

J. Curran,

Fire Plug.

No. 99646.

Patented Feb. 8. 1870.

Fig-1

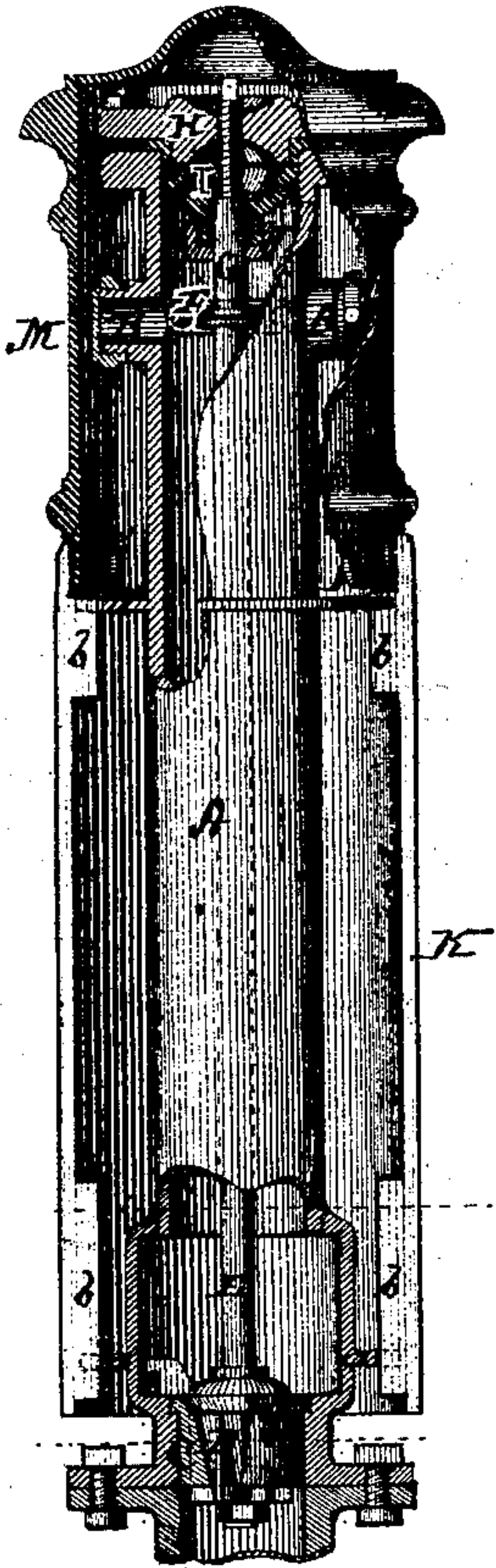


Fig 2

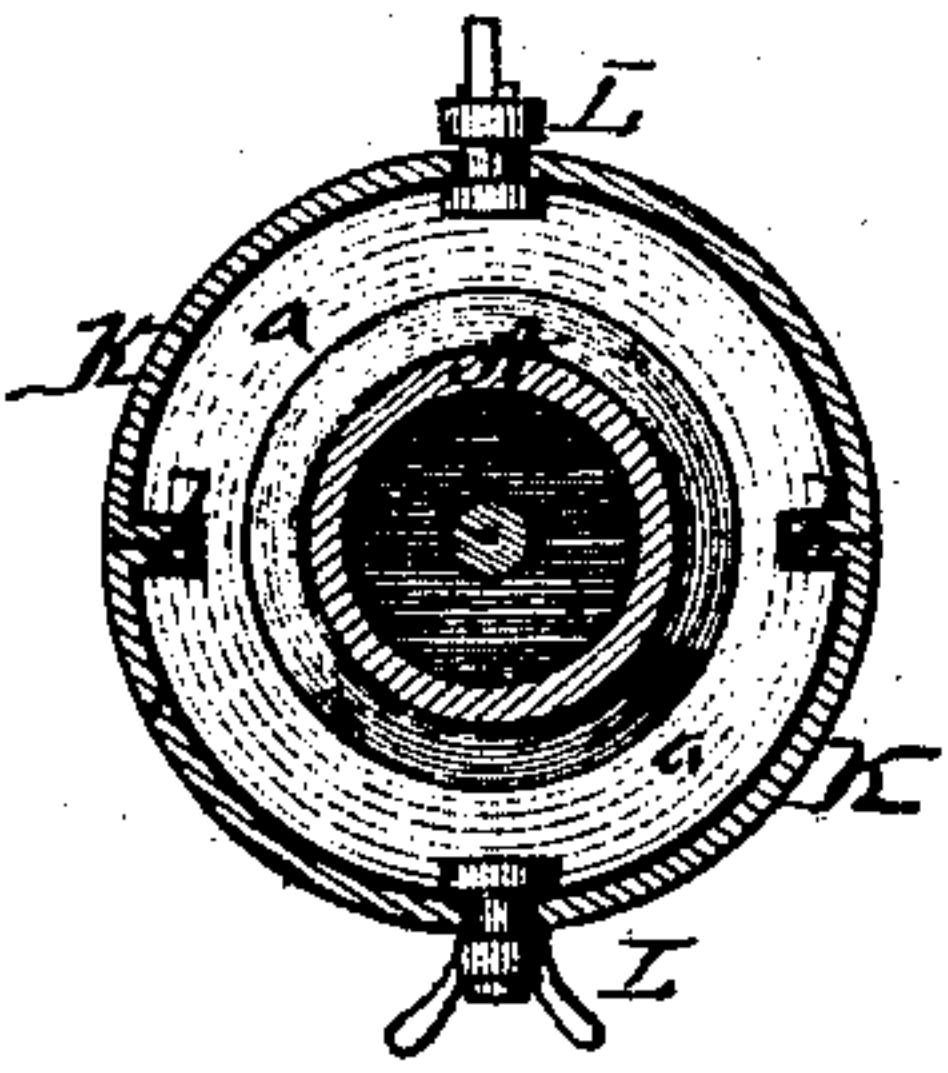


Fig 3



Fig 4



Witnesses.

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JAMES CURRAN, OF BALTIMORE, MARYLAND.

Letters Patent No. 99,646, dated February 8, 1870.

IMPROVEMENT IN FIRE-PLUGS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JAMES CURRAN, of Baltimore, in the county of Baltimore, and in the State of Maryland, have invented certain new and useful Improvements in Fire-Plugs; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the construction and general arrangement of a "fire-plug," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, in which—

Figure 1 is a vertical section, showing a portion of the inside casing or tube also in section;

Figure 2 is a horizontal section;

Figure 3 is a plan view of the joint for the valve-stem or rod; and

Figure 4 is a horizontal section of the valve-seat.

A represents the inner casing or vertical column, through which the water passes, and is allowed to be discharged through the apertures B B.

At the lower end of the column A is the valve-seat C, provided with grooves, as shown in fig. 4, for the insertion of the wings of the valve D.

The valve-rod E is, at its upper end, provided with a circular flange, which is inserted in the box F from the under side.

From the upper side of the box F, a screw-rod, G, extends upward through the cap H of the column A.

The screw-rod G is, at its lower end, within the box F, provided with a circular flange, which confines this end within the box, so that the screw-rod G may be turned in either direction, without causing the valve-stem E to revolve, but allowing it to be raised or lowered, so as to open or close the valve.

Between the upper end of the vertical column or inner casing A and the cap H is clamped a cup, I, through which the screw-rod G passes. This cup I is

very convenient to contain the oil for the screw, and at its bottom is a packing-box, J, which also serves as a guide for the valve-rod.

The inner casing A is, at suitable points, provided with two horizontal circular collars *a a*, which have slots through their edges, as seen in fig. 2. These slots serve to hold the outer casing K, which is made in two halves, and have flanges *b b* at their inner edges. These flanges connect in the slots in the collars *a a*, and hold the two halves of the casing together.

Near the lower end of the casing K are two vertical slots, in which are placed set-screws L L, the inner ends of which rest upon the lower collar *a*, so as to support the casing K. By this means, the height of the casing from the pavement is readily regulated, and when the frost comes out of the ground, the casing is permitted to rise up slightly, without disturbing the central column A, and prevent breakage.

The upper portion of the fire-plug is enclosed by the bonnet M.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The bisected casing H, provided with flanges *b b* and vertical slots, in which the set-screws L L are adjusted, substantially as and for the purposes herein set forth.

2. The combination of the central column A with collars *a a*, and the bisected casing K with flanges *b b* and set-screws L L, all substantially as and for the purposes herein set forth.

3. The cup I and box J, secured, as described, between the column A and cap H, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 5th day of February, 1869.

JAS. CURRAN.

Witnesses:

J. W. STOOPS,
J. M. MASON.