

rare, so that in the first one examined I did not at once see any, but, recognising it as my *Porella emendata*, it was again examined with this object, and two or three only were found on a large colony, but thus the determination was confirmed.

It seems also related to *Eschara polymorpha*, Reuss, *loc. cit.*, p. 182, Taf. viii. fig. 8.

*Habitat*.—Victoria (MacGillivray); Port Phillip (Busk); and Station 162, 38 fathoms. Fossil—Curdies Creek (Australia); Sölligen (Oligocene).

*Smittia delicatula*, Busk. (Pl. III. fig. 26).

*Mucronella delicatula*, Busk, Zool. Chall. Exp., part xxx. p. 156, pl. xviii. fig. 2.

This is a very typical *Smittia*, which might be called *Smittia trispinosa*, Johnston, var. *delicatula*. Mr. Busk speaks of the mucro being within the border of the orifice, but it is the denticle (lyrula) to which he refers; and in *Smittia* this lyrula seems always to be in front of the operculum, so that this is no exception, as Mr. Busk seems to suppose. This must have led him to place it under *Mucronella*. The ovicell is large, wide, raised, with a large area marked off, in which there are large perforations, the rest being granular.

*Smittia smittiana*, Busk.

*Smittia smittiana*, Busk, Zool. Chall. Exp., part xxx. p. 151, pl. xvii. fig. 3.

*Smittia stigmatophora*, Busk, *op. cit.*, p. 154, pl. xxii. fig. 6.

In the British Museum specimen of *Smittia smittiana*, named by Mr. Busk, I should call the ovicell decidedly depressed not "prominent;" in the specimen named *Smittia stigmatophora* the ovicells are also depressed, and usually have a small area in front with perforations; and it seems as if the marking with the few large pores, which Mr. Busk figured and called a stigma, only occurs in the young and undeveloped ovicells.

One of the specimens in Edinburgh, named by Mr. Busk *Smittia smittiana*, is adnate on *Vincularia*, and a specimen of typical *Smittia smittiana* which I found on *Ascidia meridionalis*, from Station 320, 600 fathoms, is also entirely adnate, showing that the "unattached" character is not constant in the same locality.

I wrote to Mr. Kirkpatrick to tell him that from my notes made in the British Museum I was convinced that *Smittia smittiana* and *Smittia stigmatophora* were synonyms, and he entirely confirmed my view, and said that the *Smittia smittiana* is of a larger build than *Smittia stigmatophora*, and he found stigma-like ovicells in *Smittia smittiana*, but this I only look upon as a stage of growth.