

or zigzag with the angles at the nodes, terete, striate and like peduncles and involucre glabrous, branched above the middle, the branches 3–15 cm. long including heads, slender, arcuate, dichotomously branched and rebranched, the aggregate inflorescence a compound paniculate corymb; peduncles 0.5–2.5 cm. long, very slender, not thickened near head; heads small, erect, *ca.* 10-flowered; involucre cylindric, 7.5–8.5 mm. high; outer involucre bracts 6 or 7, very short, obtuse; inner involucre bracts 7 or 8, lanceolate, acute or obtuse, becoming spongy-thickened dorsally near base at full maturity, ventrally pubescent with short shining appressed hairs; receptacle areolate, naked; corolla *ca.* 10 mm. long; ligule 7.5 mm. long  $\times$  1.4 mm. wide, teeth 0.7 mm. long, copiously and finely glanduliferous; corolla-tube 2.5 mm. long, beset with short 2-celled hyaline trichomes; anther-tube 3.5  $\times$  1.0 mm. (length/width = 3.5), appendages 0.7 mm. long, obliquely acute, united; style-branches yellow, 1.7 mm. long, slender; achenes brownish yellow, 2.5–3 mm. long, columnar, gradually attenuate from base to summit (not fully mature) with slightly expanded pappus-disk, slightly constricted above the calloused hollow base, *ca.* 12-ribbed, ribs unequal, four or five much broader, faintly rugulose; pappus yellowish white, *ca.* 5 mm. long, of one series of coarse stiff rather brittle barbellulate bristles, persistent.

China in western Szechwan and Tibetan frontier, chiefly near Tatsienlu, 2700–5000 m., *Pratt 63 = 114 (K)*. Known only from the type region.

*Relationship*.—Most nearly related to *C. wilsoni* but very distinct in the smaller achenes, the tall paniculate habit, involucre bracts pubescent within, venation of leaves, etc.

#### 10. *Crepis yunnanensis* sp. nov.

Perennial, 20–30 cm. high, with vertical rootstock 5–6 mm. in diameter, brown with bases of old leaves, attenuate into a slender woody taproot with strong fibrous roots; radical leaves lacking; lower cauline leaves up to 9.5 cm. long  $\times$  2 cm. wide, oblanceolate, acuminate, attenuate into a short winged petiole, runcinate-pinnatifid and dentate, principal segments triangular, remote, obtusely mucronate, margin retrorsely revolute, equally pubescent on both sides with crinkled hyaline several-celled trichomes containing brown deposits; middle and upper cauline leaves linear, sessile, becoming bract-like; stem forked at or near base into two nearly equal parts which are slender, terete, striate, fuscous-tomentulose near base and at nodes, branched above or with a few short branches lower down, branches short, arcuate, 1–3-headed, the aggregate inflorescence a compound paniculate corymb; peduncles 0.5–3 cm. long, sparsely tomentulose, becoming thickened and sulcate near mature heads; heads medium, erect, *ca.* 9-flowered; involucre cylindric, 12–13 mm. high; outer involucre bracts 5–9, very short, ovate, obtuse or acute; inner involucre bracts 8, lanceolate, acute, innermost broadly membranous-margined, outermost with a black dorsal median nerve and near tip a narrow wing or claw of same color as bract 1–1½ mm. long and obtuse or acuminate,

becoming dorsally spongy-thickened at full maturity, ventrally pubescent with short shining appressed hairs; receptacle areolate, naked, with circular white scars and waxy interspaces; corolla 14.5 mm. long; ligule 10.5 mm. long  $\times$  2.4 mm. wide, teeth unequal, 0.4–0.8 mm. long, conspicuously glanduliferous-hooded; corolla-tube 4 mm. long  $\times$  0.5 mm. wide at base, beset with short hyaline barbs or glabrous in same head; anther-tube 5  $\times$  1.25 mm. (length/width = 4), appendages 1 mm. long, obtuse, united; style-branches yellow, 2.2 mm. long  $\times$  0.15 mm. wide; achenes reddish brown with darker base and yellowish summit, 3 mm. long  $\times$  0.6 mm. wide at middle, fusiform or ventrally straight and dorsally convex, laterally subcompressed, strongly attenuate to the narrow (0.2–0.3 mm. wide) summit with slightly expanded pappus-disk, attenuate to the narrow (0.3 mm. wide) base above the flaring lip of callus surrounding the yellow hollow base, 15–17-ribbed, ribs nearly equal, narrow, very finely barbellulate; pappus white, 6–7 mm. long, of one series of rather coarse soft barbellulate bristles, united at base and coming away in sections, persistent. Flowering in August; flowers yellow.

China, Yunnan, in alpine meadows between the Yangtze and Chungtien rivers, *Schneider 2181* (K). Known only from the type region.

*Relationship*.—Close to *C. paleacea* Diels, *C. mairei* Levl., and *C. fusca*, but very distinct from these in the strongly attenuate, many-ribbed, laterally compressed achenes and in other characters.