R. Tilly,

Faucet.

No. 104,663. Patented June 21. 1870.

Figure 1.

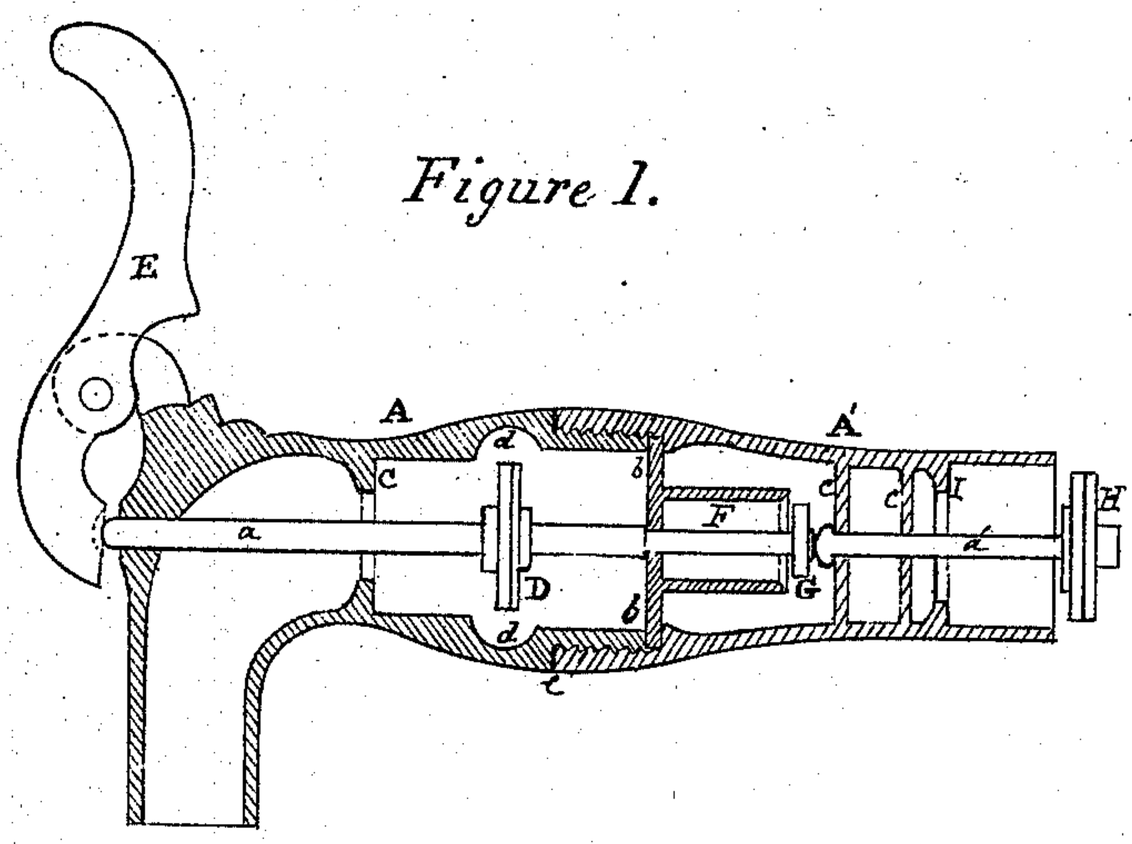
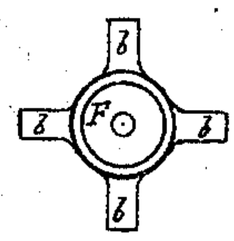


Figure 2.



Witnesses.

G. H. Baker

Thomas C. Bowen

Robert Tilly

Inventor.

United States Patent Office.

ROBERT TILLY, OF BROOKLYN, NEW YORK.

Letters Patent No. 104,663, *dated June* 21, 1870.

IMPROVEMENT IN FAUCETS.

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

I, ROBERT TILLY, of Brooklyn, in the county of Kings and State of New York, have invented certain Improvements in Self-closing Faucets, of which the following is a specification.

The first part of my invention relates to the combination of a draught-valve and a cylinder and piston, so arranged in a self-closing draught-faucet, for use where there is a considerable head or pressure of water from the reservoir, as to insure a slow and easy closing of the valve upon its seat, for the purpose of preventing the usual concussion or hammer on the draught-pipe which is common to self-closing faucets; and, in addition thereto,

The second part of my invention relates to providing the faucet with a valve at the rear part thereof, whereby the fore part of the faucet may be removed, for the purpose of repairs, without the necessity of stopping the water off by the usual means of a stop-cock.

In the accompanying drawing—

Figure 1 represents my improved faucet, mostly in central vertical lengthwise section, with the valves and piston in their position as when fully opened.

Figure 2 is an end view of the cylinder F, with the piston G removed.

A is the front part of the faucet, which is secured to the rear part A′ by a screw-joint, at *e*.

F is a cylinder provided with radial arms, *b b*, by which it is held in place between the parts A A′.

C is the seat of the draught-valve.

D is the draught-valve, which is fixed upon a stem, *a*, supported at one end by passing through the closed end of the cylinder F, and by the opposite end passing through the front part of the shell of the faucet.

G is piston attached to the rear end of the rod or valve D, and is fitted snugly to the interior of the cylinder F.

E is a lever-handle on the front part of the faucet, by which the valve D and piston G are operated.

H is a valve at the rear end of the faucet.

I is the seat of valve H.

c c are bridges to support the rod *a*′ of valve H.

d is a recess in the shell of the faucet, opposite the position of valve D when it is fully open.

When the upper part of the operating lever E is pressed forward, the valve-rod *a*, valve D, and piston G, will be forced back to the positions shown in fig. 1, when a full flow of water will pass through the faucet, and the valve H will be kept well open.

When the forward pressure on the lever E is removed, the valve D will be pressed forward by the flow of the water, and will draw the piston G into the cylinder F, and press the water contained therein through the space around the edge of the piston and around the stem *a*, and thereby the water will be forced gradually out of the cylinder, which will insure the gradual and easy closing of the valve D upon its seat, and, consequently, an absence of concussion on the draught-pipe, which is so common with most self-closing faucets.

The valve H is on a separate stem from the valve D, and is forced back by the rear of the piston G, so that it is always open when draughting is being effected, and closed upon its seat when the front part of the faucet is unscrewed for repairs.

By the valve H being closed upon the seat I, when the forward part A of the faucet is removed, the water will be stopped from flowing from the draught-pipe, and thereby avoid the necessity of using the ordinary stop-cock, and shutting off the water from all other faucets connected with the draught-pipe.

Having thus described my invention,

What I claim, in a self-closing draught-faucet, is—

1. The combination of the cylinder F, piston G, valve D, and rod *a*, arranged within the shell of the faucet as and operating for the purpose herein shown and specified.

2. In combination with the parts F, G, and D, the self-closing valve H, arranged as and for the purpose set forth.

ROBERT TILLY.

Witnesses:

G. H. BARKER,

THOMAS C. BOWEN.