

(No Model.)

C. RUCHTI.
FAUCET.

No. 471,574.

Patented Mar. 29, 1892.

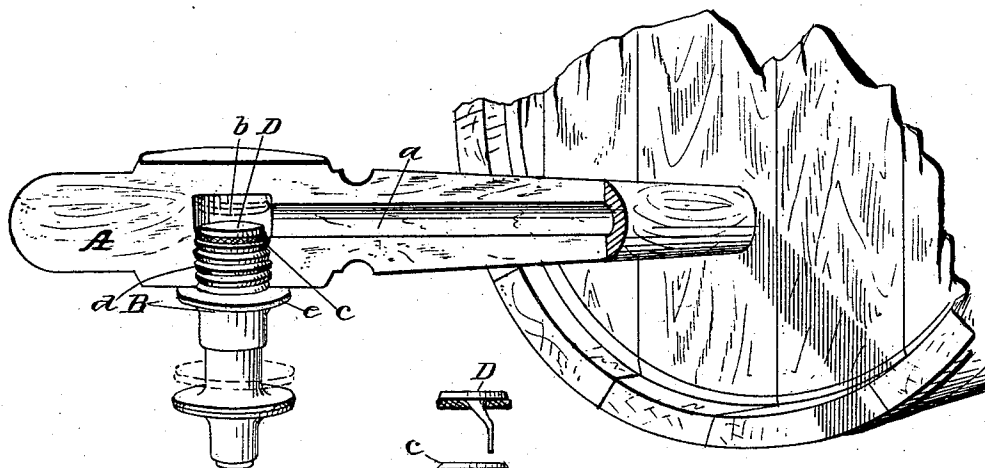


Fig. 1.

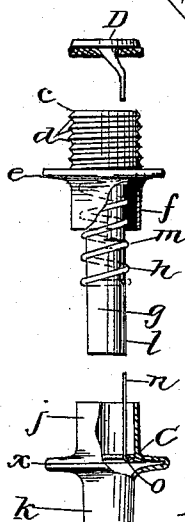


Fig. 2.

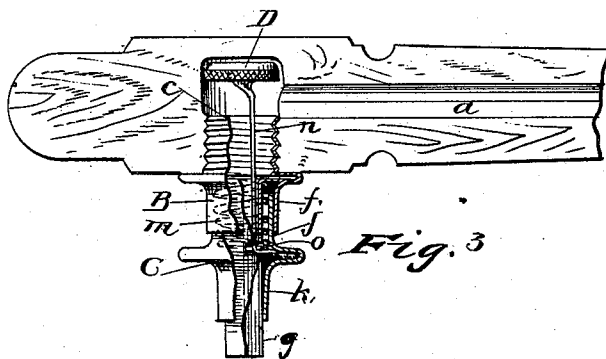


Fig. 3.

Witnesses:—

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UNITED STATES PATENT OFFICE.

CHRISTIAN RUCHTI, OF LOUISVILLE, OHIO.

FAUCET.

SPECIFICATION forming part of Letters Patent No. 471,574, dated March 29, 1892.

Application filed October 29, 1891. Serial No. 410,163. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN RUCHTI, a citizen of Switzerland, and a resident of Louisville, county of Stark, State of Ohio, have invented a new and useful Improvement in Faucets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an improvement in faucets; and it consists of certain features of construction and combination of parts, as will be hereinafter described, and pointed out in the claim.

Figure 1 of the accompanying drawings is a view in perspective, partly sectional, of a faucet illustrating my invention, showing valve closed. Fig. 2 is a similar view comprising the valve, valve-seat, coil-spring, stem, and slide; Fig. 3, a side elevation, partly sectional, showing valve open.

Similar letters of reference indicate corresponding parts in all of the figures of the drawings.

A represents the stem or body of the faucet, provided with the usual axial aperture *a* and a threaded aperture *b* to intersect the aperture *a* at right angles.

B is a tubular portion having a plurality of diameters and provided at one end with a valve-seat *c* and an annular screw-thread *d* to correspond with the thread in the aperture *b* and a flange *e*. From the flange *e* is projected a tube or cylinder portion *f* and a tube or stem portion *g* of smaller diameter, as shown, about which is placed a coil-spring *h*.

A tubular slide C is provided, having a plurality of diameters, as *j* *k*, the former larger than the latter and adapted to slide inside of the cylinder *f* and the latter to pass over and slide upon the smaller tube or stem *g*, as shown in Fig. 3. This portion C is also provided with a flanged-out portion *x*, by which the valve is operated, as will be hereinafter explained.

In the stem *g* is provided a slot *l*, at the in-

ner or upper end of which is provided a notch or right-angled slot *m*. The valve-rod *n* is secured to the slide C, as shown in Figs. 2 and 3, having an offset or shoulder portion *o*. The rod is passed up into the tube, the bent or shoulder portion in the slot *l*, and the valve D secured to the end of the rod, as shown in Fig. 3.

To operate the faucet the hand is placed over the body A with two of the fingers to grasp the flange *x*, by which the slide C is raised to compress the spring and carry with it the rod *n*, and thereby raise the valve D from the seat *c* to allow the liquid to flow through the faucet, and when the fingers relax to release the slide C the energy of the spring *h*, exerted downward, will move the slide down, and thereby close the valve D on the seat and stop the flow of liquid. When it is desired to have a continuous flow of liquid, the valve may be secured in open position, as shown in Fig. 3, by turning the shoulder *o* of the valve-rod into the retaining-notch *m* the desired length of time.

Having thus fully described the nature and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the apertured stem A, of the cylinder portion B, provided at its upper end portion with a valve-seat *c* and the screw-thread *d* and at its lower end portion with a downwardly-extended cylinder portion *f* and stem *g*, having a longitudinal slot *l* and notch *m*, coil-spring *h*, valve D, rod *n*, and slide C, adapted to slide into the cylinder *f* and on the stem *g* to raise the valve, substantially as described, and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 10th day of October, A. D. 1891.

CHRISTIAN RUCHTI.

Witnesses:

W. K. MILLER,
CHAS. R. MILLER.