

become separated (*Fig. 16, a¹ p*), the inner one retaining the form of a cone (*p*), and the hemispherical cavity (*ca*) thus left is filled by a homogeneous, transparent, faint yellow mass. The conical proboscis (*p*) extends through the whole depth of the cavity (*ca*), and within is occupied by a prolongation from the chymiferous cavity, which is thickly lined by reddish-brown granules and cells (*c*). The pedicel (*a b*) is a little longer than the medusa, and is pervaded by a broad chymiferous cavity, expanding into a still broader chamber (*c*), the digestive cavity proper of the medusa. Gradually the medusa, at the same time that it increases in size, becomes globular (*Fig. 17, A*), and the disk cavity (*ca*) assumes the form of a spherical chamber, through which the cylindrical proboscis (*p*) projects, from base to apex. The spermatie contents of the disk cavity (*ca*), which occupy the whole space about the proboscis, become denser, and more decidedly yellow. Here and there lasso-cells (*l*) are scattered through the outer wall, and seem to be fully developed; but we have not made any special investigation of their structure. The pedicellar portion (*a b c*) is about one half longer than the medusa, and the chymiferous cavity (*c*) has become very irregular in its outlines, on account of the highly increased development of the reddish-brown granules and cells, which line it as well as the proboscis (*p*). The two walls, the outer (*a*) and the inner (*b*), have the same thickness throughout, not only in the pedicel, but in the medusa, where the inner one forms the proboscis (*p*) and the outer one the disk (*A*). In the next stage (*Fig. 18*) we find that the pedicellar portion has nearly doubled its length, and that a second medusa (*B*) has begun to develop immediately below the first one (*A*), simply by a bulging and separation of the outer wall from the inner one (*B p²*). This second medusa is separated from the primary one by a very short neck (*c*), no longer than the combined thickness of the outer and inner walls (*c¹ c*), which, at this point, are closely in contact with each other, the inner one (*c¹*) forming a partition, as it were, between the disk cavities (*A ca, B ca*) of the two medusæ. The primary medusa (*A*) has the form of a flattened sphere, of which the proboscis (*p*) forms the axis, and its spermatie contents (*ca*) are much denser than in the last phase, and of a dusky yellow color. The spermatie mass of the second medusa (*B*) is yellowish, like that in the last phase, and occupies a little less than two thirds of the transverse diameter of the disk, the axial portion (*p*), or, homologically, the proboscis, filling more than one third of the space. The terminal (*c¹*) and basal ends of this proboscidal axis, are expanded, so as to extend a short distance along the internal surface of the outer wall. Immediately below the secondary medusa (*B*) the pedicel (*C*) is slightly swollen, and in the act of forming a third medusa, as seen in *Fig. 19*, in which we have actually a third medusa (*C*) added to the group, and formed in the same way as the second, but as yet less advanced than the secondary medusa