

W. C. Wise & J. Ashman, Faucet.

112000

Fig. 1.

PATENTED FEB 21 1871

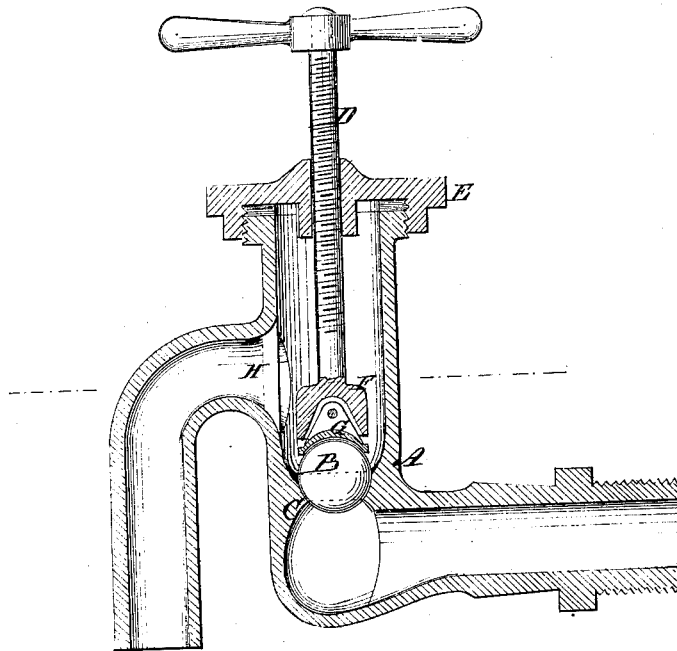
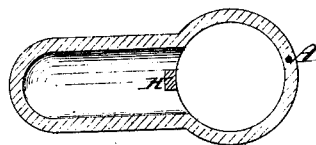


Fig. 2



Witnesses:

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J. Ashman
per *Munn & Co.*
Attorneys.

United States Patent Office.

WILLIAM CROSBY WISE AND JOHN ASHMAN, OF CHELSEA, MASSACHUSETTS.

Letters Patent No. 112,000, dated February 21, 1871.

IMPROVEMENT IN FAUCETS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, WILLIAM CROSBY WISE and JOHN ASHMAN, of Chelsea, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Faucets; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to new and useful improvements in faucets for the discharge or stoppage of water, steam, or gas; and

It consists in the use of an elastic floating ball-valve, which is pressed to its seat by a screw-stem or spindle, upon the end of which is an adjustable cone for bearing on the valve.

It also consists in a cross-bar on the discharge-orifice, the whole arranged and operating as hereinafter more fully described.

In the accompanying drawing—

Figure 1 represents a vertical central section of the faucet-shell, with the valve and rod arranged according to our invention.

Figure 2 is a cross-section of fig. 1, taken on the line *xx*.

Similar letters of reference indicate corresponding parts.

A is the shell or casting.

B is a ball of rubber or other elastic substance, which rests, when closed, in the seat C.

D is the rod, which works with a screw-thread through the cap E, by means of which the ball is

pressed to its seat for closing or stopping the flow through the faucet.

F is a heavy collar on the end of the rod D, in which is a conical cavity, to which is fitted and fastened, or supported loosely, so that it will adjust itself to the ball, the cup G.

When the rod is raised and the cup ceases to bear upon the ball the latter floats free beneath the cup above the seat.

H is a bar across the outlet portion of the faucet to prevent the ball from being pressed into that outlet.

It will be observed that the form of the chamber above the valve-seat is such that when the rod is screwed down the ball will be compressed and flattened so as to cover the bottom of the chamber and form a second tight valve-joint.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

1. The arrangement and combination of the elastic ball B, cup G, collar F, rod D, bar or grating H, and shell A, substantially as and for the purposes shown and described.

2. In combination with an elastic ball-valve, the self-adjusting cup G on the end of a valve rod, substantially as described and for the purposes set forth.

WILLIAM CROSBY WISE.

JOHN ASHMAN.

Witnesses:

EMERSON ROMER,

WILLIAM H. BROWN.