

and appressed, not mamilllose; cells subrectangular, the lower ones larger and subquadrate. Habit of *Bryum filiforme*. Dioecious.

III. *Orthodontieæ*. Capsule symmetric, terminal, with a long and narrow neck; endostomial segments ciliiform without distinct basilar membrane; teeth much longer.

135. *Orthodontium*. Leaves setiform; cells subrectangular. Stem low.

Fam. 29. *Cinclidaceæ* (new fam).

136. *Cinclidium*. Peristomial teeth short. Leaves large and broad; cells large, round-hexagonal, often red.

Fam. 30. *Bartramiaceæ*.

I. *Bartramiæ*. Capsule (when operculate) subglobose; teeth not united above; lid not rostrate. Leaves not appressed when moist, generally papillose (in *Bartramia Oederi*, *Anacolia Menziesii*, *Catoscopium* and *Bartramidula* smooth).

A. Capsule striate; segments usually present.

137. *Breutelina*. Leaves plicate, sheathing, squarrose, not recurved; cells rectangular. Male flowers discoid. Dioecious.

138. *Bartramia*. Leaves not plicate, often sheathing, not rarely recurved, long and uniform; cells rectangular (or the uppermost quadrate), the lower not more dilated. Monoecious or synoecious. Male flowers gemmiform.

139. *Philonotis*. Leaves sometimes plicate at the base, not sheathing, often recurved, mostly diversiform; cells rectangular, the lower more dilated. Monoecious or dioecious. Male flowers discoid or gemmiform.

B. Capsule not striate; segments wanting.

a. Capsule without distinct neck. Leaves serrulate. Habit of *Philonotis*.

140. *Anacolia*. Pedicel of the capsule sublateral, not or slightly curved. Peristomial teeth sometimes pre-