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specimens. The specific name is the common Mexican name applied to this plant.

The type specimen is no. 8149 D. G., collected near Zacatecas, Mexico, September, 1905.

Opuntia Guerrana sp. nov.

A suberect or ascending, open branching plant, 9 to 12 dm. high and about the same in diameter; joints oblong obovate to subcircular, thick, heavy, glaucous, blue-green, 15-20 cm. by 20-25 cm.; areoles black, subcircular to obovate, about 5 mm. in longest diameter; wool tawny; spicules yellow, abundant, unequal, on sides and lower portion of edge in a compact crescentic tuft, 1 to 2 mm. long but around the apex of joint there may be an abundance of them lengthened to 1 or 2 cm.; spines white or light straw color and translucent at the base but turning a mottled dirty black with age, 1 to 6, mostly 2 to 4, flattened, often twisted, erect, divergent or some of lower in areole somewhat recurved; flower yellow, filaments greenish white, stigma green, fruit subglobose, greenish white, 4 to 5 cm. in diameter, with seed variable and much aborted, but mostly large, 4-5 by 5-6 mm., deeply notched, marginal thickening prominent, 1 mm. wide.

The species is related to *O. robusta*, but is smaller throughout, with very different fruit. It is known as Nopal tapon or Nopal tapon blanco in some sections. This shows its relations to the common "tapon" of the Highland region.

The description is compiled from a partial description made in the field, supplemented by further notes from the dried specimens. It is with pleasure that I dedicate this species to my friend, Señor Enrique L. Guerra, who first called my attention to the existence of such a species and to whom I am indebted for much information about Mexican species of *Opuntia*.

The type is no. 8475 D. G., collected near Dublan Hidalgo, Mexico, September, 1906.

Opuntia discata sp. nov.

Plant ascending-erect, rather compactly branched, 9 to 15 dm. high and about the same in diameter; joints broadly obovate to subcircular, commonly about 25 by 27 cm., dark green when young, but gray waxy green when mature; leaves about 1 cm. long, subulate pointed, slightly flattened; areoles large, prominent, circular to oval, tawny to brown when young and black in age, 6 to 10 mm. in diameter, much larger on edges of

joint than on sides, often distinctly subareolate and developing new wool and spicules from season to season; spicules yellow, unequal, scattered, increasing with age, 2 to 3 mm. long but often 1 cm. or more in length; spines white or dirty gray, with often a reddish tinge below or often pinkish throughout, one on lower portion of joint to 7 above, commonly 3 to 6, the longest 2.5 cm. long, erect-divergent or often the lower recurved especially on edges of joints, angular flattened, very stout and formidable but neither annular nor twisted; flowers lemon yellow with bases of petals a darker orange; filaments greenish-white, style white, and stigma dark green, 8-parted; fruit obovate to pyriform, deep, dark red throughout, 6 to 7 cm. in length.

The species differs from *O. cycloides* in character of spines. In this species they are much shorter and more erect.

Description drawn in the field. The specific name refers to the shape of the joints.

The type is no. 7790 D. G., collected in the foothills of the Santa Rita Mountains, Arizona, April, 1905.—Plate 27, upper figure.

***Opuntia ferruginispina* sp. nov.**

Plant erect-ascending with open-branching habit, 7 to 12 dm. in height and same or greater in breadth; joints broadly obovate, about 20 by 23 cm. in last year's growth, deep blue-glaucous green; areoles about 3 to 3.5 cm. apart, obovate, 6 to 10 mm. in longest diameter, gray to black, enlarging with age; spicules bright reddish-brown, numerous, unequal, formidable, often 12 mm. long but usually much shorter; spines numerous and formidable, brown at base but becoming gradually yellowish distally, 1 to 4 on last year's joints, becoming more numerous with age, flattened, twisted, faintly annular, diverging in all directions or often the lower recurved, the longest sometimes 6.5 cm. long but commonly about 4 to 5 cm. long, both spines and spicules increasing in numbers with age and enlarging the areole; flowers orange-red, about 7.5 cm. in diameter when open; petals broadly obovate, rounded above, with edge irregularly and minutely toothed and often slightly crenulate and with midrib terminating in a minutely cuspidate point often having a tinge of purple in its lower portion; sepals (second row), triangular-winged, greenish; filaments yellow with faint tinge of purple; pistil 3 to 3.5 cm. long; style white with faint tinge of purple; stigma light green, about 8-parted; ovary obovate to pyriform-stipitate, 5 to 6 cm. long, with tawny areoles comparatively distant and bearing a small tuft of reddish brown spicules of irregular length; fruit purple throughout.

This species differs from *O. Lindheimeri*, with which it has been confused, in color of plant body, color and character of