

On flat boulders in McKay's woods. Oct. 12, 1885.

*PLATYGIRIUM REPENS*, *Bruch & Schimp.*

VAR. *ORTHOCLADOS*, Kindb. (N. var.)

Branches elongate and not curved. All basal leaf-cells orange.

Peristome orange, segments linear, not completely free at base, smooth or denticulate at one side, not shorter than the teeth.

The European species has the teeth of the peristome pale, ordinarily longer than the linear subuliform, hyaline-bordered and free segments; the branches of the stem are shorter and curved, only the alar leaf-cells orange. The figure given by Schimper (Lesq. & James,) representing the peristome is not corresponding.

The description of *Neckera brachyclada*, C. Müll (in syn. muscor. omn. frond.) found in Pennsylvania and Massachusetts, but not mentioned by Lesquereux & James, could be referred to our plant, except that it is indicated as monœcious. On old logs at Ottawa; probably common. Oct. 12, 1885.

*PYLAISIA SELWYNI*, Kindb., N. sp.

Differs from *P. intricata* in the denser, darker green tufts, the leaves broader, short-acuminate, reflexed to the acumen at one border or at both, the short alar and marginal cells more numerous, the capsule short oval, the segments adhering to two-thirds of the teeth. Very abundant on old fences, Richmond Road, Ottawa. May 15, 1885.

*HOMALOTHECIUM CORTICOLUM*. Kindb. N. sp.

Monœcious; tufts dense, glossy; stems radiculose, pinnate; branches densely crowded, curved; stem leaves ovate, abruptly narrowed to the recurved or straight acumen; branch leaves ovate-oblong, acute or short-acuminate, straight; all leaves more or less denticulate and reflexed all around; alar cells quadrate, not numerous; the marginal also quadrate, the other oblong-rhomboidal; perichetial leaves entire, long-acuminate; capsule cylindric-oblong, slightly curved; teeth yellow, segments with a high basilar membrane; lid short-apiculate; pedicel rough; l.c.m., long. Greater than *Homalothecium subcapillatum*. On bark of trees in woods at Ottawa, Ont. Oct. 24th, 1887.