

Pyrrhopappus grandiflorus. *Borkhausia grandiflora*, Nutt. in Journ. Acad. Nat. Sci. Philad., Vol. VII., p. 69. *Pyrrhopappus scaposus*, Decand. Prod., Vol. VII., p. 144. The achenium, seen in a young state, exhibits a short rostrum.

HAB. In the plains of Arkansa, (Dr. Pitcher;) also in Mexico, (Berlandier.)

Pyrrhopappus Carolinianus. β . **maximus*; smooth, leaves for the most part laciniately pinnatifid, acuminate; capitulum very many-flowered.

HAB. In Arkansa. Two to three feet high; the root apparently perennial; the lower leaves a foot long, with divaricate, linear segments. Stipe of the achenium about twice its length. The pappus decidedly simple, not in the least scabrous, seen through an ordinary microscope. Sepals with a lateral, obtuse tooth at the summit, as in the original species. Branches of the stigma short, rather obtuse, and pubescent.

TARAXACUM. (Haller.)

Taraxacum **montanum*; very smooth; leaves spatulate-oblong, nearly entire or runcinately toothed; scape smooth, much longer than the leaves; caliculus biserial, short and appressed, the scales ovate, or lanceolate, with broad membranaceous margins; sepals not corniculate, about twelve; achenium spinosely muriculate at the summit, scarcely half the length of the rostrum.

HAB. On the banks of the Platte, in subsaline situations towards the Rocky Mountains, and in the highest valleys of the Colorado of the West. Allied very nearly to *T. obovatum* and *T. collinum*. Perennial. Leaves three or four inches long, half to three-quarters of an inch wide, erect; never pinnatifid, mostly obtuse, the teeth shallow and simple. Base of the stem, in a young state, somewhat pubescent, in the axills only. Scape six to ten inches high, perfectly smooth. Flowers rather small.

MACRORHYNCHUS. (Lessing.)

OBS. The genus ought probably to be confined to the species with an alated, winged achenium.

Subgenus **KYMAPLEURA*.† *Achenia compressed, deeply alated, ten-ribbed, the wings undulated; the exterior series hirsutely pubescent, the interior smooth, with narrow ribs.*

Macrorhynchus **heterophyllus*; ☉, more or less hirsute; primary leaves spatulate, the rest pinnatifid, with remote linear segments, the central lobe elon-

† From *κυμα*, a wave, and *πλευρα*, a rib, the achenium having undulated ribs.

gated; stem very short, pedicels naked, scapoid, one-flowered; outer sepals rather shorter than the inner, somewhat smooth.

HAB. The plains of Oregon. An annual, from four or five inches to a foot high. Stem scapoid, hid among the leaves; outer series of sepals slightly pubescent, the inner smooth, both linear-lanceolate. Corolla pale yellow, externally purplish, very fugacious. Outer pubescent achenia larger, purple, the inner straw-yellow, with smooth and shallower ribs. The whole plant nearly resembles *M. pterocarpus*, for which it might readily be mistaken.

*CRYPTOPLEURA.

Capitulum many-flowered. Involucrum subcampanulate, imbricate in a few series, the external shorter, pubescent and caliculiform. Receptacle naked. Liguli elongated. Achenium smooth, linear-oblong, compressed, obtuse, terminated by a very long filiform rostrum, the inner series bearing ten narrow, alated ribs; the outer series inflated, truncated at the apex, marked with obsolete lines; basilar areola minute. Pappus very slender, white and scabrous.—Annuals, with the whole habit of the preceding genus. Stem scapoid, scarcely any; florets yellow, conspicuous, as in *Troximon*.—(The name from *κρυπτος*, *hidden*, and *πλευρα*, *a rib*, the ribs of the radial achenia being obsolete or hidden.)

Cryptopleura Californica.

HAB. Near St. Barbara, in Upper California. A dwarf annual, about three to four inches high; hirsute and nearly scapoid. Leaves linear-lanceolate, incisely serrate. Involucrum in about three series, the outer resembling a caliculum, with the divisions ovate and acute, hirsute; the two inner series nearly equal in length, lanceolate, almost smooth. Rays five-toothed, exerted. Pappus softly pilose, white, very slender and scarcely hirsute; the stipe twice as long as the achenium; all the achenia abrupt at the summit, straw white; those of the exterior series truncated at the summit and inflated, so that the seed is seen free in the testa: these are without striatures, and almost without lines. The inner achenia are compressed, and have ten narrow sharply winged ribs.

*STYLOPAPPUS.

Capitulum many-flowered. Involucrum hemispherical or subcampanulate, of several series of nearly equal leaflets, calyculate; caliculum foliaceous, spreading, of several series, mostly resembling the true leaves. Liguli elongated. Branches of the stigma short, nearly smooth, and slenderly filiform. Re-