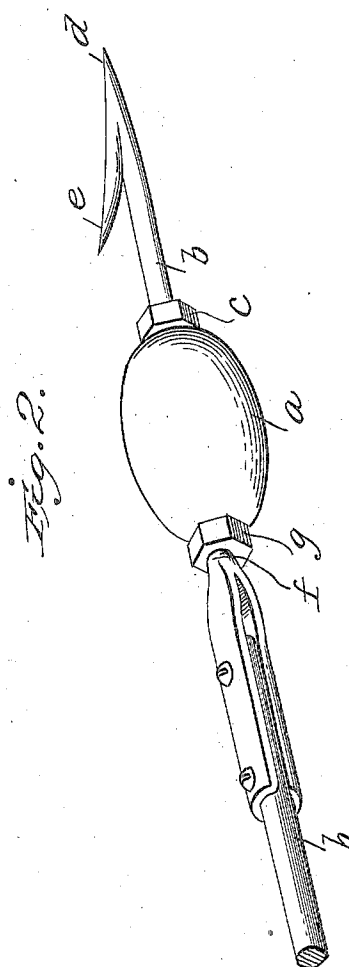
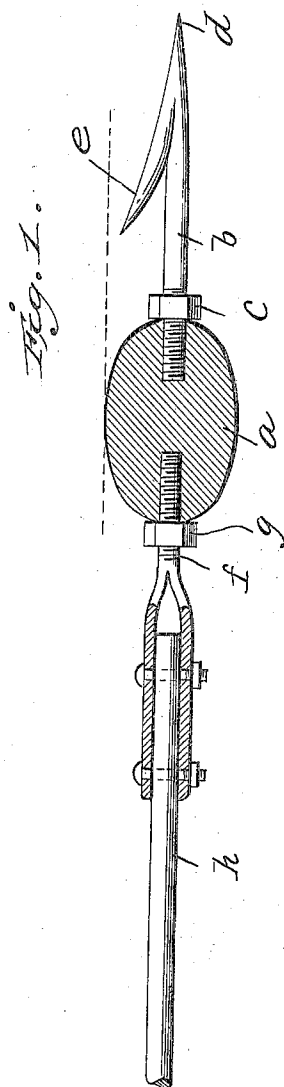


947,990.

M. HARBECK.
SEWER CLEANING DEVICE.
APPLICATION FILED JUNE 17, 1909.

Patented Feb. 1, 1910.



Witnesses

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MARX HARBECK, OF DAVENPORT, IOWA.

SEWER-CLEANING DEVICE.

947,990.

Specification of Letters Patent.

Patented Feb. 1, 1910.

Application filed June 17, 1909. Serial No. 502,743.

To all whom it may concern:

Be it known that I, MARX HARBECK, a citizen of the United States of America, residing at Davenport, in the county of Scott and State of Iowa, have invented certain new and useful Improvements in Sewer-Cleaning Devices, of which the following is such a full, clear, and exact description as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide a simple and durable tool which may be employed for dislodging and removing obstructions from sewer pipe, and it consists of the features of construction hereinafter described and particularly pointed out in the claims appended.

In the drawing, Figure 1 is a view partly in side elevation and partly in longitudinal section; and Fig. 2 is a perspective view of a device embodying my invention in its preferred form.

Referring to the drawings by reference-characters *a* designates a mass or body of metal, preferably cast iron and preferably egg-shaped, being cylindrical in cross section and tapering from a point about mid-way its length toward its opposite ends. Screwed into the front end of this body is a rod *b*, a lock nut *c* being provided to prevent this rod unscrewing. The forward extremity of this rod is tapered to form a sharp point *d*, and welded or otherwise attached or formed integral with the tapered portion of the rod is a barb *e* which projects backwardly and outwardly and is tapered to a point, its pointed end terminating at a shorter distance from the axial center of the body *a* than the largest diameter of said body, as shown by a dotted line in Fig. 1.

Screwed into the rear end of the body *a* is another rod *f*, and this rod also is locked against unscrewing by a lock nut *g*. The rear end of this rod is bifurcated and between the members thus formed is clamped the forward end of the operating rod *h*.

The manner of using this implement is obvious. By means of the handle or rod *h* it is inserted into the pipe in which the ob-

struction is located. The pointed forward end enables the obstruction to be pierced readily, and the barb is so shaped and located that if the obstruction cannot be broken up and dislodged the barb will catch into it and permit it to be withdrawn. The mass or body *a* forms a sort of runner to support the barbed point away from the interior wall of the pipe and its oppositely tapered shape not only enables it to ride back and forth over the deposits and obstructions in the pipe but also enables the tool to be rocked or wiggled a limited amount to assist in dislodging the obstruction. A feature of importance lies in terminating the point of the barb within the circumferential line of the supporting body *a*, whereby the pointed end of the barb will be prevented from catching into crevices such as pipe joints and junctions while the tool is being withdrawn. It is also an advantage to have but a single hook since a single hook is less liable to get caught in pipe joints etc. than a series of hooks.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is:—

1. A device of the class set forth, consisting of a body or runner portion tapered toward its ends, an operating rod attached to the outer or rear end, and a sharpened and barbed rod projecting forwardly from its other end.

2. In a sewer obstruction remover, a body or runner portion, an operating rod attached to its rear end, a sharpened rod projecting forwardly from its forward end and provided with a rearwardly and outwardly extending barb, the point of this barb terminating at a less distance from the longitudinal center than the greatest diameter of the runner or body, for the purpose set forth.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

MARX HARBECK.

Witnesses:

HENRY A. ARP,

FRED W. SCHNARE.