Genital foramina opening upon the abactinal surface close to the marginal plates on each side of the odd interradial plate.

Remarks.—The genus Benthopecten, recently described by Verrill, is stated to be furnished with abactinal plates covered with skin, usually bearing a single spine or sometimes two or three, but not forming true paxillæ. This character would seem to indicate an alliance with Pararchaster; but from the brevity of the description I cannot say whether this be near or remote, and I am for the same reason unable to indicate in the foregoing synoptic table the relative position of the genus in the family. No mention is made of the presence of any odd interbrachial marginal plate and spine, or of the limitation of the papulæ to the basal region of the rays,—characters which are so conspicuous in Pararchaster, and whose importance from a structural point of view could scarcely have been overlooked by a naturalist so well acquainted with starfish anatomy as Professor Verrill, had they been present in Benthopecten. Furthermore, no mention is made of the presence of any pedicellarian apparatus. On the other hand it is recorded that "a circle of four to six papillæ, placed singly, surrounds each plate." If the word "papillæ" here stands for the organs which I call papulæ (following Stimpson), it would appear extremely doubtful whether Benthopecten would find a place even in the same subfamily as Pararchaster.

The subjoined scheme will assist in the ready recognition of the different species of the genus.

Synopsis of the Species included in the Genus Pararchaster herein described.

A. No pedicellarize of any kind. Single spinelets on the abactinal plates. a. Abactinal area of disk plane. One supero-marginal spine. Adambulaeral plates with two actinal spines. No line of therelets on the infero-marginal plates b. Abactinal area of disk inflated. Two supero-marginal spines. Adambulaeral plates with three actinal spines. A line of therelets on the infero-marginal plates	semisquamatus.
B. With special comb-formed pedicellarise. Abactinal plates with one to three or	
more spinolots. a. With pedicellarise between each infero-marginal plate. b. With no pedicellarise between the infero-marginal plates. a. One lateral spino on infero-marginal plates and a small companion.	pedicifer.
Adambulacral plates with six or seven furrow spines, one actinal and sometimes a small companion behind it. Abactinal plates with one or two spinelets, all simple. Comb-like	
pedicallarize on the abactinal surface	armatus.
plates with four furrow spines, and two actinal side by side. Abactinal plates with several long needle-like spinelets inter- spersed amongst the simple ones. No comb-formed pedical-	
latim on the abactinal surface	spinosissimus.

¹ Amer. Journ. Sci. and Arts, Sopt. 1884, vol. xxviii. p. 218.