

C. succulenta Ait., *l.c.* *Hieracium fruticosum* Willd. Sp. Pl. iii. 1591 (1800). *T. filiformis* DC. Prodr. vii. p. 87 (1838). *T. succulenta* Lowe, Fl. Mad. i. p. 525 (1868).

Var. *multifida* (Lowe, *l.c.*, p. 527).

ISLAND OF MADEIRA.—A somewhat shrubby herb, 6 to 18 in. high, with pretty yellow flowers. In stony places between Funchal and Camara dos Lobos, plentiful; fl. and fr. August 1853. No. 3624.

78. **CREPIS** L.; Benth. & Hook. f. Gen Pl. ii. p. 513.

1. **C. bumbensis** Hiern, sp. n.

A perennial herb, about a foot high or a little more; root sub-napiform, $\frac{2}{3}$ in. thick; leaves all radical or nearly so, forming a rosette, oblanceolate, not lobed, denticulate-repand, usually rounded and minutely mucronulate at the apex, wedge-shaped towards the sessile or scarcely petiolate somewhat dilated or clasping base, thinly herbaceous, green and minutely or obsoletely glandular-scaly on both faces, scattered beneath with some broad-based simple short inconspicuous hairs, 2 to $2\frac{1}{2}$ in. long by $\frac{2}{5}$ to $\frac{3}{8}$ in. broad; stems several, scapiform, loosely and dichotomously divided about thrice from near the base upwards, bracteate, rather slender, shining, nearly glabrous, erect or ascending; the ultimate branches pedunculiform, 1 to $5\frac{1}{4}$ in. long and puberulous about the apex; bracts small, from a clasping or sessile base, narrow or subulate, the upper ones smaller; capitula many-flowered, campanulate in flower, rather oblong in fruit, $\frac{1}{4}$ to $\frac{1}{3}$ in. broad; singly terminating the branches of the scapelike stem, erect, calyculate; the scales of the calyculus about 7, unequal, subglabrous, almost continuous with the upper bracts and similar to them, half as long as the involucre scales or shorter; involucre scales uniseriate, 12, narrowly lanceolate-linear, obtuse, hispid and marked with black glandular dots along the back, $\frac{1}{3}$ in. long in flower, $\frac{3}{8}$ in. long and thickened about the base in fruit, somewhat concave by the inflexion of the subscarious lateral margins; flowers yellow; achenes slender, slightly contracted towards the base, beaked at the apex, $\frac{1}{4}$ in. long including the beak, glabrous, 10-ribbed; the ribs minutely serrulate; pappus whitish, $\frac{1}{8}$ in. long, half exserted; receptacle at length naked punctulate and exposed by the reflection of the involucre.

BUMBO.—In the wooded meadows of Catumba, rather rare; fl. and fr. Dec. 1859. No. 3667.

This is nearly related to *C. carbonaria* Schultz Bip., but the inflorescence differs.

2. **C. ephemera** Hiern, sp. n.

A glabrous erect herb, $2\frac{1}{2}$ to 3 ft. high or more; root about $\frac{1}{4}$ in. thick, firmly fleshy, elongated, apparently perennial; stems solitary or two together, rigid, rather slender, sulcate, simple below, straight or somewhat sinuous, branched above at the inflorescence; leaves mostly radical and rosulate, obovate, obtuse at the apex wedge-shaped at the sessile or subsessile almost clasping base, toothed or remotely denticulate, thinly herbaceous,

$1\frac{1}{2}$ to $2\frac{1}{2}$ in. long by $\frac{1}{4}$ to 1 in. broad; stem-leaves alternate, narrow, few, suberect; capitula campanulate in flower, hemispherical in fruit, calyculate, $\frac{1}{3}$ to $\frac{3}{8}$ in. long, about 56-flowered, on rather slender pedicels ranging up to $2\frac{1}{2}$ in. long, arranged in a wide rather lax dichotomous terminal flat-topped terminal cyme; bracts small, lanceolate or subulate; scales of the calyculus small, about 10, resembling the uppermost bracteoles; involucre scales about 20, subequal, narrowly linear-lanceolate, acute, uniseriate with sometimes an extra interior one, inserted together round the base of the receptacle, $\frac{1}{4}$ to $\frac{1}{3}$ in. long, rather thickened at the base, with scarious margins, reflected in fruit; flowers yellow; receptacle somewhat foveolate with the edges of the depressions toothed, without conspicuous scales, somewhat convex in fruit; corollas about $\frac{1}{4}$ in. long, slender, glandular-hairy about the lower part; achenes narrowly oblong, somewhat angular, glabrous, ribbed, reddish-brown, minutely muriculate, a little narrowed at the base, slightly contracted towards the truncate apex, $\frac{1}{12}$ in. long; pappus pauciseriate, slightly straw-coloured, $\frac{1}{8}$ in. long, setose; the setæ minutely scabrid.

HULLA.—In bushy pastures from Ferrão da Sola in the direction of Nene; fl. and fr. Jan. 1860. No. 3665. In the pastures of Lopollo amongst low bushes, ephemeral; fl. and fr. Feb. 1860. No. 3666.

3. *C. cichorioides* Hiern, sp. n.

An erect, hispidulous, robust herb, 2 to 4 ft. high, with the habit of a *Cichorium*; root rather thick, apparently biennial or perennial; stem solitary, simple up to the inflorescence, straight, sulcate-striate, pallid and leafy at the base and on the lower part, dichotomously branched and leafless at the upper part; leaves alternate, mostly lyrate-pinnatifid, oblong or obovate-oblong, rounded and apiculate at the apex, narrowed towards the clasping often petiole-like base, thinly herbaceous, grey-green at least beneath, scattered with short hispidulous hairs on the midrib and veins, minutely aculeate-denticulate on the margin, 3 to 6 in. long by $\frac{3}{4}$ to $2\frac{1}{2}$ in. broad, the lobes obtuse, the upper leaves not lobed; capitula cylindrical, 9 or 10-flowered, homogamous, homocarpous, $\frac{3}{4}$ in. long, on unequal pedicels ranging up to $\frac{3}{4}$ in. long, arranged in a rather open corymbose terminal cyme about 6 in. in diameter; involucre bracts imbricate, pauciseriate, lanceolate or oblong, rather thin, obtuse, the outer ones hispidulous along the middle of the back, the inner ones about 12, thinner and longer, about $\frac{1}{3}$ to $\frac{2}{5}$ in. long; flowers all ligulate, the ligules whitish or slightly purplish, 5-toothed at the tip; receptacle foveolate; achenes $\frac{1}{4}$ in. long, ellipsoidal or ovoid-oblong, reddish brown, deeply sulcate, ribbed, angular, almost alate, microscopically muriculate, narrowed at the apex into a slender beak about half as long as itself; pappus pilose, $\frac{1}{4}$ to $\frac{1}{3}$ in. long, very soft, copious; the setæ pauciseriate, very slender, whitish, only microscopically barbellate.

HULLA.—In meadows between Lopollo and the lake of Iwantála, sparingly; fl. and fr. 4 Jan. 1860. No. 3653.