BvH 34290

NEW TAXA OF SOUTH AMERICAN COMPOSITAE

In-Cho Chung, Illinois Teachers College: Chicago - South

Bidens triplinervis H.B.K. var. macrantha (Wedd.) Sherff
form. exaristata Chung, form. nov.

Achaenia exaristata.

Ecuador: Prov. Pichincha, El Pisque, cerca de Guayllabama,
1800 m. Acosta S. 16278 (typus F).

Chrysanthellum weberbaueri Chung, sp. nov.

This resembles C. mexicanum Greenm. in habit and in the
foliage but differs from it and from C. americanum (L.) Vatke
in broadly cartilaginous-margined disk achenes and in the
subcompressed more or less tuberculate ray achenes.

Herba annua glabra, caule gracili recto ramoso striato 15-20
cm. alto. Folia alterna petiolata tripinnatisecta, laciniis
linearibus acutis. Inflorescentia corymbosa. Capitula peduncu-
lata turbinata anthesi 5 mm. lata 3.5 mm. alta; squamae
involucris extimae 2 lineari-lanceolatae uninerviae, interiores
ca. 8 membranaceae multinerviae margine scariosae ovatae
obtusaeque ca. 3 mm. longae 1-1.5 mm. latae; paleae receptaculi
lineari-lanceolatae acutiusculae ca. 2 mm. longae membranaceae
3-nerviae margine scariosae. Flosculi radiales feminei ca. 13,
corolla 1.5 mm. longa, tubo 0.5 mm. longo glanduloso, ligula
ovata 1 mm. longa 2-nervia integerrima vel retusa; flosculi
discales hermaphroditi ca. 23, corolla tubuliformi ca. 1.5 mm.
longa 4(5)-loba; staminibus 4(5) inclusis, antheris ca. 0.5
mm. longis vix sagittatis; rami stylorum lineares ca. 0.8 mm.
longi basi glaber exceptus dense pubescentes. Achaenia
radiales subcompressa 3-3.5 mm. longa apice ca. 2 mm. lata
basi 1-1.5 mm. lata margine cartilaginea tuberculataque;
achaenia discales plana cuneato-obovata ca. 3.5 mm. longa 2-2.5
mm. lata alis inclusis, ala cartilaginea 0.7-0.9 mm. lata
margine integerrima ciliataque apice brevissime protrusa.

Peru, Weberbauer 6465 (typus F 629085).

Dasyphyllum barbatum Chung, sp. nov.

This may be easily distinguished from all other species of
Dasyphyllum by its villous filaments inserted at the apex of
the corolla tube and by the glabrous inner surface of the corol-
la.

Frutex 1.5-2 m. altus, ramulis fuscis striatis dense pubes-
centibus, foliis solitariis vel fasciculatis obovatis vel ellip-
ticis vel rotundis 2.5-5 cm. longis 1.5-2.5 cm. latis apice
mucronatis basi attenuatis vel rotundatis brevipetiolatis
integerrimis penninerviis subtus inter nervos laterales

reticulato-venosis utrinque pubescentibus, aculeis axillaribus geminis rectis 1-2.5 cm. longis basi ca. 1 mm. crassis pubescentibus. Capitula sessilia plerumque solitaria. Involucra turbinata 2.7-3.2 cm. longa, squamis 7-11-seriatis, exterioribus coriaceis ovatis vel ovato-lanceolatis mucronatis dense ciliatis utrinque cinereo-tomentosis, interioribus chartaceis rectis lineari-lanceolatis utrinque cinereo-tomentosis; receptaculo plano ca. 7 mm. diam. dense villosa; axis solidus. Flosculi 28-45 hermaphroditi, corolla atropurpurea 17-23 mm. longa bilabiata intus glabra, tubo 5-7 mm. longo glabro, ligula exteriori apice 4-loba, lobis 2-3 mm. longis extus dense villosis, ligula interiori 10-16 mm. longa basi ca. 0.7 mm. lata apice extus dense villosa; stamina 5, filamentis liberis ca. 5 cm. longis densissime villosis summo tubo insertis; antheris ca. 5 mm. longis, caude 1 mm. longa, appendice 1.5-2 mm. longa emarginata vel integerrima; pappi setis 23-26 uniserialis plumosis 15-17 mm. longis basi connatis; achaeniis 6-8 mm. longis dense cinereo-villosis cylindraceis.

Peru: Lima, cultivated at the Botanical Garden, Seibert 2096 (typus US 1901491), Martinet s.n. (P); Prov. Lambayeque: west side Abra Porculla Pass km. 35 east of Olmos, Mesones-Muro Highway between Olmos and Rio Marañon, alt. 1650 m., Hutchison 1379 (F); inter Bagua et Olmos, Maekawa 602307 (F, TH).

The pollen grains are, unlike the typical form of Dasyphyllum, ellipsoidal and of the Mutisia type.

Ericentrodea corazonensis (Hieron.) Blake & Sherff var. cuatrecasasii (Sherff) Chung, comb. nov.

Bidens rubifolia H.B.K. var. Cuatrecasasii Sherff, Botanical Leaflets no. 3: 8. 1951.

This differs from E. corazonensis (Hieron.) Blake & Sherff in the longer internodes, longer petioles, 5-12-serrate leaf margins, and longer limbs of the disk corollas.

Herba perennis vel suffrutex scandens, caule et ramis oppositis tetragonis vel subteretibus striatis glabris, internodiis 6-15 cm. longis, foliis oppositis, petiolatis 2-5.5 cm. longis, foliolis utrinque 5-12 serratis subcoriaceis penninerviis inter nervos laterales reticulato-venosis. Inflorescentia apice ramorum cymoso-paniculata 8-12 capitulis, pedunculis usque ad 9 cm. longis puberulis bracteis involucri squamis exterioribus similibus praeditis; involucri campanulati, squamis biseriatis, exterioribus 5 oblongo-lanceolatis acutis 4-5 mm. longis 1.2-2 mm. latis herbaceis 3-nerviis margine diaphanis glandulose-denticulatisque dorso puberulis demum subcoriaceis, interioribus ovato-lanceolatis obtusis 7-8 mm. longis ca. 3 mm. latis scariosis multi-nerviis; paleae receptaculi convexi oblongo-lanceolatae acutae ca. 8 mm. longae 1.5-2 mm. latae scariosae.

Flosculi radiales feminei 6-7 fertiles, ligula oblonga-ovata 17-19 mm. longa 4-5 mm. lata apice 2(-3)-denticulata, tubo ca. 1.5 mm. longo; flosculi discales ca. 33 hermaphroditi, corolla tubulosa glabra 6-7 mm. longa, tubo 1.5-2 mm. longo, limbo 4.5-5 mm. longo laciniis triangularis 0.5-1 mm. longis; antheris exsertis ca. 3 mm. longis appendiculis inclusis; achaenia plana cuneato-obovata ca. 5 mm. longa 2.5-3 mm. lata alis inclusis margine ciliate apice consticta, aristis basi crassis glabrisque ex annulo coronuliformi nascentibus 2-4-fidis, ramis ca. 2 mm. longis retrorsum barbellatis pratensis facile deciduis.

Columbia: Dept. Valle: Hoya del rio Bugalagrande: Barragan, Quebrada de la Chorrera, 3000-3080 m., J. Cuatrecasas 20982 (typus F); Dept. Cauca: entre Purace y el volcan, matorrales en Chiquin, 3100-2700 m., J. Cuatrecasas et E.P.A. 5944 (F).

Ecuador: Prov. Bolivar: Simiatug, Hacienda Talahua, 3200 m., C. W. Penland et R. H. Summers 555(F).

Liabum acostae Chung, sp. nov.

Herba annua (?); caule gracili, atropurpureo, striato, pilis fuscis articulatis dense obsitis; foliis oppositis, laminis membranaceis, hastato-triangularibus, acuminatis grosse dentatis, 2-3.5 cm. longis, basi 1-3 cm. latis, in petiolum alatum usque ad 1.5 cm. longum, basi auriculatum angustatis, utrinque pilis fuscis articulatis dense obsitis; inflorescentiis corymbosis, oligocephalis, longe pedunculatis, pedunculis usque 9 cm. longis dense pilosis; involucri hemispherici 6 mm. altis, squamis ca. 22, triseriatis, subequilongis, exterioribus ovato-lanceolatis, acuminatis, 5-nerviis, dense pilosis; interioribus angustioribus oblongo-lanceolatis, acuminatis, 3-nerviis, prope apicem pilosis; floribus radii femineis ca. 20, corollis ca. 17 mm. longis luteis, ligula 15.5 mm. longa, 2 mm. lata, elongato-oblonga apice subintegra, tubo 1.5 mm. longo, sparce piloso; floribus hermaphroditis disci ca. 25, corollis ca. 6 mm. longis, tubo 2.5 mm. longo, dense piloso, limbo cylindrico, apice profunde quinquefido, laciniis 2 mm. longis, prope apicem sparse piloso; antheris atropurpureis, ca. 2 mm. longis; achaeniis subturbinatis, 10-striato-angulatis, angulis parce hirtis, 2 mm. longis, fuscis; pappo lutescente, e squamulis 6 ca. 0.7 mm. longis ellipticis apice lacerato-denticulatis et setis todidem 3-3.5 mm. longis scabridiusculis omnibus basi connatis formato; receptaculo plano, ca. 2 mm. diam. favoso-squamuloso.

Ecuador: Entre Oya Cachi y Comenia, Cord. Oriental, Prov. Pichincha, M. Acosta Solis 11175 (F. typus).

Monactis penlandii Chung, sp. nov.

Frutex; ramis atropurpureis subangulato-sulcatis, pubescentibus; foliis alternis, petiolatis; petiolis 1-2 cm. longis, dense pubescentibus; laminis 5-15 cm. longis 2.5-7 cm. latis, e basi cuneatis subrhombico-ovatis, acuminatis, margine remote glanduloso-denticulatis, coriaceis, triplinerviis, supra viridibus hirto-scabridis rugosis, subtus subcano-viridibus dense pubescentibus et cum glandulis resinosis sessilibus ornatis; foliis inflorescentiis proximis decrescentibus, bracteiformibus, subsessilibus, ovato-lanceolatis vel lanceolatis; inflorescentiis apice ramulorum dense corymbosis; capitulis numerosis, saepe pluribus dense congregatis, subsessilibus; involucri subcylindranei ca. 6 mm. alti; phyllariis 8-9, biseriatis, herbaceis, 3-5 nerviis, exterioribus minoribus lanceolatis, interioribus oblongis, obtusis, dorso glabris vel pubescentibus, margine ciliatis; receptaculo plani, parvi; paleis paucis, oblongis, 7-8 mm. longis obtusis, dorso glandulopubescentibus, flores involventibus, 5-7 nerviis; floribus omnibus hermaphroditis tubulosis 7-8; corollis luteis, ca. 4 mm. longis, tubo limbum aequante, glandulopubescentibus vel glabris; limbo campanulato, profunde usque ad medium quinquefido, cum glandulis resinosis sessilibus ornatis; laciniis lanceolatis, acutis, revolutis; achaeniis atropurpureis, ca. 5 mm. longis, subfusiformibus, breviter rostratis et stipitatis, 3-4-angulatis, glabris; pappi squama 1, membranacea, atropurpurea, lanceolata, acuminata, corollae, tubum aequante.

Ecuador: Prov. Azuay: Banos near Cuenca, 2600 m., C. W. Penland 1068 (typus F); Prov. Canar: near Ruins of Ingapirca, 3100 m., C. W. Penland 1030 (F).

Piqueria (Phalacraea) setifera Chung, sp. nov.

Herbacea annua pilosa erecta 9-19 cm. alta; caule gracili simplici atropurpureo striato, internodiis 3-4 cm. longis; foliis oppositis graciliter petiolatis, petiolis 1-3 mm. longis, laminis ca. 10 mm. longis 7 mm. latis, ovato-lanceolatis apice obtusis basi cuneatis margine undulatis; capitulis laxo corymboso-paniculatis, graciliter pedicellatis, 10-12-floris; phyllariis biseriatis ca. 8 spatulatis vel obovato-oblongis vel obovato-lanceolatis 2.5-2.8 mm. longis margine ciliatis; corollis albis 1.5-1.7 mm. longis sparse glandulosis, tubo proprio ca. 0.5 mm. longo, faucibus campanulatis; achaeniis 5-angulatis ca. 1.2 mm. longis glabris basi subrectis, setis brevibus coronatis; setis 15-18, ca. 0.5 mm. longis, basi connatis, barbellatis; receptaculi plani.

Peru: Dept. Cuzco: Prov. Urubamba: Machupicchu, 2040 m., C. Vargas C. 3369 (typus F)

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