

Synopsis of *Cnidoscolus* series  
*Cnidoscolus* (*Euphorbiaceæ*), with  
description of a new species

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# Synopsis of *Cnidoscolus* series *Cnidoscolus* (*Euphorbiaceae*), with description of a new species

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**Key words.** *Cnidoscolus* (*Euphorbiaceae*), New series, New species, (Brazil, Peru).

**Abstract.** The type series of the genus *Cnidoscolus* (*Euphorbiaceae*) is created autonomously when the new series *Loasiformes* (Pax) Fdez. Casas & Pizarro is here proposed. The autonomous series has three well known species, from Peru and Brazil, and a fourth one from Peru that is presented as new: *C. Liesneri* Fdez. Casas & Pizarro.

**Resumen.** La serie típica del género *Cnidoscolus* (*Euphorbiaceae*) se crea por autonomía al desglosar aquí la nueva serie *Loasiformes* (Pax) Fdez. Casas & Pizarro de la subsección *Cnidoscolus*. La serie autónoma comprende tres especies bien conocidas, de Perú y Brasil, más una cuarta que se describe nueva de Perú: *C. Liesneri* Fdez. Casas & Pizarro.

This paper deals with the type series of the genus *Cnidoscolus* Pohl (*Euphorbiaceae*). It is intended to clarify the nomenclature of the series, to distinguish its four species in a key, and to describe a new species from Peru.

The sample of the new species was communicated to us by our charming friend Ronald L. Liesner, to whom we are pleased to dedicate it.

## THE DIVISION NAMES OF THE GENUS *CNIDOSCOLUS* Pohl

The nomenclature of subdivisions in the genus *Cnidoscolus* has caused some confusion. The problems begin with the series of names based on the same nomenclatural type of the genus: subgenus, section, subsection, and series. All must be also named *Cnidoscolus* in accordance with the nomenclatural rules, cf. W. GREUTER & AL., *International Code of Botanical Nomenclature (Saint Louis Code) 2000*: sect. 3, art. 20 (2000).

We accept the generic typification first proposed by J. K. SMALL, in N. L. BRITTON & A. BROWN (1913: 462), who designated the species *Cnidoscolus hamosus* Pohl as the nomenclatural type of the genus; such typification was accepted, cf. R. MCVAUGH (1944: 462), G. J. BRECKON (1975: 105). The type species of the genus is also the nomenclatural type for the typical subgenus, section, subsection and series. At each level, that name is in homotypic synonymy with any other which has the same species as type; due to its autonomous condition it has priority over any other given name. However, this fact does not always coincide with the author's intentions. For example, the section *Hamosae* Pax is a mere synonym of the autonomous section *Cnidoscolus*, although this is contradictory to Pax's wish, when he proposed his section as separate from

the type one.

The new series *Cnidoscolus* is generated autonomously when we propose in this paper the new series *Loasiformes* (Pax) Nobis. We do not know of any other previous series proposed in the genus which could have generated the autonym before. We have segregated the series from the subsection *Cnidoscolus* as it is defined by R. McVAUGH (1944: 463, 1b), our fundamental guide in this genus.

Following it's the nomenclature of series *Cnidoscolus* and *Loasiformes* with the infra-generic levels separated and numbered:

- I **Cnidoscolus** Pohl, Pl. bras. icon. descr. 1: 56, v (1827), nom. conserv.
- ≡ *Jatropha* L. sect. *Cnidoscolus* (Pohl) Mueller argov. subsect. *Eucnidoscolus* Mueller argov., Linnaea 34: 210, subsect. 1 (1865)
  - ≡ *Jatropha* L. sect. *Cnidoscolus* subsect. *Eucnidoscolus* Mueller argov., Linnaea 34: 210 (1865); Pax in A. Engler & K. Prantl, Nat. Pflanzenfam. 3(5): 75, n° iii.1 (1896)
  - ≡ *Cnidoscolus* Pohl sect. *Cnidoscolus* subsect. *Eucnidoscolus* (Mueller argov.) McVaugh, Bull. Torrey Bot. Club 71(5): 463, n° 1b (1944)
- SPECIES TYPICA: *Cnidoscolus hamosus* Pohl (1827), cf. SMALL in N. L. BRITTON & A. BROWN (1913: 462)
- = *Mesandrinia* Rafin., Neogenyt.: 3 (1825), ut syn. pro *Bivonea* Rafin.
  - [≡] *Bivonea* Rafin., Specchio sci. 1(5): 156 (1-V-1814); Fl. ludov.: 138 (1817), nom. rejic., non *Bivonea* A. P. De Candolle (1821), nom. conserv.
- SPECIES TYPICA: *Bivonea stimulosus* (Michx.) Rafin. (1814; 1817), ≡ *Jatropha stimulosus* Michx. (1803), ≡ *Cnidoscolus stimulosus* (Michx.) Engelm. et A. Gray (1856), ≡ *Jatropha urens* L. var. *stimulosus* (Michx.) Mueller argov. in DC. (1866), ≡ *Cnidoscolus urens* (L.) Arthur var. *stimulosus* (Michx.) Govaerts (2000), ≡ *Cnidoscolus Michauxii* Pohl (1827), nom. illeg.
- = *Jussieuia* Houstoun, Reliq.: 6, tab. 15 (1781)
  - ≡ *Jatropha* L. subg. *Cnidoscolus* (Pohl) Mueller argov. sect. *Jussieuia* (Houst.) Pax in A. Engler, Pflanzenreich IV, 147: 94, n iii.3 (1910)
  - ≡ *Jatropha* L. subg. *Cnidoscolus* (Pohl) Mueller argov. sect. *Jussieuia* (Houst.) Pax in A. Engler, Pflanzenreich IV, 147: 94, n iii.3 (1910)
  - ≡ *Cnidoscolus* Pohl sect. *Jussieuia* (Houst.) Pax & K. Hoffm. in A. Engler & K. Prantl, Nat. Pflanzenfam., ed. 2, 19c: 164 (1931)
- SPECIES TYPICA: *Jatropha herbacea* L., Sp. pl. 2: 1007, n° 7 (1753); (L.) Crantz, Inst. rei herb. 1: 167 (1766); Houstoun, Reliq.: 6, tab. 15 (1781); ≡ *Jatropha urens* L. var. *herbacea* (L.) Mueller argov. in DC., Prodr. 15(2): 1101, n° 60g (1866); non Desr. in Lam., Encycl. 4: 16, n° 14 (1797)
- = *Victorinia* Léon, Mem. Soc. Cubana Hist. Nat. "Felipe Poey" 15(2): 242 (1941)
  - ≡ *Cnidoscolus* Pohl sect. *Cnidoscolus* subsect. *Victorinia* (Léon) McVaugh, Bull. Torrey Bot. Club 71(5): 463, n° 1a (1945)
  - [≡] *Jatropha* L. sect. *Acrandrae* Urban, Symb. antill. 7: 516 (1913), nomen
  - ≡ *Cnidoscolus* Pohl sect. *Acrandrae* (Urban) Pax & K. Hoffm. in A. Engler & K. Prantl, Nat. Pflanzenfam., ed. 2, 19c: 167 (1931)
- SPECIES TYPICA: *Jatropha acrandra* Urban, Symb. antill. 7: 515 (1913), ≡ *Victorinia acrandra* (Urban) Léon, Mem. Soc. Cubana Hist. Nat. "Felipe Poey" 15(2): 243 (1941), ≡ *Cnidoscolus acrandrus* (Urban) Pax et K. Hoffm. ex Fdez. Casas (sub prelo)

- I.A **Cnidoscolus** Pohl, Pl. bras. icon. descr. 1: 56, v (1827), subg. **Cnidoscolus**
- ≡ *Jatropha* L. subg. *Cnidoscolus* (Pohl) Pax in A. Engler & K. Prantl, Nat. Pflanzenfam. 3(5): 75, n° iii (1896)
- SPECIES TYPICA: *Cnidoscolus hamosus* Pohl (1827)

- I.AA **Cnidoscolus** Pohl, Pl. bras. icon. descr. 1: 56, v (1827), subg. **Cnidoscolus**, sect. **Cnidoscolus**
- ≡ *Cnidoscolus* Pohl sect. *Cnidoscolus* (Mueller argov. em. McVaugh) McVaugh, Bull. Torrey Bot. Club 71(5): 462, n° 1 (1944)
  - ≡ *Jatropha* L. sect. *Cnidoscolus* (Pohl) Mueller argov., Linnaea 34: 210, sect. 3 (1865)
  - ≡ *Jatropha* L. subgen. *Cnidoscolus* (Pohl) Mueller argov. sect. *Hamosae* Pax in Engl. & Prantl in A.

- Engler, Pflanzenreich IV, 147: 94, n iii.2 (1910)  
 ≡ *Cnidoscolus* Pohl sect. *Hamosae* (Pax) Pax et Hoffm. in A. Engler & K. Prantl, Nat. Pflanzenfam., ed. 2, 19c: 164 (1931)  
 SPECIES TYPICA: *Cnidoscolus hamosus* Pohl (1827)

I.AA.1 **Cnidoscolus** Pohl, Pl. bras. icon. descr. 1: 56, v (1827), subg. **Cnidoscolus**, sect. **Cnidoscolus**, subsect. **Cnidoscolus**

- ≡ *Jatropha* L. sect. *Cnidoscolus* (Pohl) Mueller argov. subsect. *Eucnidoscolus* Mueller argov., Linnaea 34: 210, subsect. 1 (1865)  
 ≡ *Jatropha* L. sect. *Cnidoscolus* subsect. *Eucnidoscolus* Mueller argov., Linnaea 34: 210 (1865); Pax in A. Engler & K. Prantl, Nat. Pflanzenfam. 3(5): 75, n° iii.1 (1896)  
 ≡ *Cnidoscolus* Pohl sect. *Cnidoscolus* subsect. *Eucnidoscolus* (Mueller argov.) McVaugh, Bull. Torrey Bot. Club 71(5): 463, n° 1b (1944)  
 SPECIES TYPICA: *Cnidoscolus hamosus* Pohl (1827)

CLAVIS SERIALIS SUBSECT. *CNIDOSCOLUS*

- 1a Folia indivisa. Cym  sessiles vel subsessiles. Calyx estimulosus. Stamina fertilia 6-3 verticillata ..... a. *Cnidoscolus*  
 1b Folia lobata. Cym  pedunculat , corymbiformes. Calyx stimulosus. Stamina fertilia 4-3 verticillata ..... b. *Loasiformes*

I.AA.1a **Cnidoscolus** Pohl, Pl. bras. icon. descr. 1: 56, v (1827), subg. **Cnidoscolus**, sect. **Cnidoscolus**, subsect. **Cnidoscolus**, series **Cnidoscolus**, [autonymus]

SPECIES TYPICA: *Cnidoscolus hamosus* Pohl (1827)

Frutices stimulosi. Folia indivisa, breviter petiolata, glabrescentia vel pubescentia, pinnatinervia. Cym  depauperat , sessiles vel subsessiles; flores mediocres vel majores; calyx estimulosus; stamina fertilia 3-6-verticillata; staminodia filiformia vel nulla.

I.AA.1b **Cnidoscolus** Pohl, Pl. bras. icon. descr. 1: 56, v (1827), subg. **Cnidoscolus**, sect. **Cnidoscolus**, subsect. **Cnidoscolus**, series **Loasiformes** (Pax) Fdez. Casas & Pizarro, **stat. nov.**, Fontqueria 55(8): 41, n° I.AA.1b (14-xii-2001)

- ≡ *Jatropha* L. subgen. *Cnidoscolus* (Pohl) Mueller argov. sect. *Vitifoliae* Pax subsect. *Loasiformis* Pax in A. Engler, Pflanzenreich IV, 147: 92, n iii.1.d (1910), [basionymum]  
 SPECIES TYPICA: *Jatropha loasoides* Pax (1910), ≡ *Cnidoscolus loasoides* (Pax) I. M. Johnston (1923)

Frutices stimulosi. Folia lobata, pinnatinervia. Cym  pedunculat , corymbiformes; calyx stimulosus; stamina fertilia 15-20, 3-4 verticillata; staminodia filiformia vel nulla.

KEY TO THE SPECIES OF THE SERIES *CNIDOSCOLUS*

- 1a Leaves white tomentose beneath. Peru ..... 2. *C. hypoleucus*  
 1b Leaves not white tomentose beneath. Peru and Brazil ..... 2  
 2a Fertile stamens ±26, arranged in six whorls. Peru ..... 3. *C. Liesneri*  
 2b Fertile stamens fewer than 20, arranged in four whorls. Brazil ..... 3  
 3a Fertile stamens ±15. Leaves entire. Flowers small, under 1,5 cm. Brazil (Bahia) ..... 4. *C. pubescens*  
 3b Fertile stamens 18-20, arranged in four whorls. Leaves minutely crenate. Flowers big, over 2 cm. Brazil (Minas Gerais) ..... 1. *C. hamosus*

1. **Cnidoscolus hamosus** Pohl, Pl. bras. icon. descr. 1: 57/58, n° 1, tab. 49

(1827)

≡ *Jatropha hamosa* (Pohl) Mueller argov. in DC., Prodr. 15(2): 1097, n° 53 (1866)

INDICATIO LOCOTYPICA: «inter Praja grande et Inhumas fluminis Rio Jequitinhonha in Districtu Minas novas Capitaniae Miras Geraës. Legi florentem mense Augusto et Septembri 1820»

TYPUS: «Brasilia», Pohl 1664, ex herb. Mus. Vindob., 1837 (K[2])

BIBLIOGR.: J. MUELLER ARGOV. in A. P. DE CANDOLLE (1866: 1097, n° 53); F. PAX (1910: 95/96, n° 130)

DISTR. GEOGR. Brasil (Minas Gerais, Piauí).

## SPECIMENS EXAMINED

## BRASIL, (?):

— — «Brasilia», Pohl 1664, herb. Mus. Vindob., 1837 (K[2]); typus *C. hamosus*).

## BRASIL, (15) MINAS GERAIS:

24KTG05 «munic. Itinga: 4 km W of Itinga on BR-367 to Almenara, 16°38'S, 041°48'W, 300 m. Granite outcrop with outcrop and associated caatinga-like vegetation. Tree 4-5 m; leaves dull green above, pale green beneath; inflorescence and calyx pale green; corolla white», W. W. Thomas 5973 &amp; al., 15-II-1988 (NY).

## BRASIL, (20) PIAUÍ:

— — «Brasilia tropica, Piauy», G. Gardner 2301, 1839 (K).

2. **Cnidoscolus hypoleucus** (Pax) [Pax in A. Engler & K. Prantl, Nat. Pflanzenfam. ed. 2, 19c: 164 (1931)] Fdez. Casas, Novon (sub prelo)≡ *Jatropha hypoleuca* Pax in A. Engler, Pflanzenreich IV, 147: 96, n 131 (1910), [basionymum]

INDICATIO LOCOTYPICA: «Subäquatoriale andine Provinz: Peru, Dep. Amazonas, Thal des Marañón bei Tüpen, 800 m; steinige Abhänge mit sehr dürtiger, durchaus offener Vegetation (Weberbauer n. 4797!)»

TYPUS: «prov. Lüya, Thal des Marañón, bei Tüpen, 800 m», A. Weberbauer 4797, X-1873 (G [ex B, Field phot. n° 5392])

BIBLIOGR.: F. PAX (1910: 96, n° 131); J. F. MACBRIDE (1951: 165)

DISTR. GEOGR. Perú (Amazonas).

## SPECIMENS EXAMINED

## PERU, (01) AMAZONAS:

— — «prov. Lüya, Thal des Marañón, bei Tüpen, 800 m», A. Weberbauer 4797, X-1873 (G [ex B, Field phot. n° 5392]), typus *Jatropha hypoleuca*; J. F. MACBRIDE (1951: 165).3. **Cnidoscolus Liesneri** Fdez. Casas & Pizarro, spec. nov., hoc loco, Fontqueria 55(8): 42/43, n° 3 (14-xii-2001)

TYPUS: «Perú, Cajamarca, prov. Celendín, road Balsas - Celendín, 1-5 km from Balsas, río Marañón valley, 06°50'S, 078°04'W, 910-1160 m. Desert slopes. Succulent shrub with urticating hairs; copious white latex; flowers white», D. N. Smith 6152, 23-II-1984 (MA 654602; MO 516459, holotype).

Frutex; rami crassi, lignosi, non aculeati, grosse stimulosi, iuniores præcipue brevissime puberuli.

Petiolus 12-30 mm, stimulosus, brevissime puberulus. Limbus late ovatus, 65-128 × 55-96 mm, basi cuneatus, apice acutus usque mucronulatus, rotundus vel breviter emarginatus, margine et deorsum secus nervum medium stimulosus; sursum glaberrimus margine excepto; subtus glaberrimus, pubescentia brevi ad basim et secus nervum medium atque duos laterobasales excepta; margo oculo nudo subinteger sed sub lente perspicue et diminute denticulati, pilis raris stimulosi ornatus, pilis brevissimis ad 0,1 mm ciliatus, perspicue denticulatus, præcipue ad apicem; denticuli distantes, ex nervillo in margine orti, 0,5 mm, triangulari acuti, coriacei; nervi principales clari, supra leviter impressi, subtus prominentes, maxime ad basim; nervi duo basales quam reliqui magis conspicui longioresque sunt, ad basim orti iuxta margines profluentes dimidiam foliarum longitudinem superant, reliqui nervi laterales distantes sunt in foliarum parte

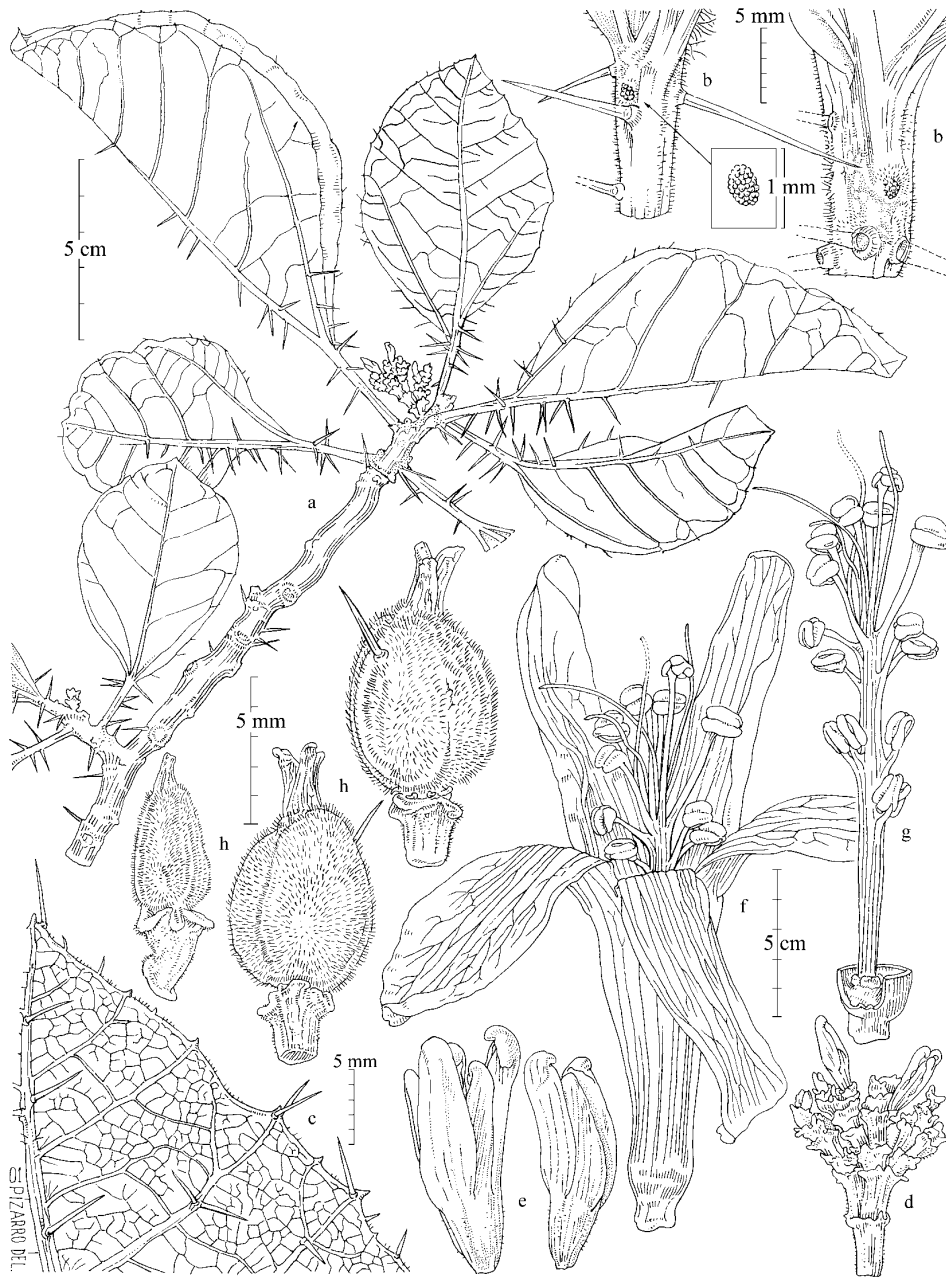


FIGURE 1  
*Cnidoscolus Liesneri* Fdez. Casas & Pizarro. *D. N. Smith 6152* (MO 516459; holotype). a) Fertile branch. b) Petiole apex with glands. c) Abaxial leaf apex. d) Inflorescence. e) Staminate floral buds. f) Male flower. g) Androecium (many anthers fallen) and disc glands. h) Fruits.

basali et media, sed in apicali approximati sunt; foliis aliquo modo *Strychni* similia.

Inflorescentiæ paucifloræ, breviter pedunculatæ, folias longitudinem non superantes; bracteæ late triangulares. Flores masculi albi, ad 20 mm. Calyx usque ad medium quinquefidus, sepalis adultis patentibus. Stamina ad 26, sex verticillata, ut videtur sine staminodiis, 2-3 inferiores verticilli in tubo calycino inclusi sunt. Ovarium brevibus pilis stellatis tectum. Capsula 8 mm, pilis stellatis vestita.

Species amicissimo Ronald L. Liesner (MO), in floram tropicalem peritissimo, grato animo dicamus.

Shrub; branches thick, woody, without spines, coarsely stinging, the young ones mainly minutely pubescent.

Petiole 12-30 mm, with stinging bristles, minutely pubescent. Limb broadly ovate, 65-128 × 55-96 mm, cuneate at base, the tip pointed or mucronate, rounded or shortly emarginate, stinging at margin and beneath along the main nerve; on the upper side entirely glabrous except on the margin; beneath entirely glabrous except for the short pubescence near the base and along the main three nerves; the margin with sparse stinging hairs, it first seems entire but with a lens it appears decidedly and minutely denticulate, ciliate with very short hairs ca. 0.1 mm, mainly near apex; the teeth well spaced arising where a nervule reaches the margin, 0.5 mm, acute triangular, leathery; the main three nerves clear, on the upper side sunken, beneath prominent, very prominent near the base; the two first lateral nerves much longer than the remaining lateral ones, arising from the base and reaching beyond the middle of the leaf blade and running near the margin; the other lateral nerves distant but near each other at apex; the leaves somewhat resembling those of the genus *Strychnos*.

Inflorescence few-flowered, short pedunculate, shorter than the leaves; bracts broadly triangular. Staminate flowers white, near 20 mm. Calyx divided to the middle, the segments outspread at maturity. Stamens about 26, 6-whorled, to all appearances without staminodes, the lower 2-3 whorls included in the calyx tube, the upper whorls exerted. Ovary covered with stellate hairs. Capsule 8 mm, also covered with stellate hairs.

#### 4. *Cnidoscolus pubescens* Pohl, Pl. bras. icon. descr. 1: 62, n° 6 (1827)

≡ *Jatropha obtusifolia* (Pohl) Mueller argov. var. *pubescens* (Pohl) Mueller argov. in DC., Prodr. 15(2): 1097, n° 52 (1866)

INDICATIO LOCOTYPICA: inter Caxoiram et et Villa de Jacobina, et versus Malhada Capitaniae Bahiensis. Legit a Septembri usque ad Aprilem. «Habitat cum præcedente. *Eq de Martius*»

TYPUS: «Catincas, super saxum graniticum, passim inter Caxoeiram et Villa de Jacobina, et versus Malhada. In siccis sylvarum», *K. F. Ph. Martius s/n*, IX-IV (G, [ex B, phot. Field n° 6630])

BIBLIOGR.: J. MUELLER ARGOV. in A. P. DE CANDOLLE (1866: 1097, n° 52, 52); F. PAX (1910: 95, n° 129, tab. 35)

≡ *Cnidoscolus obtusifolius* Pohl ex Baill., Adansonia 4: 275, n° xi.6 (1864)

≡ *Jatropha obtusifolia* (Pohl) Mueller argov. in DC., Prodr. 15(2): 1097, n° 52 (1866)

≡ *Jatropha obtusifolia* (Pohl) Mueller argov. in DC. var. *genuina* Mueller argov. in DC., Prodr. 15(2): 1097, n° 52 (1866)

INDICATIO LOCOTYPICA: «inter Caxoiram et et Villa de Jacobina, et versus Malhada Capitaniae Bahiensis. Legit a Septembri usque ad Aprilem Celeb. D. *Eques de Martius*»

TYPUS: «Catincas, super saxum graniticum, passim inter Caxoeiram et Villa de Jacobina, et versus Malhada. In siccis sylvarum», *K. F. Ph. Martius s/n*, IX-IV (G, [ex B, phot. Field n° 6630])

BIBLIOGR.: J. MUELLER ARGOV. in A. P. DE CANDOLLE (1866: 1097, n° 52, 52); F. PAX (1910: 94/95, n° 129; 95, n° 129)

– *Janipha arborea* Martius in sched.

– non est *Cnidoscolus pubescens* (Taubert ex Pax) Pax in A. Engler & K. Prantl, Nat. Pflanzenfam. ed. 2, 19c: 166 (1931), nomen illeg., non Pohl (1827), quod est *Cnidoscolus Froëssii* (Croizat) Fdez. Casas, Fontqueria 55(3): 14 (21-vi-2001)

DISTR. GEOGR. Brasil (Bahia, Mato Grosso do Sul).



## SPECIMENS EXAMINED

## BRASIL, (15) BAHIA:

- — Boa Vista do Tupim (ppl): 12°66'02"S, 040°60'01"W, «munic. Boa Vista do Tupim: ca. 3 km após a balsa para travessia do rio Paraguaçu, para João Amaro, na estrada para Boa Vista do Tupim. Caatinga arbustiva densa; solo arenoso. Árvore ca. 4 m, copada; látex branco-leitoso», *N. S. Nascimento & L. P. de Queiroz* 3871, 27-IV-1994 (HUEFS 16785, non vidi; NY). Stems aculeate.
- — Gavião (ppl): 11°47'05"S, 039°78'38"W, «Gavião, centro-norte da Bahia. "Faveleira branca"», *G. Bondar s/n*, 08-I-1947 (NY[ex DPU 66018]).
- — Tucano (ppl): 10°96'30"S, 038°78'66"W, «munic. Tucano. "Faveleira de porco, cansação faveleira"», *G. Bondar s/n*, 26-XII-1946 (F 1518565; MICH).
- — Tucano (ppl): 10°96'30"S, 038°78'66"W, «munic. Tucano, distr. Caldas do Jorro: estrada que liga a sede do distrito e a estrada Araci - Tucano. Arvoreta 5 m com pêlos urticantes; flores com corola alva; frutos imaturos verdes», *A. M. V. de Carvalho & D. J. N. Hinz* 3884, 02-III-1992 (MO 4571690; NY).
- — Brumado: 14°20'36"S, 041°66'52"W, «munic. Brumado: a 23 km na rodov. de Brumado para Livramento de Brumado. Caatinga. Arvorecinha 5 m, corola alva; frutos imaturos verdes», *H. S. Brito, A. M. V. de Carvalho 2668 & E. B. dos Santos*, 28-XII-1989 (DAV 112959; G 371250).
- — «Catincas, super saxum graniticum, passim inter Caxoeiram et Villa de Jacobina, et versus Malhada. In siccis sylvarum», *K. F. Ph. Martius s/n*, IX-IV (G, [ex B, phot. Field n° 6630]; typus *C. pubescens*).
- 23KKS94** Milagres (ppl): 21°18'S, 047°00'W, «munic. Iaçú: rodov. Itaberaba - Milagres, entre Iaçú e Milagres, a 10-20 km a E de Iaçú, 400-500 m. Caatinga. Árvore 4 m, 12 cm ø, látex branco; flôr branca», *F. P. Benton & S. A. Mori* 13241, 25-XII-1979 (DAV 96672; K).
- 23KQS69** Serra do Pai Inácio (rdge): 20°48'S, 042°30'W, «Palmeiras, km 232 da rodov. BR-242 para Ibotirama, Pai Inácio. Mata de galeria, campo natural. Arbusto 5 m altura», *A. M. V. de Carvalho 966, J. L. Hage & G. P. Lewis*, 18-XII-1981 (K).
- 24LUH83** Jacobina (ppl): 15°55'S, 040°06'W, «munic. Jacobina: margem esquerda do rio Jacuípa. Arbusto com folhas e caule bastante espinoso; flores alvas. Planta forrageira. Frequentíssima. "Faveleira"», *B. C. Bastos* 432, 28-III-1985 (MO 3628098).
- 24LUK76** «Jequié, 1,5 km W of rodov. at Jequié», 13°51'S, 040°07'W, 220-225 m. Disturbed caatinga on brownish soil with granitic outcroppings. Common shrub, 1-2,5 m; latex copious, white; flowers white», *W. S. Armbruster & G. L. Webster* 25152, 05-VIII-1984 (CEPEC, non vidi; DAV 105932; K; NY).
- 24LUK76 «munic. Jequié: ca. 3 km W Jequié, folha SD-24 (14-40a). Afloramentos de rocha granítica. Arbusto com tronco até 3 m; látex branco; flores brancas», *S. A. Mori* 11204, *T. S. dos Santos & C. B. Thompson*, 19-XI-1978 (MO 5205324).
- 24LUK76 «munic. Jequié: km 7 da estrada Jequié - Ipiáú. Caatinga. Arbusto 3 m; látex branco; flores alvas», *A. M. de Carvalho* 1594 & *T. Plowman*, 10-II-1983 (F 1932932).
- 24LUL79** «Iaçú: fazenda Suíbra, 18 km E da cidade, seguindo a ferrovia, 12°43'S, 040°07'W. Caatinga. Arbusto ou arvoreta 5-6 m, latescente e um pouco urticante; pétalas brancas; frutos verdes, com pêlos urticantes. "Cancanção de favela"», *Lemos & L. R. Noblick* 3555, 12-III-1985 (DAV 117372; HUEFS 4329, non vidi).
- 24LVP32** «20 km E of Camelão, on the Itiuba - Cancanção road, 10°40'S, 039°33'W», *R. M. Harley* 16460, 21-II-1974 (K). Var. *pubescens*.

## BRASIL, (11) MATO GROSSO DO SUL:

- — «munic. Bataguacú: estrada entre Bataguacú e Brasilândia, fazenda Santa Encarnação. Erva», *I. Cordeiro* 1074 & *al.*, 22-XI-1992 (F 2193330).

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