J. B. FISH.

Hydrant and Street Washers.

No. 200,043. Patented Feb. 5, 1878.

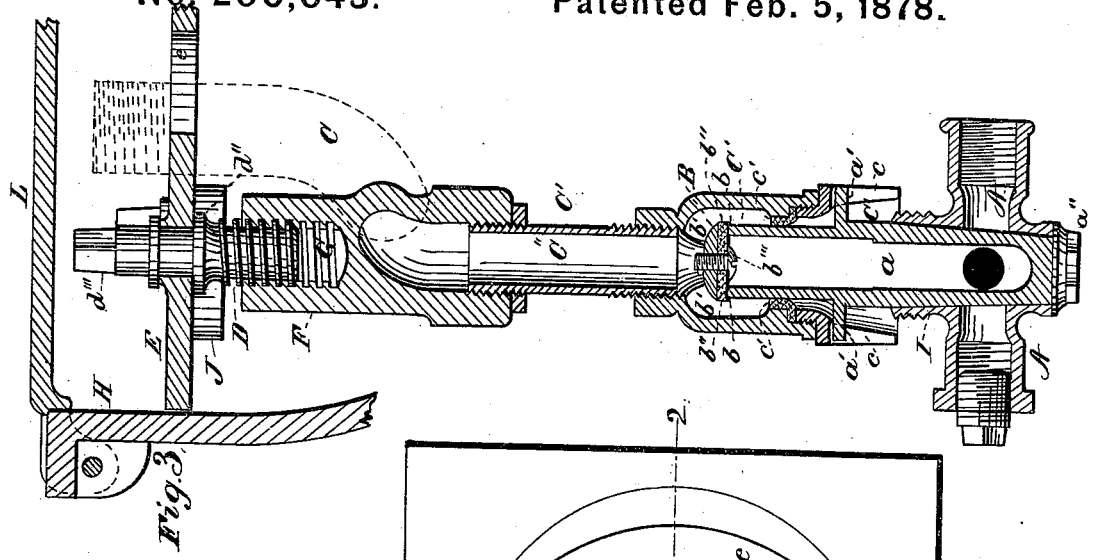

Fig. 3.

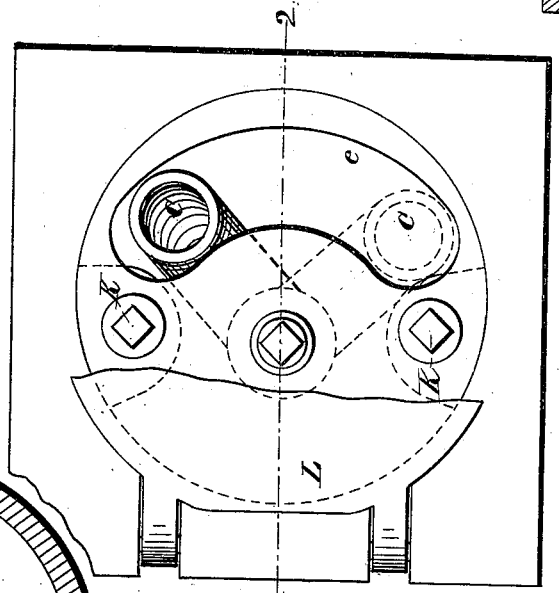

Fig. 1.

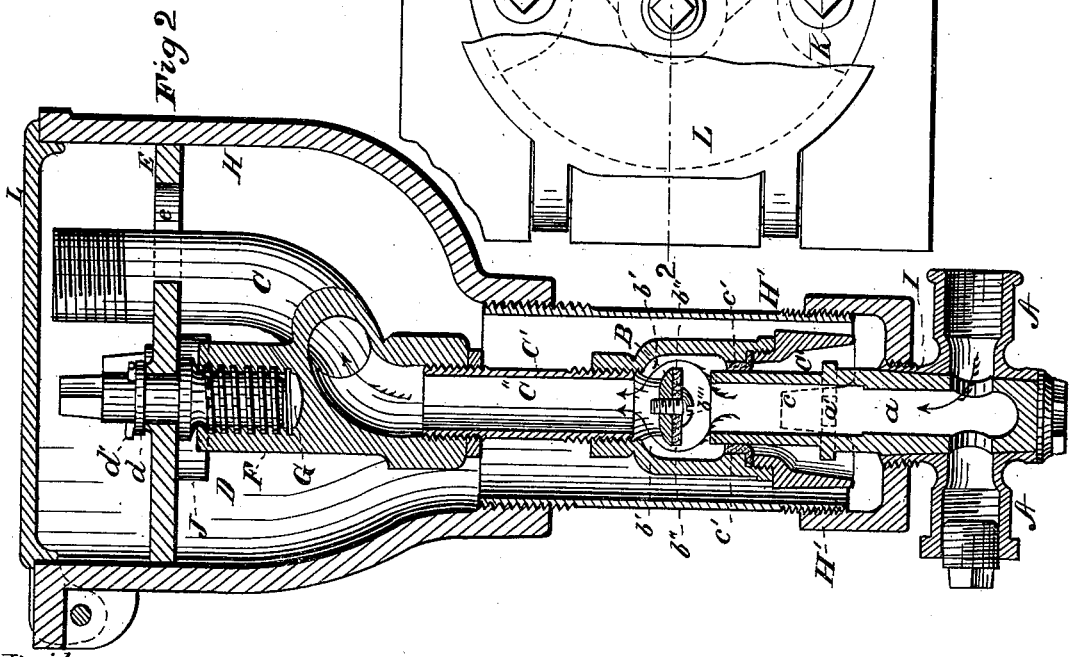

Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

JOHN B. FISH, OF PROVIDENCE, PENNSYLVANIA.

IMPROVEMENT IN HYDRANT AND STREET-WASHER.

Specification forming part of Letters Patent No. **200,043**, dated February 5, 1878; application filed July 30, 1877.

To all whom it may concern:

Be it known that I, JOHN B. FISH, of Providence, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Hydrant and Street-Washer, of which the following is a specification:

My invention relates to a hydrant or street-washer whose supply-pipe is so constructed as to form a key for shutting off the water by turning the plug of a stop-cock.

My improvement consists, first, in a hydrant or street-washer whose supply-pipe is provided with a compression-valve, and is adapted to be turned to open or close the stop-cock.

My improvement consists, secondly, in combining, with a stop-cock having a hollow plug provided with wings or lugs, a supply-pipe recessed so as to engage with the lugs on the plug to turn off the water.

My improvement consists, thirdly, in combining, with a compression-valve constructed with passage-ways for the liquid, an adjusting-screw and a hollow plug of a stop-cock.

My improvement consists, fourthly, in a supply-pipe which is swiveled to a plate slotted for the passage of the pipe.

My improvement consists, fifthly, in a hydrant or street-washer consisting of a stop-cock having a hollow plug provided with lugs or wings, a compression-valve, a supply-pipe, a screw for adjusting the valve, and a slotted plate, as hereinafter described.

In the accompanying drawings, Figure 1 is a top view of my improved hydrant or street-washer, a portion of the lid or cover being broken off to show the mode of securing the slotted plate and the extreme positions of the pipe. Fig. 2 is a sectional elevation on the line 2 2, Fig. 1, the stop-cock and compression-valve being open. Fig. 3 is a sectional elevation on the line 2 2, Fig. 1, the stop-cock and compression-valve being closed. A portion of the case is removed.

Similar letters of reference indicate corresponding parts in the different figures.

A represents a stop-cock, by which the hydrant or washer is connected to the service-pipe. The cock is furnished with a hollow plug, *a*, having wings or lugs *a'*, adapted to engage in recesses in the supply-pipe.

C is the supply-pipe, whose lower end is enlarged so as to form a cylinder, C', having recesses *c* for the lugs *a'*. Within this cylinder is secured a packing, *c'*, forming a tight joint between the hollow plug *a* and the cylinder.

The top of the cylinder is partially closed by a valve, B, whose seat is the end *b* of the plug. The valve is constructed with passage-ways *b'*. Attached to its face is a washer, *b''*, secured by a suitable screw, *b'''*.

The upper end of the pipe C is curved outwardly and upwardly. In line with the straight portion C'' of the pipe is a coupling-piece, F, having a screw-threaded socket, G, for a screw-bolt, D, which is swiveled to a plate, E.

The bolt D has a shoulder, *d''*, which bears upwardly against the plate E, and is secured to the plate by means of a key-piece, *d'*, working on a washer, *d*.

The plate E is secured to lugs J on the casing H by means of bolts K, preferably provided with screw-threads, so that the plate may be readily detached from the lugs when it is desired to remove the inside parts for any purpose.

The upper end of the pipe C projects through a slot, *e*, in the plate E, the slot being of sufficient length to permit the pipe to be moved far enough to open or close the cock A.

The device is inclosed in a case or shell, H, secured to the vertical arm I of the stop-cock, and may be provided with a hinged cover, L.

The hollow plug is secured to the cock by means of a burr, *a''*.

The screw D has an angular head, *d'''*, by which it is adjusted to open or close the valve B.

The lower portion H' of the case forms a guide to direct the lower portion of the pipe to its place.

When it is necessary to remove the inside parts the pipe C is turned so as to cut off the water. If the flow of water through the pipe is to be stopped or regulated, the screw D is raised or lowered by a suitable key.

To take the device apart the two bolts K on each side of the screw are removed, when the whole of the inside parts can be taken out. The burr *a''* at the bottom of the cock A is unscrewed, and then the cock. The case H is then turned top downward, when the winged plug will fall out.

The advantages of this form of hydrant or

street-washer are, first, its simplicity and cheapness; secondly, it allows the working valve to be repaired without digging up the street or going to some other place to shut off the water; thirdly, it can be used as an ordinary shut-off when it is necessary to make any repairs to the pipes in the house, or by the water company to cut off the water from the house and premises.

Having thus described my invention, the following is what I claim as new, and desire to secure by Letters Patent:

1. A hydrant or street-washer having a supply-pipe provided with a compression-valve, and adapted to be turned to open or close the stop-cock, as and for the purpose set forth.

2. The combination of stop-cock A, having hollow plug *a*, provided with wings or lugs *a'*, and the supply-pipe C, having recesses *c*, as and for the purpose set forth.

3. The compression-valve B, constructed with passage-ways *b'*, in combination with the hollow plug *a* and adjusting-screw D, as and for the purpose set forth.

4. The pipe C, adapted to turn the plug *a*, and swiveled to the slotted plate E, as and for the purpose set forth.

5. The combination of stop-cock A *a a'*, compression-valve B, pipe C, screw D, and slotted plate E, as and for the purpose set forth.

JOHN B. FISH.

Witnesses:
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