

DESCRIPTION OF PLATE.

Barbula Johanssenii, n. sp.

- Fig. 1. Plant X 19.
2. Outer perichaetial leaf X 32.
3. Stem-leaf X 32.
4 & 5. Cross sections of lower and middle parts of stem-leaf X 240.
6 & 7. Cross sections of upper part of leaf and excurrent costa X 240.
8 & 9. Inner perichaetial leaves X 32.
10. Apex of costa broken off and starting new growth X 50.
11. Basal cells of stem-leaf X 240.
12. Median cells X 245.

Chrysohypnum arcticum, n. sp.

- Fig. 13. Plant X 6.
14 & 15. Stem leaves X 49.
16. Branch leaf X 49.
17. Basal cells of leaf X 240.
18. Median cells X 245.