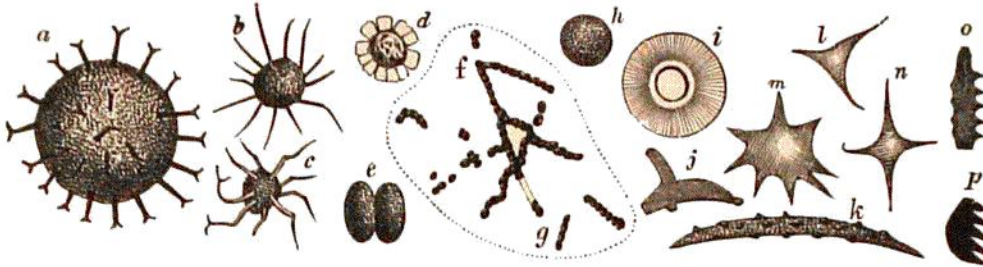


The higher Cryptogams, or Acrogens, are represented by *Lycopods*, or Ground Pines, *Ferns*, and *Equiseta*.

To the *Lycopod* tribe are referred species of *Psilophyton*, similar to those of the Oriskany period; portions of the plant are shown in Figs. 854 *a, b*, and

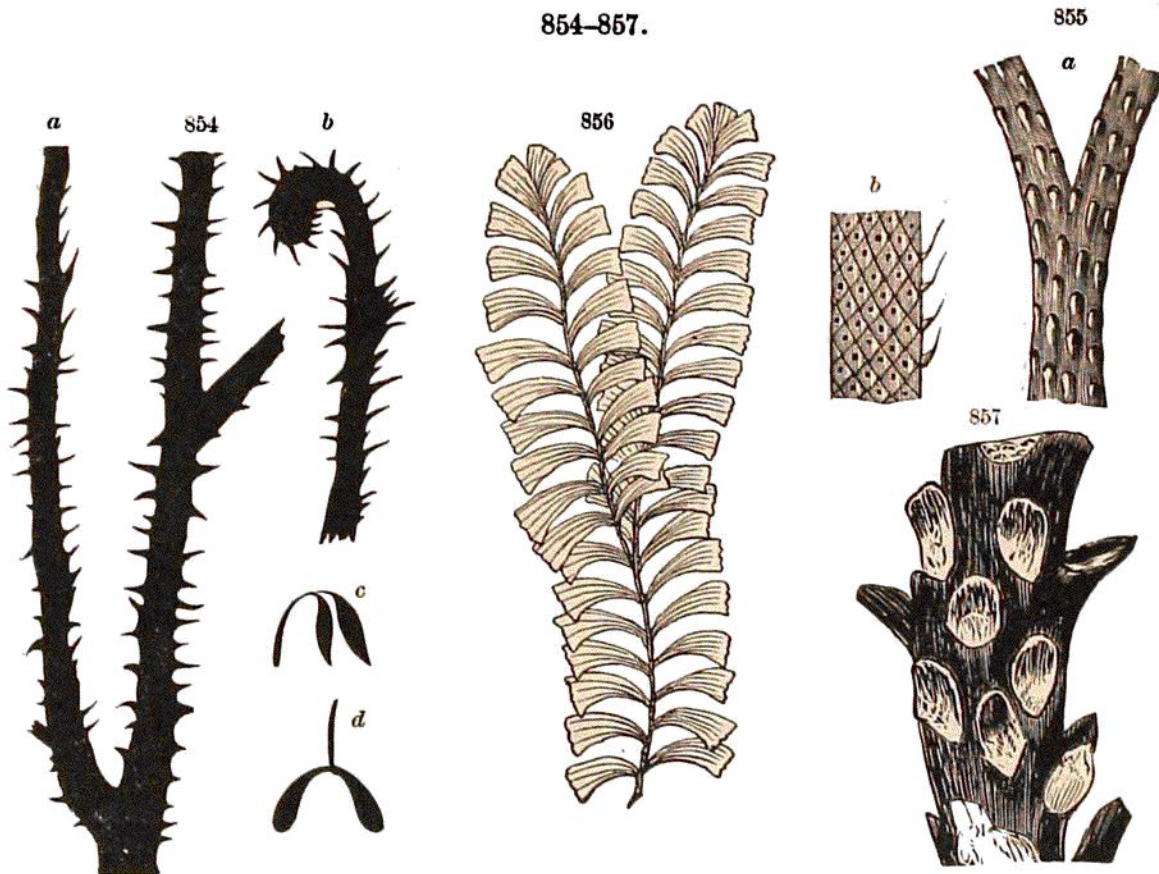
853.



MICROSCOPIC ORGANISMS IN HORNSTONE. — Figs. *a-i*, Protophytes; *j-n*, spicules of Sponges; *o, p*, Annelid jaws.

its fructification in *c, d*. They were one to three feet high. The species differ from the common Ground Pine in having the leaves on the stems nearly wanting, and also in having the axis made up of scalariform vessels, and the spore-cases (fruit, *c, d*) usually in pairs on short pedicels.

854-857.



LYCOPODS. — Figs. 854 *a, b*, *Psilophyton princeps*; *c, d*, same, fruit; 855 *a*, *Lepidodendron Gasplanum* (1); *b*, same, showing surface scars of lower part of stem. FERNS. — Fig. 856, *Sphenophyllum vetustum* (1); 857, stem of tree fern, *Caulopteris antiqua* ( $\times \frac{1}{2}$ ). Figs. 854, 855, Dawson; 856, 857, Newberry.

The Corniferous limestone of Ohio has afforded the Ferns, Figs. 856 and 857, described by Newberry. The latter is part of the trunk of a tree fern