

Preliminary Notes on Some New Species of Agaricaceae and *Clavaria*¹⁾.

By Geo. F. Atkinson.

Amanita calyptroderma Atkinson and Ballen n. sp. — Plants 10—15 cm high, pileus 10—22 cm broad, stem 2—4 cm stout. Pileus maize yellow to pale chrome yellow, gills white, then pale maize to cream color, annulus and stem pale maize to cream color, volva white. Pileus stout, fleshy, convex to expanded and even depressed in age, margin striate, slightly viscid when moist, larger part of pileus covered with the tough thick calyptra of the volva which fits closely like a skin, the margin free, while in age in the larger plants the calyptra of the volva is cracked into rather large areas by the expansion of the pileus. Gills broad, adnexed, edge more or less floccose. Basidia 4-spored. Spores oval to elliptical, smooth, coarsely granular, $8-12 \approx 7-8 \mu$. Annulus very thin, membranaceous, superior, hanging from the extreme apex of the stem, soon disappearing. Stem hollow, with loose cottony threads, even in the smaller plants, tapering upward in the larger ones, or smaller at base, surface floccose. Volva white, thick, circumscissile, in dehiscence the upper part remaining on the center of pileus, lower portion or limb very prominent, 2—4 cm long, sometimes appressed on the stem, but usually distinctly divergent and in age recurved, often with a distinct inner collar near the base, in age the stem often separating from the volva, leaving the latter as a saucer shaped structure with its inner collar in the ground. — C. U. herb., No. 22620, in mountain forests, California, in late autumn and early spring, Mrs. Virginia Garland Ballen.

Sphorophoro magno, robusto, 10—15 cm alto, pileo 10—22 cm lato, stipite 2—4 cm crasso. Pileo stramineo, stipite et velo et lamellis subconcoloribus, volva alba. Pileo crasso, carneoso, hemisphaerico-expanso, calyptra volvae adhaerenti, margine libero et striato. Lamellis latis, adnexis. Sporibus albis, levibus, ellipticis, $8-12 \approx 7-8 \mu$. Annulo membranaceo, supero, evanescenti. Volva crassa, circumscissa, margine repando demum reflexo. Stipite e farcto cavo. In silvis montium, Santa Cruz Co., California.

¹⁾ Contribution from the Department of Botany, Cornell University, No. 134.