J. GRAHAM.
Faucet.

No. 197,117. Patented Nov. 13, 1877.

FIG. 1.

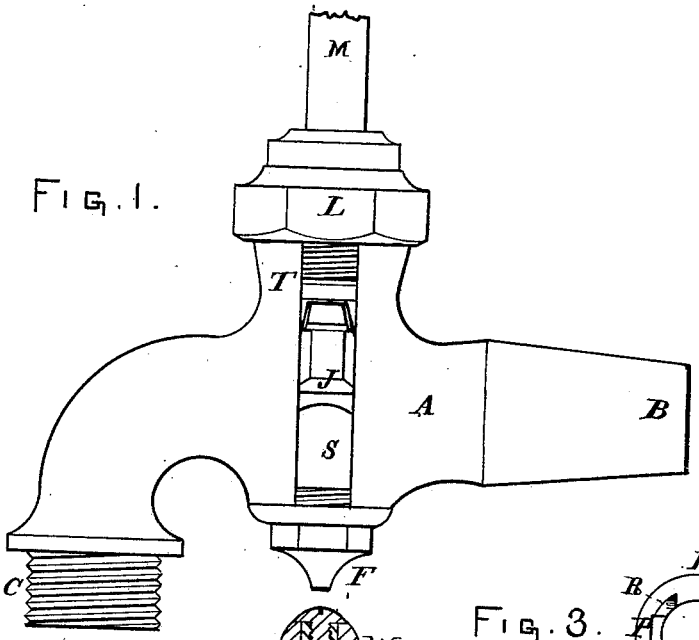


FIG. 3.

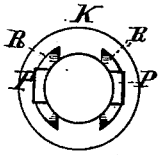


FIG. 4

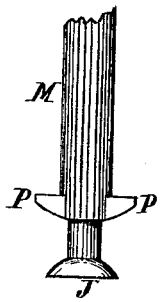
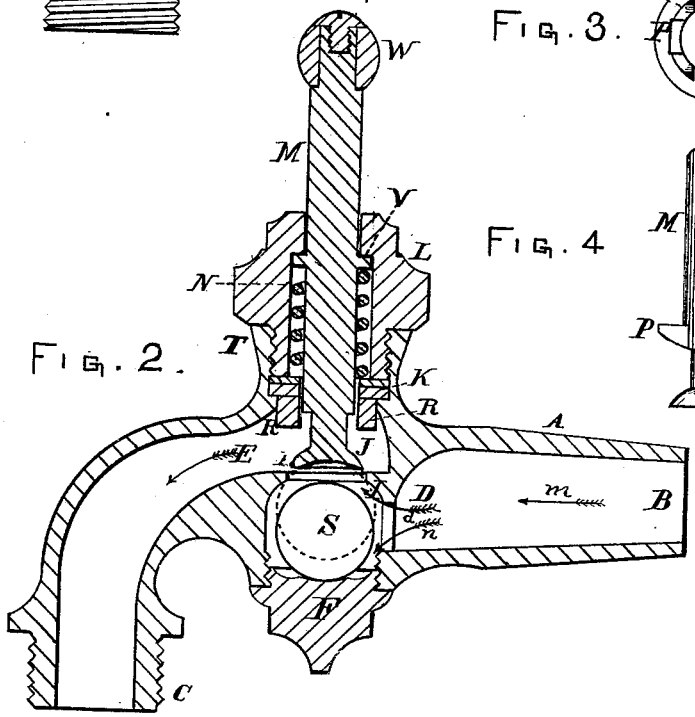


FIG. 2.



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UNITED STATES PATENT OFFICE.

JOHN GRAHAM, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN FAUCETS.

Specification forming part of Letters Patent No. **197,117**, dated November 13, 1877; application filed March 13, 1877.

To all whom it may concern:

Be it known that I, JOHN GRAHAM, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Faucets, of which the following is a specification:

The present invention relates to an improvement in that class of faucets more especially used for water-pipes; and its nature consists in a valve which is made to stop the flow of water by its pressure, in combination with a compression-plunger, which may be used to draw water so long as the hand is used to push the valve down, or to cause a continuous flow of water by being forced down by the hand, and locked by turning it a fourth round. By this means all the faucets in a house will allow the water in their respective pipes to run out at the waste-port when the water is turned off at the main below, and so soon as the water is turned on the valve will be forced up to close the port.

I do not claim that a globe or ball is new, except in the combination hereinafter claimed.

In the drawings, Figure 1 is an elevation of my improved faucet with a portion of the side broken away to show the internal parts; Fig. 2, a central longitudinal vertical section of Fig. 1; Fig. 3, an inverted view of the plunger and cams on which the prongs of the plunger lock, and Fig. 4 a broken elevation of the plunger removed from the faucet.

A represents an ordinary faucet-pipe, B being the end to be attached to the supply-pipe, and C the discharge end. A chamber is formed above the plug F, below the port I I and those parts of the case or shell shown at A C, of suitable size to hold a valve, S, and permit water, when the valve is held down or compressed, to pass freely from the pipe D, through port I I, and out at pipe E. This valve S is to be made of any suitable material, rubber being preferred, and above it is placed a plunger, M J, which, when pushed down by placing the hand on a handle, W, will permit a flow of water from pipe D through ports I I, and will, when under pressure of water, and not operated on by the plunger M J, be forced up to close said port.

The shutting off of the water in the main pipe below will, by a back suction, empty all the pipes above which are provided with this faucet, the valve S permitting an air-draft back through the upper pipes. A collar, K, provided with cams R, is cast solid to the shank T, and through this collar and through a cap, L, the plunger M J has a reciprocating movement, and is held up, when the water is shut off, by a coil-spring, N, and is kept from rising too high by a collar, V, and striking a shoulder on the inside of cap L. The faucet is represented as empty; but water entering B will pass under the valve S in the direction of dart *n*, and raise it up and close port I.

To draw a little water, push down on the plunger M J; to get a continuous stream, push down on the plunger, and turn it one-fourth round, so as to bring the prongs P P under the cams R, as shown in inverted position, Fig. 3. In practice, this valve S and plunger M could be placed in the horizontal part of the faucet.

I claim and desire to secure by Letters Patent—

The plunger M J, provided with arms P, in combination with the faucet and collar K, cams R R, and valve S, as and for the purpose set forth.

JOHN GRAHAM.

Witnesses:
O. H. ADIX,
G. L. CHAPIN.