

DESCRIPTIONS OF GENERA AND SPECIES.

ORDER POLYPLACOPHORA.

SECTION I.—CHITONES REGULARES. Regular Chitons.

Head and tail plates of similar character.

A.—LEPTOIDEA.

Insertion plates obsolete, or, if present, unslit.

Leptochiton.—Insertion plates absent; sinus simple, smooth, deep, not laminated; girdle with minute gravelly, smooth or striated scales; gills, short, posterior. (*Leptochiton cancellatus*, Sow.)

Deshayesiella.—Shell elongated; valves curved, pointing forwards; umbo flattened; insertion plates absent; sinus simple, broad; sutural laminæ triangular; girdle with spicules and chaffy scales. (*Deshayesiella curvatus*, A. Ad.)

Hanleyia.—Insertion plate only in anterior valve, rugose but non-denticulate; eaves minute; sinus simple, broad, shallow; girdle with hairs or fine spines, lateral tufts small. (*Hanleyia debilis*, Gray.)

Hemiarthrum.—Insertion plates only in anterior and posterior valves; smooth unslit laminæ; minute eaves; broad spongy sinus; girdle solid, downy, poriferous, lateral tufts small; gills short. (*Hemiarthrum setulosum*, Carp.)

Microplax.—Insertion plates present in all the valves; smooth unslit laminæ; no eaves; sinus obsolete; girdle, thin, horny, finely granulous. (*Microplax grayi*, Ad. and Ang.)