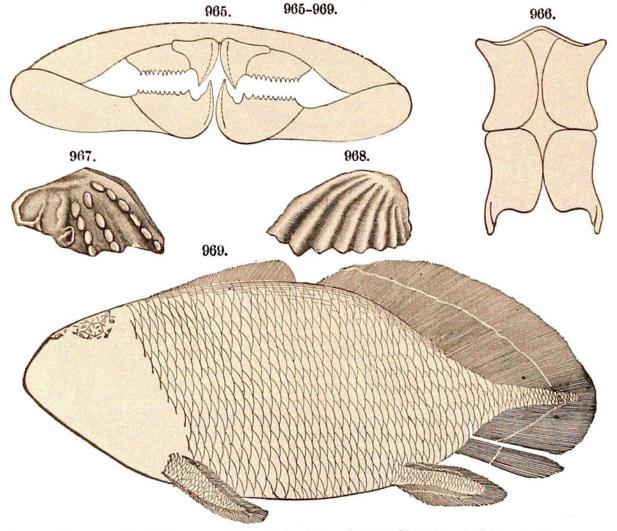
Chemung of Erie County, Pa. It is the Protolimulus Eriensis of H. S. Williams.

7. Vertebrates. — Remains of Placoderms, of the brachiate type, or related to *Pterichthys*, have been found in Ohio and in the Catskill sandstone of New York and Pennsylvania, and nearly perfect specimens (Figs. 960, 960 a) of one species, *Bothriolepis Canadensis* of Whiteaves, at Scaumenac Bay (in Baie de Chaleurs), New Brunswick. Fig. 960 is a view of the dorsal shield, and 960 a, the ventral, both reduced to a third of the natural size; and 960 shows also the probable outline of the posterior extremity, which has been added to Whiteaves's figures from the form in *Pterichthys*. Fig. 961 represents, natural size, the finger-like termination of a fore limb of possibly the same species, described by Cope, which was found at Mansfield,



DIPNOAN FIGHES. — Fig. 965, Dinichthys Hertzeri, front view of jaws (× 1); 966, ventral plates (× 1); 967, palate tooth of Dipterus Sherwoodi; 968, id. of Ctenodus Nelsoni: all from Newberry. Fig. 969, Phaneropleuron curtum (×3), from Whiteaves.

Tioga County, Pa., with remains of Holonema. Fig. 962 represents a plate of Bothriolepis from the Catskill beds.

No remains of the posterior scaly part of the body have been observed in connection with specimens of the American species of *Bothriolepis*, though occurring in Scotland with those of *Pterichthys*.