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***Opuntia rugosa* sp. nov.**

A low, ascending, radiating, yellow-green species, 60 cm. or more high, with main branches resting on edge and radiating, and others erect from them, often having a spread of 150 cm. or more; joints obovate, broadly rounded above, about 11 by 14 cm., or again 14 by 23 cm., sharply rounded above, tubercular raised at areoles the first season, later becoming nearly smooth, but a little raised at 2 and 3 years; areoles obovate, tawny-brown the first year, 5 by 3½ mm., later becoming sub-circular, and 5 mm. in diameter, dirty gray, varying 2 to 4 cm. apart; leaves large, subulate, cuspidate, dull-light-reddish tipped, 1 cm. long; spicules conspicuous, formidable, in a compact, unequal, triangular, or crescentic area above, with a few scattering through remainder of areole, yellow; spines white, only occasionally slightly tinted at base, erect, diverging in all directions, at first 2 or 3 increasing to 4 or 6, 2 or 3 of which are central, long, large, flattened, twisted, sometimes becoming 6 cm. long, others 2 to 3 cm. long, and somewhat recurved; flowers opening at noon, canary yellow, 7 to 8 cm. in diameter when fully opened, yellowish-green with a tinge of dull red in bud, petals obovate, cuneate, broadly rounded above, the outer row obtuse, wavy, or almost crenate, slightly eroded, slightly greenish within, filaments yellow, greenish at base, style white, stigma deep dark-green, 8-parted; ovary clavate, 3 by 6 cm., tubercular, raised at the light-brown areoles, which are nearly filled with yellow spicules, and long fugeaceous spines, 1 cm. in length; fruit pyriform, reddish purple.

The type is preserved under my inventory No. 10,364, and was secured originally near Pomona, California.

***Opuntia affinis* sp. nov.**

A low, arborescent species, from 125 cm. high with us at 4 years of age to 2 m. or more in its natural habitat; joints obovate, 13 by 35 cm., broadly rounded above and gradually narrowed below, densely silky, villous to the touch, and villous nature plainly visible when viewed in proper light, slightly raised at areoles, the tubercles being surrounded by a sunken dark-green line; leaves small, subulate, pointed, scarcely 2 mm. in length; areole small, obovate, 3 mm. long, 25 to 30 mm. apart, white to gray; spicules light straw-colored, at first not conspicuous but rather in a connivent tuft, 3 mm. long; spines absent below and 1 to 5 in upper ⅕ of joint, straw-colored, becoming white the second year, the longest 3 cm. and others much shorter, increasing in age in both length and numbers, at 3 years often 10 in number and some 6 cm. long, divergent, flattened, angular, twisted; flowers dull dark-red in bud, with stigma protruding the day before the petals spread, small, about 3 cm. in diameter when opened, petals 20 to 25 mm. long, slightly, when at all, recurved, ribs of petals red and wings orange, filaments greenish below and pink above, style bright-glossy red, stigma dull-greenish-red, 4-parted, equaling the petals in length; ovary small, subglobose, deeply pitted, 15 to 17 mm. in diameter, with small subcircular to slightly