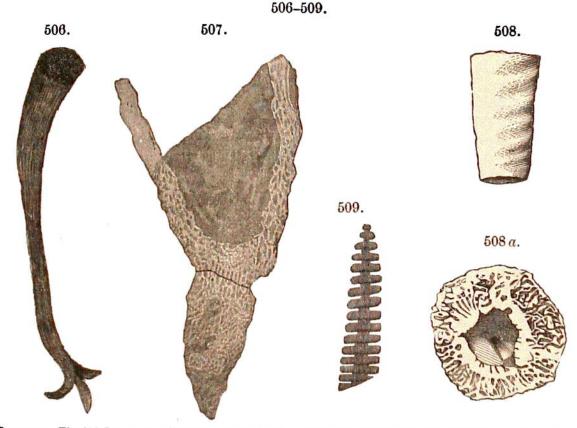
1. LOWER CAMBRIAN.

- 1. Protozoans. No Rhizopod remains have been detected, unless small concretion-like nodules, concentric in structure, occurring crowdedly in a Cambrian limestone in Nevada, are of this nature. They may belong to the genus Girvanella (Walcott). See page 501.
- 2. Sponges, Corals, Graptolites. Fig. 506 represents one of the Lower Cambrian sponges, Leptomitus Zittelli of Walcott, from Georgia, Vt.

Figs. 507, 508 are of corals, though supposed, when described, and until investigated microscopically by Hinde, to be Sponges. Fig. 507 represents the Archæocyathus profundus of Billings, and 508, 508 a, views of Spirocyathus



SPONGE. — Fig. 506, Leptomitus Zittelli. — Corals, 507, Archæocyathus profundus; 508, Spirocyathus Atlanticus (1); 508 a, transverse section. — Graptolite, 509, Climacograptus (?) Emmonsi. Figs. 506, 509, Walcott; 507, 508, Billings.

Atlanticus Billings. One of the early Graptolites (so called from the Greek $\gamma\rho\alpha\phi\omega$, write, because plume-like in form) is represented in Fig. 509, doubtfully placed in the genus Phyllograptus by Walcott, under the name Climacograptus (?) Emmonsi.

- 3. **Echinoderms.** Only fragments of Cystoids, related to Middle Cambrian species, have been observed.
- 4. Worms.—Tracks and borings of sea-worms or Annelids are not uncommon. Worm-borings, called *Scolithus* (from the Greek for *worm*), occur in the Lower Cambrian sandstones and through later periods to the present time: no distinction of species or genera can be made out.