

曲旋沼螺作为华支睾吸虫第一中间宿主的 新发现

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1983年7月作者在华支睾吸虫病流行区吉林省海龙县李炉公社和盛大队居民区附近的池塘中找到了三种淡水螺:纹沼螺 *Parafossarulus striatulus* (Benson), 九洲豆螺 *Bithynia kiusiuensis* (Hirase) 和一新种螺蛳 (图1)。压碎后,在纹沼螺和新种螺体内均发现了华支睾吸虫尾蚴的自然感染(图2)。感染率分别为0.3%(1/335)和3.0%(3/101)。新种螺贝壳大,壳质厚而坚固,外形呈长卵圆形。长15.2~16.9mm,宽7.7~8.3mm。有4个螺层,各螺层缓慢均匀增长,膨胀,壳顶钝,螺旋部较长,其高度约为全部壳高的2/3,缝合线深。壳面黄棕色,在各螺层上均有螺棱,在体螺层上有一条明显的黄棕褐色的纵线。壳口卵圆形,脐孔深,厝石灰质,边缘具同心圆的生长纹。其孳生环境为水草丛生,水质较浑,富有有机质泥土的池塘。新种螺经中国科学院动物研究所刘月英同志鉴定,命名为曲旋螺沼螺 *Parafossarulus anomalospiralis* (Liu, 1983)。

过去报告国内有7种淡水螺^[1-3,6]:纹沼螺 *Parafossarulus anomalostriatulus* (Benson)、长角涵螺 *Alocinma longicornis*、赤豆螺 *Bithynia fuchsianus* (Moellendorff)、中华沼螺 *Parafossarulus sinensis* (Neumayr)、瘤拟黑螺 *Melanoides tuberculata* (Müller)、方格短沟蜷 *Semisulcospiracancellata* (Benson) 和琵琶拟沼螺 *Assimineea lutea* A. Adams, 东北地区只发现纹沼螺为华支睾吸虫的第一中间宿主^[4,5]。这次我们在吉林省海龙县

发现曲旋沼螺作为华支睾吸虫的第一中间宿主,尚系首次。由于此螺在当地数量较多,华支睾吸虫的感染率又较高,这一发现对全面了解华支睾吸虫病的流行因素及其防治工作有着重要的意义。

(本文图1~2见插图第3页)

ABSTRACT

Three species of fresh water snails, *Parafossarulus striatulus*, *Bithynia Kiusiuensis* and a new species were obtained in a pond near the He-sheng production brigade, Hailong county, Jilin. This county has been known as an epidemiological district of *C. sinensis*. Cercariae of *C. sinensis* were found not only in *Parafossarulus striatulus* but also in the new species. Infection rate of cercariae was 0.3% and 3.0%, respectively. The new species is long ovate-shaped. The height of spiral shell is 15.2-16.9mm, and the width 7.7-8.3mm.

This new species has been identified by Comrade Liu Yue-ying of the Institute of Zoology, Academia Sinica, and given the name *Parafossarulus anomalospiralis*. As an intermediate host of *Clonorchis sinensis* it was discovered for the first time.

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磁水预防痢疾性腹泻效果研究

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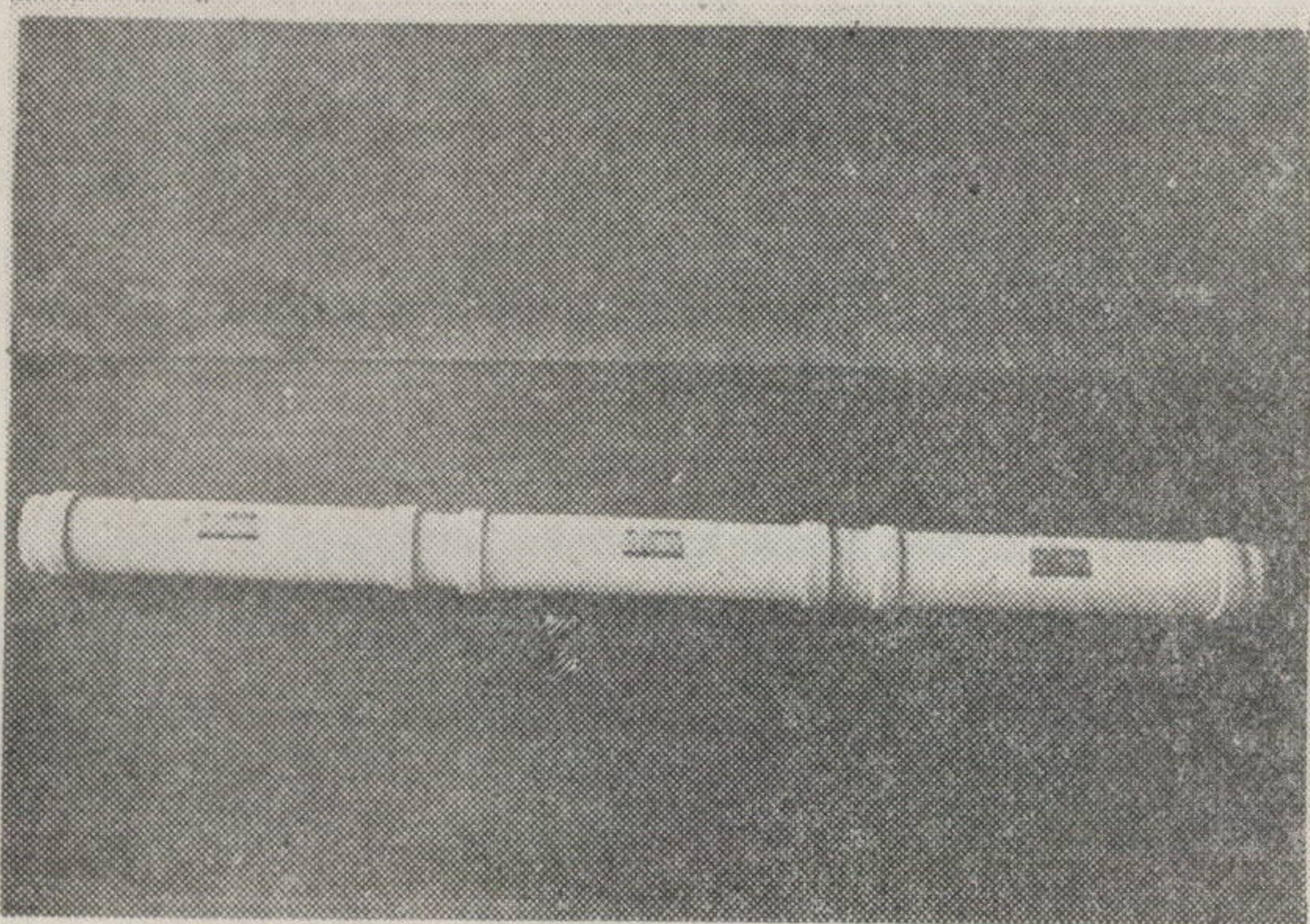


图 1 磁水器外形

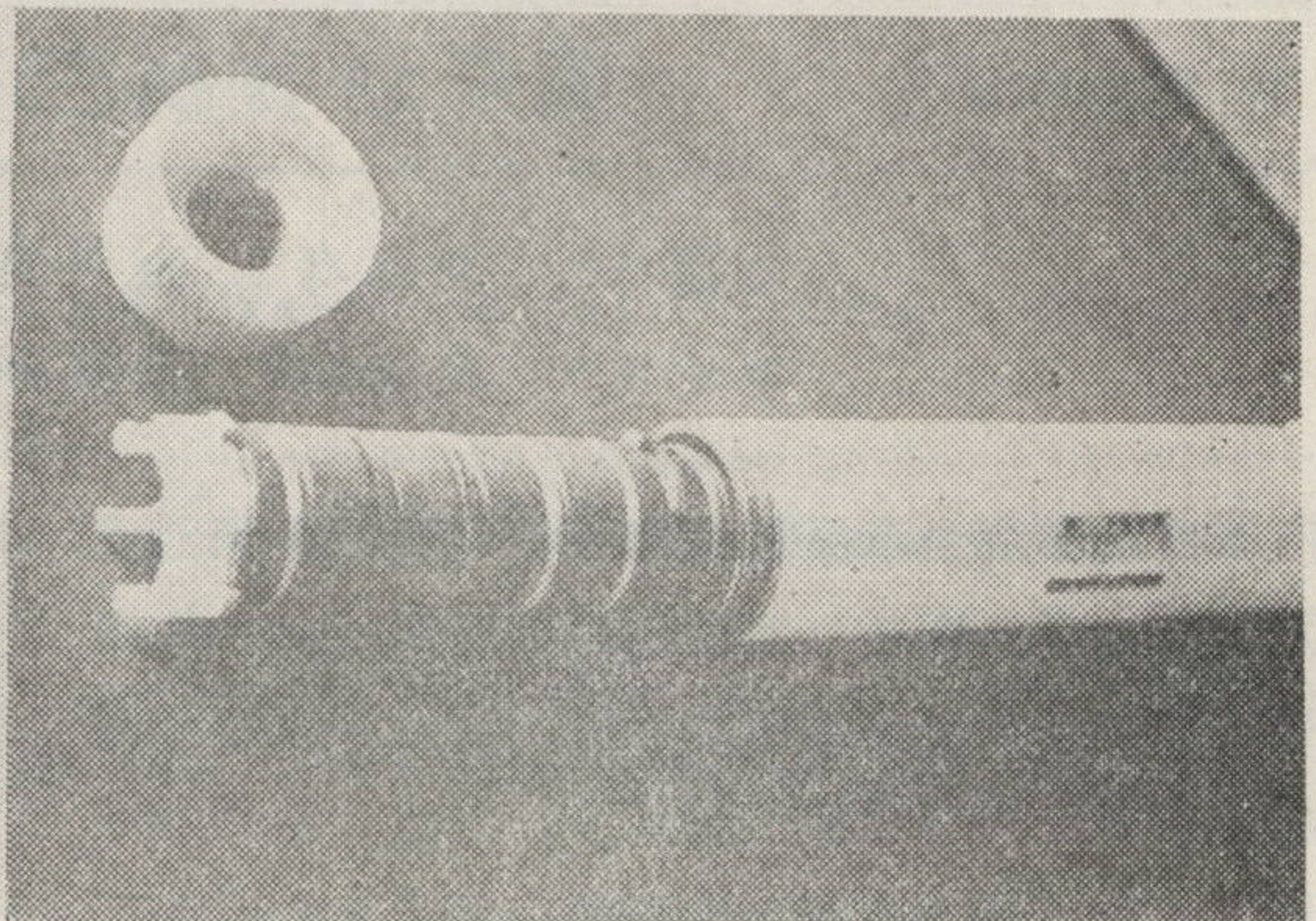


图 2 磁水器内部结构



图 3 原水中离子形态 $\times 30,000$



图 4 磁水中离子形态 $\times 30,000$

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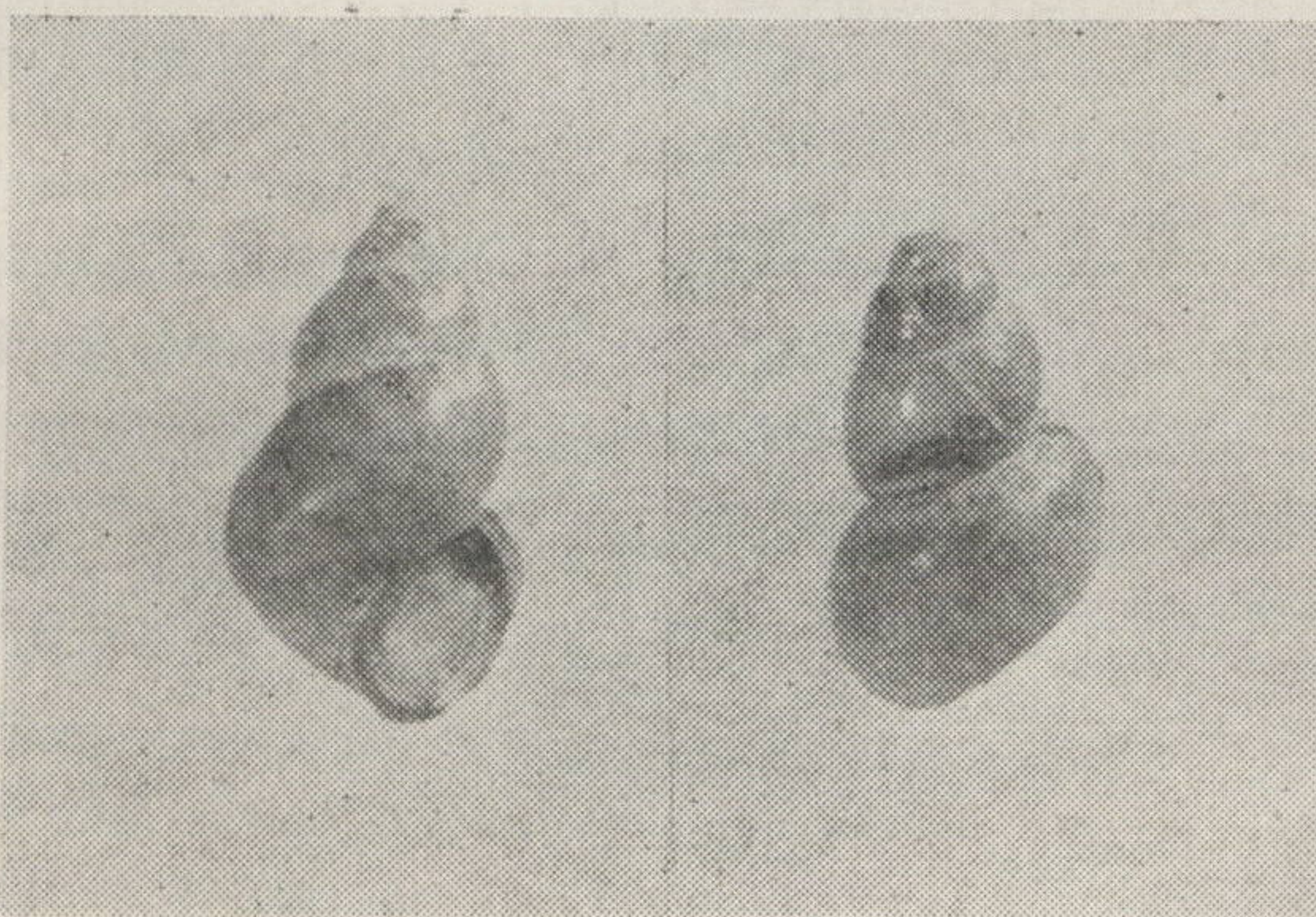


图 1 曲旋沼螺 $\times 1.12$

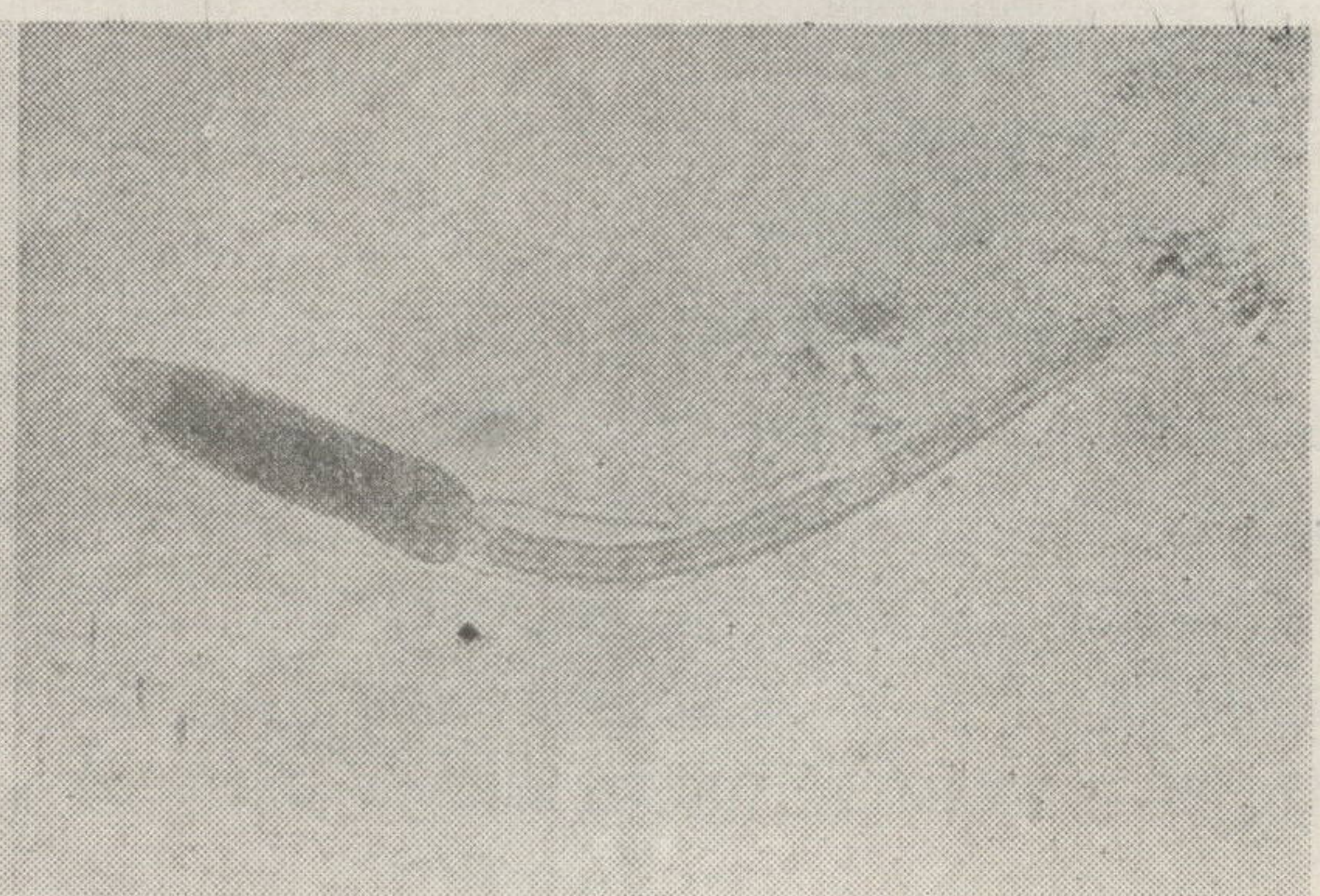


图 2 华支睾吸虫尾蚴 $\times 93.6$