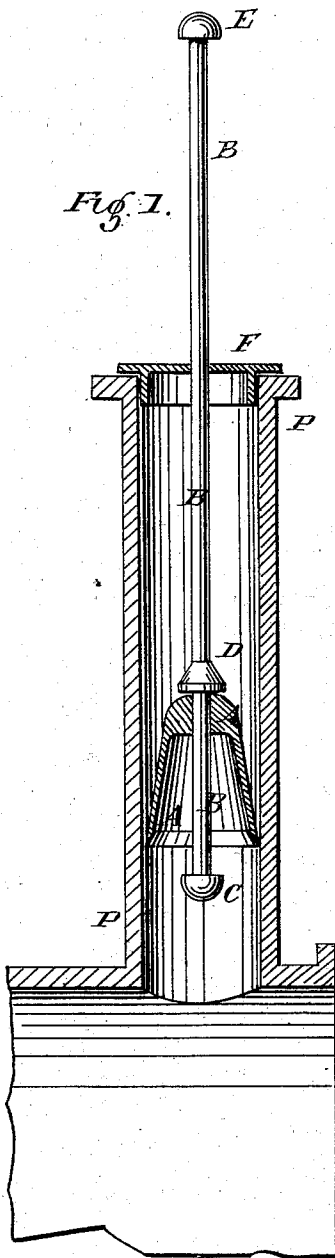
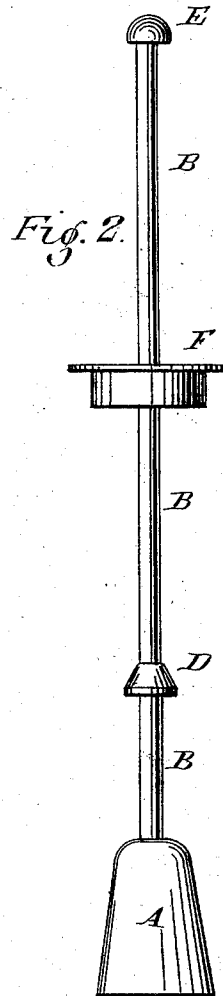


(No Model.)

J. CLARK.
CLEARER FOR PIPES.

No. 283,205.

Patented Aug. 14, 1883.



WITNESSES:

Chas. Nida
C. Sedgwick

INVENTOR:

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UNITED STATES PATENT OFFICE.

JOHN CLARK, OF NEW YORK, N. Y.

CLEARER FOR PIPES.

SPECIFICATION forming part of Letters Patent No. 283,205, dated August 14, 1883.

Application filed April 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN CLARK, of the city, county, and State of New York, have invented a new and useful Improvement in Clearers for Stand-Pipes of Gas-Works and other Pipes, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a sectional side elevation of my improvement, illustrating its use. Fig. 2 is a side elevation of the same.

The object of this invention is to facilitate the removal of the carbon deposited upon the inner surfaces of the stand-pipes of gas-works.

The invention consists in a pipe-clearer made with a cutter having central perforation to receive a rod, which is provided with collars above and below the cutter, to adapt the said rod to serve as a hammer to force the cutter through the pipe. The rod is also provided with a cap to keep it in the center of the pipe while the tool is being used, as will be herein-after fully described.

A represents a cutter, which is made cup-shaped, and of such a diameter at its edge as to fit into the pipe P to be cleared of carbon. The bottom of the cutter A is made thick, and is perforated to receive the rod B, which is made of such a length as to extend through the stand-pipe P, and of such a size as will give it sufficient weight to serve as a hammer for forcing the cutter through the said pipe.

Upon the rod B, above and below the cutter

A, and at such a distance apart as will give the rod sufficient movement for a blow, are welded or otherwise secured two collars, C D, and upon the upper end of the said rod is secured a third collar, E.

Upon the upper part of the rod B, between the collars D E, is placed a cap, F, to fit upon the upper end of the pipe P, and serve as a guide to center the said rod in the said pipe when the tool is being used.

In using the tool the cutter A is inserted in the upper end of the pipe P, and the rod B is moved up and down, the weight of the said rod causing the collar D, as it strikes the bottom of the cutter A, to serve as a hammer to force the said cutter through the pipe.

When the tool is to be withdrawn, the collar C serves as a hammer for driving the cutter A out of the pipe.

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

1. A pipe-clearer made substantially as herein shown and described, and consisting of the cutter A, the rod B, having collars C D, and the centering-guide F, as set forth.

2. In a pipe-clearer, the combination, with the cutter A, having central perforation, of the rod B, having collars C D, substantially as herein shown and described, whereby the said rod and the collars will serve as a hammer for forcing the cutter through the pipe, as set forth.

JOHN CLARK.

Witnesses:

G. E. DILLINGHAM,
CHAS. I. CLARK.