

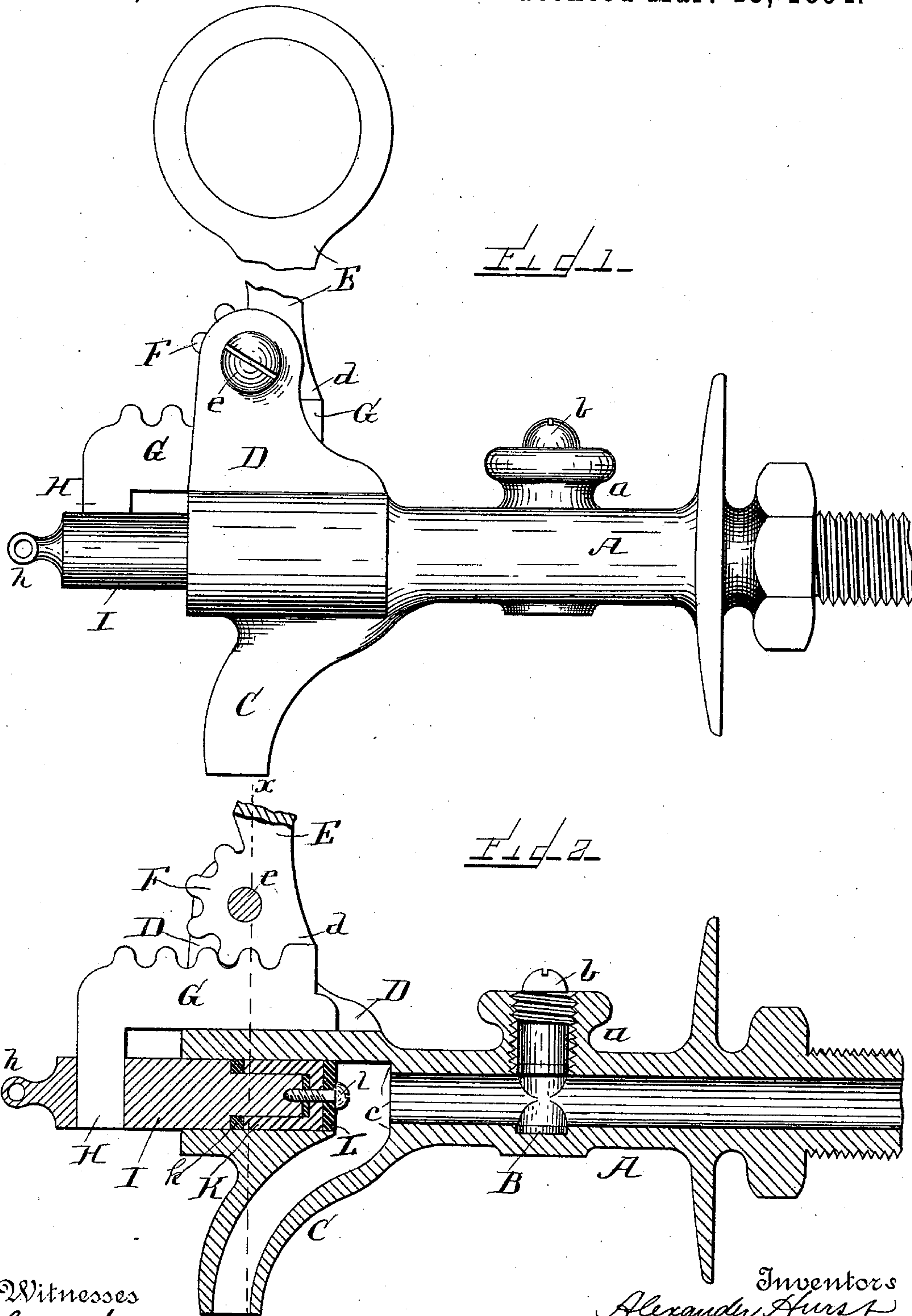
(No Model.)

2 Sheets—Sheet 1.

A. HURST & J. I. BOYER.
FAUCET.

No. 516,438.

Patented Mar. 13, 1894.



Witnesses
Glande Sunsford.
Edwin S. Clarkson

Inventors
Alexander Hurst
and
Jesse I. Boyer
By C. T. Bell, Attorney

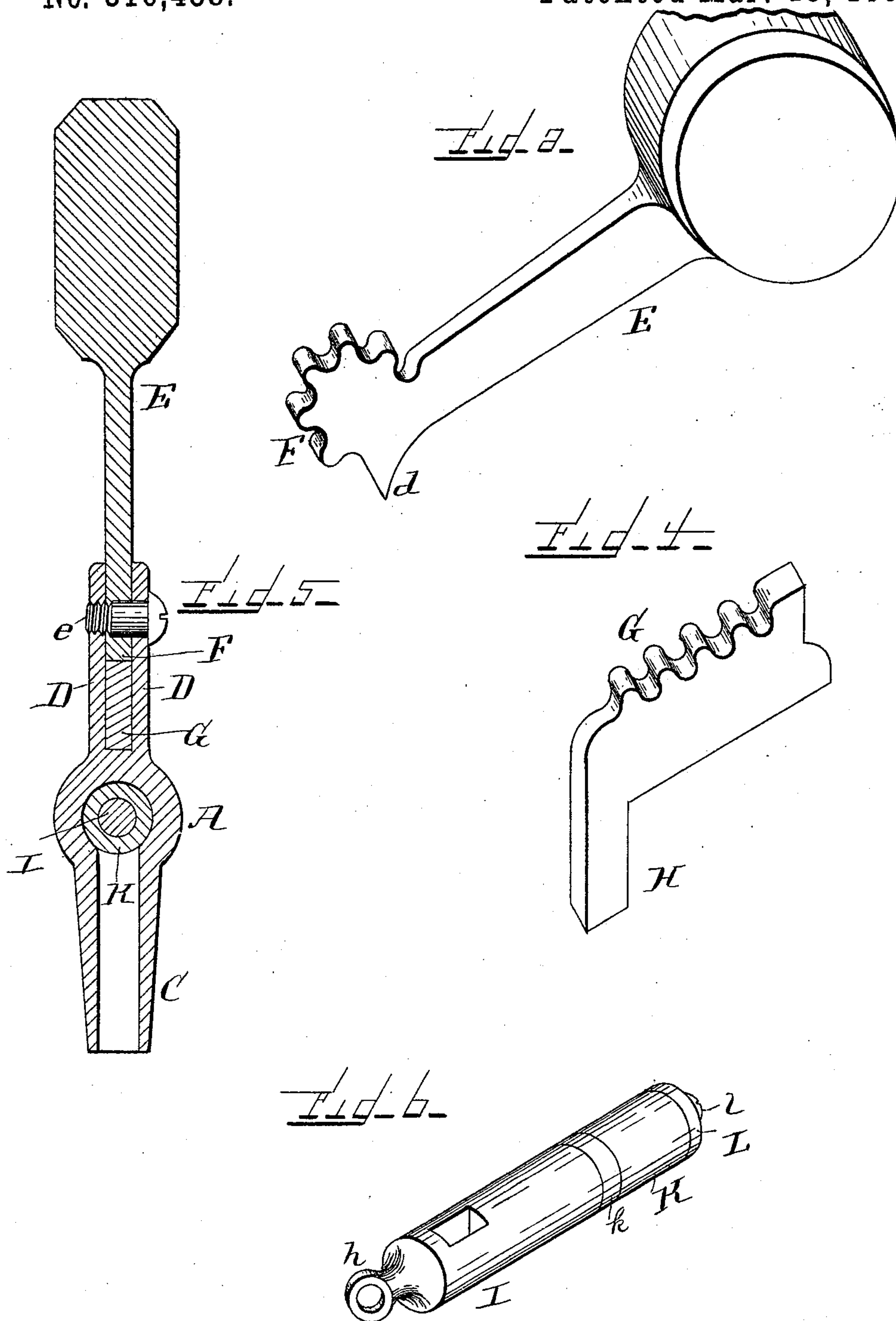
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Witnesses
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Chas. S. Clarkson

Inventors
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UNITED STATES PATENT OFFICE.

ALEXANDER HURST AND JESSE I. BOYER, OF READING, PENNSYLVANIA.

FAUCET.

SPECIFICATION forming part of Letters Patent No. 516,438, dated March 13, 1894.

Application filed September 5, 1893. Serial No. 484,812. (No model.)

To all whom it may concern:

Be it known that we, ALEXANDER HURST and JESSE I. BOYER, citizens of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Faucets, of which the following is a specification.

This invention relates to the class of cock faucets, and particularly to a beer faucet, and its novelty will be fully understood from the following description and claims when taken in connection with the annexed drawings: and the novelty of the invention is to provide a faucet of simple, durable and inexpensive construction.

A further object of the invention is to provide means for opening and closing a faucet, which can be operated without the least lost motion or uncertainty of the operation of the parts of the faucet, either in opening or closing the same.

A still further object of the invention, is to provide a cutoff, or means in the tube between the barrel and faucet whereby the valve or plunger of the faucet may be removed and replaced without detaching it from the barrel or keg to which it is secured.

The invention consists in the novel construction and arrangement of the several parts of the faucet and cut off as will be hereinafter more fully described and set up in the claims.

In the accompanying drawings forming part of this application: Figure 1 is a side elevation. Fig. 2 is a longitudinal sectional view. Fig. 3 is a perspective view of the handle and its toothed sector. Fig. 4 is a perspective view of the sliding rack plate. Fig. 5 is a vertical section taken on the plane indicated by the dotted line X—X in Fig. 2. Fig. 6 is a perspective view of the plunger and its attachments.

The same letters of reference denote the same parts throughout the several figures of the drawings.

The tube or stem A, which is of ordinary construction, is provided upon the outside near the faucet, with an inner screw threaded projection *a*, and opposite this projection *a*, is formed in the wall of the tube or stem A, a valve seat B. Fitted in the said projection *a*, is a screw valve *b*, which is operated to cut

off, or close the stem or tube when the faucet is being repaired.

Projecting downwardly from the tube A, 55 cast or formed in the same piece, and of course directly communicating with it, is the mouth C, of the faucet. The faucet end of the tube A, is enlarged from just in front of the projection *a*, to its extreme end, forming the valve seat *c*, at the juncture of the said enlarged and small portions of the tube or stem A. Cast or otherwise formed upon the said enlarged portion opposite the mouth C, are two flanges D, between which the handle 65 E, is fulcrumed by means of the screw bolt *e*. The lower or fulcrumed portion of the handle E, has formed in the same piece with it, the toothed sector F, through which sector the fulcrum bolt *e*, passes. At the juncture 70 of the rear lower portion of the handle and the said sector, is formed a V shaped lug or projection *d*, which forms a stop when it strikes the rack plate G, and prevents the handle from being pushed too far back. The rack plate G, slides upon the said enlarged 75 end of the tube A, between the flanges D, is engaged by the sector F, and slides back and forth according to the movement of the handle E. At the outer end of the rack plate G, 80 at right angles thereto and in the same piece, is formed an arm H, which projects downwardly through the outer end of the plunger I, the said outer end of the plunger being provided with a hand knob or handle *h*, to operate the plunger should the handle E, or its 85 engaged parts become broken. The inner end of the plunger is made smaller, and is provided with a sleeve or packing gland K, to secure the packing *k*, in position, while the packing or gasket L, which forms the valve, 90 is secured to the said sleeve, and the sleeve to the plunger, by means of the screw *l*. It is obvious from the foregoing description, that as the plate G, is moved back and forth, 95 it will carry with it the plunger, and thus open and close the fluid channel.

We do not wish to be understood as limiting ourselves to the particular arrangement of the parts of our device, nor to forming or casting them in the same piece, but desire to reserve to ourselves the right to change the location and manner of forming them without departing from the spirit of our invention. 100

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination with the faucet having oppositely situated flanges, of the handle terminating in a toothed sector fulcrumed to and between the flanges, the V shaped stop lug formed at the juncture of the sector and handle, the rack plate slidably located between the said flanges but not secured to them, the depending arm formed at right angles to the rack plate and extending through the plunger, and the plunger having an operating handle formed upon its outer end, substantially as shown and described.

2. In a faucet having flanges opposite the faucet's mouth, the inner screw threaded projection formed integral with the faucet stem,

the valve seat made in the wall of the said stem, and the screw valve operated through the said projection, combined with the operating handle, the plunger, the rack plate having an arm depending through the plunger, the toothed sector forming one end of the operating handle fulcrumed to the said flanges, and the V shaped lug formed at the juncture of the handle and sector to stop the outward movement of the said rack plate and plunger, substantially as shown and described.

In witness whereof we hereunto set our hands in the presence of two witnesses.

ALEXANDER HURST.
JESSE I. BOYER.

Witnesses:

EUGENE RHEIN,
WALTER B. CRAIG.