NEW SPECIES OF CRYPTANTHE.

G. MONOSPERMA. Very creek, rather slender and strict, a foot high, lasty up to the middle, there parting into a few dender rigidly seconding branches ending in a simple or forked has spike so both stem and foliage rather softly hirsten and without other pubseomer: spikes seldom more than 2 inches long in fruit solly scarcely more than 11 lines long; sepals lines-lancoolate, not attenuate at tip, nor spreading, equally stiff-hirsten from out to specify with according british-hirst, a more short and densely appreased villosity underneath the britisher in utilst soll-interval to the spike of the spi

My type of this very neat species is Mr. Sukadorfs' n. 180, obtained on the Columbia River in 1885, and distributed for C. swrigatias. Later, Dr. Gray would have referred it to C. sweige to which it is more akin, and it is from the habits, nearly, of the original C. sweigens, and, in view of Dr. Torrey's comark that, in his plant the nutlets are often solitary, I should like to have assumed in taking this for the real. C. of that other states were also as the contract of the contract of the contract ment that it his plant the nutlet has an open grove districtedly forked at base. The figure of the nutlet represents something certainly very unlike that of what I have been in hauften.

C. OMERA. Stoutish, almost fastigately branched from near the base, I foot high, both stem and leaves cincreous with a copious stiff-hirsuite or almost hispid coat of apreading hairs, and a less copious indument of fine closely-appressed ones underneath: spikes short and subsessite, always in pairs or threesrather dense: fruiting calyx 2 lines long; sepals lanceolate, hispid with deflexed hairs and also villous: nutlets 4, small, about \$\frac{1}{2}\$ line long, rather narrowly ovate-trigonous, the grove divaricately forked and open, the surface rather strongly tuberoulsteroughened, and with the dense lesser and scabrous muriculation very minute, appearing under an ordinary lens as more white dots.

Specimens from Shasta Co., California, 25 May, 1894, collected by M. S. Baker and Frank Nutting, and distributed as C. ambiga. The nutlets of this, as to their ventral-face characters, respond to the figure of those of true C. ambigua; but their outlies, and tuberculation are very different. C. SHULLANS. Rather slender, bushily branched from the

base or near is, often 2 feet high, the stems and branches only candily striges-pulsecent, the scattered leave more so beneith, less so above: spikes lax, in pairs or solitary, often 6 inchet long: fruiting calyx 3 lines long or more, narrowly lancoolsts, attenuate at liny, appressed villous toward the base, and with some short deficaced bristles up and down the back: mutted souts, abruply blunt-pointed, sparsely low-tuberculate, and vary minutely and closely white-muriculate: groove forked at the very base and closed throughout.

Common in the foothills of the Sierra Nevada, California, distributed from Amador Co., by Geo. Hansen in 1806, under n. 1903, as to my set. In habit, characters of inflorescence said calyx the species curiously simulates C. Torreyana, while is nutlets, (with a slight difference) are those of C. ambigua, and its allies.

C. PALLAX. With much the aspect of a slender C. survice data, less than a foot high, the brunches with seattered oblorg-linear obtuse foliage and terminating in 3 divergent short as rather dense spikes; a term sparsely villous-hirstuck, he foliage saparingly somewhat strigoes, the calyxes with a dense pubescend under the rather few very hipid pareauling hairs: cally-assignment lancoolate, short, the tips not attenuate: corolla minute: and tele variet-lancoolate from a truncate base, traversed varietally by

a closed scar, this shortly forked at base, the whole surface grayish, smooth and shining, the back but slightly convex and distinctly sharp-edged.

A very remarkable species in the almost wing-margined character of the smooth nutlets; for the plant has the aspect of that group of species whose nutlets are obtuse all around, and muricate. The only specimen known was collected by myself in the mountains above Tehachapi, California, 23 June, 1889, and was mixed with my duplicates of C. mericalsta until now.

C. HORRIDULA. Stoutish, mostly less than a foot high branches from hear the base, the branches either spreading or subsered, but soon parted into mostly 3 subscreet long dense spikes; the whole plant rather shortly but densely hispid, fruiting calyzes forming two close ranks on the rachis, the segments short, scarcely twice the length of the ovate-trigonous muriculate brown nuclear.

An ally of C, mericalise, but smaller, much more stiffly and densely hispid, and with a mode of branching into long, not divergent but an berect two-ranked spikes. Habitatly, it is more divergent but an aberect two-ranked spikes. Habitatly, it is more divergent but an aberect two-ranked spikes applies as parts it. I know C, herridula in only two specimes; one from the Salinas Valley, Montercy C_0 , Calif., collected in 1865; the other obtained in 1890 on the summit of the dividual C, where C is the other obtained in 1890 on the summit of the dividual C is C.

A FASCICLE OF NEW COMPOSITÆ.

HELENIUM BADIUM. H. tenuifelium war, badium, Gray, Proc. Am. Acad, xviii. 108. I know of no other instance in which Dr. Gray allowed a composite with dark-brown or purple disk-corollas to stand as a mere variety of a species with the usual yellow disk. It is not, however, the only character marking this as distinct from ordinary Helenium tenuifelium. Indeed,