

the partially ob-conic or urn-shaped outline which the calyx evidently possessed originally indicates *Periechocrinus* (*Saccocrinus*), or *Strotocrinus*, or some other near ally, as its resting place. From the list of species given by Wachsmuth and Springer, *Periechocrinus* appears to be essentially an Upper Silurian genus, with the exception of two American Carboniferous species, *P. amplus*, M. and W., sp., and *P. Whitei*, Hall, sp., to neither of which does our species bear any great specific resemblance. It is, however, with an American Crinoid from the Niagara Group, *P.* (*Saccocrinus*) *Christyi*, Hall, sp.¹; that our Permo-Carboniferous fossil agrees so closely in the form of its plates and outline of the calyx, and also with many of the species so beautifully figured in Angelin's posthumous work² on the Silurian Crinoids of Sweden.

An equally strong resemblance exists between *P.* (*Saccocrinus*) *indicator*, and the American Carboniferous genus *Strotocrinus*, which agrees "exactly with *Actinocrinus* in the number and arrangement of the pieces composing all that part of the body below the divisions of the rays."³ *Strotocrinus regalis*, Hall, sp.,⁴ possesses the same ob-conic outline and succession of radials and inter-radials, but there is about our specimen no trace of the characteristic horizontally expanded rim of the former genus, and without which it would not be possible to employ *Strotocrinus* for the reception of *P. indicator*.

One of the elevated ridges of the radials which pass from plate to plate in *Periechocrinus* is indicated in our specimen by a marked angularity of the surface.

Locality and Horizon.—Chalky Gully, Wollumba River, Co. Gloucester (Pres. E. Twynam, Chief Surveyor):—? Carboniferous.

PERIECHOCRINUS? *sp. ind.*

Photo-litho., Fig. 1.

Obs.—Some flattened and decorticated plates, more or less apposed to one another, probably represent either another species of this genus, or simply an *Actinocrinus*. The specimen is, however, of interest from its geological position.

¹ See Illinois Geol. Report, Pal., 1868, III, p. 347, t. 5, f. 1.

² Iconographia Crinoideorum in Stratis Sueciæ Siluricis fossilium (folio, Holmiæ, 1878).

³ Meek and Worthen, Illinois Geol. Report, Pal., II, 1866, p. 189.

⁴ See Illinois Geol. Report., Pal., 1866, II, p. 192, f. 7, t. 16, f. 6a and b.