

D. W. GOODELL.

FAUCET.

No. 169,988.

Patented Nov. 16, 1875.

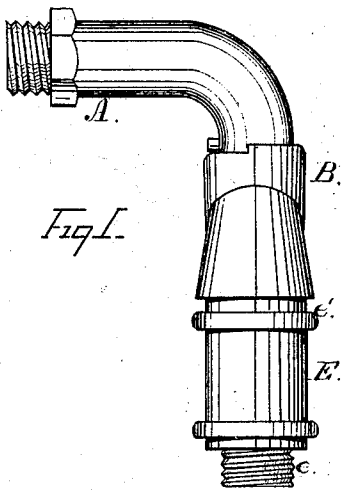


Fig. 1.

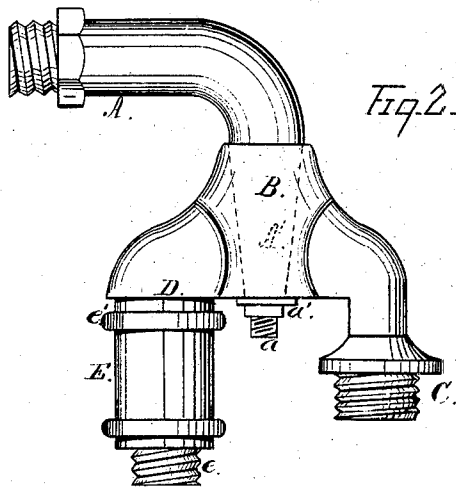


Fig. 2.

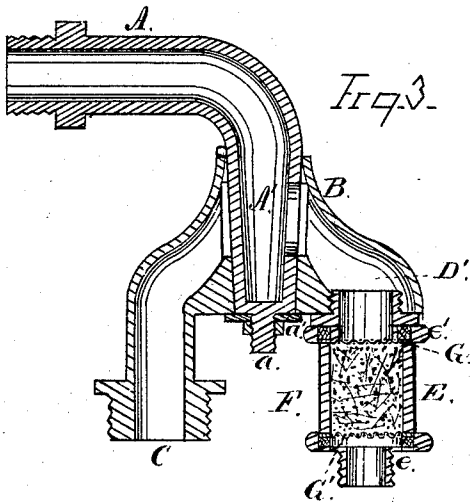


Fig. 3.

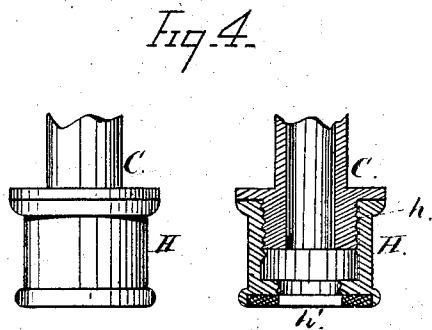


Fig. 4.

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UNITED STATES PATENT OFFICE.

DEXTER W. GOODELL, OF FLORENCE, MASSACHUSETTS.

IMPROVEMENT IN FAUCETS.

Specification forming part of Letters Patent No. 169,988, dated November 16, 1875; application filed

October 11, 1875.

To all whom it may concern:

Be it known that I, DEXTER W. GOODELL, of Florence, in the county of Hampshire and State of Massachusetts, have invented certain new and useful Improvements in Faucets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to faucets or bib-cocks; and consists of a peculiar construction of the delivery mouth or end of the faucet, whereby, by turning the part around in one direction, an ordinary bib is made, and in the other or reverse direction, a filtering-faucet is obtained. The object of my invention is to provide a simple and convenient combined filter and ordinary faucet or bib cock, whereby, by simply reversing the position or turning around the end of the faucet, either the water is filtered or else is delivered in the ordinary manner, as may be desired. The movable or rotary end of the faucet forms of itself the valve, by turning which half-way around, either to the right or left, the parts are opened, or closed when quarter-way around, or at right angles to that when open; all constructed and arranged substantially as and for the purposes as hereinafter more fully and at large will appear.

Referring to the drawings, Figure 1 is a side elevation of the device, showing the faucet in its entirely-closed position; Fig. 2, the same, showing the ordinary hose-bib or faucet, as in use; Fig. 3, a vertical longitudinal section of the same, showing the hose-bib as turned around in a reverse direction, as that shown in Fig. 2, and as closed, and the device in use as a filtering-faucet. Fig. 4 is a view of a portion of the ordinary hose-bib, with a movable collar or connection thereon, to adapt it to receive the filter.

A is a bent pipe, which connects with the ordinary service-pipe formed at its end into a spigot, A'. Turning on this spigot and secured thereto in the usual manner of securing the spigots to the faucets by screw end *a*, and washer and nut *a'*, is the delivery mouth or

body B. This body or part is formed with a central portion, B, through which the spigot A' of the pipe A passes, and is secured—at one side into an ordinary hose-bib, C, and at the other or opposite side with merely a flat face, D, with an opening, D', therein. E is a filtering-chamber constructed alike at each end with screw-heads *ee'*, adapted to fit within the screw-hole D' in the head B, the one, *e'*, being removable for cleaning the interior of filter. Within this chamber E is the filtering material F, consisting of sponge, charcoal, gravel, or any other suitable and appropriate material. At each end are fine wire-gauze screens, G G', held down in position, the one, G', by the filtering material F, and the other, G, by the screw-head *e'*, which presses against the one, G, and holds it and the other parts in place. H is a hollow cylinder or collar constructed at one end with a large screw-mouth or opening, *h*, adapted to fit the hose-bib C, and at the other side with a smaller screw-opening, *h'*, adapted to fit the end or heads *e* of the filter E. By this means the filter may be used on the ordinary hose-bib now in use.

The operation of the device is as follows: The parts being turned in the position as shown in Fig. 1, if the ordinary flow of water is desired the head B is turned to the left, so as to bring the spout C around in front, which opens the passage through the device and allows the water to escape. When filtered or pure water is desired the part with the filter attached is brought around to the right in front, when the passage is again opened, and the water passes through the filter, and is purified. By this construction and arrangement of parts there is no place for the water to settle and corrode the device, the water always being kept back into the pipe or spigot and not in the cock.

The device is simple, convenient, and not liable to get out of order or become easily injured.

The filter is made alike at both ends, so that after using it awhile in one position it can be removed and reversed end for end, and the sediment washed out.

The collar H adapts the filter to be used on the faucet or bib-cocks now in use, whether

filtering or not, provided they have the ordinary hose-bib.

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

1. A filtering-faucet, wherein the delivery end or mouth is turned to open the passage to the filter or ordinary delivery-nozzle, or forms the cock or valve to the device, as described.

2. In a filtering-faucet, in combination with the downwardly-bent spigot A, the head B, constructed on one side with an ordinary hose-bib, and at the other with a filtering chamber or end, whereby, by turning the head around in one direction, filtered water may be obtained, or in the other direction the ordinary flow, as and for the purpose described.

3. The filtering-chamber E, constructed alike at both ends, with screw-head *e* and removable screw-head *e'*, and provided in its interior with central filtering material F and wire-gauze screens G at each side of the filtering material, as and for the purposes described.

4. The combined filter and faucet constructed with two separate delivery-mouths, adapted to be used separately and independently of each other by operating or bringing the delivery head or end itself around in position to open the passage through the spigot and head, as and for the purposes described.

5. In combination with the ordinary hose-bib C and filtering-chamber E, the cylinder H, constructed with a large screw-mouth, *h*, at one end, and a smaller opening, *h'*, at the other, as and for the purposes described.

6. The combination, in a filtering-faucet, of spigot-pipe A, ordinary hose-bib C, delivery end D, and filter E, as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 6th day of October, 1875.

DEXTER W. GOODELL. [L. S.]

Witnesses:

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