

J. McLAUGHLIN.
Compression-Cock.

No. 168,657.

Patented Oct. 11, 1875.

Fig: 1.

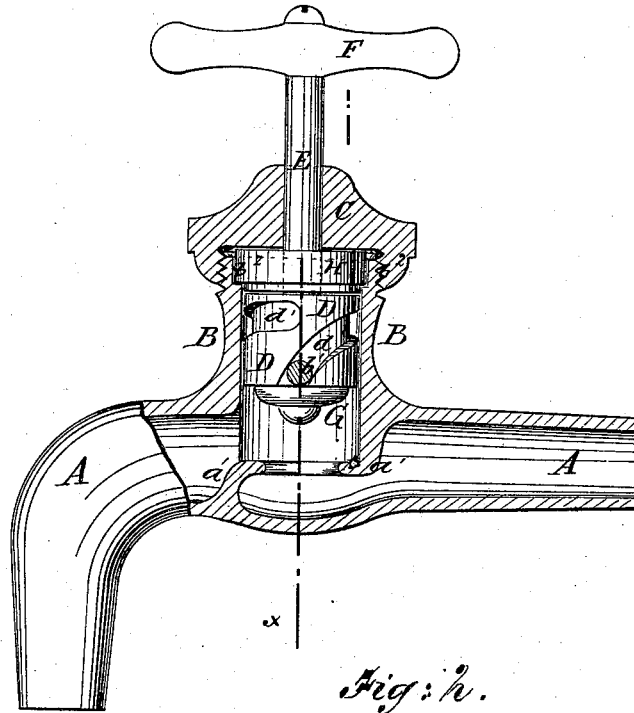
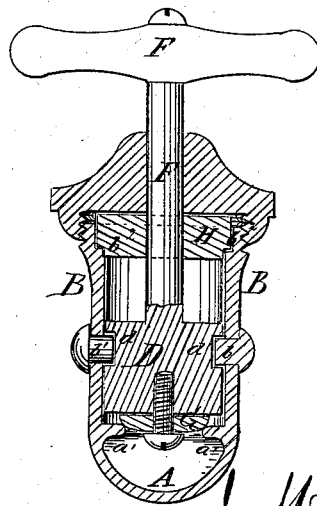


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES McLAUGHLIN, OF NEW YORK, N. Y.

IMPROVEMENT IN COMPRESSION-COCKS.

Specification forming part of Letters Patent No. 168,657, dated October 11, 1875; application filed September 11, 1875.

To all whom it may concern:

Be it known that I, JAMES McLAUGHLIN, of the city, county, and State of New York, have invented a new and useful Improvement in Compression-Cocks, of which the following is a specification:

Figure 1 is a side view of my improved compression-cock, partly in section, to show the construction. Fig. 2 is a cross-section of the same taken through the line *xx*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved cock of the class known as compression-cocks, which will be so constructed that it may be fully opened and closed by a half-turn of the handle, which shall be entirely free from leakage, which shall be durable when used with both hot and cold water, and which shall be simple in construction and not liable to get out of order.

The invention will first be described in connection with drawing, and then pointed out in the claim.

A represents the body of the cock. B is plug-chamber, and C is the cap which is screwed upon the upper end of the plug-chamber B. In the body A, just below the plug-chamber B, is a partition, *a'*, which has a hole through it for the passage of the water, and which forms the seat for the plug D. In the opposite sides of the plug D are formed two grooves, *d'*, extending from the lower end of the said plug D nearly to its upper end, to receive two pins, *b'*, projecting inward from the opposite sides of the chamber B. The lower parts of the grooves *d'* are inclined, and their upper parts are nearly horizontal,

so as to lock the plug to its seat when closed, and so that the plug may rise and descend quickly when being opened and closed. The grooves *d'* pass around half the circumference of the plug D, so that the cock may be fully opened and closed by a half-turn of the plug D. E is the stem, which passes out through a hole in the cap C, and has a handle, F, attached to its upper end. To the lower end of the plug D is attached a wooden block, G, which fits into the hole in the partition *a'*, and serves as a packing. H is a wooden block placed upon the stem E in the upper part of the chamber B, and which fits into a rabbet or seat, *b''*, formed for it in said chamber, and into which it is firmly pressed by the cap C. The wooden block H serves as a packing, and the top of the plug D is pressed against it firmly when the cock is opened, so that there can be no leaking around the cap C or around the stem E.

By lengthening the chamber B, and placing a spring upon the stem E, between the plug D and the block H, the device becomes a self-closing cock.

The device can also be used for a steam-valve and for various other purposes.

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

The two opposite plug-grooves, *d' d'*, almost horizontal near top, and then winding spirally toward bottom, as and for the purpose described.

JAMES McLAUGHLIN.

Witnesses:

JAMES T. GRAHAM,
JAMES H. HUNTER.