

***Trommsdorffia* Bernh. 1800 is a validly published generic name**

Trommsdorffia Bernh. 1800 je platně zveřejněné rodové jméno

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The name *Trommsdorffia* Bernh. 1800 for a genus of *Compositae* was validly published with a diagnosis and in connection with a determination key. The homonymous name *Trommsdorffia* Mart. 1825 for a genus of *Amaranthaceae* is therefore illegitimate and is substituted here by a new generic name *Pedersenia* Holub. Seven new nomenclatural combinations are proposed with the new generic name for species of the genus occurring in South and Central America.

Key words: Nomenclature, *Trommsdorffia* Bernh., *Trommsdorffia* Mart., *Pedersenia* gen. novum, new nomenclatural combinations, South America

In a study on South American representatives of *Amaranthaceae*, T. M. Pedersen (1997) reinstalled *Trommsdorffia* Mart. 1825 as a separate genus. The genus was described by Martius (1825, 1826) with four species. From that time it was accepted only by very few authors. Various authors included this genus, together with other more or less related genera of *Amaranthaceae*, into e. g. *Alternanthera* Forsk. 1775, *Hebanthe* Mart. 1826, *Pfaffia* Mart. 1826, but mostly it was combined with *Iresine* P. Browne 1756 as a section of that genus. Pedersen (1997) analyzed very precisely the relationships of that taxonomic group to all the above mentioned genera (*Pfaffia*, *Alternanthera*, *Hebanthe*, *Iresine* – here substantial differences in morphology of pollen grains exist) and came to conclusion that *Trommsdorffia* Mart. represents a genus of its own.

On this occasion Pedersen (l.c.) also analyzed the nomenclature of that genus as the same name *Trommsdorffia* was proposed for three genera – one of the family *Compositae*, the second for the above mentioned genus of *Amaranthaceae* and a third for a genus of *Gesneriaceae* (not of *Gentianaceae* as given by Pedersen l.c.). As the latter name seems to have been published a year later than Martius's generic name discussed here it is not necessary to analyze it in detail. In comparison with the well elaborated taxonomic study of the genus *Trommsdorffia* from *Amaranthaceae* by Pedersen, the author's nomenclatural solution has to be abandoned as entirely erroneous.

Pedersen (1997: 248) avered that “the name *Trommsdorffia* Bernh. was not validly published according to Art. 34.1.(d) of the International Code of Botanical Nomenclature (Greuter et al. 1994); moreover no generic description was provided by Bernhardt and no reasons were given for taking the species *Hypochoeris maculata* out of *Hypochoeris*. The new genus was only identified by the combination *Trommsdorffia maculata*, citing *Hypochoeris maculata* L. in synonymy, and by the germanized name *Trommsdorffie*”. This statement by Pedersen is erroneous as will be shown below. The book by Bernhardt is extremely rare, as is stated also by Stafleu & Cowan (1976: 200). Pedersen certainly did not

study the whole text of the protologue of the generic name included in Bernhardi's book (especially that on pages 94–102) and saw with certainty only the page 140 of Bernhardi's book with the species combination. The text on this page (referring to the species and not to the genus) corresponds to the data mentioned by Pedersen above. Bernhardi, however, described his genus both by placing it in a determination key and by giving its brief diagnosis at the end of that determination key. Enumeration of these characters, which are extracted from the determination key to the genera of the Linnaean group "Fünfte Klasse Fünfbeutelige" follows. They are given here in the original German language:

- 94: Eingriffelige.
- 100: Mit Blumen über den Fruchtknoten
- 100: mit einblättrigen Blumen
- 101: mit verwachsenen Staubbeuteln
- 101: mit lauter zungenförmigen Blumen
- 101: mit gleichen, einfachen Kelchen.

In this way a group of genera is reached including the following ones (p. 101–102): *Arnoseris*, *Cichorium*, *Hieracium*, *Crepis*, *Lactuca*, *Scorzonera*, *Tragopogon*, and *Trommsdorffia*. On p. 102 a short diagnosis of *Trommsdorffia* is given: (102):

166. Trommsdorffie (*Trommsdorffia*): ♂, Fruchtknotendecke: mehrfach; Boden: mit Spreu besetzt; Kelch: federförmig.

At all eight above mentioned genera the combinations of the following characters are given: Fruchtknotendecke: einfach, doppelt, mehrfach, dachziegelförmig; Boden: nackt, mit Spreu besetzt; Kelch: häutig, zahnförmig, haarförmig, federförmig.

Separately on page 140 of the text on the species of the genus, the following is given: this is the only text known to Pedersen (1997):

166: Trommsdorffie (*Trommsdorffia*) 1. gefleckte (maculata) Bl. Jun Jul – auf Bergen und in Wäldern – bey Tonndorf, Alach. ♀ (*Hypochoeris maculata* L.).

The statement by Pedersen, that no comparison of the new genus with *Hypochoeris* is given, is also incorrect. After exclusion of *Hypochoeris maculata* Bernhardi divided two other species of that Linnaean genus into two genera – *Achyrophorus* and *Hypochoeris*, the first including *H. radicata* L., the second containing *H. glabra* L. In the above mentioned determination key *Achyrophorus* is distinguished from *Trommsdorffia* as follows:

102: mit gleichen doppelten Kelchen,

and *Hypochoeris* from *Trommsdorffia*

102: mit verschiedenen Kelchen

These characters are described there in detail in proper descriptions of the two genera:

102: *Achyrophorus*: Kelch: äusserer: haarförmig, innerer: federförmig.

103: *Hypochoeris*: Kelch der Randblüthen: äusserer: haarartig, innerer: federartig, am Grunde wollig, der mittleren Blüthen: äusserer: haarartig, innerer: federartig.

All this evidence confirms the nomenclatural validity of Bernhardt's generic name *Trommsdorffia* for the segregate of *Hypochoeris* L. based on *H. maculatum* L. This generic name was used by Czech authors Soják (1972), Holub et al. (1979) and by Dostál (1984, 1988). The correct citation of that generic name is included also in the Index nominum genericorum (Farr et al. 1976), where the correct page of the generic description (102, and not 140) is given.

No available name exists, however, for the homonymous genus of *Amaranthaceae*. As its classification as a separate genus has been supported by precise and long-term taxonomic studies of Troely Myndel Pedersen in the family *Amaranthaceae*, the name of this author is used here for formation of a substitute name for *Trommsdorffia* Mart. 1825 – *Pedersenia* Holub. According to Pedersen's studies the genus includes 7 species occurring in South and Central America.

***Pedersenia* Holub, nomen genericum novum.** – Nomen genericum substitutum: *Trommsdorffia* Martius Beitr. Kenntnis Familie *Amaranthaceae*, 130, Bonn 1825; Nova Genera Spec. Plant. Brasil 2: 40, 1826; non *Trommsdorffia* Bernhardt 1800. Typus: *Trommsdorffia argentata* Mart. 1825.

***Pedersenia argentata* (Mart.) Holub, comb. nova.** – Bas.: *Trommsdorffia argentata* Martius Beitr. Kenntnis Familie *Amaranthaceae*, 130, Bonn 1825.

***Pedersenia canescens* (Willd.) Holub, comb. nova.** – Bas.: *Iresine canescens* Humboldt et Bonpland ex Willdenow Spec. Plant. 4/2: 765, Berolini ("1805") IV. 1806.

***Pedersenia cardenasii* (Standley) Holub, comb. nova.** – Bas.: *Iresine cardenasii* Standley, Field Mus. Natur. Hist., Bot. Ser., 17: 241, Chicago 1937.

***Pedersenia costaricensis* (Standley) Holub, comb. nova.** – Bas.: *Iresine costaricensis* Standley, Contrib. U. S. Nation. Herb. 18: 94, Washington DC., 1916.

***Pedersenia macrophylla* (R. E. Fries) Holub, comb. nova.** – Bas.: *Iresine macrophylla* R. E. Fries, Ark. Bot. 16: 41, Stockholm 1920.

***Pedersenia pulverulenta* (Mart.) Holub, comb. nova.** – Bas.: *Trommsdorffia pulverulenta* Martius Beitr. Kenntnis Familie *Amaranthaceae*, 131, Bonn 1825.

***Pedersenia weberbaueri* (Suesseng.) Holub, comb. nova.** – Bas.: *Trommsdorffia weberbaueri* Suessenguth, Feddes Repert. 35: 323, Berlin-Dahlem 1934.

Souhrn

Domněnka T. M. Pedersenia, že rodové jméno *Trommsdorffia* Bernh. 1800 nebylo platně publikováno, je chybná. Toto rodové jméno pro zástupce čeledi *Compositae* založené na druhu *Hypochoeris maculata* L. má svoji platnou diagnózu, rod je srovnán s příbuznými rody a je též definován znaky, obsaženými v určovacím klíči. Lze tedy toto jméno bezpečně užívat pro segreganta rodu *Hypochoeris* L. pro dva druhy zastoupené v květeně České republiky – *Trommsdorffia maculata* (L.) Bernh. a *T. uniflora* (Vill.) Soják. Pro homonymní rod z čeledi *Amaranthaceae*



schází platné rodové jméno; zde je pro něj navrženo jméno *Pedersenia* – podle autora T. M. Pedersena, jenž se dlouhou dobu (již od 60. let) věnuje taxonomickému výzkumu zástupců čeledi *Amaranthaceae* v Jižní Americe. Rod podle současných znalostí zahrnuje 7 druhů vyskytujících se ve Střední a Jižní Americe, pro něž jsou v článku navrženy nové nomenklatorické kombinace s nově zavedeným rodovým jménem *Pedersenia* Holub.

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