

New descriptions and combinations

Nové popisy a kombinace

Josef J. Halda, 517 82 Sedloňov, Česká republika

Ladislav Horáček, Písková Lhota 16, 294 31 Krnsko, Česká republika

***Trillium x crockeranum* J. J. Halda hybr. nov.**

[*T. ovatum* Pursh x *T. rivale* Watson].

Descriptio: Planta inter parentes intermedia, habitu *T. ovati* similis, sed minoribus, floribus roseo-punctatis.

Holotypus: PR no. JJH99041233, leg. J. J. Halda 12.4.1999.

Patria et Distributio: USA, California septentrionalis: Del Norte Cty. (Franch Hill) - ex Hortus Klineanus.

***Trillium x klineanum* J. J. Halda hybr. nov.**

[*T. rivale* Watson x *T. ovatum* Pursh].

Descriptio: Planta inter parentes intermedia, habitu *T. rivali* similis, sed majoribus, floribus purpuraceo-punctatis.

Holotypus: PR no. JJH99041237, leg. J. J. Halda 12.4.1999.

Patria et Distributio: USA, California septentrionalis: Del Norte Cty. (Franch Hill) - ex Hortus Klineanus.

***Paeonia lutea* Delavay ex Franchet subsp. *ludlowii* (Stern & Taylor) J. J. Halda stat. nov.**

[**bas:** *Paeonia lutea* Delavay ex Franchet var. *ludlowii* Stern & Taylor, J. Roy. Hort. Soc. 76:217 (1951); *P. ludlowii* (Stern & Taylor) Hong in Novon 7(2):157 (1997)].

***Gentiana ricki* J. J. Halda spec. nov.**

Descriptio: Affinis *G. calycosae* sed plantis minoribus, glabris; foliis carinatis, flores minoribus, calycis brevicampanulatis, lobis foliaceis, horizontalis, irregularis differt.

Perennial herb; stems from caudex more or less decumbent, 1-many, 50-100mm tall; leaves only cauline-ones, many, bright green, flat, more or less fleshy, 5-50x2-20mm, widely lanceolate to narrowly ovate, usually with 3 main veins, acute, glabrous; flowers usually single, terminal;

calyx shortly campanulate, including lobes 15-18mm long, tube 8-9mm, lobes on one calyx usually different, 7-12x4-9mm, cordate-rhombic, leaf-like, succulent, bright green, obtusely acute; corolla ca 50mm long and ca 15mm across, upper part cobalt-blue with greenish spots inside, (spotless outside), much paler in the middle, lower part whitish, tube ca 37mm long, lobes 12-14mm long; sinuses cobalt-blue, bicornute, ca 10-12x3-4mm, split to 1/2-2/3; anthers at ca 2/3 corolla tube, 2-3mm long; stigma not branched; capsule ca 40mm long, seeds brownish-yellow.

Typus: America septentrionalis (USA: provincia Washington, Mt. Rainier, in declivibus petrosis orientalis et septentrionalis, cca 2200m. Leg. J. J. Halda & R. Lupp 28.6.1995 (JJH&RL 95060012). PR.

This species is dedicated to Rick Lupp, my friend and a great plantsman, owner of Mt. Tahoma Nursery.

***Coryphantha panarottoi* J. J. Halda & L. Horacek spec. nov.**

Descriptio: Species in editione prima operis nostri depicta, *C. radians* et *C. palmeri* proxima, sed eglandulosa, caespitosa, spinae laterales ca 20.

Stems with napiform roots, caespitose (up to 0.3-0.4m with up to 60 "heads"), each stem ca 100mm tall and 80mm broad; tubercles conical with ovoidal basis, 10mm wide at the basis and 8mm thick; areoles oval, felty, about 2-3mm across; spines: radial ones about 20, of which ca 17 are 12-14mm long, irregularly turned sideways and downwards, the other 3 slightly longer, turned upwards; spines are yellow-coloured, dark (nearly black) tipped. [Seldom, on some plants, there is on some areoles a central spine, which is short (ca 5mm long) and hooked, brown-colored]. Deep-bright yellow flowers are 60-70mm across and rise from the apex in summer. The fruit is green, about 15mm wide and 30mm long and appears the following spring. Seeds blackish, ca 1mm long.

Holotypus: PR no. JJH85080433, leg. J. J. Halda 4.8. 1985.

Patria et Distributio: Mexico septentrionalis: Nuevo Leon (in vicinitate pages Aramberi, Zaragoza et Marmolejos), in summo collis, solo schistoso ad 1600m supra mare.

Associated plants: *Agave lechuguilla*, *Hechtia* sp., *Larrea tridentata*, *Ariocarpus confusus*, *Thelocactus conothelos* var. *argenteus*, *Th. bueckii* etc.

This taxon, which does not produce the nectar-glands, grows also on chalky slopes however remaining smaller and mostly single (not caespitose).

***Lobivia bonnieae* Halda, Hogan & Janeba spec. nov.**

Descriptio: Species in editione prima operis nostri depicta, *L. famatimensis* proxima, sed caudata et napiformis; corollae tubus carnosus, crateriformis, cartilagineus.

Root thick, large, napiform, up to 300mm long and 55mm across. Stem mostly single, caudate-cylindric, decumbent or procumbent, up to 250mm long and 30mm across (the attenuate part at the base 15-100mm long), lower part irregularly rugose. Tubercles tiny (1-2mm

across), flattened, olive-green. Epidermis minutely verrucose. Areoles rounded, vertically elongate, small (ca 1mm across). Central spines 0, radial 10 and more, flattened, pectinate, up to 1,5mm long, older ones greyish, younger ones pinkish or rusty brown. Flowers yellow or brownish from upper part of the stem, 30-50mm across, with numerous tepals. Receptacle obconical, with large disc-like carnose ring, covered with fine greyish hairs. Outer tepals fleshy, reddish or brownish green, grading into delicate, acute or mucronate inner tepals to ca 20mm long and varying from pale yellow to apricot- or brownish yellow. Stamens numerous, 9-25mm long; anthers yellow, 1-2mm long. Stigma positioned at approximately same level as anthers is 4-lobate, lobes bifurcate. Fruit more or less globose, greyish-hairy, 8-15mm across. Seeds blackish brown, irregularly globose, 0.6-1mm long.

Holotypus: PR no. ZJ99061503, leg. Z. Janeba 15.6.1999.

Patria et Distributio: Argentina: Catamarca (Dept. Tinogasta: Rio Guachin prope Loro Huasi), in declivibus petrosis, 2000m supra mare.

Associated plants: *Atriplex* sp., *Echinopsis leucantha*, *Grahamia bracteata*, *Larrea divaricata*, *Lycium* sp., *Maihueniopsis boliviana*, *Pterocactus gonjianii*, *P. kuntzei*, *P. meglolii*, *P. reticulatus*, *Puna bonnieae*, *Tephrocactus alexanderi*, *T. geometricus* etc.

This showy plant is named in honor of our charming friend Bonnie Brunkow - one of discoverers.



Fig. 25: *Gentiana rickli* J. J. Halda spec. nov. (orig. J. Haldová)

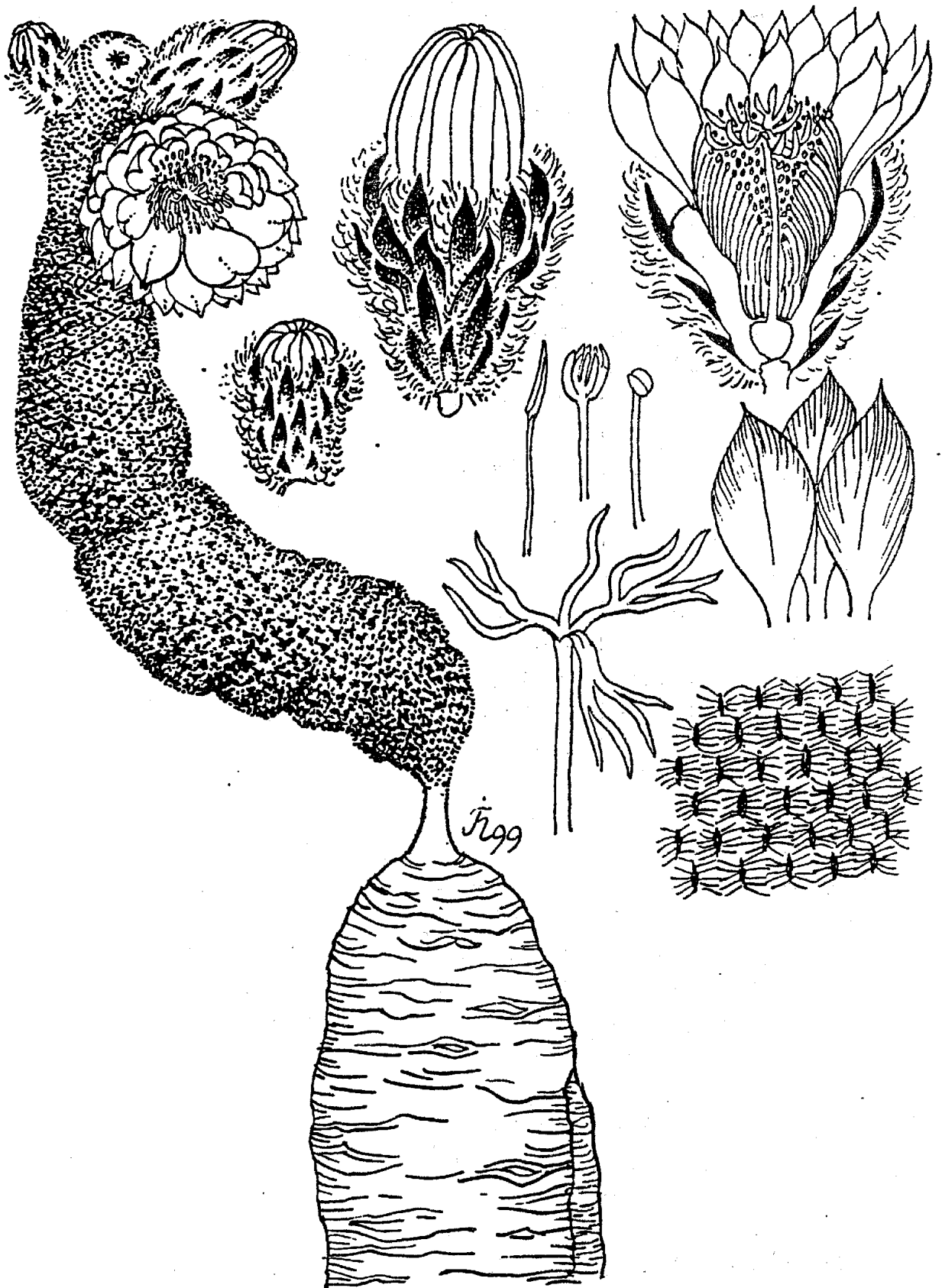


Fig. 26: *Lobivia bonnieae* Halda, Hogan and Janeba (orig. J. Haldová).