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Nomenclature of PLANTS

A text for the Application by the Case Method of the International Code of Botanical Nomenclature

Harold St. John

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A Text for the Application by the Case Method of the International Code of Botanical Nomenclature

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PREFACE

In recent times systematic botany has gained increased recognition, and this is reflected by the ever-larger number of schools, colleges, and universities that include it in their formal program of instruction. The taxonomic part is taught at length by lecture, textbook, laboratory work, and on field excursions.

On the other hand, nomenclature is usually covered briefly in a week or two of lectures. These are mostly historical in viewpoint, as opposed to practical. Such lectures are of value and are interesting, but the student does not gain a detailed knowledge of the content of the laws or the nomenclatural procedure under them as codified in the International Code of Botanical Nomenclature. He does not learn the basic principles of nomenclature. Usually his only real contact with it is by a chance overhearing of an argument between two of his instructors as to which is the correct name of a particular plant. Some taxonomists announce to their students that nomenclature is an evil, though they admit its necessity. They argue that a botanist should spend all his time studying the plants themselves, and that time spent on nomenclature is time wasted.

On the contrary, a taxonomic report published with the taxonomy or classification well done, but the nomenclature incomplete or incorrect, is not authoritative and must be done over again by some competent investigator.

After a short, well-directed study, nomenclature becomes first interesting, then fascinating. Its study reveals much of the development of botany, and it gives a familiarity with the beginnings of the science, the pioneer workers on, and the great books of, our science.

For more than a decade the writer has taught a course on botanical nomenclature at the University of Hawaii. The response by the students has been such as to cause him to expand the

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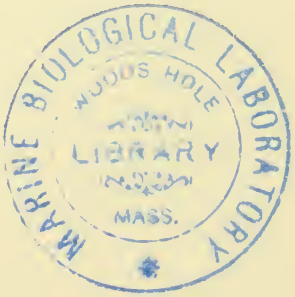
NOMENCLATURE OF PLANTS



CHAPTER 1

INTRODUCTION

Nomenclature is an inseparable and necessary part of the science and art of systematic botany. On a factual basis, such as the distinctive morphology, samples of a plant population are classified as a distinct unit, now called a taxon. On evaluation of its resemblances to, and differences from, other taxa, the botanist decides upon its taxonomy, that is, the placement of the taxon into the general system of classification. When this placement is determined, then the correct scientific name, according to plant nomenclature, must be found. The existing names must be judged as to whether or not they are effectively published, validly published, and with priority. If no available name exists, a new one must be formed. These two steps in the establishment of a taxon are, respectively, taxonomic and nomenclatural. Systematic work is correctly and fully done only when both of these steps are properly carried out.

Though they have had various and even identical definitions in botanical texts and dictionaries, the following botanical terms are used in this text as here defined:

Systematic botany or *systematics* embraces the whole field of systematic work, including the placing of an individual plant into a category of classification or taxon, the assignment of the taxon into the system of orderly arrangement or phylogeny, and the selection of a scientific name. This is divisible into the two following parts:

Taxonomy deals with the placement of a plant into its smallest taxon, and that taxon into the hierarchy of larger ones in the system. All such modern systems are phylogenetic in character.

Nomenclature deals with the selection of the correct scientific name for a plant when placed in a particular taxon, in conformity with the legal requirements, that is, with the articles and rec-

ommendations of the last International Code of Botanical Nomenclature.

The new terms *neosystematics* and *biosystematy* are not used here, as they seem based on an overemphasis of the fact that in recent times genetics and ecology have provided some new evidence to be included with the morphologic in reaching taxonomic judgements.

A very effective way of training botanical students in nomenclature is by having them take part in the doing of it. This is easily arranged and supervised by assigning the students jointly or singly to solve a series of nomenclatural cases. Each student who is assigned a case investigates it, finds and evaluates each publication cited, searches for other pertinent facts, for other names, such as homonyms, nomina conservanda, etc., then, when ready, reports on the case. The student gives his interpretations before the class, the members of which serve as the jury. Queries and arguments bring out the features of the case. The instructor, serving as judge, guides the discussion, confirms the opinion of the jury, or, if necessary, gives his own judgement. This method of presentation has proved stimulating to the individual students.

There is given below, as an example, the case of *Cydonia Cydonia*, and the process, step by step, of its investigation and solution. The others can be digested and solved in a similar way, and the study of a series of these cases will aid in giving students a sounder training in botany.

Solution of a Sample Nomenclatural Case

Cydonia Cydonia (L.) Pers., Syn. Pl. 2: 40, 1807.
Pyrus Cydonia L., Sp. Pl. 480, 1753.
Cydonia Oblonga Mill., Gard. Dict., ed. 8, Cydonia No. 1, 1768.
C. vulgaris Pers., Syn. Pl. 2: Corrigenda for p. 40, 1807.

The earliest of these names is *Pyrus Cydonia*, which is found in Linnaeus' *Species Plantarum*, 1753. There on page 480 Linnaeus published this name for the quince tree, found on the rocky banks of the Danube. This name appeared in his printed book, which was offered for sale in 1753, hence, it was effectively published, under Art. 29 (1956), which states, "Publica-

tion is effected, under this Code, only by distribution of printed matter (through sale, exchange, or gift) to the general public or at least to botanical institutions with libraries accessible to botanists generally." The name was validly published, under Art. 13, which provides, "Valid publication . . . is treated as beginning, . . . a. Spermatophyta and Pteridophyta, 1 May 1753 (Linnaeus, *Species Plantarum*, ed. 1)."

It is published with references to earlier printed descriptions in two of his own books, one book by Royen, and one by Bauhin. This satisfies Art. 32(2), which requires that, "In order to be validly published, a name of a taxon of recent plants must be both (1) effectively published . . . and (2) accompanied by a description of the taxon or by a reference (direct or indirect) to a previously and effectively published description of it."

It is validly published with the new specific epithet to be associated as a binomial with the generic name, under Art. 32, fourth paragraph, which reads, "A combination is not validly published unless the author definitely indicates that the epithet or epithets concerned are to be used in that particular combination. . . . Examples, In Linnaeus' *Species Plantarum* the placing of the epithet in the margin opposite the name of the genus clearly indicates the combination intended."

Cydonia Oblonga Miller, published in his great *Gardeners Dictionary*, ed. 8, 1768, was effectively published. It contained a description and the common name, Quince-tree. It also gave a reference to the earlier *Cydonia fructu oblongo laeviori* of Tournefort's *Institutiones Rei Herbarii*, 632, a book published in 1700. There the genus was described and illustrated, and the name quoted above given for the quince. This was published before the starting date of botanical nomenclature, 1753 (Art. 13), and the species was given not a binomial but a polynomial, which is now illegitimate under Art. 23, which states: "The name of a species is a binary combination consisting of the name of the genus followed by a single specific epithet." Consequently, the name published by Tournefort is illegitimate, but the description and figure given by him can be cited as the basis of a binomial that was published in or after 1753. Miller's *Gardeners Dictionary* was without numbered pages, instead it was organized like an encyclopaedia, with the

entries in alphabetical order. Under *Cydonia*, with three species, it said, "The species are, 1. Cydonia (*Oblonga*) foliis oblongo-ovatis subtus tomentosis, pomis oblongis basi productis. Quince-tree with oblong oval leaves, woolly on their under side, and an oblong fruit lengthened at the base." Miller discussed the grouping by Linnaeus of the apple, pear, and quince in the same genus, *Pyrus*. He opined that the quince and the pear were nearly allied botanically, but the apple not so. Then, in the section on propagation, he continued, "As the Pear will take upon the Quince by grafting or budding, and so vice versa, we may conclude there is a near alliance between them; but as neither of these will take upon the Apple, nor that upon either of these, so we should separate them under different genera, as will be further mentioned under the article Malus." Under the generic heading *Cydonia*, Miller gave references to *Cydonia* Tourn., and *Pyrus* of Linnaeus in his *Genera Plantarum*, 1754. Consequently *Pyrus Cydonia* L. and *Cydonia Oblonga* Mill. are synonymous in that they are based in part upon the same Tournefort reference. The other references also are accepted as applying to this same species.

The issue as to whether the quince, the pear, and the apple are to be left in a single genus is a taxonomic one. As to the apple and pear, the question is still moot, but there is a consensus of interpretation that the quince forms a separate genus, as can be seen in the manuals, encyclopaedias, and systems of botany. As a genus separated from *Pyrus*, the first validly published name is *Cydonia* [Tourn.] Mill. The *Index Kewensis* gives Miller's *Gardeners Dictionary*, ed. 6, as the place of origin of this generic name. However, this edition appeared in 1752, a pre-Linnaean date, hence the name is illegitimate, under Art. 13, which, as quoted above, establishes 1 May 1753 as the starting point for scientific botanical nomenclature. The reference given in this case, Miller's ed. 8, of 1768, is the first valid publication of a generic name for this group as a genus.

Miller's name *Cydonia* (*Oblonga*) *foliis oblongo-ovatis*, etc., might be considered a polynomial, but examination will show that the latter phrases were the description and the word (*Oblonga*) was the epithet for the species. It was a better and more economical arrangement with the epithet in parentheses following the generic name, than was Linnaeus' method of plac-

ing the epithet singly in the margin. That Miller's method was an acceptable indication of a binomial is stated in Art. 32, Examples, "The same result is attained in Miller's *Gardeners Dictionary*, ed. 8, by the inclusion of the epithet in parentheses immediately after the name of the genus, . . ." The epithet *Oblonga*, not being the name of a person, or a vernacular name, or a former generic name, should now be written with small letters, under Rec. 73F, which states, "All specific and infraspecific epithets should be written with a small initial letter, . . ."

Cydonia Cydonia (L.) Pers. was a combination, made by Persoon in 1807, of the oldest specific epithet (1753) under the valid generic name *Cydonia* (1768). When Persoon did this, the practice was legal. Now, all the recent codes of nomenclature have legislated against this kind of action. The most recent code, that of 1954 (published in 1956) asserts, Art. 70, "epithet is illegitimate . . . (4) When it exactly repeats the generic name, . . ." These tautonyms are now invalid, so, though the epithet *Cydonia* of Linnaeus was the first valid name, it cannot be used, as it is illegitimate if combined under the genus *Cydonia* as *Cydonia Cydonia*.

The *Index Kewensis* gives *Cydonia vulgaris* Pers. as having been published by Persoon on page 40 of his *Synopsis*. That is incorrect. But C. K. Schneider's *Illustriertes Handbuch der Laubholzkunde* 1: 654, 1906, gives the reference as the Errata in Persoon's *Synopsis*. That is correct, and there Persoon says, "ob infer. loco *Cydonia* leg. vulgaris," so Persoon's corrected name for the quince was *Cydonia vulgaris* (1807). Under the species he gives a description, and a reference to *Pyrus* L., which ties his new name back to the original *Pyrus Cydonia* L. By our present rules Persoon was correct in avoiding a tautonym, but he should have adopted the earliest specific epithet, in this case, *oblonga* of Miller (1768). The two epithets are certainly synonyms, both being traceable back to Linnaeus and to Tournefort. Art. 11 provides, "Each order or taxon of lower rank with a particular circumscription, position, and rank can bear only one correct name, . . . For any taxon below the rank of genus inclusive, the correct name is the earliest legitimate one validly published with the same rank, except in cases of limitation of priority by conservation . . ." Hence, *vulgaris* of Persoon is illegitimate, *oblonga* of Miller being earlier and available.

The correct scientific name of the quince, when classified as a separate genus, is *Cydonia oblonga* Mill. (1768).

The solution of this nomenclatural case brings the student in contact with several of the fundamental and great botanical books. The correct interpretation of this case rests upon an ability to read scientific books in several languages, an understanding of the principles of priority, synonymy, and the regulations governing the binomial system and tautonyms. Other principles, laws, and recommendations are illustrated by the other cases. Often a case will involve many of the articles and recommendations of the International Code of Botanical Nomenclature.

Useful Publications

The publications useful to a student of nomenclature are many, too many to be listed here. However, a selection of the most serviceable ones is classified and listed below.

Indexes

Andrews, H. N., Jr. Index of Generic Names of Fossil Plants, 1820–1950. U. S. Geol. Surv., Bul. 1,013. 1955.

Gray Herbarium card index of new genera, species and varieties of American plants, 1885– .

Merrill, E. D. Index Rafinesquianus. 1949.

PHANEROGAMS

Index Kewensis 1–4. Supplements 1–11– . 1895– .

FILICINAE

Christensen, C. Index Filicum, and Supplements. 1906, 1913, 1917, 1934.

MARSILEACEAE AND SALVINIACEAE

Reed, C. F., Index Marsileata et Salviniata. Sociedade Broteriana, Bol. II, 28: 5–61. 1954.

LYCOPODIUM

Herter, W. (or Guilemus). Index Lycopodiorum. 1949.

Herter, W. Systema Lycopodiorum. 1949–50.

ISOËTALES

Reed, C. F. Index Isoëtales. Sociedade Broteriana, Bol. II, 27: 1–72. 1953.

OTHER FERN ALLIES

None.

LICHENS

Zahlbruckner, A. Catalogus Lichenum Universalis, 10 vol. 1921–1940.

FUNGI

Saccardo, P. A. Sylloge Fungorum. 18 vol. 1882–1906.

ALGAE

de Toni, G. B. Sylloge Algarum. 6 vol. 1889–1924.

DESMIDIACEAE

Norstedt, C. F. O. Index desmidiacearum citiationibus locupletissimus atque bibliographia, and supplementum. 1896, 1908.

BACTERIA

None, but see Bergey, D. H. Manual of Descriptive Bacteriology. 1949.

Systems

Bentham, G., and Hooker, J. D. Genera Plantarum. 3 vol. 1862–1883.

De Candolle, A. P., and A. Prodromus systematis naturalis regni vegetabilis. 17 vol., 4 vol. index. 1824–1873.

Engler, A., and Prantl, K. Die Natürliche Pflanzenfamilien. Ed. 1, 23 vol., 1887–1915. Ed. 2, 1924– .

Engler, A. Das Pflanzenreich. 1900– .

Hutchinson, J. The Families of Flowering Plants. 2 vol. 1926, 1934.

Johnson, A. M. Taxonomy of Flowering Plants. 1931.

Rendle, A. B. The Classification of Flowering Plants. 2 vols. 1904, 1925.

Warming, E. A Handbook of Systematic Botany. Ed. by M. C. Potter, 1904.

Wettstein, R. Handbuch der Systematischen Botanik. Ed. 4, 2 vols. 1933, 1935.

Nomenclature Catalogues

Pfeiffer, L. Nomenclator botanicus. 3 vol. in 4. 1873–1874. Up to the end of 1858 this alphabets all names from those of classes down to those of sections.

Steudel, E. Nomenclator Botanicus. Ed. 1, 1824. Ed. 2, 2 vols., 1840–41.

Dictionaries

Willis, J. C. A Dictionary of the Flowering Plants and Ferns. 6th ed. 1948.

Nomenclature Code

International Code of Botanical Nomenclature adopted by the Eighth International Botanical Congress. Paris, July, 1954. Edited by J. Lanjouw *et al.*, Regnum Vegetabile 8: 1–338, 1956. Utrecht, I. A. P. T.

International Code of Nomenclature for Cultivated Plants, Regnum Vegetabile 10: 1–28, 1958.

Bibliographies

Biological Abstracts. 1926–.

Botanical Abstracts. 1918–1926.

Botanisches Centralblatt. 1880–.

British Museum of Natural History, Catalogue of Library. 8 vol., including 3 Supplements. 1903–1940.

International Catalogue of Scientific Literature, Botany. Covering 1900–1913.

Jackson, B. D. Guide to Literature of Botany. 1881.

Just's Botanischer Jahresbericht. 1873–.

Kew. Catalogue of the Library of the Royal Botanic Gardens. Kew Bul. Misc. Inf., Add. Ser. 3. 1899. Suppl. 1919.

Merrill, E. D., and Walker, E. H. Botanical Bibliography of the Pacific. U. S. Natl. Herb., Contr. 30(1). 1947.

Pritzel, G. A. Thesaurus Literaturae Botanicae. Ed. 2. 1871.

Rehder, A. Bradley Bibliography of Woody Plants. 5 vols. 1911–1918.

Rehder, A. Bibliography of Cultivated Trees and Shrubs. 1949.

Royal Society Catalogue of Scientific Literature. 19 vols. Covering 1800–1900.

Guide to Floras

Blake, S. F., and Atwood, A. C. Geographical Guide to Floras of the World. Pt. 1, U. S. Dept. Agric., Misc. Publ. 401. 1942.

Cultivated Plants

Bailey, L. H. Manual of Cultivated Plants. Rev. ed. 1949.

Bailey, L. H. Standard Cyclopedia of Horticulture. 3 vols. 1928, and later reprintings.

Rehder, A. Manual of Cultivated Trees and Shrubs hardy in North America. Ed. 2. 1940.

CHAPTER 2

CASE

1. *Sida Holtzii* F. Muell. (in herb.) ex E. G. Baker, Jour. Bot. Brit. For. 30: 325, 1892.*

2. *Pleiogynium Solandri* (Benth.) Engler in DC., Monogr. Phan. 4: 255, pl. 7, fig. 1-10, 1883.
   Spondias Solandri Benth., Fl. Austral. 1: 492, 1863.
   S. acida Soland. ex Benth., Fl. Austral. 1: 492, 1863.
   Owenia cerasifera F. Muell., Hooker's Jour. Bot. & Kew Miscel. 9: 305, 1857.
   S. pleiogyna F. Muell., Fragm. Phytogr. Austral. 4: 78, 1863-1864.
   Icica ? Timoriensis DC., Prodr. 2: 78, 1825.
   P. timoriense (DC.) Leenhouts, Blumea 7: 159, 1952.

3. *Phleum pratense* L. Race II—*P. nodosum* L. (Pro specie), *β intermedium* Nob., Rouy, Fl. de France 14: 49-50, 1913.
   P. pratense L., Sp. Pl. 59, 1753.
   P. nodosum L., Syst. Veg., ed. 10, 871, 1759.
   P. intermedium Jordan ex F. W. Schultz, Fl. France et Allemagne, Archives 1: 325, (1842-1848) = [1854].

4. *Phyllamphora mirabilis* Lour., Fl. Cochinch. 606, 1790.
   Nepenthes Phyllamphora Willd., Sp. Pl. of L., ed. 4 by Willd., 4: 874, 1805.
   N. mirabilis (Lour.) Druce, Bot. Exch. Club Brit., Rept. 1916: 637, 1917.

*Customary abbreviations of the authors' names are used in the bibliographic citations. For books the key words of the titles are used in full or in abbreviation. Magazine titles are also abbreviated, except where it is necessary to cite them more fully. The words "plate," "plates," "tables," "tafeln," etc., are shortened to pl.; figures are shortened to fig. Roman numbers of volumes or plates are changed to Arabic numbers, except where confusion might result, but they are retained for a magazine series number and for the pages of an introduction so numbered.

N. mirabilis (Lour.) Merr., Interpr. Rumph. Herb. Amboinense 242, 1917.

5. *Convolvulus sepium* L. β *Americanus* Sims, Curtis's Bot. Mag. 19: pl. 732, 1804.
Calystegia sepium (L.) R. Br. β *rosea* Choisy in DC., Prodr. 9: 433, 1845.

6. *Collinsia* J. Agardh, Analecta Algol. cent. 5: 77–79, 1899.
Collinsia Nutt., Acad. Nat. Sci. Phila., Jour. 1: 190, pl. 9, 1817.
Collinsiae Mack. in Britton & Brown, Ill. Fl. N. U. S. Can., ed. 2, 1: 353, 1913.
Carex Collinsii Nutt., Gen. N. Am. Pl. 2: 205, 1818.
Collinsonia L., Gen. Pl., ed. 5, 16, 1754.
See Silva, Univ. Calif., Publ. Bot. 25: 284, 1952.

7. *Cicuta maculata* L., Sp. Pl. 256, 1753.
See Coulter & Rose, U. S. Natl. Herb., Contr. 7: 97–98, 1900;
Fernald, Rhodora 41: 439–440, 1939.

8. *Thelpyteris* Schmidel, Icon. Pl., ed. 2, 45, pl. 11, 13, 1762.
Dryopteris Adans., Fam. Pl. 2: 21, 1763.
Nephrodium Rich., Cat. Jard. Med. Paris, 1801.
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Mackenzie, Am. Fern. Jour. 17: 117, 1927;
Fernald & Weatherby, Rhodora 31: 21–36, pl. 179–180, 1929; also as Gray Herb., Contr. n.s. 83: 21–36, pl. 179–180, 1929.

9. *Blechnum orientale* L., Sp. Pl. 1,077, 1753.
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10. *Englemannia* Gray ex Nutt., Am. Phil. Soc., Trans. II, 7: 343–344, 1841.
Engelmannia T. & G., Fl. N. Am. 2: 283, 1841.
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Engelmannia Klotzsch, in Wiegmann's Archiv für Naturgesch. 7: 253, 1841.
Engelmannia Pfeiff., Bot. Zeit. 3: 673, 1845.

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C. umbellata J. R. & G. Forst. emend. G. Forst., Fl. Ins. Austral. Prodr. 93, 1786.
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12. *Houstonia patens* Ell. var. *pusilla* Gray, Syn. Fl. N. Am. 1(2): 25, 1884.
H. pusilla Schoepf, Reise 2: 306, 1788.
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H. pygmaea C. H. & M. T. Mueller, Torrey Bot. Club, Bul. 63: 33–34, 1936.
H. Taylorae Fosberg, Field & Lab. 17: 169, 1949.
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13. *Brodiaea Orcuttii* (Greene) Baker, Gard. Chron. III, 20: 214, 1896.
Hookera Orcuttii Greene, Calif. Acad. Sci., Bul. 2: 138, 1886.
H. multipedunculata Abrams, Torrey Bot. Club, Bul. 32: 537, 1905.

14. *Wyethia amplexicaulis* Nutt., Am. Phil. Soc., Trans. II, 7: 352–353, 1840.
Espeletia amplexicaulis Nutt., Acad. Nat. Sci. Phila., Jour. 7: 38, 1834.
See Weber, Am. Midl. Nat. 35: 441, 1946.

15. *Puccinia-Convolvuli* (Pers.) Cast., Obs. Pl. Acot. Urédinées 1: 16, 1842.
Vredo betae β Vredo Conuoluuli Pers., Syn. Fung. 221, 1801.
See Jackson, Mycologia 23: 495, 1931;
Rickett, Taxon 4: 185–188, 1955.

16. *Cracca* L., Gen. Pl., ed. 5, 333, 1754; Sp. Pl. 752, 1753.
Cracca Benth. in Benth. & Oersted, Kjoeb. Vidensk., Meddel. 1853: 8, 1854.
Cracca L. sensu Ktze., Rev. Gen. 1: 173–176, 1891.
Galega L., Syst. Nat., ed. 10, 2: 1,172, 1759; Gen. Pl., ed. 5, 320, 1754; ed. 6, 384, 1764; Syst. Nat., ed. 13, 2: 496–497, 1770.
Tephrosia Pers., Syn. Pl. 2: 328, 1807.

Benthamantha Alefeld, Bonplandia 10: 264, 1862.
Brittonamra Ktze., Rev. Gen. 164, 1891.
See Wood, Rhodora 51: 197–199, 1949.

17. *Geitonoplesium cymosum* (R. Br.) A. Cunn. var. *timorense* (Ridley) Schlittler, Bot. Mus. Univ. Zürich, Mitt. 189: 228, 238, 1951.
Luzuriaga cymosa R. Br., Prodr. Fl. Nov. Holl. 282, 1810.
Eustrephus timorensis Ridley in H. O. Forbes, Nat. Wand. East. Archip. 520, 1885.

18. *Convolvulus tiliaefolius* Desr. in Lam., Encyc. Méth. Bot. 3: 544, 1789.
Ipomoea grandiflora Lam., Tabl. Encyc. 1: 467, 1791.
Stictocardia tiliaefolia (Choisy) Hallier f., Engl. Bot. Jahrb. 18: 159, 1894.
Convolvulus grandiflorus L. f., Suppl. 136, 1781.
Stictocardia tiliifolia (Desr.) Hallier f. emend. Oostr. & Hoogl., Fl. Males. 4: 491, 1953.
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Elsbolzia Reichb., Consp. 116, (1828) = [1829].
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Elssholzia Garcke, Fl. Deutschl., ed. 6, 307, 1863; ed. 19, 479, 1903.
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Escholtzia Dum., Anal. Fam. Pl. 52, 1829.
Eschscholtzia Cham., Linnaea 8: 464, 1833.
Eschsholzia DC., Prodr. 3: 344, 1828.

20. *Delisea* Lamx., Dict. Sci. Nat. 13: 41–42, 1819.
Delissea Gaud., Bot. Voy. Freyc. Uranie 457, pl. 6, 78, (1826) = [1829].
Delisea Fée, Essai Cryptog. Écorces, pp. LXIV–LXV, 151, 1824.

Delitschia Auerswald, Hedwigia 5: 49, 1866.
See Silva, Taxon 6: 143, 1957.

21. *Viola Chamissoniana* Ging. var. *beta* Hbd. ex MacCaughey, Torreya 18: 5, 1918.
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92. *Diellia Brownii* E. Br., Bishop Mus., Bul. 89: 46, 1931.

93. *Argyroxiphium sandwicense* DC. See Hbd., Fl. Haw. Is. 219, 1888, Ahinahina.

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102. *Solanum vulgare* L., Sp. Pl. 186, 1753.
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103. *Rhus Coriaria* L., Sp. Pl. 265, 1753.
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R. angustifolium L., Sp. Pl. 267, 1753.
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157. F. Muell. =Sir Ferdinand Jacob Heinrich von Mueller (1825–1896). Consider abbreviations for Carl (1817–1870); Carl Alfred Ernst (1855–1907); Ferdinand (another publishing in 1852–1862); Franz (publishing 1829–1859); Jean (1828–1896); Jean Baptista (1806–1894); Johann Karl August (1818–1899); Johann Sebastian (later John) (1715?–1790?); Joseph (published from 1832–1859); Otto Frederik (1730–1784); Philipp Jakob (1832–1889).
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164. *Trematosphaeriopsis* Elenkin, Jard. Bot. St. Petersb., Bul. 136–146, 1901.
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CHAPTER 3

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