

flowers, the smaller fruit with broader, flattened prickles. In *L. occidentalis* the prickles are only slightly broadened below, not flattened, and strongly grooved on the inside.

ARIZONA: Tucson, Apr. 20, 1894, *Toumey* (type, in herb. N. Y. Bot. Gard.); vicinity of Flagstaff, June 16, 1898, *MacDougal 122*; Clifton, Apr., 1881, *Rusby 281*.

UTAH: St. George, 1877, *Palmer 359*.

***Eremocarya muricata* sp. nov.**

Annual; stem slender, branched throughout with ascending branches, strigose; leaves linear, 2-5 mm. long, hispidulous, the hairs with pustulate bases; racemes short and dense, usually less than 1 cm. long; bracts oblong, 1-2 mm. long; sepals linear, obtuse, 1.5 mm. long, hispidulous on the margins and midvein; corolla white, 1 mm. long; limb scarcely 0.5 mm. wide; nutlets lanceolate in outline, long-acuminate, dull, finely muricate.

This species is somewhat intermediate between *Eremocarya micrantha* and *E. lepida*. It resembles the former most in habit, but differs in the more ascending branches, the shorter leaves, and especially in the narrower, muriculate and dull, instead of smooth and shining, nutlets. The latter resemble much those of *E. lepida*, but are narrower and more tapering upwards. *E. lepida* has much broader leaves and larger flowers.

UTAH: Southern Utah, 1874, *Parry 164* (type, in herb. Columbia Univ.).

ARIZONA: Near Camp Lowell, Apr. 13, 1881, *Pringle*; Prescott, 1883, *Rusby 745*; Tucson Mountains, Apr. 12, 1903, *Thornber*; Plains of Tucson, Apr., 1881, *Lemmon 203*; Mesa, near Tucson, May 14, 1883, *Pringle*; Apr. 25, 1906, *Shear 4235*; Tucson, Apr. 3, 1894, *Toumey*.

***Greeneocharis circumscissa* (H. & A.) Rydb. comb. nov.**

*Lithospermum*(?) *circumscissum* H. & A. Bot. Beech. 370. 1840.

*Piptocalyx circumscissus* Torr.; S. Wats. Bot. King's Exp. 240. 1871.

*Eritrichium circumscissum* A. Gray, Proc. Am. Acad. 10: 58. 1874.

*Krynitzkia circumscissa* A. Gray, Proc. Am. Acad. 20: 275. 1885.