H. E. ASBURY & W. C. ATKINSON.

DEVICE FOR REMOVING OBSTRUCTIONS FROM DRAIN PIPES.

APPLICATION FILED JAN. 4, 1913.

1,077,784.

Patented Nov. 4, 1913.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Inventors
Harry E. Asbury
Wilbur C. Atkinson
by their Attorneys-
Thorn & Thorn.

Witnesses—
Augustus B. Apper
Walter B. Runnon.
To all whom it may concern:

Be it known that we, HARRY E. ASBURY and WILBUR C. ATKINSON, citizens of the United States, residing in Philadelphia, county of Philadelphia, State of Pennsylvania, have invented certain Improvements in Devices for Removing Obstructions from Drain-Pipes, of which the following is a specification.

One object of our invention is to provide a simple and effective means for cleaning and removing obstructions from drain pipes.

A further object of the invention is to construct the device so that, when it is retracted, the hooks will open to the full diameter of the pipe; removing any material lodged therein.

In the accompanying drawing:—Figure 1 is a side view of our improved cleaning device for drain pipes; Fig. 2, is a view showing the device located in a drain pipe and expanded; Fig. 3, is a sectional view on the line a—a, Fig. 2; Fig. 4, is a sectional view through the head and coupling; Fig. 5, is a detached perspective view of the head; and Fig. 6, is a detached perspective view of one of the pivoted hooks.

We claim:

1. The combination of a rod; a two-part head coupled to the rod, each of said parts having radial slots and sockets on each side of the slots; with a series of hooks mounted in the slots of the head and having pivot projections adapted to the sockets.

2. The combination in a device for removing obstructions from drain pipes, of a rod; a head coupled thereto; and a series of rearwardly extending hooks pivotally mounted in the head and having sharp points extending in advance of the head.

3. The combination of a rod; a head, said head having radial slots therein; hooks pivotally mounted in the slots and having sharp points at one end beyond the pivots and rounded extensions at the rear of the pivots, so that, when the device is expanded, the rounded portions of the hooks will bear against the inner wall of the pipe.

4. The combination of a rod; a coupling attached to the rod; a two-part head; an integral stem on one of said parts; the other part having a hole through which the stem extends, said stem being attached to...
the coupling; each of said parts of the head having radial slots; sockets in the side walls of the slots; a series of hooks in the slots; and pivot projections adapted to the sockets; said hooks being sharp at one end and rounded at the other end.

In testimony whereof, we have signed our names to this specification, in the presence of two subscribing witnesses.

HARRY E. ASBURY.
WILBUR C. ATKINSON.

Witnesses:
Jos. W. Gates,
L. G. Hartman.