



## Lectotypification, synonymy, and a new name in *Senna* series *Aphyllae* (Leguminosae: Caesalpinioideae)

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### Abstract

In series *Aphyllae*, *Senna acanthoclada* is lectotypified based on images housed at Albrecht von Haller Institute of Plant Sciences, Universität Göttingen; a new circumscription and synonyms for *S. aphylla* are given, and a new name: *S. aphylla* var. *pendula* var. *nov.* is proposed.

**Key words:** *Senna*, *Aphyllae*, nomenclature, taxonomy, Argentina

### Introduction

*Senna* Miller (1754: 290) series *Aphyllae* Bentham (1871: 542) comprises six species known for their shrubby habit, deeply penetrating woody roots, leaves on adult branches represented by minute triangular or sublobate scales and by junciform, green and photosynthetic stems. This series occurs in southern Bolivia, central and northwestern Argentina and southeastern Paraguay (Burkart 1946, 1952, 1967, Bravo 1978a, 1978b, 1982, Irwin & Barneby 1982, Bravo *et al.* 1986, Robbiati *et al.* 2011, Robbiati *et al.* 2013). Working towards a new treatment of *Aphyllae* it was found that the type of *S. acanthoclada* Griseb. (1879: 116) H. S. Irwin & Barneby (1982: 570) was composed of material from more than one specimen and lectotypification is required. In addition there has been confusion and misapplication of names in *S. aphylla* Cav. (1801: 41) H. S. Irwin & Barneby (1982: 570); after the nomenclatural types were studied, a new circumscription is proposed. In this paper we include *Cassia aphylla* var. *rigida* Hieron. (1881: 24), *C. aphylla* var. *virgata* Burkart (1967: 451), *S. trichosepala* Chodat & Wilczek (1902: 475) H. S. Irwin & Barneby (1982: 570) and *C. rigida* Hieron. (1881: 24) Burkart (1952: 544) var. *inermis* L. Bravo (1978a: 377) L. Bravo (1986: 270) in the synonymy of *S. aphylla* and describe *S. aphylla* var. *pendula* Robbiati & Fortunato var. *nov.* This last taxon was misidentified by previous authors: Burkart (1952), Bravo (1978a, 1978b, 1984) and Irwin & Barneby (1982), as *C. aphylla*, *C. aphylla* subsp. *aphylla* and *S. aphylla* var. *aphylla* respectively.

### Lectotypification

*Senna acanthoclada* (Griseb.) H. S. Irwin & Barneby (1982: 570).

≡ *Cassia acanthoclada* Griseb. (1879: 116).

Lectotype (designated here):—ARGENTINA. Córdoba: Dep. Punilla, zwischen San Roque u. Las Rosas, 4 January 1876, Lorentz & Hieronymus 481 (lectotype, GOET 8875!, GOET; isolectotype, CORD 5844!, CORD!; isolectotype, SI 1917!, SI!). Fig. 1.

(BAB); La Pampa: Conhelo, sobre ruta nacional 143, entre Mitre y Rucanelo, 9 December 1969, *Cano 4374* (BAB); Loventué, Cerro El Durazno, sobre ruta nacional 148, November 1959, *Cano 430* (BAB); Ultracán, General Acha, 10 January 1944, *Hunziker 4119* (CORD); La Rioja: Castro Barros, 2 June 1973, *Cantino 589* (CORD); Gobernador Gordillo, 15 February 1949, *Krapovickas & Hunziker 5984* (CORD); San Luis: Chacabuco, ruta provincial 1, al norte de Villa del Carmen, al oeste de las Sierras Comechingones, 32° 58' S, 65° 2' W, 13 April 2004, *Pozner & Belgrano 198* (BAB); General Pedernera, después de Liborio Luna, aproximadamente 20 km de Villa Mercedes, 14 November 1956, *Hunziker 13147* (CORD); General San Martín, Bajo de Velís, 22 December 1885, *Kurtz 3146* (CORD); Salta: Guachipas, 7 December 1873, *Lorentz & Hieronymus 1177* (CORD); Santiago del Estero: La Banda, ruta nacional 34, al norte de La Aurora, 27 September 1989, *Pérez-Moreau 4867* (BAB); 9 km al norte de Simbol Cañada, 10 March 1986, *Molina 3392* (BAB); Ojo de Agua, ruta nacional 9, próximo a Ojo de Agua, 4 December 1967, *Vervoorst 731* (LIL); camino a Ambargasta, 30 km al oeste de la ruta nacional 9, 21 October 1988, *Pérez-Moreau 4256* (BAB); Pampa Grande, entre Sumampa y Ojo de Agua, 29° 27' S, 63° 34' W, 10 October 1979, *Piccinini & Hilfer 3717* (BAB); Sierra de Sumampa, lado oeste de la ruta nacional 9, 29° 38' S, 63° 44' W, 14 October 1979, *Piccinini & Hilfer 3823* (BAB); Río Hondo, 22 May 1949, *Soriano & Barrett 3568* (BAB); Tucumán: Burreyacú, en cerrillos áridos, 15 October 1923, *Venturi 40547* (BAB); Trancas, alrededores de Tapía, December 1902, *Baer 125* (BAB); Benjamin Pa, 7 November 1947, *Dawson 1825* (BAB).

**Taxonomic note:**—Cavanilles (1801: 41) described *C. aphylla* as a shrub, with alternate, erect, dichotomous, terete and glabrous branchlets and without leaves (*Caulis fruticosus tripedalis: rami alterni, erecti, dichotomi, teretes, glabri, folia nulla*). Later works (Burkart 1952, 1967, Bravo 1978a, 1978b, 1982, 1984, Irwin & Barneby 1982, Bravo *et al.* 1986), without analysis of the original material, considered under this name specimens with flexible, pliant, pendulous to trailing branches and unarmed apices. After studying the type of *C. aphylla* we conclude that this plant morphology represented a new variety of *S. aphylla*: *S. aphylla* var. *pendula* which herein is proposed.

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