

No. 648,455.

D. D. L. FARSON.
FAUCET.

Patented May 1, 1900.

(Application filed May 23, 1899.)

(No Model.)

Fig. 1.

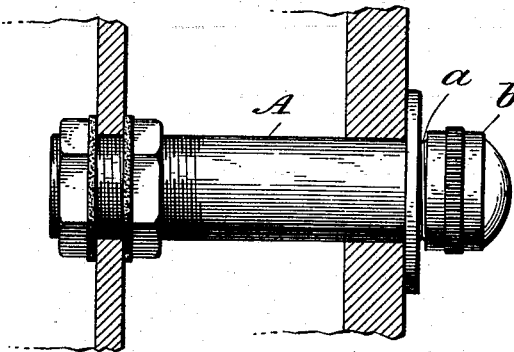


Fig. 2.

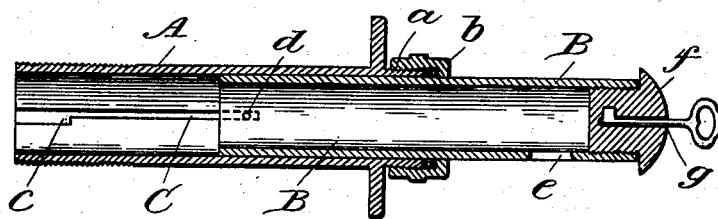


Fig. 3.

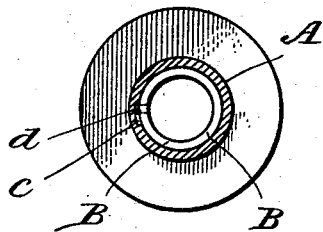
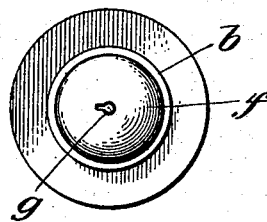


Fig. 4.



Witnesses.

John Cross
J. Henderson.

Inventor,

Daniel D. L. Farson,

by I. H. Peters,

his Attorney.

UNITED STATES PATENT OFFICE.

DANIEL D. L. FARSON, OF PHILADELPHIA, PENNSYLVANIA.

FAUCET.

SPECIFICATION forming part of Letters Patent No. 648,455, dated May 1, 1900.

Application filed May 23, 1899. Serial No. 717,932. (No model.)

To all whom it may concern:

Be it known that I, DANIEL D. L. FARSON, a citizen of the United States, and a resident of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Faucets, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to certain improvements in faucets, and particularly to that class known as "concealed" faucets, and is especially designed as an improvement on the construction disclosed in my application for patent filed August 12, 1898, Serial No. 688,442.

One object of my invention is to generally improve and simplify the construction of this class of faucets, and, further, to provide a simple form of locking mechanism for preventing the faucet from being pushed out by the pressure of the water in the pipes.

A still further object of my invention is to provide a construction of faucet which can be locked in a closed position and opened only by the use of a key.

With these objects in view my invention consists in the construction substantially as herein set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my improved faucet in a closed and locked position. Fig. 2 is a central longitudinal section of same in an unlocked and open position. Fig. 3 is a transverse section taken on the line 33 of Fig. 2, and Fig. 4 is a front end elevation of the faucet.

In the said drawings, A designates an outer tube provided on its forward end with exterior screw-threads *a*, adapted for the reception of a stuffing-box *b*.

B designates an inner tube adapted to telescope within the outer tube A, fitting snugly therein, the stuffing-box *b* insuring a water-tight joint between the two tubes.

On the interior surface of the outer tube A, I provide a longitudinal groove C, widened at its end and forming a shoulder *c*. On the exterior surface of the inner tube B, I form a pin or projection *d*, which is adapted to the groove C in the outer tube and serves to limit the extent of withdrawal of the tube B. When

the tube is pushed in to close the opening *c* and shut off the faucet, as in the position illustrated in Fig. 1 of the drawings, the pin *d* will enter the enlarged portion of the groove C, and by turning the inner tube slightly it will engage the shoulder *c*, and thereby prevent the withdrawal of the said inner tube.

In the outer end of the inner tube B, I secure a plug D, which may be either screwed or soldered into said pipe in a manner to insure a water-tight joint. This plug D is formed with a shallow curved end, as *f*, which will fit snugly against the stuffing-box *b* when the faucet is closed, so that it will be impossible for any one to grasp the same and withdraw the inner tube to open the faucet.

In the central portion of the plug D, I form a key-slot *g*, of ordinary construction, having an enlargement forming a shoulder at the inner end, so that a key may be inserted in the same.

When it is desired to open the faucet, the key is inserted in the plug D and turned slightly, which disengages the pin *d* from the shoulder *c* formed in the slot C, which allows the inner tube to be withdrawn by pulling on the key.

From my above description it will be seen that I have provided a simple and effective faucet which can be operated only by the use of a key when the plug D is used in the end of the tube B. If a locking-faucet is not required, a knob or wheel can be formed on the end of plug D for the purpose of withdrawing the same.

The locking device for preventing the withdrawal of the inner tube remains the same in either construction and serves to prevent the pressure of the water from forcing out the inner tube.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a faucet the combination of a pair of tubes adapted to telescope one within the other, a stuffing-box provided on one end of the outer tube, means for limiting the extent of withdrawal of the inner tube, means for locking the inner tube in a closed or telescoped position, a discharge-opening provided in the inner tube, a rounded end formed on

the outer end of the inner tube of smaller diameter than the stuffing-box adapted to fit closely against the stuffing-box when the faucet is closed, and a key-slot provided in said rounded end, substantially as and for the purpose stated.

2. In a faucet, the combination of an outer tube A, having a stuffing-box secured on one end, a tube B, adapted to fit snugly within the outer tube, a longitudinal groove C, formed on the interior of the outer tube, having an enlargement at its inner end, forming a shoulder c, a projection d adapted to the groove C, a discharge-opening formed in the inner tube, a plug f secured in the outer end of the tube B having a shallow convex head adapted to abut closely against the stuffing-box b when the faucet is closed, a key-slot formed in plug f, and a key adapted to said slot for unlock-

ing and withdrawing the inner tube B, substantially as described.

3. In a faucet the combination of a pair of tubes adapted to fit snugly one within the other, a stuffing-box secured to the end of the outer tube outside of the vessel, a discharge-opening provided in the inner tube, a shallow rounded head formed on the outer end of the inner tube the said head being of a diameter smaller than the stuffing-box, and a key-slot provided in said head to provide means for withdrawing the inner tube, substantially as described.

In witness whereof I have hereunto set my hand this 22d day of May, A. D. 1899.

DANIEL D. L. FARSON.

Witnesses:

BENJ. F. PERKINS,
JNO. T. CROSS.