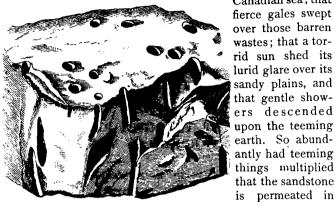
meaning the dawn of life of Canada. | find ripple marks, wind hillocks, sun-It was animal life in its lowliest form; cracks, and rain impressions. From being simply a mass of sarcode, or liv- these we gather that gentle breezes ing jelly enclosed in a shelly covering. played over the surface of that early Canadian sea; that

Ears. eves. nose, digestive mouth, and locomotive organs were unknown to it. Lving on the bottom, it assimilated its nutriment from the surrounding water. Those early ocean depths teemed with many of its kind, and probably other such strange creatures now unknown. It may not be amiss here to



(Fig. 2.) Supposed Worm Burrows,-Scolithus Canadensis.

reflect that this is the oldest life known | to be worm burrows. to us; that it is an antiquity when compared with the Pyramids in age,-they are as yesterday; that the ocean bottom where it lived became the first permanent dry land. But what a land ! undiversified by hill or dale, no animal to roam over its desolate plains, nor plant to take root on its truly virgin soil. How bleak and inhospitable its appearance! Yet this was the first of a long series of changes from the still more bleak monotony of a universal ocean, by which this world was rendered habitable for man.

Long ages rolled away, leaving no other record in this locality. But we have elsewhere records that the ceaseless conflict between sea and land had been carried on since the first appearance of the latter. During this conflict the island nuclei were slowly developing into continents, and an extensive sand bar was forming a little to the Stretching out northsouth of us. wards, it extended within our borders ; and this sand bar, for a short time exposed at low water, was the first unassuming debut of our beautiful island.

Along with these are associated shells of an animal going under the family name of Lingula, because shaped like

every direction by

what are supposed



<sup>(</sup>Fig. 3.)-Lingula Acuminata.

a tongue. They differ from all belonging to the same order (that is lamp shells) in that their shells are composed of phosphate, while those of the others are of carbonate of Another peculiarity connectlime. ed with them, is, that they belong to the only genus of shells having living representatives, all other genera of that time having given place to those introduced at a much- later period. Still more interesting to us are the tracks left on these rocks by what are now believed to be Trilobites. This **Protichnites** as it has been named, On the rocks exposed at St. Ann's we being the first creature whose foot-