

Its general form is represented in figure 3: The markings of the fossil form of this animalculite, are very delicate, and only exhibited by the best microscopes. The cross striæ represented by dotted lines, appear under glasses of moderate power, like continuous lines.



Figure 4 represents another of the ordinary inhabitants of spring water. This creature moves swiftly about from point to point, evidently engaged in securing food. The tail at the point seems to be

provided with a cup, from which the animalcule has the power of withdrawing the air, and thus by atmospheric pressure, fastening himself to any point. When making use of this peculiar mode of attachment, he moves rapidly about within his confined limits, describing a circle, having the point of attachment for its centre. The name of this animalcule is *metopidia lepadella*.

(TO BE CONTINUED.)

## CARD ITIS, HYPERTROPHY & DILATATION OF THE HEART.

BY S. M. DAVIS, M. D.

A Mr. Neale, of Buffalo, of sanguine and nervous temperament, aged 42 years, had occasionally experienced slight rheumatic pains in the chest for fourteen years. Six years ago he had a slight attack of *carditis*, (inflammation of the heart,) which left him with considerable palpitation. Four years since, the cardiac inflammation was renewed. When I was called to prescribe for him, he had been under Allopathic treatment two or three weeks. Venesection, cupping, leeching and blistering, besides other anti-phlogistic means, had been employed, but without any benefit. On examination by immediate auscultation, (to listen with the ear,) the endocardial murmur clearly indicated the existence of *endocarditis*, (inflammation *within* the heart.) I prescribed mild opening medicines, (Beach's Neutralizing Physic,) and a fever powder every two hours, combined with anodynes, and directed a low vegetable diet. In a few days he recovered so as to be able to attend to his business; but he did not entirely recover from the effects