

(No Model.)

No. 290,132.

J. SNELL.
COCK FOR HYDRANTS.

Patented Dec. 11, 1883.

Fig. 1

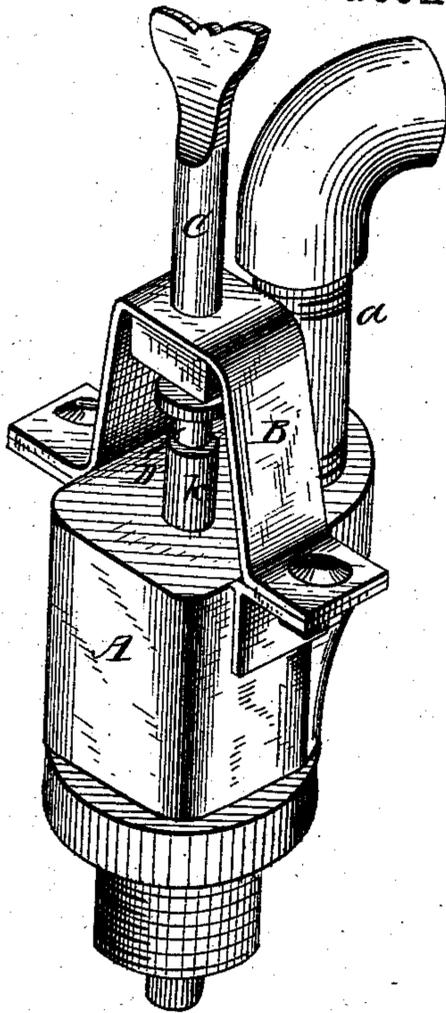
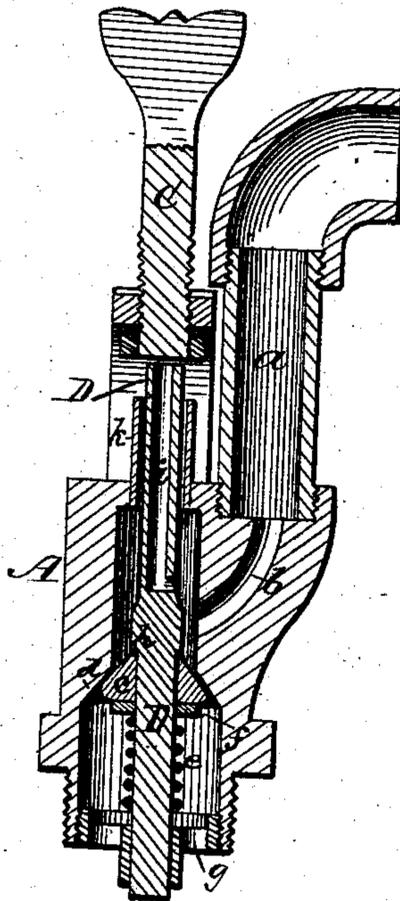


Fig. 2



WITNESSES
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JASPER SNELL, OF POTTSVILLE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
TO JOHN TETER, OF SAME PLACE.

COCK FOR HYDRANTS.

SPECIFICATION forming part of Letters Patent No. 290,132, dated December 11, 1883.

Application filed April 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, JASPER SNELL, a citizen of the United States, residing at Pottsville, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Cocks for Hydrants and other Purposes; 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, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my invention, and Fig. 2 a sectional elevation thereof.

The present invention has relation to certain new and useful improvements in that class of cocks or faucets provided with a waste, and adapted to hydrants and various other uses to which such class of devices may be found advantageous.

The object of the invention is to improve the construction of the above-mentioned class of cocks or faucets, whereby superiority is obtained in the manner of waste and the readiness with which the device may be operated when drawing water, the waste water flowing through the hollow valve-stem after the valve is closed. These objects I attain by the construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents the body of the cock or faucet, screw-threaded at its lower end for convenience of attachment to the water-pipe, the construction shown being especially adapted to a hydrant.

The body A has attached to it a nozzle or outlet, *a*, for the discharge of the water, said nozzle or outlet being in line and communicating with a passage, *b*, formed in the body.

To the upper portion of the body A is suitably connected a yoke, B, through which passes a screw-rod, C, the threads thereof engaging with those of a screw-threaded hole in the yoke.

The body A is formed with an inclined

seat, *d*, against which closes a correspondingly-formed valve, *c*, by the action of a spring, *e*, coiled around the lower portion of a valve-stem, D. The upper coil of the spring *e* bears against a washer, *f*, while the lower coil rests upon a screw-threaded thimble, *g*, which forms a guide for the lower end of the valve-stem D. The valve-stem is formed with an annular shoulder, *h*, against which is kept pressed the valve *c* by the spring and washer *e f*. That portion of the valve-stem D above the valve *c* is formed hollow, to provide an escape, *i*, for the waste water after the valve has been closed, the escape at its lower end extending horizontally through the side of the stem. The hollow portion of the stem D extends up through the top of the body A and through a sleeve, *k*, connected to or cast with the body. The construction shown being intended, principally, for use in hydrants, the hollow portion of the valve-stem and the screw-rod for operating it may be extended to the length of several feet, and the whole to be inclosed in a box or stock, as in all other hydrants. When the valve-stem D is pressed down by the screw-rod C, the valve *c* will be forced off the seat *d*, thus allowing the water to pass up and be discharged through the nozzle or outlet *a*. In closing the valve, the rod C is screwed up to the position as indicated in Fig. 2, when the spring *e* will automatically close or force the valve *c* against the seat *d*. Thus it will be seen that the moment the valve is opened to allow the discharge of water the escape *i* is closed by the rod C coming in contact with it, and when the valve is closed by the action of the spring it is necessary that the rod should be removed from contact with the hollow end of the valve-stem, thereby allowing the waste water remaining above the valve to escape through the hollow portion of the valve-stem.

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

A cock or faucet for hydrants or other purposes, consisting of the body A, formed with a passage, *b*, communicating with the outlet *a*,

and provided with the yoke B, in combination with the valve *c*, valve-stem D, open at its upper end, the screw-rod C, and the screw-threaded thimble *g*, which forms a guide for the lower end of the valve-stem and a seat for the spring *e*, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JASPER SNELL.

Witnesses:

A. SUTERMEISLER,
H. K. WESTON.