

(No Model.)

J. A. PROUT.
COCK.

No. 382,900.

Patented May 15, 1888.

Fig. 1.

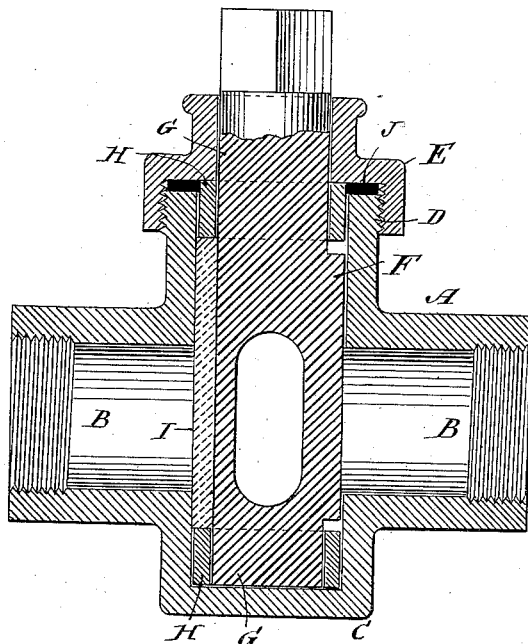


Fig. 2.

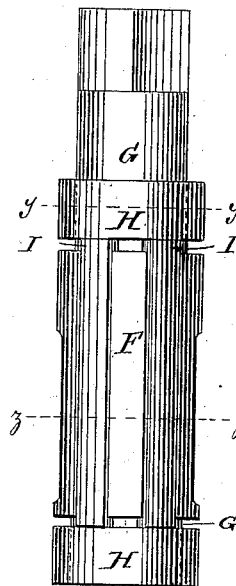


Fig. 3.

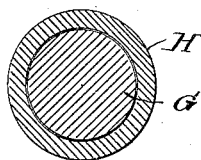
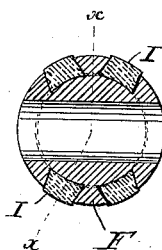


Fig. 4.



WITNESSES:

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JOSEPH A. PROUT, OF NEW YORK, N. Y.

COCK.

SPECIFICATION forming part of Letters Patent No. 382,900, dated May 15, 1888.

Application filed July 14, 1887. Serial No. 244,282. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. PROUT, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Cocks, of which the following is a specification.

This invention relates to improvements in cocks or valves by which leakage is prevented, as set forth in the following specification and claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a section in the plane *xx*, Fig. 4, showing a shell and a plug. Fig. 2 is an elevation of a plug. Fig. 3 is a section in the plane *yy*, Fig. 2. Fig. 4 is a section in the plane *zz*, Fig. 2.

Similar letters indicate corresponding parts.

In the drawings, the letter A indicates a shell having a plug-seat, C, a fluid-passage, B, and a cap-seat, D. The cap seat is adapted to receive a cap, E. The plug-seat C is adapted to receive a plug, F, and by properly turning said plug the fluid-passage B is either opened or closed.

The plug F is provided with necks G, on which rings or collars H, of metal or equivalent material, are placed. Said collars are longitudinally movable upon the necks G to a certain extent. The plug F is provided with longitudinal packing-strips I, of suitable packing material, such as asbestos, leather, or rubber.

In Fig. 4 the strips I are shown as being secured in dovetail grooves in the plug F. Such dovetail grooves prevent the strips from coming out of engagement with the plug F.

The parts being placed as seen in Fig. 1, one of the collars H rests on the plug-seat C and the other collar H is in position to be acted on by the cap E. When said cap E is secured or screwed in place, the pressure of the cap upon one of the collars H will compress the packing I between the collars H, whereby said packing will be spread so as to securely close the joint between the plug and the shell. When the packing becomes loose or worn, it is only necessary to further move the cap E onto the cap-seat D, when the packing I will be further compressed. Compensation for wear can thus be secured.

As the collars H can be readily removed from the plug or from the necks G and taken out of the shell, said collars are readily replaced by others when worn or injured, and said collars when removed from the plug leave the plug free for the ready insertion of new packing in place of packing which is worn or old.

In the drawings is also shown a packing, J, between the cap and the cap-seat, so that the cap will set firmly on its seat.

The necks G are shown as being of smaller diameter than the plug F, whereby shoulders are formed, limiting the motions of the collars H on the necks; but, if desired, said necks may be formed continuous with or of the same diameter as the plug F and as part of said plug.

Heretofore valves have been used having packing which is compressed by the direct action of the screw-cap through which the valve-stem passes; also, a valve has been made having two loose collars on the valve-stem to maintain proper position of the parts; and in another instance a packing has been placed in the valve-casing and compressed by the cap. I make no claim, broadly, to any of these constructions. A valve has also been made in which packing has been placed in slots in the valve-casing and a separate annular packing below the end of the plug, the latter packing being compressed between the said end of the plug and a thimble loosely arranged therein.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the shell having a plug-seat, a fluid-passage, and a cap-seat, of a cap made to engage said cap-seat, a plug provided with necks and with longitudinal packing-strips, and collars movably secured to said necks and made to engage the packing-strips, one of said collars being made to rest upon the plug-seat, and said cap being made to act upon the other collar, substantially as set forth.
2. The combination, with the shell having a plug-seat, a fluid-passage, and a cap-seat, of a cap made to engage said cap-seat, a plug provided with longitudinal packing-strips, and movable collars, with which the cap and plug-seat respectively engage, whereby the collars are made to act on said packing-strips, one of said collars being made to rest upon the plug-

seat, and said cap being made to act upon the other collar, substantially as set forth.

3. The combination, with the shell having a plug-seat, a fluid-passage, and a cap-seat, of a
5 cap made to engage said cap-seat, a plug provided with longitudinal dovetail grooves, packing-strips secured in said grooves, and movable collars made to act upon said packing-strips, one of said collars being made to rest
10 upon the plug-seat, and said cap being made

to act upon the other collar, substantially as set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

JOSEPH A. PROUT. [L. s.]

Witnesses:

W. C. HAUFF,

E. F. KASTENHUBER.