

Entire plant ochraceous. Pileus thin, campanulate, smooth, covered with a very thin and delicate filamentous whitish bloom. Gills subelliptical, narrow, adnexed, edge whitish. Basidia 2-spored, $28-30 \cong 10-12 \mu$. Paraphyses clavate. Spores broadly elliptical, smooth, $14-16 \cong 8-10 \mu$, yellowish. Cystidia none on sides of gills, edge of gills capitate, i. e., clavate and bearing a small capitulum on a slender stalk. Trama of cap 2 or 3 layers, outer a layer of capitate cells, through which here and there slender filaments project. Inner layer of large elliptical to pyriform cells, or oblong, elliptical, etc., compact over gills, open toward surface. Stem even, pruinose above, and over entire length when young and fresh. — C. U. herb., No. 19724, on dung in pots in palm house, Conservatory, Bot. Dept., Ithaca, N. Y. Apr. 1, 06, G. F. A.

Gregaria, ochracea, 5—7 cm alta; pileo 3—4 mm alto et lato; stipite 1—1,5 mm crasso. Pileo campanulato, membranaceo, levi, leviter furfuraceo. Lamellis subellipticis, angustatis, adnexis, margine albo et cystidiis capitatis ornato. Basidiis bisporigeris, $28-30 \cong 10-12 \mu$, paraphysibus clavatis. Sporis late ellipticis, levibus, flavidis, $14-16 \cong 8-10 \mu$. Stipite pruinoso. Ad terram fimetosam in calidario, Ithacae, N. Y.

Hebeloma neurophyllum Atkinson n. sp. — Plants gregarious, 7—8 cm high; pileus 5—6 cm broad; stems 5—6 mm thick. Pileus ochraceous to tawny ochraceous, slightly viscid when moist with a thin subgelatinous layer containing delicate floccose threads. Gills not crowded, pale cinnamon rufous, between vinaceous cinnamon and cinnamon rufous, rather broadly sinuate, adnexed, connected by veins, costate, 8 mm broad. Stem white, fibrous striate, even or very slightly bulbous, toward apex mealy, hollow with loose fibers. Basidia 4-spored. Spores subfusoid, slightly inequilateral, sharp pointed at usually the larger end, obtuse at the other end, $12-15 \cong 7-8 \mu$. Cystidia none on sides of gills except at the edge where there are thin walled, clavate, hyaline cells projecting far above the hymenium, crowded on the edge, and cells extend for some distance back from the edge. — C. U. herb., No. 21514, ground, woods, Coy Glen, Ithaca, N. Y. Oct. 18, 06, N. Coil.

Gregarium 7—8 cm altum, pileo 5—6 cm lato, stipite 5—6 mm crasso. Pileo ochraceo-cremeo vel fulvo-ochraceo, leviter viscido. Lamellis 8 mm latis, pallide cinnamomeo-rufis, late sinuatis, adnexis, costatis. Basidiis 4-sporis. Sporis subfusoides, $12-15 \cong 7-8 \mu$. Ad terram in silvis, Ithacae, N. Y. Stipite albo, fibroso-striato, cavo vel subfarcto.

***Hypholoma echiniceps* Atkinson n. sp.** — Plants cespitose, 12—14 cm high, pileus 3—7 cm broad, stems 8—12 mm thick. Pileus ochraceous brown with seal brown scales; gills rich purple brown with Indian purple tinge, edge whitish; stems white, covered up to the evanescent annulus with fibrous seal brown scales. Flesh of pileus white, then changing to pale saffron yellow, flesh of stem changing likewise, color in the stem deeper

near the center. Pileus convex, firm, fleshy. Scales fibrous, pointed, very dense over the center and more or less distant toward the margin and often collapsed. Gills somewhat narrowed in front, 6—8 mm broad, slightly rounded behind and adnate. Basidia 28—30 \cong 7 μ , 4-spored. Spores 7—9 \cong 3.5—5, subelliptical, inequilateral, outer end sometimes slightly narrower, smooth as seen under oil emersion. Cystidia on sides of gills cylindrical, straight or flexuous, in groups of 2 to 4, 6, or 8, projecting 30—40 μ above the hymenium, 10—12 μ in diameter, thin walled, granular. Edge of gills with numerous cylindrical, flexuous and sterile cells similar to the cystidia. Trama of gills of parallel threads. Trama of pileus two layered aside from the scales; outer layer forming a bark of pyriform to elliptical or cylindrical cells, 2 or 3 cell layers in thickness, inner portion of trama floccose, more compact toward the gills. Stem even, fleshy, fibrous, hollow. Veil ample when young, remaining in appendiculate fragments on the margin and forming an evanescent ring near the upper part of the stem; stem covered up to the ring with fibrillose, more or less appressed seal brown scales. Above the annulus stem fibrous striate and downy from numerous slender projecting cells. Odor and taste slight. Closely related to *H. pyrotichum*, but spores smaller, scales darker, denser, and flesh changing to pale saffron when exposed to the air. Related also to *H. lacrymabundum*, but spores smooth and smaller. — C. U. herb., No. 15193, ground woods, McCowans' woods, Ithaca, N. Y., July 10, 03, Jackson; No. 18947, Crawfordsville, Ind., Reddick; and No. 22025, in cellar, Wooster, O.. Van Hook, July 1907.

Caespitosum vel solitarium, 12—14 cm altum, pileo 3—7 cm lato, stipite 8—12 mm crasso. Pileo convexo, squamoso, ochraceo-brunneo; squamis fibrosis, acutis, densis et erectis, ad marginem pilei saepe adpressis. Lamellis 6—8 mm latis, adnatis. Basidiis 28—30 \cong 7 μ , 4-sporis. Sporibus subellipticis, inequilateralibus, levibus, 7—9 \cong 3.5—5 μ . Cystidiis cylindricis, 2, 4, 6, vel 8 in fasciculo, ad 30—40 μ hymenium superantibus, 10—12 μ crassis. Stipite fibroso-carnoso, cavo. Velo amplo, ad marginem pilei appendiculato. *H. pyroticho* simile sed sporibus minoribus, squamis ad centrum pileo densioribus. Ad terram in silvis, Ithacae, N. Y. Crawfordsville, Ind., et in cellario, Wooster, Ohio.

Hypoloma hololanigerum Atkinson n. sp. — Plants gregarious, 6—7 cm high, pileus 2—2.5 cm broad, stems 4—5 mm thick. Pileus watery brown, hygrophanous, as it dries becoming pale ochraceous buff to pinkish buff, not striate. Gills purple brown. Stems white with a very pale pink tinge. Entire plant covered with dense, long, delicate, whitish, fibrous scales, forming a volva in the early stage, the scales being easily removed. Pileus oval to convex, fragile. Gills elliptical, adnate, edge whitish. Basidia 18—20 \cong 6—7 μ . Cystidia on sides of gills elliptical, ventricose in the middle, tapering to a slender stem, 40—50 \cong 12—15 μ , thin walled;