T. H. Thayer,

Basin Faucet.

No. 106,093 Patented Aug. 2. 1870.

Fig 1

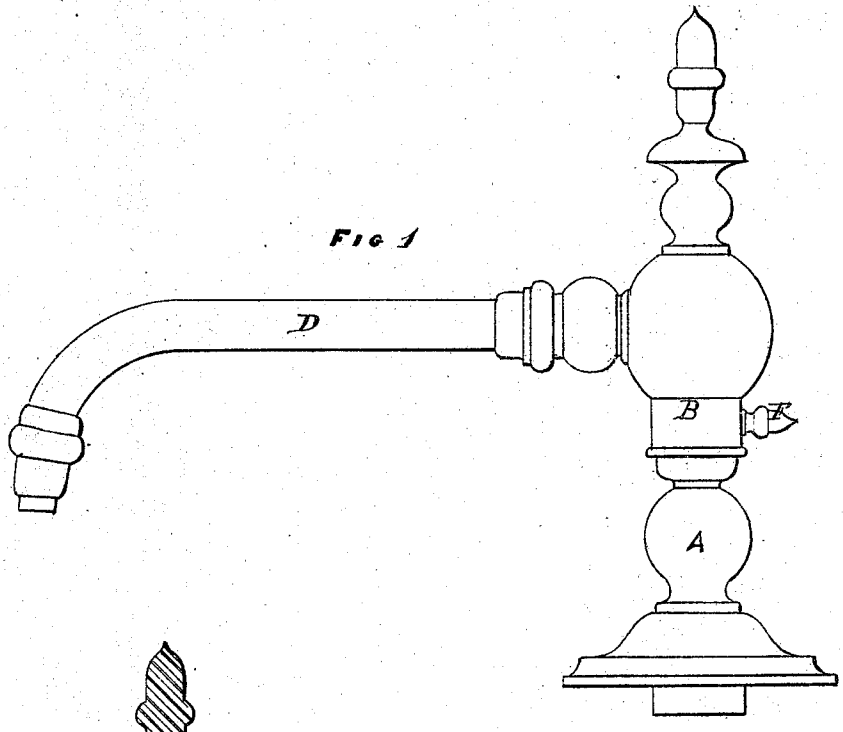
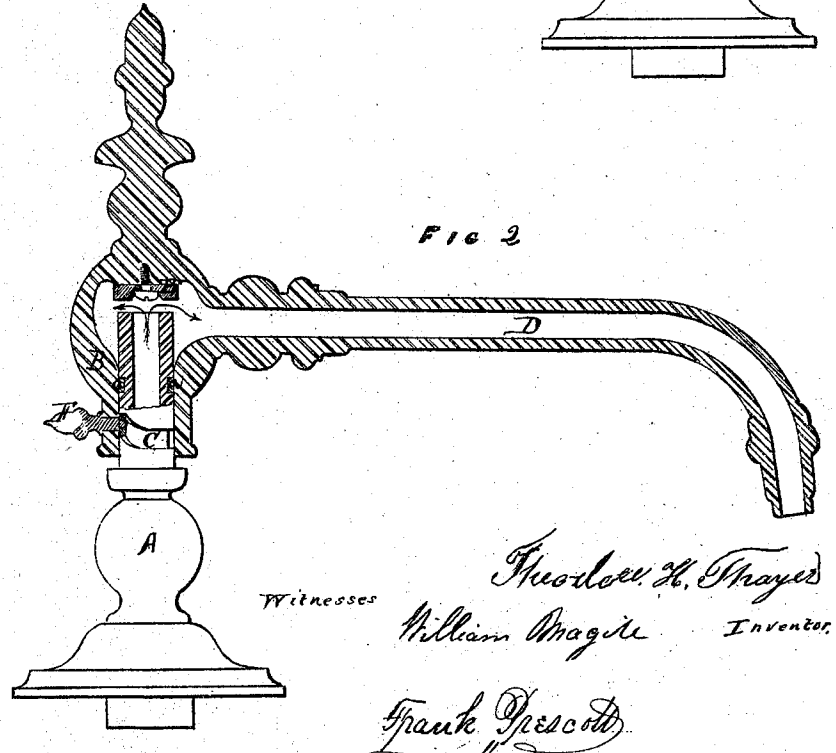


Fig 2



Witnesses

William Magie

Frank Prescott

Theodore H. Thayer

Inventor.

United States Patent Office.

THEODORE H. THAYER, OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 106,093, *dated August* 2, 1870.

IMPROVEMENT IN COCKS.

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

To all whom it may concern:

Be it known that I, THEODORE H. THAYER, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Swinging-tube, Compression, Water, or Steam-Cocks; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

Figure 1 is a side view of my improvement.

Figure 2 is a longitudinal section of the same, showing the valve raised from its seat to allow the liquid to pass out through the stem.

My invention relates to an improvement in swinging-tube, compression, water, or steam-cocks.

The valve is opened and closed by means of a cam-shaped groove in the stock, operating upon a pin or friction-roll attached to the stem.

The accompanying drawing represents a swinging-tube compression basin-cock.

To enable others skilled in the art to make and use my improvement, I will proceed to describe the construction and operation of the same, reference being had to the accompanying drawing, in which—

A represents the stock, which is connected with the water-pipe.

One end of this stock is turned to a shoulder, in order to form a bearing for the valve-packing, which is placed in the sleeve B and secured by means of a screw, so as to prevent its being removed by the opening and shutting of the cock.

In the turned portion of the stock A a groove, *a*, is cut, to receive another packing, so as to prevent any leakage between the sleeve and stock, as shown in fig. 2.

D is the stem or tube.

One end forms a sleeve, which is made to fit nicely over the turned portion of the stock A, and in the upper portion of this sleeve the valve-seat E is placed, as shown in fig. 2.

F is a pin, held securely in the sleeve and operating in the cam-shaped groove C. A friction-roll may be substituted for this pin to save wear.

When the tube stands, as shown in the drawing, straight out from or in a line with the stock, the pin F is in the upper portion of the groove C, and the valve is open.

As the tube is turned in either direction, the incline in the said groove operates upon the pin F and draws it, together with the sleeve and stock D, downward, until the valve-seat E comes in contact with the stock A, when the flow is stopped.

The valve is arranged to close in turning the tube about a sixth of a revolution in either direction, but this may be varied by making the incline at a greater or lesser angle.

The advantage that my invention has over all other compression cocks is that the tube swings in either direction, instead of being stationary over the basin.

Having thus fully described my invention,

What I claim as new and useful, and desire to secure by Letters Patent, is—

In a swinging-tube compression cock, the stem D, provided with valve-seat E, sleeve B, and pin F, when combined with the stock A, having the groove C, all operated as described, for the purpose set forth.

This specification signed and witnessed this 10th day of May, 1870.

THEODORE H. THAYER.

Witnesses:

SMITH S. GILBERT,
FRANK PRESCOTT.