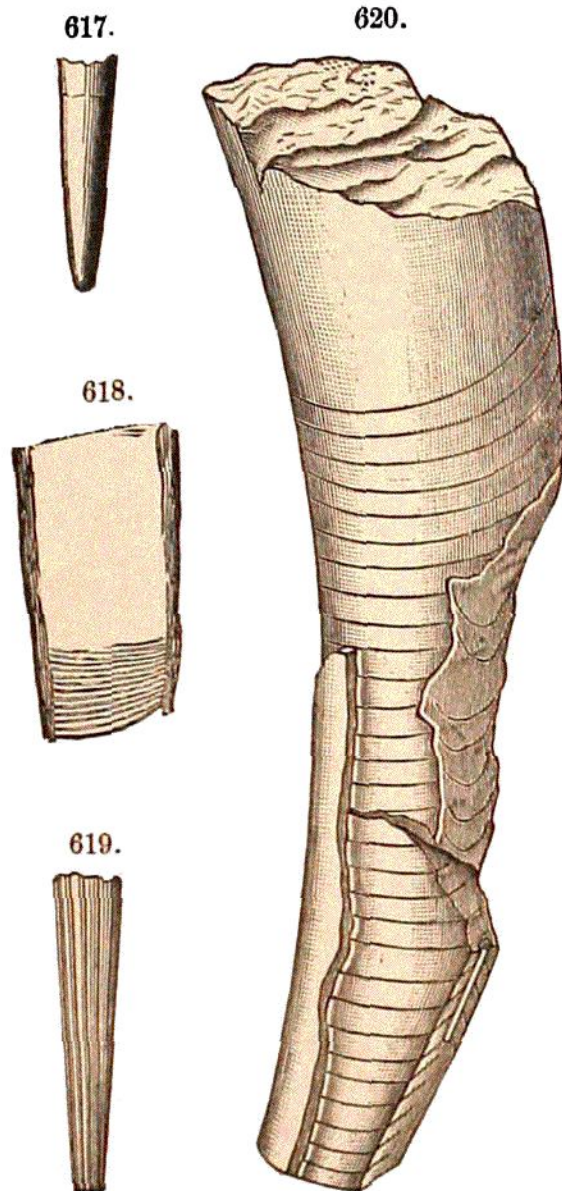


Trilobites existed of the Cambrian genera *Agnostus*, *Dicellosephalus*, *Ptychoparia*, *Bathyrurus* (seven species or more), and *Bathyurellus* (Figs. 621–624), and also of the genera *Illænus*, *Asaphus*, *Ceraurus* (*Cheirurus*), *Amphion*, *Ammon*, which have here their first American species.

617–620.



CEPHALOPODS. — Figs. 617, 618, *Orthoceras primigenium*; 619, *Kionoceras* (Orth.) *laqueatum*; 620, *Cyrtoceras* (?) *Vassarinum*. Figs. 617, 618, 619, Hall; 620, W. B. Dwight.

b. *Gastropods*. — *Ophileta compacta* S., a fine species from Canada, is 1½ inches across; *Pleurotomaria Calcifera* B., from near Beauharnois, Canada; *P. gregaria* B., St. Ann's, island of Montreal, Canada, extremely abundant; *Maclurea matutina* H., from New York and Canada; *Murchisonia Anna* B. (a long turreted shell, approaching the *M. bellicincta*, Fig. 675), St. Ann's, the Mingan Islands; *Eccyliomphalus priscus* Whitf., a large open-coiled shell from Fort Cassin, Vt.

c. *Cephalopods*. — *Orthoceras Ozarkense* Shum. is from the Magnesian limestone, Ozark County, Mo.; *Lituites* (?) *Farnsworthi* B., a species partly coiled, and nearly 5 inches in its longer diameter, and *L. imperator* B., are from the upper part of the Calciferous sand-

An Ostracoid, or bivalve Crustacean, is represented much enlarged in Fig. 616 (a profile view in 616 a), and several of natural size in the rock in Fig. 616 b.

Characteristic Species.

1. *Spongiozoans*. — *Receptaculites elegantulus* B. (Fig. 597) was a hollow sponge, with the thickness to the inner tube about half an inch; tubes passed from the outer to the inner surface, which opened inward. The species from Little Metis (Figs. 599–603) occur in beds that contain also the Brachiopod *Linnarssonina pretiosa* B. (Dawson, *Trans. Roy. Soc. Canada*, 1889). The stem of *Protospongia mononema* (Fig. 600) is of doubtful reality, according to Hinde.

2. *Hydrozoans*. — The characteristic Calciferous forms, besides those figured, are *Phyllograptus Anna* H., *Tetragraptus bryonoides* H., *T. fruticosus* H., *Didymograptus extensus* H., all of the vicinity of Quebec. The *Cryptozoon proliferum* H. (1884), from Greenfield, Saratoga County, N. Y., and *C. Steeli*, Seely and Br., another species from Vermont, if really organic, perhaps belong here.

3. *Echinoderms*. — *Stenaster Huxleyi* B. (Fig. 610), having a breadth of 5 lines, is from Point Rich, Newfoundland.

4. *Molluscoïds*. — Fig. 611, *Orthis* (*Bilingsella*) *grandæva* B.; *Lingula acuminata*, *Camarella calcifera* B.; *C. varians* B. (also from Newfoundland); *Clitambonites*.

5. *Mollusks*. — a. *Lamellibranchs*. *Euchasma Blumenbachii* B., Newfoundland; *Tellinomya Angela* B.