

J. W. Marshall,

Hydrant

N^o 84,202.

Patented Nov. 17, 1868.

Fig. 1

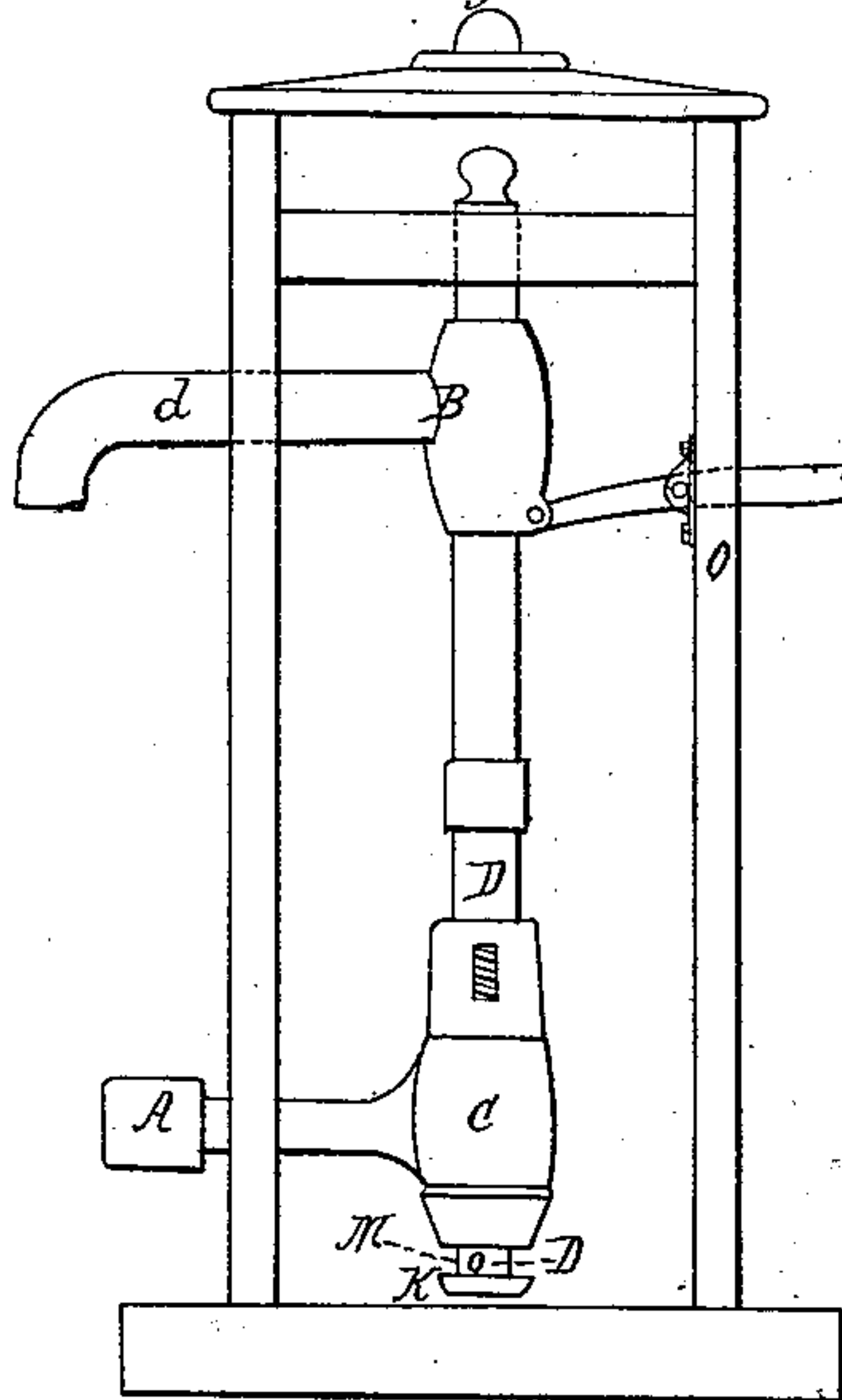


Fig. 2

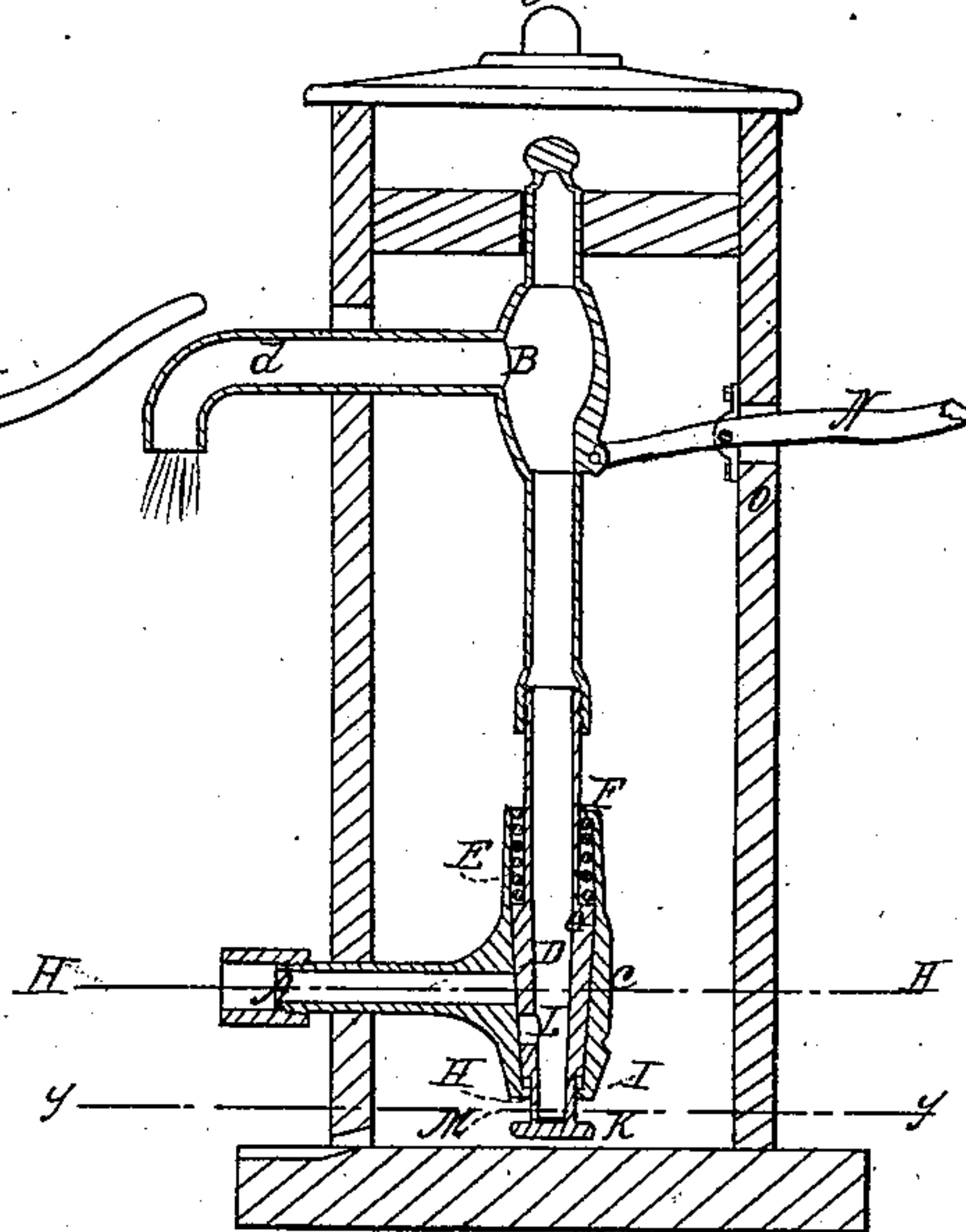


Fig. 3

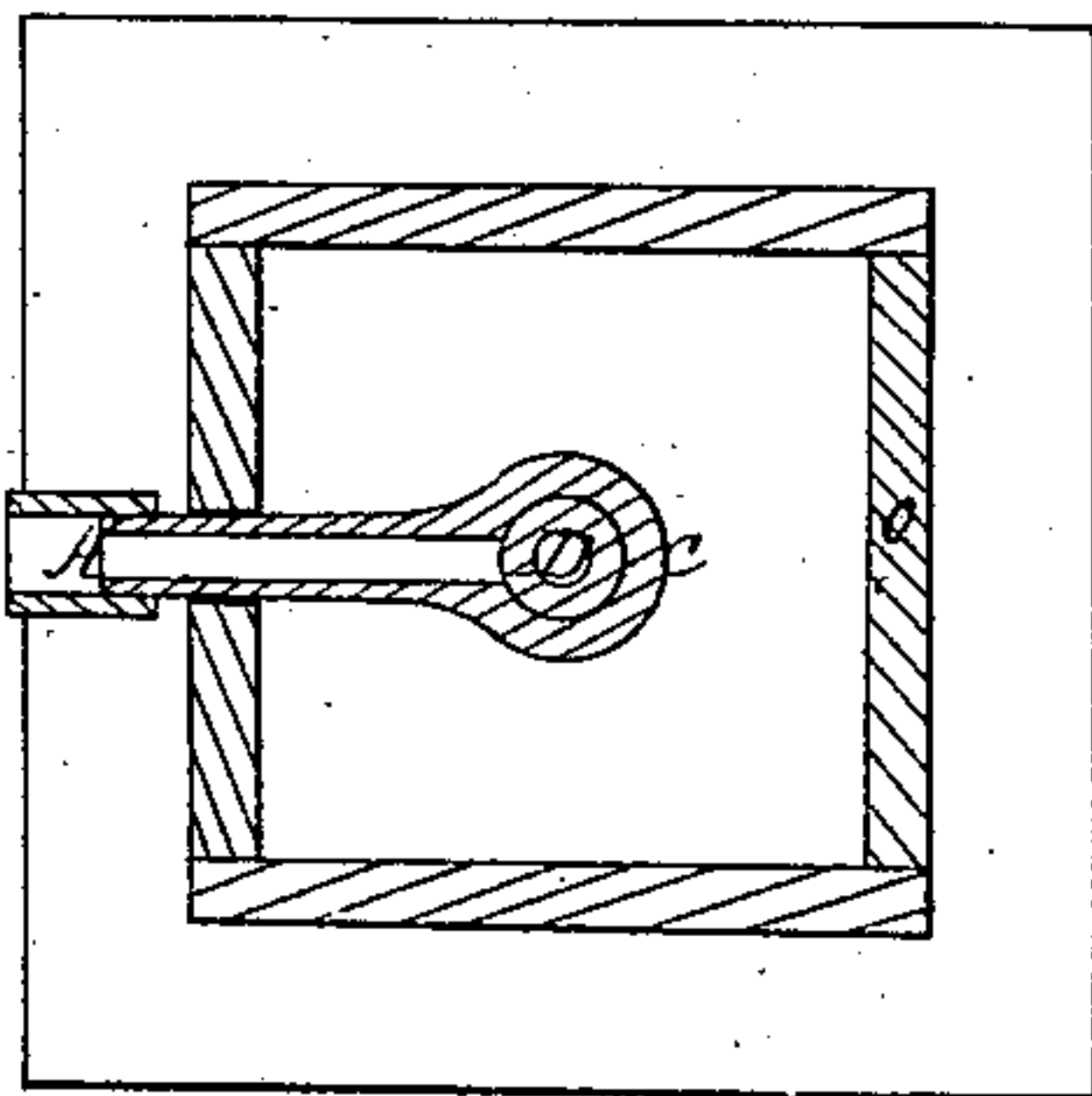
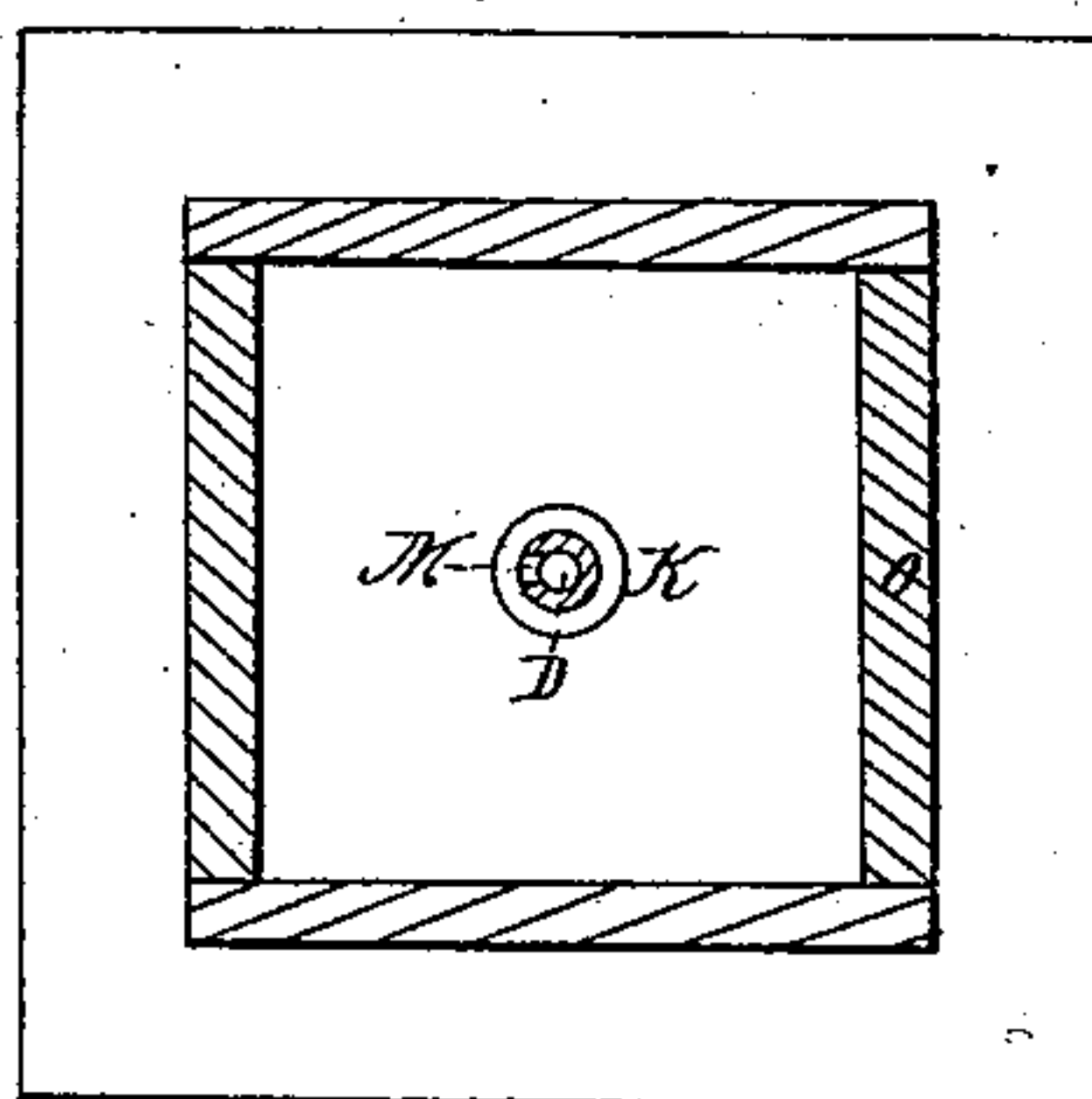


Fig. 4



Witnesses:
A. Still
R. Langmuir

Inventor:
Joseph W. Marshall

United States Patent Office.

JOSEPH W. MARSHALL, OF WILLIAMSBURG, NEW YORK.

Letters Patent No. 84,202, dated November 17, 1868.

IMPROVEMENT IN HYDRANTS.

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, JOSEPH W. MARSHALL, of Williamsburg, Kings county, and State of New York have invented a new and useful Improvement in Hydrants; and do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, of which—

Figure 1 represents an elevation of my invention, with part of enclosing case removed;

Figure 2, a vertical section;

Figure 3, a horizontal section, on line *x x*; and

Figure 4, a horizontal section, on line *y y*.

This invention relates to a novel and simple construction of a hydrant, and consists in arranging the discharge-pipe in such relation to the main supply-pipe as to cut off the supply of water from the main pipe until required for use, and after use, free the discharge-pipe from waste water by an aperture in the base of the discharge-pipe, thereby preventing the effects of freezing by the action of the discharge-pipe itself, rendering the hydrant automatic and self-protecting against frost.

In the said drawings, A denotes the water-main, connected with the discharge-pipe B, by a pipe-coupling or plug-seat, C. This coupling embraces the plug D of the discharge-pipe, and contains a spiral spring, E, which is kept in place by a cap, F, (screwed on to the coupling,) and a shoulder, G, on the plug. The coupling has also a shoulder, H, which receives a leather packing, I, on which the said plug rests.

The plug D tapers between the shoulder G and the packing I, and extends beyond the coupling C, and has a check, K, on its lower end. The said plug has also an inlet-opening, L, for supply, and an outlet-opening, M, for discharge of the waste water after the

supply is obtained. (See fig. 2.) The said plug D and discharge-pipe B, which constitute one piece, are pivoted in the case at top, the nozzle *d* resting on the case, and are operated by a lever or handle, N, attached to the case O, and to the said discharge-pipe B, as shown in fig. 2 of the drawings.

The operation of my hydrant is as follows, viz:

When it is desired to draw water from the hydrant, I merely lay hold of the lever N, and leaning on the same, raise the discharge-pipe B D until the check K abuts against the plug-seat C, when the main inlet-opening L will be brought in communication with the main supply-pipe A, and the required quantity drawn through the nozzle. In the mean time the waste-discharge opening M will be closed, and when the desired supply is obtained, on letting go the lever N, the plug D will be returned to its original position by the action of the spiral spring E, shutting off the supply from the water-main, and opening the waste-discharge M. And thus I produce a hydrant simple in construction, self-acting, and protecting against the effects of frost, and not liable to get out of order.

Having described my invention,

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

The plug D, with openings of supply, L, and waste-discharge, M, in combination with the plug-seat C, spiral spring E, and hand-lever N, operating together in manner substantially as and for the purposes described and set forth.

In testimony whereof, I have hereunto set my signature, this day of July, A. D. 1868.

JOSEPH W. MARSHALL.

Witnesses:

A. NEILL,

R. SANGMEISTER.