

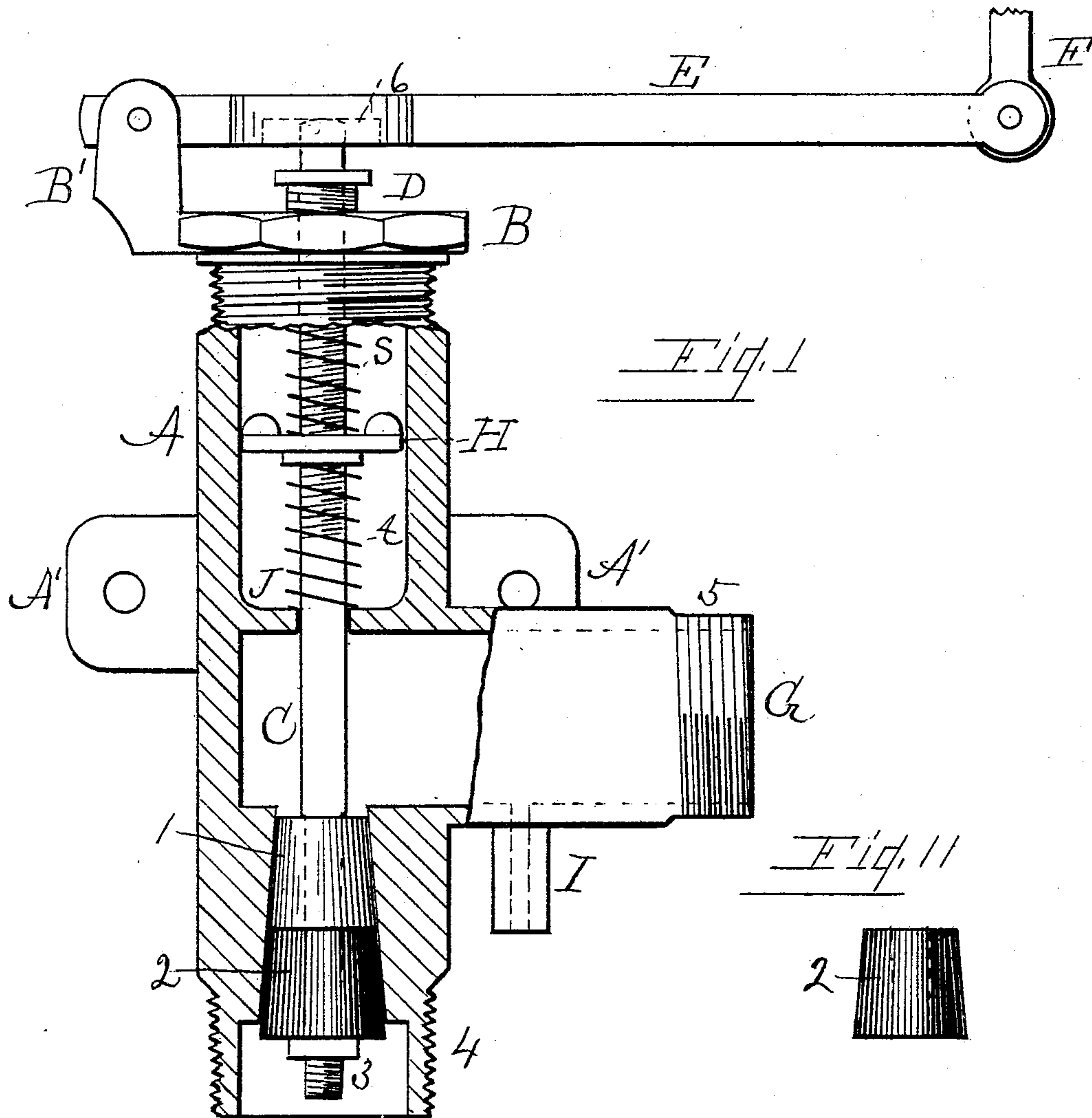
No. 704,121.

Patented July 8, 1902.

P. SCHWEGEL.  
SELF CLOSING COCK.

(Application filed Sept. 13, 1901.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

PETER SCHWEGEL, OF DAYTON, OHIO.

## SELF-CLOSING COCK.

SPECIFICATION forming part of Letters Patent No. 704,121, dated July 8, 1902.

Application filed September 13, 1901. Serial No. 75,246. (No model.)

*To all whom it may concern:*

Be it known that I, PETER SCHWEGEL, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Self-Closing Cocks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in self-closing cocks used in flushing closet-bowls, the features of which will be fully hereinafter described and claimed.

The object of my invention is the construction of a cock that shall close automatically and have such form of valve that the closing of the same shall be absolutely tight.

The mechanism is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation with parts in transverse section to exhibit the interior. Fig. 2 is a side view of the elastic part of the valve.

The letters and numerals designate like parts in the two views.

The body is cast of brass and comprises the main hollow body A, which is supported on a wall when in use by the ears A' A', which extend from the rear portion of said body, the cone-shaped seat near the lower end, the extension G at a right angle to said body, and the inner bearing J. The lower end 4 of the body and the end 5 of the extension are threaded to receive the usual union-coupling. When the cock is exposed to the cold, the drainage-pipe I is attached to said extension. To the top of the body is screwed the cap B, which is provided with the ears B' to support one end of the lever E, the same resting on the top end of the valve-stem C. To the outer end of this lever is joined the rod F, which is lengthened to suit the conditions, and the top end is provided with a suitable handle. The cap is provided with the gland D to pack about the valve-stem. The lever is provided with the recess 6 (indi-

cated by dotted lines) as a bearing-surface for the end of said valve-stem. The valve-stem C extends from above the cap to near the bottom of the body. A portion of the upper part is threaded and which the adjusting-nut H traverses. To the lower end of this stem is secured the metallic valve 1, with the rubber plug 2 beneath. These have orifices which embrace the stem and are securely fastened by the nut 3. These parts comprise the valve and conform to the shape of the seat, the rubber being slightly larger than the metallic part to make the closing secure. The spiral spring *t* rests on the ledge J, bears up against the nut H, and thereby the valve is closed against its seat. The spiral spring *s* is held between this nut and the cap and serves to keep the nut in its position on the stem by adding to the friction of the screw-engaging thread. If greater tension is required to carry the valve with more force against its seat, the nut is screwed down on the stem until the desired tension is attained. This nut is provided with lugs for convenience in turning it.

In use a pipe leading from the street-main is connected with the bottom of the cock and a discharge-pipe is attached to the lateral extension to convey the water to the closet-bowl for flushing the same. To have the water flow through the cock the lever must be depressed, and on its being released the recoil of the spiral spring closes the valve.

What I claim is—

In a self-closing cock the combination of the body having suitable influent and effluent orifices, the bearing-ledge and a cone-shaped seat, the closing-cap provided with ears and a packing-gland, the stem with its metallic and rubber rings forming the valve, the threaded adjusting-nut held on said stem, the spiral spring for closing said valve, the spiral spring for staying said adjusting-nut, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

PETER SCHWEGEL.

Witnesses:

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