

**L. DUMICOLA**, comb. nov. (*Crepis dumicola* Hiern). ANGOLA: in herb-grown pasturage near Forte P. Amelia, 2063. Florets pale violet.—Angola.

**L. ANDONGENSIS** Hiern. ANGOLA: in grass-lands along R. Ludira at Cuando, Caconda, after bush-fires, 1728. A perennial herb, stem thick and fistular, branched towards top; lower leaves much larger than those Hiern describes, reaching  $23 \times 7$  cm.; florets white.—Angola.

**SONCHUS BIPONTINI** Aschers. ANGOLA: in grass-lands after bush-fires at Camasaio near Malange, 1196; in wet grassy meadows between Forte P. Amelia and R. Cubango, 2187.

Var. **PINNATIFIDA** Oliv. & Hiern. ANGOLA: here and there in grassy thickets, N'Dallatondo, Cazengo, alt. 750 m., 4375.—(Species) Tropical Africa except West.

**S. WELWITSCHII** Chiov. (*S. Fischeri* O. Hoffm.). ANGOLA: in sandy exposed situations near the fazenda Palmyra, Cazengo, 479; in open forests after bush-fires, N'Bango near Malange, 1192; in open thickets at Micango, Cuiriri, 4090; skirting road between Cammondai and R. Carunda, Cazengo, 5080.—Angola, Congo, Rhodesia, Uganda.

**S. OLERACEUS** L. ANGOLA: Vulangombe—N'Golo road, Malange, 1187.—Cosmopolitan weed.

**S. ASPER** L. ANGOLA: Quizanga, Malange, 1157.—Cosmopolitan weed.

**S. ELLIOTIANUS** Hiern. ANGOLA: Malange after bush-fires, 1163, 1168; on stony ground in open grassy thickets between Forte P. Amelia and R. Cubango, 1979.—Angola, Congo, Rhodesia, Transvaal.

**Sonchus cubangensis** S. Moore, sp. nov. *Herba* perennis, glabra, circa sesquispithamea viva ex cl. delectori glauca in sicco vero brunescens; *caule* e rhizomate circa 6 mm. diam. orto erecto simplici sat bene folioso; *foliis* (paucis radicalibus confertis) pro genere parvis lanceolatis vel lanceolato-ovatis spinuloso-acuminatis basi amplexicaulibus margine dentatis dentibus induratis junioribus fere integris in bracteas gradatim transeuntibus; *capitulis* circa 16-flosculosis anguste campanulatis in corymbum subluxum oligocephalum bracteatum foliis longiorem digestis; *pedunculis propriis* capitula subæquantibus excedentibusve; *involucris* phyllis paucis 4-serialibus interioribus sensim longioribus exterioribus ovatis interioribus ovato-oblongis oblongisve omnibus obtusis et microscopice serrulatis nisi integris; *corollis* exsertis dilute flavis; *achæniis* adhuc valde crudis compressis ovato-oblongis truncatis obscure striatis quam pappi setæ a corollis facile superatæ annulatim connatæ multo brevioribus.

*Hab.* ANGOLA: near Forte P. Amelia, Cubango, 2956.

An erect herb some 30 cm. high. Stem stoutish, prominently ribbed, 4 mm. across below, narrowing to about 3 mm. Radical leaves few, apparently about 2.5 cm. long, but all seen broken off above. Cauline leaves lowest 4.5 cm. long, decreasing to 3–2 cm., 10–7 mm. wide at base, but rapidly narrowing upwards, drying brown like the stem. Inflorescence 12 × 6 cm., its bracts in shape like the uppermost leaves, gradually diminishing from 15 to 5 mm. in length. Expanded heads 18 × 12 mm. Outermost involucreal leaves 3.5–5 mm. long; intermediate up to 12 mm., innermost to 14 mm. long. Corollas 13 mm., achenes 1.5 mm., pappus 8.5 mm. long.

A very distinct species, recognized by the short amplexicaul foliage and the broad involucreal leaves.

### CAMPANULACEÆ.

*CEPHALOSTIGMA PERROTTETII* A. DC. ANGOLA: in the woods and masacallas of Cassuango, Cuiriri (a masacalla is an abandoned *Pennisetum* plantation overgrown with trees), fl. April, 2991.—Western Tropical Africa.

*LIGHTFOOTIA COLLOMIOIDES* A. DC. ANGOLA: in herb-grown thickets and woods at T'Chirandangombe on the left bank of R. Luas-singua, Ganguellas, fl. April, 2702; at Dongo near Cuelai, Massaca, 3460.—Southern Tropical Africa, Uganda.

*L. ANNUA* A. DC. ANGOLA: in grassy thickets behind my residence at Malange, a late specimen, May, 1435; Yumba, Calulo, Libolo country, 6358.—Angola.

*L. MARGINATA* A. DC. ANGOLA: in sandy poor ground once cultivated by natives, near Fte. P. Amelia, Cubango, 2389; Cului, 2921.—Southern Tropical and South Africa.

*WAHLENBERGIA CALEDONICA* Sond. ANGOLA: among *Glumaceæ* in moist situations below the Harta of Fte. P. Amelia, Cubango, fl. Dec., 2342.—Rhodesia, Angola, South Africa.

*Cyphia cacondensis* R. Good, sp. nov. *Herba* glabra; *stirpe* terete voluta; *foliis* petiolatis ellipticis lanceolatis obtusis basi breviter cuneatis, marginibus calloso-crenatis, utrinque glabris, infra venis conspicuis; *floribus* pedicellatis solitariis in axillis foliorum superiorum, pedicellis supra medium minute bibracteatis; *ovario* semi-supero; *calyce* tubo turbinato striato, lobis lanceolatis basi utrinque dente uno præditis; *corolla* pallide violaceo-cærulea, lobis angustis ligulatis versus apicem crassiusculis intus basi hirsutis; *staminibus* quam lobis corollæ dimidio brevioribus, antheris dorso hirsutissimis; *stigmatibus* obliquo.

*Hab.* ANGOLA: in open herb-grown woods between Caconda and Bissava on route, fl. March, 4302.

Rootstock apparently tuberous. Stem climbing in grasses. *Leaves* up to 6 by 4 cm.; *petioles* about 5 mm.; *pedicels* 5 mm.; *calyx-*