. **14**: 4, 22, Jan.-March 1969.
- Thelocactus pseudopectinatus* (Back.) Anderson & Boke n. comb. (= *Pelecypora pseudopectinata* Back. in Kakteenk. 1935: 98; *Mammillaria pseudopectinata* Kels. & Dayt.) in Amer. J. Bot. **56**: 326, March 1969.
- Utahia peeblesiana* (Croiz.) Klad. n. comb. (= *Navajoa peeblesiana* Croizat in Cact. & Succ. J. Amer. **15**: 88-89, 1943; *Toumeyia peeblesiana* Marsh.; *Echinocactus peeblesianus* Benson) in Krainz Die Kakteen **C VIII b**, March 1969.

Crassulaceae

- Aeonium* × *hybridum* (Haw.) Rowl. n. comb. (= *Sempervivum ciliare* β *hybridum* Haw. in Rev. Pl. Succ. 64, 1821; *S. hybridum* Sweet; *Aeonium barbatum* sensu Webb & Berth. non Smith ex Otto; *A. floribundum* Berg.; *A. simsii* Stearn × *spathulatum* Praeg.) in Taxon **18**: 483-484, Aug. 1969.

Aeonium leucoblepharum Rich. var. *glandulosum* (Chiov.) Cuf. n. comb. (= *Sempervivum chrysanthum* Oliv. var. *glandulosum* Chiov. in N. Giorn. Bot. It. **26**: 154, 1919) in Bull. Jard. Bot. Nat. Belg. **39** Suppl. xxiii, 1969.

Jovibarba globiferum (L.) Tjaden n. comb. illeg. (Art. 34) (= *Sempervivum globiferum* L. in Sp. Pl. **Ed. I**: 464, 1753; *S. soboliferum* Sims) in Bull. Afr. Succ. Pl. Soc. **4**: 170, Nov.-Dec. 1969.

Kalanchoe integra Kuntze var. *crenata* (Andr.) Cuf. n. comb. illeg. (= *Vereia crenata* Andrews in Bot. Repos. **1** t. 21, 1798; *Kalanchoe vereia* Pers.; *Kalanchoe crenata* Haw.; *K. afzeliana* Britt.; *K. crenata* var. *verea* (Jacq.) Cuf. basionym *vere*) in Oesterr. Bot. Zeit. **116**: 320, 1969.

Kalanchoe integra Kuntze var. *subsessilis* (Britt.) Cuf. n. comb. (= *K. coccinea* var. *subsessilis* Britt. in Fl. Tr. Afr. **2**: 395, 1871) in Oesterr. Bot. Zeit. **116**: 317, 1969.

Kalanchoe integra Kuntze var. *verea* (Jacq.) Cuf. n. comb. (= *Cotyledon vereia* Jacq. in Hort. Schoenbr. **4** t. 435, 1804; *C. crenata* Vent.; *C. brasilica* Vell.; *Kalanchoe crenata* Tratt.; *Kalanchoe brasiliensis* Camb.; *K. brasilica* Stellf.; *K. crenata* var. *verea* (Jacq.) Cuf. - vide *K. integra* Kuntze var. *crenata* (Andr.) Cuf., sphalm.?) in Oesterr. Bot. Zeit. **116**: 318, 1969.

Monanthes silensis (Praeg.) Svent. n. comb. (= *Monanthes pallens* Christ var. *silensis* Praeg. in An Account of the Sempervivum Group: 232, 1932) in Index Seminum quae Hortus Acclimatationis Plantarum Arautapae, Tenerife 1968: 46, 1969.

Mesembryanthemaceae

Conophytum obcordellum (Haw.) N. E. Br. var. *obcordellum* f. *declinatum* (L. Bol.) Tisch. n. comb. (= *C. declinatum* L. Bol. in Notes on Mesemb. **3**: 101, 1937) in Nat. Cact. & Succ. J. **24**: 4, 35, June 1969.

Conophytum obcordellum (Haw.) N. E. Br. var. *obcordellum* f. *multicolor* Tisch. n. comb. (= *C. multicolor* Tisch. in Succulenta **10**: 127, 1928) in Nat. Cact. & Succ. J. **24**: 4, 35, June 1969.

Conophytum obcordellum (Haw.) N. E. Br. var. *obcordellum* f. *picturatum* (N. E. Br.) Tisch. n. comb. (= *C. picturatum* N. E. Br. in Gard. Chron. 1927. **i**: 53) in Nat. Cact. & Succ. J. **24**: 4, 35, June 1969.

Conophytum obcordellum (Haw.) N. E. Br. var. *parvipetalum* (N. E. Br.) Tisch. n. comb. (= *Mesembryanthemum parvipetalum* N. E. Br. in J. Linn. Soc. Bot. **45**: 97, 1920; *Conophytum parvipetalum* N. E. Br.) in Nat. Cact. & Succ. J. **24**: 4, 35, June 1969.

Conophytum parviflorum N. E. Br. var. *impressum* Tisch. n. comb. (= *C. impressum* Tisch. in Cact. & Succ. J. Gt. Brit. **19**: 10, 1957) in Nat. Cact. & Succ. J. **24**: 4, 35, June 1969.

Conophytum taylorianum N. E. Br. var. *ernianum* (Lösch. & Tisch.) de Boer n. comb. (= *C. ernianum* Lösch. & Tisch. in Kakteenkunde 1933: 47-48) in Succulenta **48**: 51-55, Apr. 1969.

Portulacaceae

Portulaca guineensis Ker-Gawl var. *nitidissima* (v. P.) Cuf. n. comb. (= *P. foliosa* Ker-Gawl var. *nitidissima* v. Poelln. in Fedde Repert. **50**: 63, 1941) in Bull. Jard. Bot. Nat. Belg. **39** Suppl. xxii, 1969.

Bibliography

All publications that have been examined in compiling the first twenty parts of the *Repertorium* are listed here. The main aim is to provide a key for the abbreviations used. With changes in editorship, two or more different abbreviations have been used for certain periodicals. The entry for each periodical in the present list will be used as a standard in future issues. Markedly different forms are included as cross-references, but minor variants will be obvious and have not been included.

Toutes les publications auxquelles il a fallu se référer pour compiler les vingt fascicules du *Repertorium* sont repertoriées ici. Le but principal est de fournir une signification des abréviations utilisées. Comme il y a eu plusieurs éditeurs responsables deux — et parfois davantage — abréviations différentes ont pu être utilisées pour désigner le même ouvrage. L'inscription retenue, pour chaque périodique, dans la présente liste deviendra celle définitivement utilisée dans les prochains numéros. Les formes notoirement différentes sont repertoriées avec renvoi à celles retenues mais non les variantes mineures dont la signification est évidente.

Hauptsächlich zur Erklärung der darin verwendeten Abkürzungen sind hier alle Veröffentlichungen verzeichnet die während der Ansammlung (Kompilation) der ersten zwanzig Teile des *Repertorium*s überprüft wurden. Infolge Redakturveränderungen wurden für gewisse Zeitschriften zwei oder mehrere, verschiedene Abkürzungen benutzt. In zukünftigen Heften jedoch wird die Eintragung jeder Zeitschrift in dem gegenwärtigen Verzeichnis als die Regel gelten. Sehr verschiedene Formen sind als Kreuz-Referenzen eingeschlossen, doch geringere Varianten wurden nicht miteingeschlossen da solche ohnehin augenfällig sind.

BIBLIOGRAPHY

I - XX

A. PERIODICALS

Acta Bor. Scient.

Acta Borealia. A. Scientia. Tromsø Museum, Tromsø, Norway.

Acta Bot. Acad. Sci. Hung.

Acta Botanica Academiae Scientiarum Hungaricae. Magyar Tudományos Akadémia Botanikai Közleményei, Budapest, Hungary.

Acta Bot. Sc. Hung.

= *Acta Bot. Acad. Sci. Hung.*

Acta Bot. Neerl.

Acta Botanica Neerlandica. Royal Botanical Society of the Netherlands, Amsterdam, Netherlands.

Acta Horti Gotoburg.

Acta Horti Gotoburgensis. Botaniska Trädgård, Göteborg, Sweden.

Acta Phytotax. Geobot.

Acta Phytotaxonomica et Geobotanica. Societas Phytogeographica, Kyoto, Japan.

Acta Phytotax. Sin.

Acta Phytotaxonomica Sinica. Botanical Institute of Academia Sinica, Peking, China.

Acta Soc. Bot. Poloniae

Acta Societas Botanicorum Poloniae. Botanical Society of Poland, Warszawa, Poland.

Adansonia

Adansonia. Laboratoire de Phanérogamie du Muséum National d'Histoire Naturelle, Paris, France.

Aliso

Aliso. Rancho Santa Ana Botanic Garden, Claremont, California, U.S.A.

Am. Cact. Jnl.

= *Cact. Succ. J. Amer.*

Amer. J. Bot.

American Journal of Botany. Botanical Society of America, Baltimore, Maryland, U.S.A.

Amer. Midl. Nat.

The American Midland Naturalist. University of Notre Dame, Indiana, U.S.A.

An. Acad. Chil. Cienc. Nat.

Anales de la Academia Chilena de Ciencias Naturales. Santiago, Chile.

Anal. Inst. Biol. Mex.

Anales del Instituto de Biología. University of Mexico, Mexico City, Mexico.

Anal. Inst. Biol. Univ. Mexico

= *Anal. Inst. Biol. Mex.*

Anal. Inst. Forest. Invest. Exp.

Anales del Instituto Forestal de Investigaciones y Experiencias. Madrid, Spain.

Anal. Mus. Hist. Nat. Montevideo

Anales del Museo de Historia Natural de Montevideo. Montevideo, Uruguay.

Ann. Bot. Soc. "Vanamo"

Annales Botanici Societatis Zoologicae-Botanicae Fennicae "Vanamo". Helsinki, Finland.

Ann. Hist. Nat. Mus. Nat. Hung.

Annales Historico-Naturales Musei Nationalis Hungarici. Budapest, Hungary.

Ann. Miss. Bot. Gard.

Annals of the Missouri Botanical Garden. St. Louis, Missouri, U.S.A.

Arkiv Bot.

Arkiv för Botanik. Kungl. Svenska Vetenskaps-Akademien, Stockholm, Sweden.

Baileya

Baileya. A Quarterly Journal of Horticultural Taxonomy. New York State College of Agriculture, Cornell University, Ithaca, New York, U.S.A.

Beitr. Biol. Pflanz.

Beiträge zur Biologie der Pflanzen. Duncker & Humblot, Berlin, Germany.

Biol. Jaarb. Antw.

Biologisch Jaarboek; Uitgegeven door het K. Natuurwetenschappelijk Genootschap Do-donaea te Gent. Antwerp, Belgium.

Biota

Biota. Instituto Salesiano "Pablo Al-bera", Magdalena del Mar, Peru.

Boissiera

Boissiera. Conservatoire et Jardin Bo-taniques, Geneva, Switzerland.

Bol. Inst. Nac. Invest. Agron. Madrid

Boletin del Instituto Nacional de Investiga-ciones Agronomicas. Ministry of Agricul-ture, Madrid, Spain.

Bol. Notes Mes.

Notes on Mesembryanthemum and Allied Genera by H. M. Louisa Bolus. Bolus Her-barium, University of Cape Town, Cape Town, South Africa.

Bol. Soc. Brot.

Boletim da Sociedade Broteriana. Instituto Botânico da Universidade de Coimbra, Portugal.

Bol. Soc. Port. Cienc. Nat.

Boletim da Sociedade Portuguesa de Cien-cias Naturais. Lisbon, Portugal.

Bot. Gaz.

Botanical Gazette. University of Chicago, Illinois, U.S.A.

Bot. Jahrb.

Botanische Jahrbücher für Systematik, Pflan-zen-geschichte und Pflanzengeographie. Stutt-gart, Germany.

Bot. Közl.

Botanikai Közlemények. Akadémiai Kiadó, Budapest, Hungary.

Bot. Mag. Tokyo

The Botanical Magazine, Tokyo. The Bo-tanical Society of Japan, Tokyo, Japan.

Bot. Not.

Botaniska Notiser. Lunds Botaniska Fö-rening, Lund, Sweden.

Bothalia.

Bothalia. A Record of Contributions from the National Herbarium. Pretoria, South Africa.

Brittonia

Brittonia. Publication of the American So-ciety of Plant Taxonomists. New York Botanical Garden, New York, U.S.A.

Bull. Afr. Succ. Pl. Soc.

The Bulletin of the African Succulent Plant Society. London, Great Britain.

Bull. Bot. Soc. Bengal

Bulletin of the Botanical Society of Bengal. Calcutta, India.

Bull. Hortic.

Bulletin Horticole. Liège, Belgium.

Bull. Inst. Bot., Sofia

Izvestija na Botaničeskaja Institut. Bulletin de l'Institut Botanique. Sofia, Bulgaria.

Bull. Jard. Bot. Brux.

Bulletin du Jardin Botanique de l'État Bruxelles. Bruxelles, Belgium.

Bull. Jard. Bot. Nat. Belg.

Bulletin du Jardin Botanique National de Belgique. Continuation of *Bull. Jard. Bot. Brux.* from 1967.

Bull. Mus. Hist. Nat., Paris

= *Bull. Mus. Nat. Hist. Nat.*

Bull. Mus. Nat. Hist. Nat.

Bulletin du Muséum National d'Histoire Naturelle. Paris, France.

Bull. Princ. Bot. Gard. Acad. Sci. U.S.S.R.

Bulletin of the Principal Botanic Garden, Moscow. Moscow, U.S.S.R.

Bull. S. Cal. Acad. of Science

Bulletin of the Southern California Academy of Sciences. Los Angeles, California, U.S.A.

Bull. Soc. Bot. France

Bulletin de la Société Botanique de France. Paris, France.

Bull. Soc. Hist. Nat. Afr. Nord

Bulletin de la Société d'Histoire de l'Afrique du Nord. Faculté des Sciences d'Alger, Algeria.

Bull. Takarazuka Insectarium

Bulletin of the Takarazuka Insectarium. Ja-pan. (See authors under ITO, Y.)

Cac. & Suc. J. G. Br.

= Cact. Succ. J. Gt. Brit.

Cact. Jnl. o. G. B.

= Cact. Succ. J. Gt. Brit.

Cact. Suc. Mex.

Cactaceas y Suculentas Mexicanas. Sociedad Mexicana de Cactologica, Mexico City, Mexico.

Cact. Succ. J. Amer.

Cactus and Succulent Journal. The Cactus and Succulent Society of America, Reseda, California, U.S.A.

Cact. Succ. J. Gt. Brit.

The Cactus and Succulent Journal of Great Britain. The Cactus and Succulent Society of Great Britain, Great Britain.

Cact. Succ. J. (N.S.W.)

Cactus and Succulent Journal. The Cactus and Succulent Society of New South Wales, Auburn, New South Wales, Australia.

Cactus

Cactus. Revue Trimestrielle de l'Association Française des Amateurs de Cactées et Plantes Grasses. Paris, France.

Candollea

Candollea. Organe du Conservatoire et Jardin Botaniques de la Ville de Geneve. Geneva, Switzerland.

Ceiba

Ceiba; A Scientific Journal issued by the Escuela Agricola Panamericana. Tegucigalpa, Honduras.

Com. Bot. Mus. Hist. Nat. Montevideo

Comunicaciones Botanicas del Museo de Historia Natural de Montevideo. Montevideo, Uruguay.

Contr. Gray Herb.

Contributions from the Gray Herbarium of Harvard University. Cambridge, Massachusetts, U.S.A.

Contr. Ocas. Mus. Hist. Nat. Col. "de la Salle", Habana

Contribuciones Ocasionales del Museo de Historia Natural del Colegio "De La Salle". Havana, Cuba.

Contr. Queensland Herb.

Contributions from the Queensland Herbarium. Queensland Herbarium, Dept. of Primary Industries, Brisbane, Australia.

Cuad. Bot.

Cuadernos de Botanica. El Museo Canario, Gran Canaria, Canary Islands.

Des. Pl. Life

Desert Plant Life. Official Publication of the American Succulent Societies. Pasadena, California, U.S.A.

El Aliso

= Aliso.

Engl. Bot. Jahrb.

= Bot. Jahrb.

Feddes Repert.

Feddes Repertorium. Zeitschrift für Botanische Taxonomie und Geobotanik. Akademie-Verlag, Berlin, Germany.

Field & Lab.

Field and Laboratory; Contributions from the Science Departments. Southern Methodist University, Dallas, Texas, U.S.A.

Fieldiana Bot.

Fieldiana: Botany. Field Museum of Natural History, Chicago, U.S.A.

Fl. Pl. Afr.

The Flowering Plants of Africa. Division of Botany, Dept. of Agriculture, Pretoria, South Africa.

Flow. Plants Afr.

= Fl. Pl. Afr.

Folia Geobot. Phytotax.

Folia Geobotanica & Phytotaxonomica. Czechoslovak Academy of Sciences, Prague, Czechoslovakia.

Friciana

Friciana. Cactus Group of the Vlastivedny Ustav Institute, Olomouc, Czechoslovakia.

Fuax Herb. Bull.

The Fuax Herbarium Bulletin. Fuax Herbarium, Rosanna, Victoria, Australia.

Gard. Chron.

Gardeners' Chronicle. London, Great Britain.

Gartenbauwissenschaft

Die Gartenbauwissenschaft. Deutschen Gartenbauwissenschaftlichen Gesellschaft, Munich, Germany.

Gent. Herb.

Gentes Herbarum. L. H. Bailey Hortorium of the New York State College of Agriculture, Cornell University, Ithaca, New York, U.S.A.

I.O.S. Bulletin

I.O.S. Bulletin. International Organisation for Succulent Plant Study, Wageningen, Netherlands.

Index Seminum quae Hortus Acclimationis Plantarum Arautapae, Tenerife 1968.

Jardin de Acclimatacion de La Orotava, Tenerife, Canary Is., 1969.

Inst. Franc. d'Afrique Noire

Bulletin de l'Institut Française d'Afrique Noire. Paris, France & Dakar, Senegal.

Inst. Nac. Invest. Agron.

= Bol. Inst. Nac. Invest. Agron. Madrid.

Izvest. Acad. Sci. Armen. S.S.R.

Izvestija Akademija Nauk Armjanskoj S.S.R. Biologičeskie Nauki. Izdatelstvo Akademii Nauk Armjanskoj S.S.R., Erevan, U.S.S.R. (Armenia).

Izvest. Bot. Inst. (Sofia)

Izvestija na Botaničeskija Institute. Izdatelstvo na Bălgarskata Akademija na Naukite, Sofija, Bulgaria.

J. Agr. Trop. Bot. Appl.

Journal d'Agriculture Tropicale et de Botanique Appliquée. Muséum National d'Histoire Naturelle, Paris, France.

J. Arn. Arb.

Journal of the Arnold Arboretum. Harvard University, Cambridge, Massachusetts, U.S.A.

J. Cact. & Succ. Soc. Amer.

= Cact. Succ. J. Amer.

J. Cact. & Succ. Soc. G. B.

= Cact. Succ. J. Gt. Brit.

J. E. Mitchell Sci. Soc.

Journal of the Elisha Mitchell Scientific Society. Raleigh, North Carolina, U.S.A.

J. Jap. Bot.

Journal of Japanese Botany. Tsumura Laboratory, Tokyo, Japan.

J. S. Afr. Bot.

Journal of South African Botany. National Botanic Gardens of South Africa, Kirstenbosch, Newlands, Cape Province, South Africa.

J. W. Afr. Sci. Assoc.

Journal of the West African Science Association. Ibadan, Nigeria.

J. Washington Acad. Sci.

Journal of the Washington Academy of Sciences. Baltimore, Maryland, U.S.A.

Jnl. S. Afr. Bot.

= J. S. Afr. Bot.

Kakt. and. Sukk.

Kakteen und andere Sukkulente. Austrian, German and Swiss Cactus Societies (jointly), Stuttgart, Germany.

Kakt. Sukk. Dresden

Kakteen Sukkulente. Deutscher Kulturbund - Zentrale Kommission Natur und Heimat des Präsidialrates, 8020 Dresden, Friebeistr. 19, Germany.

Kakt. u. a. Sukk.

= Kakt. and. Sukk.

Kaktus. Listy

Kaktusářské Listy. Cactus Societies of Prague and Brno, Prague, Czechoslovakia.

Kaktusar

Kaktusář. Cactus Societies of Brno, Prague & Praha, Czechoslovakia.

Kaktusy

Kaktusy. Brno Cactus Society, Brno, Czechoslovakia.

Kawano Acta Phytotax. & Geobot. Kyoto

= Acta Phytotax. Geobot.

Kew Bull.

Kew Bulletin. (Royal Botanic Gardens, Kew) H.M.S.O., London, Great Britain.

Kirkia

Kirkia. Journal of the Government Herbarium. Salisbury, Rhodesia.

Lav. Ist. Bot. Giard. Colon. Palermo

Lavori dell' Istituto Botanico e del Giardino Coloniale di Palermo. Palermo, Sicily, Italy.

Leaflet. West. Bot.

Leaflets of Western Botany. J. T. Howell, San Francisco, California, U.S.A.

Lilloa

Lilloa, Revista de Botanica del Instituto "Miguel Lillo". Tucuman, Argentina.

Los Angeles County Mus. Contr. in Sci.

Los Angeles County Museum Contributions in Science. Los Angeles, California, U.S.A.

Madroño

Madroño. A West American Journal of Botany. California Botanical Society, Berkeley, California, U.S.A.

Mem. Inst. Sci. Madag.

Mémoires de l'Institut Scientifique de Madagascar. Paris, France.

Mem. Soc. Brot.

Memorias da Sociedade Broteriana. Instituto Botânico da Universidade de Coimbra, Portugal.

Mem. Soc. Roy. Bot. Belg.

Mémoires de la Société Royale de Botanique de Belgique. Bruxelles, Belgium.

Mex. Inst. de Biol. An.

= Anal. Inst. Biol. Mex.

Mitt. Bot. Staats. München

Mitteilungen der Botanischen Staatssammlung München. Botanische Staatssammlung, Munich, Germany.

Mutisia (Acta Bot. Columbiana)

Mutisia; Acta Botanica Columbiana. Bogota, Columbia.

Nat. Cact. Succ. J.

The National Cactus and Succulent Journal. The National Cactus and Succulent Society, Great Britain.

Nat. Malgache

Le Naturaliste Malgache. Institut de Recherche Scientifique de Madagascar, Tananarive - Tsimbazaza, Madagascar.

Nat. Monsp.

Naturalia Monspelienisia. Serie Botanique. Faculté des Sciences, Montpellier, France.

Not. Syst. Geogr. Inst. Bot. Tbilisi

= Zamet. Sist. Geogr. Rast. (Tbilisi)

Not. Syst. Herb. Inst. Bot. Nom. V.L. Komarovii Acad. Sci. U.R.S.S.

= Notulae Syst. Herb. Inst. Bot. Kom.

Not. Syst. Paris

Notulae Systematicae. Herbarium du Muséum National d'Histoire Naturelle. Paris, France.

Notes on Mesembr.

= Bol. Notes Mes.

Notes Roy. Bot. Gard. Edinb.

Notes from the Royal Botanic Garden, Edinburgh. Edinburgh, Great Britain.

Notulae Syst. Herb. Inst. Bot. Kom.

Notulae Systematicae ex Herbaris Instituti Botanici Nomine V.L. Komarovii Academiae Scientiarum U.R.S.S. Leningrad, U.S.S.R.

Nova Acta Leopold.

Nova Acta Leopoldina. Abhandlung der Deutschen Akademie der Naturforscher Leopoldina. Halle, Germany.

Noved. Cient. Contr. Ocas. Museo Hist. Nat. La Salle

Novedades Cientificas, Contribuciones Ocasionalas del Museo de Historia Natural La Salle. Serie Botanica. Caracas, Venezuela.

Novit. Syst. Pl. Vasc. Acad. Sci. U.S.S.R.

Novitates Systematicae Plantarum Vascularium. Moscow & Leningrad, 1966.

Nytt. Mag. Bot.

Nytt Magazin for Botanikk. Universitetsforlaget, Oslo, Norway.

Oest. Bot. Zeit.

= Oesterr. Bot. Zeitschr.

Oesterr. Bot. Zeitschr.

Oesterreichische Botanische Zeitschrift. Vienna, Austria.

Phytologia

Phytologia. H. N. Moldenke & A. L. Moldenke, Plainfield, New Jersey, U.S.A.

Rev. Agric. Cochabamba

Revista de Agricultura. Universidad de Cochabamba, Bolivia.

Rev. Bot. Appliq.

Revue de Botanique Appliquée et d'Agriculture Tropicale. Paris, France.

Rev. Fac. Cienc. Agr.

Revista de la Facultad de Ciencias Agrarias, Universidad Nacional de Cuyo. Mendoza, Argentina.

Rev. Sudam. de Bot.

Revista Sudamericana de Botánica. Montevideo, Uruguay.

Sag. Bull.

Saguaroland Bulletin. Arizona Cactus and Native Flora Society, Phoenix, Arizona, U.S.A.

Senckenbergiana Biol.

Senckenbergiana Biologica. Senckenbergianische Naturforschenden Gesellschaft, Frankfurt, Germany.

Stachelpost

Stachelpost. *Mitteilungsblätter für Kakteenfreunde*. Vereinigung der Kakteenfreunde Württembergs, Mainz-Kostheim, Germany.

Succulenta

Succulenta. *Maandblad van de Nederlands-Belgische Vereniging van Liefhebbers van Cactussen en andere Vetplanten*. Stiphout, Netherlands.

Sukkulentenkunde

Sukkulentenkunde. *Jahrbücher der Schweizerischen Kakteen-Gesellschaft*. Zürich, Switzerland.

Symb. Bot. Upsal.

Symbolae Botanicae Upsaliensis. Botaniska Institutionerna i Uppsala, Uppsala, Sweden.

Taxon

Taxon. *Journal of the International Association for Plant Taxonomy*. Utrecht, Netherlands.

Trans. Rhodes. Sci. Ass.

Proceedings and Transactions of the Rhodesia Scientific Association. Bulawayo, Rhodesia.

Trans. San Diego Soc. Nat. Hist.

Transactions of the San Diego Society of Natural History. San Diego, California, U.S.A.

Verh. Zool.-Bot. Ges. Wien

Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien. Vienna, Austria.

Vict. Nat.

Victoria Naturalist. Melbourne, Victoria, Australia.

Webbia

Webbia. *Raccolta di Scritti Botanici*. Istituto Botanico dell' Università, Firenze, Italy.

Zamet. Sist. Geogr. Rast. (Tbilisi)

Zametki po Sistematike i Geografii Rastenij. Institutum Botanicum Tbilissiense, Academia Scientiarum RSS Georgiae, Tbilisi, U.S.S.R.

B. BOOKS

ABRAMS, L.

An Illustrated Flora of the Pacific States, Washington, Oregon and California. Palo Alto, California. 1923 et seq.

BACKEBERG, C.

Some Results of Twenty Years of Cactus Research. (Ed. by E. Y. Dawson) Pasadena, 1950-1951.

BACKEBERG, C.

Descriptiones Cactacearum Novarum [I]. Gustav Fischer, Jena, 1956.

BACKEBERG, C.

Die Cactaceae. Handbuch der Kakteenkunde. 6 vols. Gustav Fischer, Jena, 1958-1962.

BACKEBERG, C.

Descriptiones Cactacearum Novarum (et Combinationes Novae) III. Gustav Fischer, Jena, 1963.

BACKEBERG, C.

Das Kakteenlexikon. Enumeratio diagnostica Cactacearum. Gustav Fischer, Jena, 1966.

- BALLY, P. R. O.
The Genus Monadenium. Bentli, Berne, 1961.
- BENSON, L.
The Cacti of Arizona. Second edition. Univ. Arizona Press, Tucson, 1950.
- BENSON, L.
The Cacti of Arizona. Third edition. Univ. Arizona Press, Tucson, 1969.
- BLACK, J. M.
Flora of South Australia. Second edition. Supplement by H. EICHLER. Government Printer, Adelaide, Australia, 1965.
- BORG, J.
Cacti. A Gardener's Handbook for their Identification and Cultivation. Second edition. Blandford Press, London, 1951.
- BUXBAUM, F.
Die Entwicklungslinien der Tribus Pachycereeae F. Buxb. (Cactaceae-Cereoideae). Botanische Studien, Heft 12, Gustav Fischer, Jena, 1961.
- CLAUSEN, R. T.
Sedum of the Trans-Mexican Volcanic Belt: An Exposition of Taxonomic Methods. Cornell Univ. Press, Ithaca, 1959.
- EICHL. Suppl. Fl. S. Aust.
= BLACK, J. M. *Flora of South Australia*. Second edition. Supplement by H. EICHLER. Government Printer, Adelaide, Australia, 1965.
- HAAGE, W. & SADOVSKY, O.
Kakteen-Sterne. Entwicklung, Entdeckung und Züchtung der Kakteen-Gattung Astrophytum. Neumann Verlag, Radebeul, 1957.
- HEGI, G.
Illustrierte Flora von Mitteleuropa. Vol. III/2, Part. 4. Carl Hanser, Munich, 1961.
- ITO, Y. - *Cacti 1952*.
Japan Cactus Laboratory, Higashikiwa, Ube City, Yamaguchi Prefect., Japan, 1952.
- ITO, Y. *Cacti - Cultivation and Information*.
Japan Cactus Laboratory, Higashikiwa, Ube City, Yamaguchi Prefect., Japan, 1954.
- ITO, Y.
Explanatory Diagram of Austroechinocactinae. Japan Cactus Laboratory, Higashikiwa, Ube City, Yamaguchi Prefect., Japan, 1957.
- ITO, Y.
Gardening of Cacti. Japan Cactus Laboratory, Higashikiwa, Ube City, Yamaguchi Prefect., Japan, 1962.
- ITO, Y.
The Full Bloom of Cactus Flowers. Osaka, Hoikusha, Japan, 1962.
- JACOBSEN, H.
Handbuch der Sukkulenten Pflanzen. Beschreibung und Kultur der Sukkulenten mit Ausnahme der Cactaceae. Gustav Fischer, Jena, 1954.
- JACOBSEN, H.
A Handbook of Succulent Plants. Descriptions, Synonyms and Cultural Details for Succulents other than Cactaceae. Blandford Press, London, 1960.
- JACOBSEN, H., VOLK, O. H. & HERRE, H.
Mesembryanthemaceae (Mittagsblumengewächse). Ein buch für Gärtner und Pflanzelieferhaber. Eugen Ulmer, Stuttgart, 1950.
- JOHNSON, H.
Succulent Parade for the Indoor Gardener. (Trade Catalogue) Paramount, California, U.S.A., 1955.
- KRAINZ, H. et alia.
Die Kakteen. Eine Gesamtdarstellung der eingeführten Arten nebst Anzucht- und Pflege-Anweisungen. Franckh'sche Verlagshandlung, Stuttgart, 1956- (still in production).
- LANJOUW, J. (Ed.)
International Code of Botanical Nomenclature adopted by the seventh International Botanical Congress, Stockholm, July 1950. International Bureau for Plant Taxonomy and Nomenclature, Utrecht, Netherlands, 1952.
- KHOKHRJAKOV, A. P.
Eremurus' i ikh Kul'tura. Izdatel'stvo "Nauka", Moscow, 1965.

- LIU, TCHEN-NOO
Claves Plantarum Chinae Boreali-Orientalis. Peking, Academiae Scientiarum Sinicae, 1959.
- MAIRE, R.
Flore de l'Afrique du Nord. Vol 8. Paul Lechevalier, Paris, 1962.
- MARNIER-LAPOSTOLLE, J.
Liste des Cactées du Jardin Botanique des Cédres. St. Jean-Cap-Ferrat, 1950.
- MARSHALL, W. T.
Arizona's Cactuses. Desert Botanical Garden of Arizona, Tempe, 1950.
- MARSHALL, W. T.
Arizona's Cactuses. Second edition. Desert Botanical Garden of Arizona, Tempe, 1953.
- NEL, G. C.
The Gibbaeum Handbook. A genus of highly succulent plants, native to South Africa. Blandford Press, London, 1953.
- OHWI, J.
Flora of Japan. Tokyo, 1953.
- PARSA, A.
Flore de l'Iran. General Supplement. Muséum d'Histoire Naturelle, Teheran, Iran, 1952.
- PAŽOUT, F., VALNÍČEK, J. & ŠUBÍK, R.
Kaktusy. Práce, Prague, 1960.
- RAUH, W.
Beitrag zur Kenntnis der peruanischen Kakteenvegetation. Springer-Verlag, Heidelberg, 1958.
- REYNOLDS, G. W.
The Aloes of South Africa. The Aloes of South Africa Book Fund, Johannesburg, 1950.
- RITTER, F.
Die von Curt Backeberg in "Descriptiones Cactacearum novarum" veröffentlichten Diagnosen "neuer" peruanischer Kakteen nebst grundsätzlichen Erörterungen über taxonomische und nomenklatorische Fragen. Hamburg, 1958.
- SCHWANTES, G.
Flowering Stones and Mid-day Flowers. A Book for Plant and Nature Lovers on the Mesembryanthemaceae. Ernest Benn, London, 1957.
- SHREVE, F. & WIGGINS, I. L.
Vegetation and Flora of the Sonoran Desert. Stanford Univ. Press, Stanford, 1964.
- SVENTENIUS, E. R.
Additamentum ad Florum Canariensem. Madrid, 1960.
- WINTER, H.
Kakteen-Cacti-Cactées. (Trade Catalogue). Frankfurt a. M., Germany, (1955).
- WINTER, H.
Kakteen-Cacti-Cactées. (Trade Catalogue). Frankfurt a. M., Germany, (1957).
- ZBINDEN, P. & KRAINZ, H.
Städtische Sukkulentsammlung Zürich - Katalog der in Kultur stehenden Arten. Second edition. Zürich, 1967.

REPERTORIUM INDEX 1960 - 1969

Botanical Names

Numbers in heavy type refer to Repertorium parts.

A

Acanthocalycium **14** 5, **15** 9, **17** 9, **19** 6
 Acanthocereus **14** 12, **16** 9, **17** 5, 9
 Acutisquamae **16** 9
 Adenia **15** 13, **16** 6, **18** 12, **20** 7
 Adenium **12** 12, **17** 14
 Adromischus **11** 9, 16
 Aeonium **12** 7, **20** 12, 19, 20
 Agave **11** 7, 8, 10, **16** 7, **19** 6
 Aichryson **19** 10
 Aizoanthemum **11** 14
 Aizoonta **17** 6
 Akersia **12** 8
 Alatae **12** 7
 × Alchamaloe **18** 11
 × Aleptoe **18** 11
 × Allauminia **18** 11
 Alluaudia **12** 10
 Alluaudiopsis **12** 10
 Aloe **11** 10, 12 **10**, **13** 10, **14** 11, **15** 11,
 12, 15, **16** 9, 11, **17** 13, **18** 11, **19** 8, **20** 10
 × Aloella **18** 11
 × Aloloba **18** 11
 Amphibolia **16** 11, 14, **17** 13, **18** 17
 Ancistrocactus **18** 12, **20** 14
 Angustifolia **20** 13
 Anisocalyx **13** 14
 Annua **12** 7
 Antegibbaeum **19** 8, 10
 Apatesicæ **13** 10
 Arequipa **14** 12, **15** 9, **17** 14, **18** 12
 Argyroderma **14** 11, **16** 11, **17** 13
 Aridaria **13** 10, **17** 13
 Ariocarpus **12** 12, **13** 11
 Armatocereus **15** 6, **17** 9
 Arthrocerus **18** 12, **20** 14
 Astolonæ **19** 5
 Astridia **12** 10, 18, **13** 10, **14** 11, **15** 12,
17 13, 24
 Astrophytum **12** 8, 12, **15** 9, **16** 12, **18** 12,
 13
 × Astroworthia **18** 11
 Australes **12** 6
 Austrocactus **14** 5, 12
 Austrocephalocereus **11** 10, **17** 14, **19** 8
 Austrocylindropuntia **13** 6
 Aylostera **14** 5, 12, **16** 9
 Azureocereus **16** 12

B

Baldiana **19** 6
 Blossfeldia **13** 6, **15** 9, **16** 9, **18** 13
 Bolivicereus **13** 11, **20** 9
 Borzicactus **11** 10, 11, **12** 8, **13** 11, 12, **14** 5,
 12, **15** 9, **18** 13
 Brachyspermae **17** 9
 Brachystelma **12** 12, **15** 8, **17** 9
 Bracteatae **17** 6
 Brasilicactus **18** 10
 Braunsia **16** 14, **18** 17, **19** 10
 Brevivaginatae **12** 10
 Browningia **16** 12, 13, **19** 8
 Browningiæ **17** 9
 Bryophyllum **15** 8
 Bulbine **18** 8, 11, 12
 Bulbininae **18** 9
 Bupleuroides **17** 5

C

Calochlora **20** 10
 Calymmanthium **13** 6, **17** 9
 Caralluma **12** 12, **13** 6, **14** 5, **15** 9, **16** 9,
17 9, **18** 10, **20** 7, 10, 13
 Carpobroteæ **13** 10
 Carpobrotus **20** 13
 Caryotophoroideæ **13** 10
 Castellanosiana **19** 6
 Catoclasia **12** 6
 Cephalocereinae **12** 8
 Cephalocereus **12** 12, **18** 13
 Cephalocleistocactus **13** 12, **14** 5, **17** 9
 Cephalophorus **18** 13
 Cephalophyllum **12** 10, **13** 10, **14** 11, **15** 12,
16 7, **18** 17, **20** 13
 Ceraria **12** 12
 Cereus **11** 8, 11, **15** 9, **20** 14
 Ceropegia **12** 7, **15** 9, **16** 9, **20** 8
 Chamaecereus **14** 6
 Cheiridopsis **12** 10, **14** 11, **15** 12, **16** 7, 11,
18 12
 Chiapasia **17** 14
 Chileorebutia **14** 6
 Chiquitana **19** 6
 Ciliatæ **12** 10
 Cleistocactus **12** 8, **13** 6, **14** 6, 12, **15** 9,
17 9, 10, 14, **18** 13
 Coleocephalocereus **17** 14, **19** 6, 8
 Conocarpæ **12** 6

Conophyllum **11** 7
 Conophytum **11** 7, **10**, **12** 10, **11**, **13** 10,
14 11, **18**, **15** 12, **16** 11, 12, **17** 13, **18** 12,
19 8, 10, **20** 20
 Convexae **12** 6
 Copiapoa **11** 8, **12** 12, **13** 6, 12, **14** 6,
17 14
 Corynopuntia **13** 6
 Corryocactinae **15** 9
 Corryocactus **14** 6, 12, 13, **15** 6
 Corynopuntia **20** 10
 Coryphantha **12** 8, 12, 13, **13** 6, **15** 9,
16 9, **19** 8, **20** 10, 14, 15
 Cotyledon **11** 9, **15** 11
 Crassipes **17** 5
 Crassula **11** 9, 14, **13** 10, **14** 10, **15** 11,
16 6, **17** 12, **18** 10, 11, 17, **20** 7
 Cryptocereus **14** 13, **17** 14
 Cuneiformes **12** 6
 Cylindrophyllum **12** 11
 Cylindropuntia **11** 11, **13** 6, **14** 6, **17** 14
 Cylindrorebutia **14** 6
 Cynanchum **15** 7, 8
 Cyphostemma **20** 7, 8, 9

D

Dactyloopsis **14** 11
 Delaetia **13** 6
 Delosperma **11** 14, **12** 11, **13** 14, **14** 11,
15 15, **16** 7, **17** 13, **18** 12, 18, **19** 10, **20** 13
 Denudata **19** 6, **20** 10
 Dichocalyx **12** 7
 Didierea **12** 10
 Digitorebutia **14** 6
 Dinteranthus **11** 10
 Diopogon **18** 9, **19** 5
 Discocactus **11** 8, **14** 6
 Discoideae **12** 7
 Disocactus **12** 13, **16** 9
 Dolichothele **12** 13
 Dorotheanthus **16** 7, 12, **20** 13
 Drosanthemum **13** 10, **14** 11, **15** 12, 15,
16 12, 17 13, **18** 12, **19** 10
 Dudleya **16** 10, **20** 12
 Dumulosae **17** 5
 Duvalia **12** 8, **18** 10

E

Eberlanzia **14** 11
 Ebracteola **12** 11
 Eccremocactus **13** 7, 12
 Echeveria **12** 10, **14** 10, **17** 12, 24, **18** 7,
 11, **19** 7, **20** 12, 13
 Echinopsis **13** 6, **14** 12, **15** 9, 13, **19** 8

Echinatae **12** 6
 × Echinobivia **17** 10
 Echinocactus **18** 13, **20** 10
 Echinocereus **11** 8, 11, 12, **14** 6, **16** 9,
18 10, 13, 14, **19** 6, 8, **20** 10, 11, 15, 16
 Echinofossulocactus **12** 8, **16** 9, **18** 14,
20 11, 16
 Echinomastus **12** 13, **14** 6, **18** 8
 Echinopsis **12** 13, **13** 7, **14** 6, **15** 9, **16** 9,
 10, 13, 14, **17** 5, 10, **18** 6
 Echinus **15** 12
 Edithcolea **14** 5
 Elaeophorbia **11** 16, **18** 17
 Elatae **14** 5
 Enalatae **12** 6
 Enantiophylla **12** 6
 Eomatucana **16** 10
 Epiphyllum **15** 9, 13, **16** 13, **17** 5, **18** 8
 Epithelantha **20** 11
 × Epixochia **13** 7, 12
 Erdisia **13** 7, **15** 9
 Erepisia **13** 10, **16** 7
 Eriocactus **17** 10, **18** 14
 Eriocereus **11** 12
 Escobaria **12** 13, 14
 Escontria **12** 14
 Espostoa **11** 8, 12, **15** 6, 9, 10, 13, **17** 14,
20 9
 Espostoopsis **18** 18, **19** 6, 8
 Esterhuysenia **18** 12
 Eulychnia **14** 6, **15** 10, **16** 13
 Euphorbia **12** 8, 10, **13** 10, **14** 11, **15** 11,
16 6, 11, 14, **17** 13, **18** 9, 11, 17, **19** 8,
20 13

F

Fastigiatae **17** 5
 Faustocereus **15** 6
 × Ferrobergia **17** 10
 Ferocactus **12** 14, **15** 10, **17** 10, **19** 6, **20** 11,
 16
 Filipes **17** 6
 Flaccidiflora **20** 10
 Folotsia **15** 8
 Frailea **14** 6, 7, **16** 10, **17** 10, **19** 6
 Frithia **19** 8

G

Gasoul **20** 8
 Gerocephalus **19** 6
 Gibbaeum **17** 13
 Gibbosa **20** 11
 Glandulicactus **12** 14, **14** 7
 Graptopetalum **19** 7

× Graptoveria **15** 15, **16** 11
Gymnanthocereus **17** 10
Gymnocactus **12** 14, **17** 15
Gymnocalycium **12** 7, **13** 7, 12, **14** 7, **15** 10,
13, 15, **16** 10, 13, 14, **17** 10, **18** 10, 14,
20 11
Gymnocereus **13** 12

H

Haageocereus **13** 12, **14** 7, 13, **15** 6, 7, 14,
16 13, **18** 14, 15
Hamatocactus **16** 13
Harrisia **11** 8, 12
Haseltonia **11** 12
Haumania **12** 6
Haworthia **13** 10, **15** 12, **16** 11, **17** 24,
19 5, 8
Haworthiinae **18** 9
Helianthocereus **17** 10, 15
Heliocereus **11** 12, **17** 10
× Heliochia **13** 7, 12, **20** 11
× Heliophyllum **16** 10
× Helioselenius **18** 15
× Heliphyllum **13** 7, 12
Hereroa **11** 14
Heteropodium **14** 7
Hildewintera **17** 15
Hipsoclasia **12** 6
Hoodia **12** 12, **17** 9
Horridispina **19** 6
Horridocactus **13** 7, 12, 13, **14** 13, **17** 15
Huernia **12** 8, **14** 5, **15** 9, 13, **16** 9, **17** 9,
19 5, 6, **20** 10, 13, 14
Hybopleura **20** 11
Hymenogynoideae **13** 10
Hymenorebutia **15** 14

I

Incaica **16** 10
Induplicatae **19** 7
Irechocereus **18** 18
Islaya **14** 7, **15** 7, 10
Ixiocaulon **19** 7

J

Jaenocereus **18** 18
Japonicae **17** 6
Jasminocereus **12** 14, **13** 7
Jensenobotrya **17** 24
Jovibarba **12** 18, **18** 8, **19** 5, **20** 20

K

Kalanchoe **11** 10, **14** 10, **15** 11, **16** 11, 14,
18 11, **20** 13, 20
× Kalorochea **19** 7
Karimbolea **11** 8
Kleinia **19** 5

L

Lafaldenses **19** 6
Lafaldensia **20** 11
Lalacruma **20** 14
Lampranthus **11** 14, 16, **12** 11, **13** 10,
14 11, **15** 12, **16** 7, 8, 12, 14, **17** 13, **18** 18,
19 10, **20** 13
Lasiocereus **13** 7, **17** 11
Leipoldtia **11** 14, **13** 10, **18** 12
Lepidocoryphantha **12** 14
Lepismium **14** 7, **16** 10
× Leptauminia **18** 12
Leptocladodia **13** 13, **18** 15
Lewisia **15** 13
Lineales **12** 6
Lithops **11** 10, **12** 11, 18, 19, **13** 10, 11, 14,
14 11, **15** 12, **16** 12, **17** 13, 14, **18** 12, 18,
19 8, **20** 13
Lobivia **11** 12, **12** 7, 8, **13** 7, 13, **14** 6, 7, 13,
14, **15** 10, 14, **16** 10, **17** 11, 15, **18** 15,
19 6, **20** 9
Longistilae **12** 6
Longistylae **14** 5
Lophocereus **11** 12, **14** 7, **17** 11
Lophophora **12** 14, **18** 15
Loricata **20** 11
Loxanthocereus **13** 7, 13, **15** 7, 10

M

Machairophyllum **15** 12, **16** 7
Macranthae **17** 11
Malacocarpus **18** 15
Mammillopsis **18** 15
Mammillaria **11** 9, **12** 8, 9, 14, 15, **13** 7,
15, **14** 5, 7, 8, 14, **15** 14, **17** 11, 15, **18** 8,
10, 15, **19** 6, **20** 11, 16, 17
Marginatocereus **14** 8
Marniera **17** 15
Marshallocereus **11** 12
Matucana **14** 8, **15** 7, **16** 10, **17** 11
Maughaniella **16** 8
Mazanensia **20** 11
Medioblobivia **15** 15
Mediorebutia **14** 8
Megalanthae **17** 5
Melocactus **11** 13, **16** 10, **17** 11, **18** 10

Mesembryanthemaceae **13** 11
Mesembryanthemoideae **13** 14
Mesembryanthemum **16** 12, **18** 18, **19** 8,
20 7
Micranthocereus **19** 9, **20** 11
Microsemineum **20** 11
Mihanovichiana **19** 6
Mitrocereus **11** 13, **12** 16
Monadenium **12** 10, 18
Monanthes **12** 7, **20** 13, 20
Monvillea **11** 9, 13, **12** 9
Morawetzia **15** 7, **17** 11, **20** 9
Mostiana **19** 6
Mucizonia **18** 7, **19** 6
Mucronatae **12** 6
Muscosemineum **20** 11
× Myrtgerocactus **13** 7, 8
Myrtillocactinae **12** 9
Myrtillocactus **11** 13

N

Nananthus **12** 11
Navajoa **11** 9
Neoabbottia **17** 15
Neobuxbaumia **11** 13, **12** 16
Neochilena **13** 8, 13, **14** 8, 14, 15, **17** 11, 15
Neogomesia **14** 8
Neolloydia **20** 11, 17
Neonotocactus **18** 15
Neoporteria **14** 8, **17** 11, 12, 15-21, **18** 15
Neoraimondia **15** 7, **18** 15
Neossia **12** 6
Neowerdermannia **20** 17
Nopalea **13** 8
Normanbokea **18** 18, **20** 11, 17
Notocactus **11** 13, **12** 16, **13** 8, 13, **16** 10,
17 12, 21, 22, **18** 15, 16, **19** 7, 9, **20** 11
Notonia **17** 5
Nycteranthus **11** 14, 15, 16, **12** 11

O

Oblongispermae **17** 12
Obtectosperma **17** 12
Occidentales **19** 7
Octopoma **14** 18, **17** 24, **18** 18
Oophytum **13** 11
Ophthalmophyllum **13** 11, **14** 11, **18** 18
Opophytum **12** 11, **15** 12
Opuntia **11** 9, **13** 8, 13, **14** 8, **15** 10, **16** 10,
13, **17** 6, 12, 22, **18** 8, 16, **20** 11, 12, 17,
18, 19
Oreocereus **13** 8, **14** 15, **16** 5, **17** 22, **18** 18
Oroya **14** 8, 15, **20** 9, 10
Ortegocactus **12** 9

Othonna **12** 18, **15** 11, **16** 10, **19** 7
Ovatisemineum **20** 12

P

× Pachgerocereus **13** 8, 13
Pachycereinae **12** 9
Pachycereus **11** 13, **12** 16
Pachyphytum **14** 10, **18** 11, **19** 7
Paraguayensia **20** 12
Parodia **11** 9, **12** 7, 9, **13** 8, **14** 8, 9, 15,
15 10, **17** 12, 22, **18** 10, 16, 17, **19** 7,
20 12, 19
Paucistigmae **12** 6
Pedicellatae **12** 6
Pediocactus **11** 9, **12** 9, 16, **13** 8, 14, **14** 15,
20 12
Pelecyphora **12** 7, **18** 10
Pendenti **17** 12
Peniocereus **13** 8, **14** 9, **16** 10, **17** 5, 12
Pennisquama **17** 5
Pereskia **13** 9, **15** 10, **20** 19
Periferalia **20** 12
Petrophyella **12** 8
Pfeiffera **15** 10, 11
Pflanzianae **19** 7
Pherolobus **16** 8
Pileisperma **19** 7
Pilocopiapoa **12** 9
Pilosae **12** 6
Pilosocereus **11** 13, **17** 22
Planae **12** 6
Planifolia **20** 13
Polaskia **12** 16
Polyclada **12** 8
Polymita **11** 16, **14** 18
Portulaca **11** 10, **12** 6, **16** 6, 8, **17** 24, **19** 8,
20 7, 20
Portulacella **12** 7
Portulacelloides **12** 6
Portulaphiton **12** 6
Praecereus **18** 18, **19** 7, 9
Primuloides **17** 6
Priogonium **20** 10
Protoparodia **17** 12
Pruinosae **14** 5
Pseudoespostoa **17** 22
Pseudohipsoclasia **12** 6
Pseudolithos **16** 12
Pseudolobivia **13** 9, 14, **17** 12, 22, 23, **20** 12
Pseudomitrocereus **12** 9, 16
Pseudopilocereus **18** 18, **19** 7, 9, 10
Pseudosedum **19** 5
Psilocaulon **12** 11, **14** 11, **15** 12, **19** 11
Pterocactus **18** 8
Pterocereinae **12** 9
Pygmaeocereus **13** 9, **14** 9
Pyrrhocactus **11** 9, **12** 9, **13** 9, **14** 9, 15

Q

Quadrifidae **17** 5
Quehliana **19** 7

R

Rathbunia **11** 13
Rebutia **11** 13, **12** 9, **14** 9, 10, 15-17, **15** 11,
16 10, 13, 14, **17** 12, **18** 17, **19** 11
Reicheocactus **13** 9, 14
Retusae **14** 5
Rhinephyllum **14** 11
Rhipsalidopsis **13** 9
Rhipsalis **13** 9, **18** 17
Rhodiola **12** 18, **17** 5-9
Rhodocactus **14** 10, **17** 23
Rhombophyllum **15** 12
Rhytidocaulon **13** 6, **18** 10
Ritterocereus **11** 13, 14
Rooksbya **11** 14
Roseae **17** 9
Roseocactus **11** 9, **12** 16
Rosularia **16** 5, 7
Rotundisquamae **16** 10
Ruschia **11** 16, **12** 11, **13** 11, **14** 11, 18,
15 12, 13, **16** 8, 12, **17** 14, **18** 18, **19** 8, 11
Ruschianthemum **11** 10, 16
Ruschianthus **12** 11
Ruschieae **13** 11
Ruschioideae **13** 11

S

Saglionees **19** 7
Saglionia **20** 12
Salicornia **19** 5
Sansevieria **20** 8
Saphesieae **13** 11
Sarcostemma **15** 8
Sarcozona **19** 5, **20** 8, 13
Scariosae **12** 6
Sceletium **11** 16
Schickendantzianae **19** 7
Schlechteranthus **15** 13
Schlumbergera **15** 14, **20** 19
Sclerocactus **17** 12, 23, **20** 12
Sclerocarpae **12** 6
Scopelogenia **13** 11, 14
Sedoidea **12** 8
Sedum **11** 7, 14, **12** 10, 18, **15** 8, 9, 11, 15,
16 5, 6, 7, **17** 5, 6, 12, **18** 7, 8, 11, **19** 6,
7, 10, **20** 7, 8
Selenicereus **18** 10
× Seleniphyllum **13** 9, 14

Sempervivum **15** 9, **16** 5, 11, **17** 6, **18** 9,
20 8, 13
Senecio **13** 14, **15** 11, **18** 10, **19** 7
Seticereus **17** 23
Seticleistocactus **14** 10, 17, **17** 23
Setiechinopsis **14** 10
Setirebutia **14** 10
Sinocrassula **17** 6, 9
Sinosedum **17** 6
Siphonopetalum **12** 7
Skiatophyteae **13** 14
Soehrensia **13** 9
Sphalmanthus **12** 11, **13** 11, **14** 12, 18,
15 13, 15, **16** 7, **17** 14, **18** 18
Squamosae **12** 6
Stapelia **13** 6, **15** 9, **20** 10
Stapelianthus **12** 12, **16** 12, **19** 6
Stayneria **12** 11, **18** 18
Stenocereinae **12** 9
Stenocereus **11** 14, **12** 16, 17, **18** 17
Stetsonia **15** 11
Stipulatae **12** 7
Stoeberia **11** 10, **12** 11, **16** 7
Stultitia **13** 6, **14** 5
Submatucana **13** 9, 14, **14** 18, **17** 23
Subpilocereus **11** 9, 14
Sulcorebutia **12** 17, **13** 9, 14, **14** 10, 18,
15 11, **16** 14, **17** 12, 23, 24, **18** 9, **19** 7,
20 12

T

Tephrocactus **12** 9, **13** 9, 14, **14** 10, **15** 7,
11, **17** 12
Terminalia **20** 12
Thelocactus **12** 18, **13** 9, **20** 19
Thrixanthocereus **11** 9, **12** 9, **13** 9
Thyrsiflorae **19** 8
Tillaea **16** 6, **17** 6, 9, **18** 8, **20** 7
Toumeyia **11** 9, **14** 18, **17** 24, **18** 17
Trichocaulon **12** 12
Trichocereus **13** 9, **14** 10, **15** 7, **16** 14,
17 12, 24, **18** 10, 17
Trichodiadema **12** 12, **13** 11, **14** 12, **15** 13,
17 14
Trichosemineum **20** 12
Trifida **17** 9
Tuberculatae **12** 7
Turbinicarpus **12** 9, 18

U

Uebelmannia **18** 10, 17, **19** 7, **20** 12
Urceolatae **14** 5
Uruguayenses **19** 7
Utahia **20** 19

VVilladia **11** 7**W**Weberbauerocereus **13** 9, **15** 7, **20** 10Weberocereus **14** 10Weingartia **12** 9, **14** 10, 18, **15** 11, 14Wigginsia **15** 14, 15, **17** 24Wilcoxia **20** 12Winteria **13** 10Winterocereus **17** 24Wooleya **12** 12, 19**X**Xerosicyos **16** 7**Y**Yunnanenses **17** 6**Cultivar Names**'Acaulis' **16** 11'Blauwe Vogel' **14** 10'Blue Surprise' **19** 7'Cameo' **19** 7'Capitola' **19** 7'Chamaebivia Silandra' **18** 10'Domino' **14** 6'Echinopsis Gerritse' **18** 10'Geisenheim' **20** 12'Gil Tegelberg' **17** 10'Gilva' **19** 7'Goldrand' **11** 10'Gwendoline Parr' **19** 7'Heinrich Töpferwein' **11** 10'Hungaria' **18** 10'Jan Suba' **13** 7, **14** 7'Klein Duimpje' **14** 10'Leuchtstern' **11** 10'London Beauty' **11** 8'London Belle' **11** 8'London Boy' **11** 8'London Charm' **11** 8'London Delight' **11** 8'London Girl' **11** 8'London Glory' **11** 8'London Glow' **11** 8'London Joy' **11** 8'London Lad' **11** 8'London Lady' **11** 8'London Lass' **11** 8'London Magic' **11** 8'London Prince' **11** 9'London Superb' **11** 9'London Youth' **11** 9'Maiden Erlegh' **20** 11'Nürnberg' **11** 10'Ollasonii' **15** 12'Titubans' **16** 11'Vanbreen' **20** 13'William Denton' **16** 11'Winifred' **15** 11

