

Exciple 50 μ thick at the upper margin, colourless, rising at least 85 μ above the disc, exterior side reddish, within colourless. Hypothecium 35-40 μ thick, colourless or somewhat yellowish. Hymenium 85 μ high (acc. to ZAHLBR. 60-65 μ), I + blue. Paraphyses above 2 μ thick, apices not thicker, free, colourless. Asci 60-70 \times 13 μ , clavate. Spores about 50-75, oblong, 4-5 \times 2 μ . (acc. to ZAHLBR. 2-3 μ , globose).

Habitat. On bark (of *Carpinus* in my herb.).

Locality. Florida: Mecca, 1923, RAPP (hb. MAGN., spec. orig. acc. to RAPP).

This peculiar lichen has the appearance of a *Gyalecta*-species on acc. of the deeply immersed, pale disc and the striate thick margin like in *Gyalecta cupularis*, but it has yellowish green gonidia of the *Cystococcus*-type.

7. BIATORELLA CYPHALEA (Tuck.) Zahlbr.

Catal. V: 36 (1928). — *Biatora cyphalea* TUCK., Genera lich.: 168 (1872); Synopsis N. Am. Lich. II: 51 (1888). CALKINS, Lich. flora of Chicago: 35 (1896). — *Lecidea cyphalea* NYLANDER, Lich. Japon: 108 (1890).

« Thallus thin, granulose, more or less at length compacted and rugose-verruculose, cinerascens, and whitish, apothecia small (0.5-0.8 mm. wide), sessile, from pale becoming dark-reddish, and rusty-brown, opaque, the obtuse, at first paler margin disappearing. » TUCK. l. c. p. 51.

Examined apothecia from the authentic specimen 0.5-0.6 mm. broad, 250-300 μ thick, narrower at the base (0.3 mm.), KOH —, HNO₃ + sulphurous. Exciple at the margin of a plane apothecium about 25, below 50-60 μ thick, very pale brownish yellow with very thin, vertically directed hyphae, in a convex apothecium visible only on the lower side, 25-35 μ thick. The interior of the exciple gradually passing into the \pm dark (yellowish) brown or in the convex apothecium internally pale hypothecium which at the centre is 100 μ thick and narrower at the sides, lens-shaped, often containing oil-drops. Hymenium 65-80 μ high, exterior 25 μ dirty yellowish, \pm gelatinous. Paraphyses rather distinct, 1-1.5 μ thick, also at the apices, now and then branched. Asci 50-60 \times 14-18 μ , clavate, only these I + dark blue, (young ap.; in the older ones hymenium I + dark blue), wall 3-4 μ thick. Spores about 100, subglobose, 2.5-3.5 \times 2-2.5 μ .

Thallus up to 170 μ thick with numerous 6-8 μ large gonidia and indistinct gelatinous hyphae, their cells cylindric, hardly 1 μ thick. Cortex 8-10 μ , gray, indistinct.