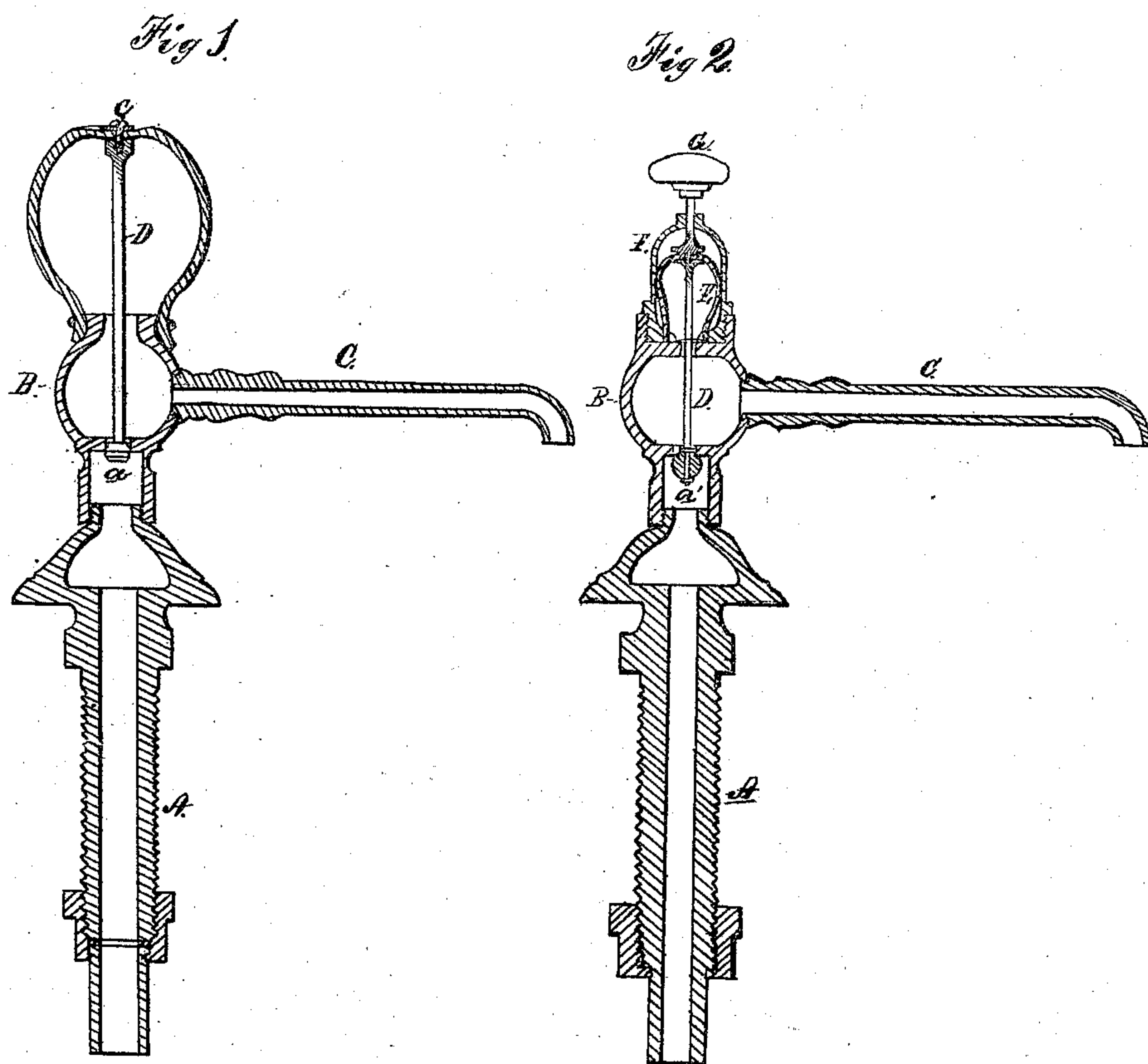


A. D. DAVIS.

Basin-Cocks.

No. 130,570.

Patented Aug. 20, 1872.



Witnesses.

*E. Barker Clark*

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# UNITED STATES PATENT OFFICE.

ALBERT D. DAVIS, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN BASIN-COCKS.

Specification forming part of Letters Patent No. 130,570, dated August 20, 1872.

### *To whom it may concern:*

Be it known that I, ALBERT D. DAVIS, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Basin-Cocks; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a vertical section of the simpler form of my basin-cock, which is provided with a metallic valve; and Fig. 2 is a similar section of a more complete device provided with a rubber-ball valve.

The nature of this invention relates to an improvement in that class of cocks whose valves are held closed by the pressure of the water in the service-pipe, and is more especially applicable to basin-cocks and other like water-fixtures. The invention consists in securing the top of the valve-stem to an elastic and flexible bulb secured to the top of the valve-globe to serve as a spring for automatically closing the valve; also, in connection therewith, a cap or case to inclose the bulb, through which the valve-stem projects; and also, through the top of the case, where it is provided with a knob, by which the bulb may be compressed and the valve opened, as more fully hereinafter set forth.

In the drawing, A represents the collar-stem of a basin-cock, to the top of which is screwed the valve-globe B, from one side of which a bibb, C, issues. D is the valve-stem, having a brass valve, *a*, Fig. 1, or a rubber-ball valve, *a'*, Fig. 2, secured to its lower end, and closing against a seat in the diaphragm *b* at the bottom of the globe, the top of which is open, and up above it the stem extends, attaching to the apex of a rubber bulb, E, by a screw, *c*, and washer inserted from the outside, while the lower flange of the bulb or neck is secured about the flange of the globe. The valve-stem should be of such length that before the bulb will have expanded to its normal form the valve will be seated, so that the bulb will serve as a spring to keep the valve

closed, in addition to whatever pressure the water in the service-pipe may exert on the under side thereof.

To draw water through this cock, compress the bulb until the required amount is drawn, and then remove the pressure, when the tendency of the bulb to resume its normal form will cause it to seat the valve, which is tightened in its seat by the pressure below.

Fig. 2 shows a more convenient and finished form of the device, the features of which are the same as in the other so far as the bulb and its office are concerned. In this form the bulb is inclosed in a metallic case or cap, F. The stem is extended up through the bulb and cap to receive a knob, G, by which the valve-stem is pressed down to open the passage to the bibb, compressing the bulb at the same time. Where the stem passes through the bulb it is threaded to receive a pair of screw-collars or washers, one of which is screwed up against the inner side of the bulb, and the other down against the top thereof, to compel its compression, and at the same time to prevent leakage.

In cold weather, when it is found necessary to draw off the water from the pipes of a house to prevent them from freezing up, these valves will automatically open from the external atmospheric pressure and allow the pipes to empty themselves without the necessity of going to each cock and open it for that purpose.

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

1. The valve-stem D, having a downward-opening valve, *a*, at the lower end, closing against a seat, *b*, in the globe B, and secured to the apex of an elastic bulb, E, mounted on said globe, as and for the purpose set forth.

2. The combination of the rod D, bearing knobs G, shell F, bulb E with the cock A, all constructed as described, for the purpose set forth.

ALBERT D. DAVIS.

Witnesses:

WM. H. LOTZ,  
EMILE WAGNER.