J. Powell,

Lock Faucet.

No. 51,349. Patented Dec. 5, 1865.

Fig: 1.

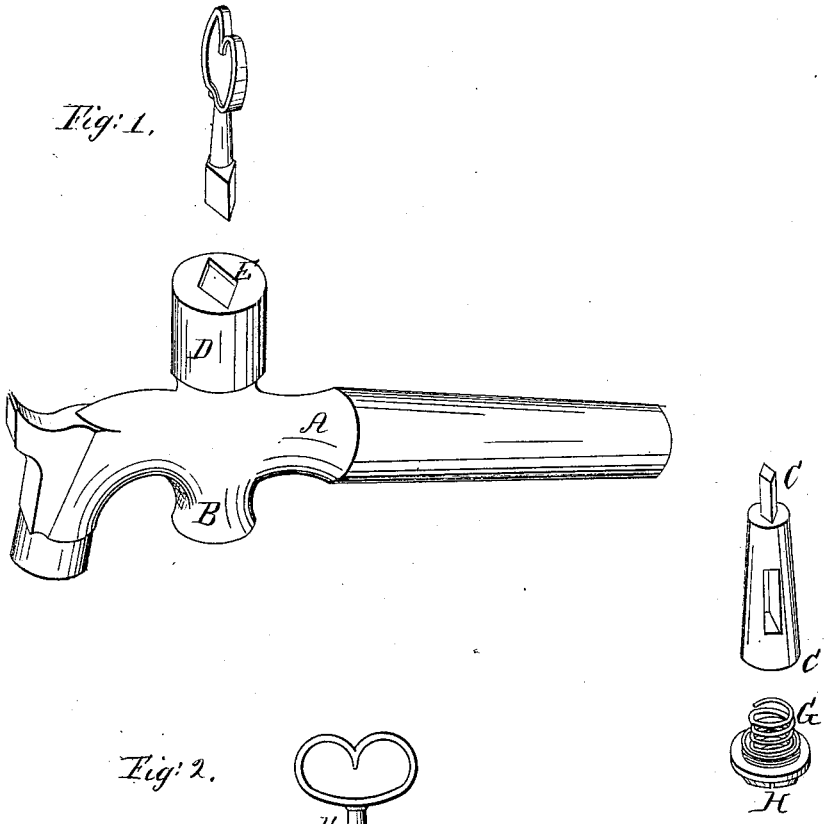
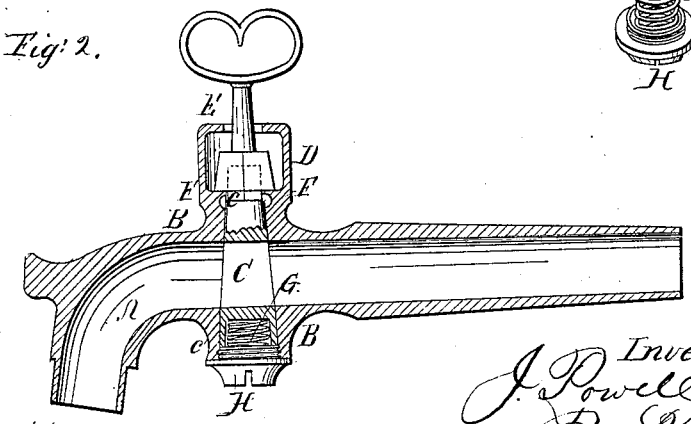


Fig: 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

JAMES POWELL, OF CINCINNATI, OHIO.

IMPROVEMENT IN COCKS.

Specification forming part of Letters Patent No. **51,349**, dated December 5, 1865.

To all whom it may concern:

Be it known that I, JAMES POWELL, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Lock-Cocks; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to the class of faucets known as "lock-cocks," and which comprise a barrel or chamber for the reception of a conical plug, said barrel or chamber having a cylindrical prolongation called the "guard," which protects the head of the plug against the application of any instrument but the proper key of the cock; and my invention consists in a peculiar construction and combination of the parts, one advantage of which is that I am enabled to cast the chamber and guard in a single piece.

Figure 1 is a perspective representation of the component parts of my faucet detached. Fig. 2 is an axial section of the faucet in its open condition.

A is a body, of customary form, crossed at right angles by the barrel or plug-chamber B, within which is ground from below upward a tapering plug, C, which plug has its head or operating-stud *c* at its narrow, instead of at its wide, extremity, as in the customary lock-cock.

By grinding my plug in from the lower side of the chamber B I am enabled to cast the sides D and the cap or escutcheon E of my guard in one piece with the chamber B, instead of casting the said chamber, the sides, and the cap in three separate pieces and afterward soldering or brazing them together. By this means I entirely remove the liability to displacement of the guard or of the guard-cap by any accidental or intentional violence, such as may occur in the act of driving in the faucet, or otherwise.

In the common lock-cock the application of the key tends to press the plug more firmly in its chamber; but my plug, being presented with its narrow end upward, might be loosened in its chamber by the pressure of the key, so as to cause leakage. To counteract such a liability I have provided between the plug and guard chambers a ledge or shoulder, F, upon which the end of the key rests in the acts of opening and closing the cock.

The lower and wider end of my plug C contains a cavity, *c'*, to receive a spiral spring, G.

A nut, H, being screwed into the bottom of the chamber B, confines the plug within the chamber and enables the spring G to hold the plug firmly to its bearings, and acts to compensate for any wear of the parts by use.

It will be seen that the reversed position of my plug enables it to be removed at any time for inspection or repair without disturbing the guard; whereas in the common form the guard has for such purpose to be detached from the chamber by a soldering-bit.

I claim herein as new and of my invention—

1. The combination of the barrel B, the sides D, and escutcheon E of the guard in manner substantially as set forth.

2. The arrangement of the shoulder F between the guard E D and the conical plug-chamber, for the purpose stated.

3. The arrangement, with the preceding, of the upwardly-tapering plug C *c c*, chamber B, spring G, and nut H, as set forth.

In testimony of which invention I hereunto set my hand.

JAMES POWELL.

Witnesses:
GEO. H. KNIGHT,
JAMES H. LAYMAN.