

E. Stebbins,
Globe Valve,

No 32,797,

Patented July 9, 1861.

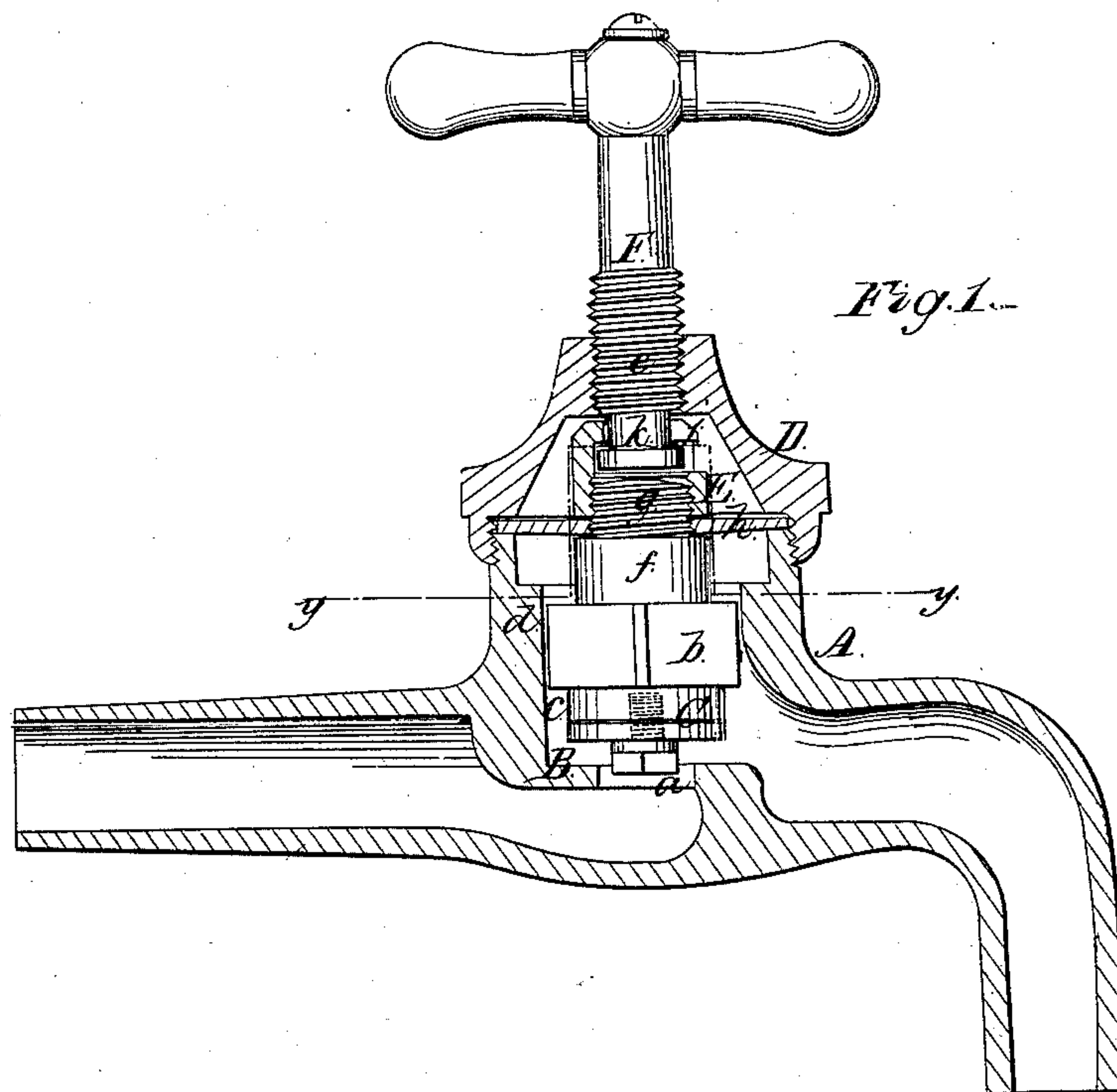
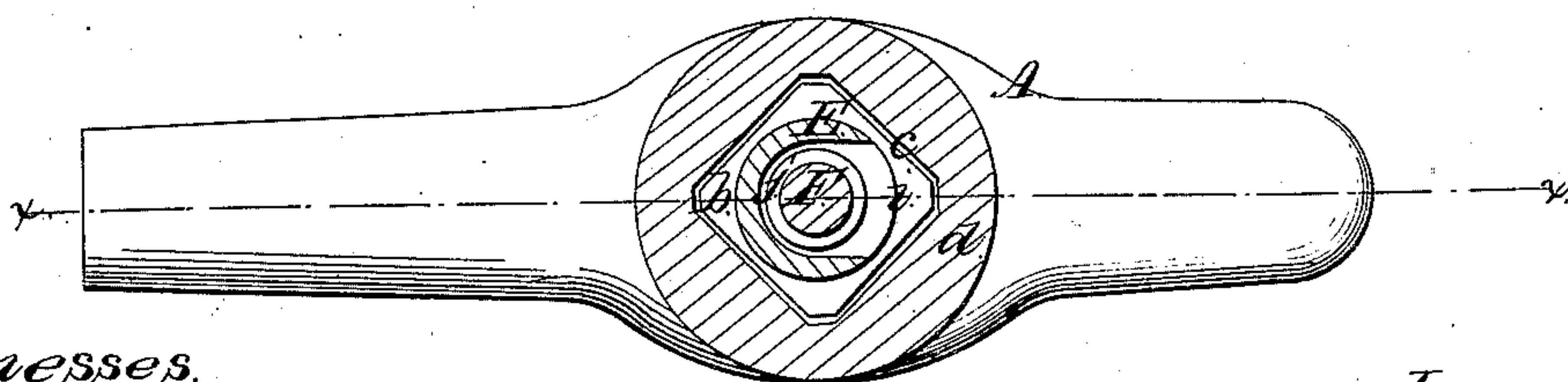


Fig. 1.

Fig. 2.



Witnesses.
James Lord
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ERASTUS STEBBINS, OF CHICOPEE, MASSACHUSETTS.

FAUCET.

Specification of Letters Patent No. 32,797, dated July 9, 1861.

To all whom it may concern:

Be it known that I, E. STEBBINS, of Chicopee, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Faucets or Cocks; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a vertical central section of my invention taken in the line x, x , Fig. 2. Fig. 2 is a horizontal section of the same, taken in the line y, y , Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to that class of faucets or cocks in which the valve is operated by a screw.

The object of the within described invention is to dispense with the use of a spring and open and close the valve by a screw alone, and at the same time have the packing of the cap attached to the screw shaft or stem, so as to admit of the perfect working of the valve while effectually preventing the escape of water around the cap, and also around the screw shaft.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A represents the tube of the faucet or cock, and B is a partition in the tube, which partition is provided with an opening a , over which a valve C, works. This valve C is at the lower end of a square b , which is fitted and works in a corresponding shaped chamber c , in an upright box or projection d , on the tube A. The square b , prevents the valve from turning under the action of the screw e , by which the valve is raised and lowered and consequently opened and closed. Just above the square b , there is a cylinder f , and above the cylinder there is a screw g , the latter being rather smaller in diameter than the cylinder f , so as to form a shoulder on which a circular piece of packing h , is placed. This packing may be of india-rubber or other suitable material and its edge fits between the cap D, and the top of the box or projection d , the cap D, being screwed on the box d , as shown clearly in Fig. 1.

On the screw g , there is fitted a collar E, said collar being provided with an internal screw thread so as to screw on g , and provided with a slot i , in its side and a flanch j , which projects inward at its upper edge. This collar E, secures the packing h , snugly down on the top of cylinder f , and also serves as a coupling to connect the lower end of a shaft F, on which the screw e , is formed, to the cylinder f , the lower end of shaft F, having a recess k , made in it circumferentially, in which the flanch j , of the collar fits, the slot i , admitting of the insertion of the lower end of shaft F, in the collar E, the lower end of shaft F, being allowed to turn freely in the collar.

The screw e , of shaft F, works in a female thread made in the apex of the cap D, and by turning shaft F, it will be seen that the valve will be raised and lowered and consequently opened and closed, and the packing h , will rise and fall at its center sufficiently to allow the valves to open and close, the packing h , being sufficiently large in diameter to admit of this result. By this arrangement it will be seen that all springs are avoided, the valve being operated by a positive movement both up and down, and the packing h , allowed to yield or give to conform to the movement of shaft F, and still operating effectually to prevent any water escaping between the cap D, and the top of the projection d .

I do not claim separately any of the parts herein described. But

Having thus described my invention what I do claim as new and desire to secure by Letters Patent, is:—

The connecting of the valve C, to the screw shaft F, by means of the collar E, which is screwed on the cylinder f , of the valve C, and is connected to the lower end of shaft F, by the flanch j , and recess k ; when said collar is used in connection with the packing h , secured to cylinder f , and fitted between the cap D, and the box or projection d , of the tube A, substantially as herein described.

ERASTUS STEBBINS.

Witnesses:

M. M. LIVINGSTON,
JAMES LAIRD.