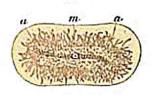
there being, in fact, only two kinds of individuals: the sterile ones, among which that occupying the centre of the community is larger than the others, like the top animal of the Madrepores, and around it, clustered together, a large number of

Fig. 31.



VELELLA MUTICA, Bosc. m So-called mouth -a a So-called tontacles.

Fig. 33.

smaller ones; and outside, the large fertile individuals (Fig. 32) from which Medusæ buds arise that become free, and are very similar to the common Oceania among the naked-eyed Medusæ. This, at least, is the case in Velella (Figs. 31 and 32), as I shall show hereafter more fully. Meanwhile

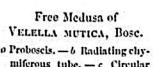
the wood-cut below (Fig. 33) represents an Oceania-like Medusa that freed itself, with many others, from the larger fertile Single so-called tentacle of

individuals of the common Velella of the Bearing Mediuse buds d. - a Gulf of Mexico, represented in Fig. 31. The

individuals forming the communities known as Velella and Porpita have no more the structure of Polyps than those of the

But I believe that this view is not

They are genuine Hydroids. Physalia.



string of heterogeneous individuals suspended

larger elongated, bell-shaped individuals, commiferous tube. - c Circular monly called the swimming-bells, and generally considered as organs destined to move the whole com-

munity (Figs. 34 and 35). Fig. 35.



GALEOLARIA FILIFORMIS, Leuck. Diphyes quadrivalvis, Gegenb. (Opied from Gegenbauer.)

a b Anterior and posterior swimmingbells. - c String of twin individuals. -d Feelers with lasso cells. - e Carcal termination or base of the connecting tube or axis.

correct, but that, on the contrary, these so-called swimming-bells are themselves distinct individuals of one kind connected with smaller individuals of other kinds, forming together a community composed of very heterogeneous elements. invaluable investigations of Gegenbauer upon the development of Diphyes seem to me to leave no doubt upon this point; DIPHYES SIEBOLDH, Köll. for he has observed the whole develop-

ment of the egg of one of these animals, showing that the process of segmentation of the egg terminates in the formation of one of these so-called swimming-bells. Now, the product of the egg, whatever it may be, cannot be a mere organ.



VELELLA MUTICA, Bose, Base of attachment .- b Blunt end of the tentacle.

If from these we pass to the Diphyida, we notice a long



(Opied from Kölliker.)

a b Anterior and posterior swimming-bells. - c Base of the axis of the community. - c Main axis of the community, with young buds. - d d Fully developed buds, with their

unquestionably a young animal; and that animal, as represented by Gegenbauer, is a genuine naked-eyed Medusa. It has the four characteristic radiating tubes, a circular