(No Model.)

S. S. WILLIAMS.

COCK AND FAUCET.

No. 260,073. Patented June 27, 1882.

Fig. 1.

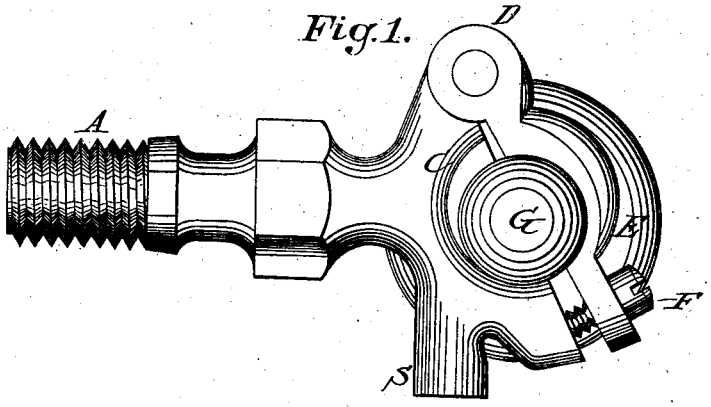


Fig. 2.

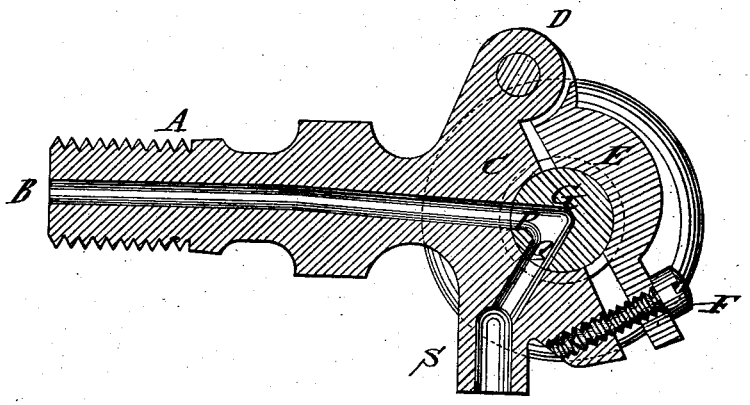
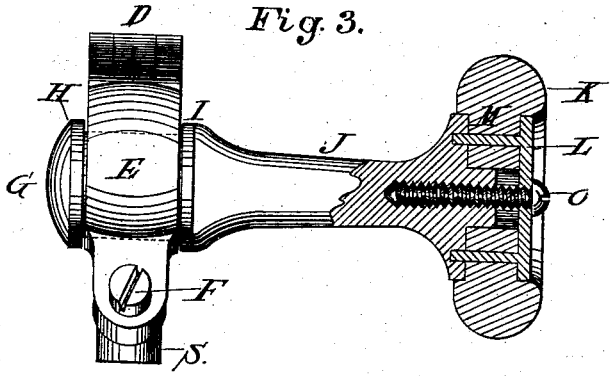


Fig. 3.



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UNITED STATES PATENT OFFICE.

SILAS S. WILLIAMS, OF ERIE, PENNSYLVANIA, ASSIGNOR TO JOHN B. RUTH, OF SAME PLACE.

COCK AND FAUCET.

SPECIFICATION forming part of Letters Patent No. 260,073, dated June 27, 1882.

Application filed December 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, SILAS S. WILLIAMS, a citizen of the United States of America, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Cocks and Faucets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings and letters or figures of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side elevation; Fig. 2, a longitudinal vertical section, and Fig. 3 an end view with the handle of the plug partly in section.

My invention relates more particularly to that class of cocks in which a rotating plug is used; and it has for its object the lessening of the friction in the movement of the plug and provision made for taking up the wear resulting from friction; and it consists in the construction and arrangement of parts, as will be hereinafter more particularly set forth.

Heretofore cocks of this class have been constructed with a conical seat and a conical plug fitting therein, with apertures made to coincide with the entrance and discharge orifices when the cock is open, and brought over the blank parts when the cock is closed. These have been objectionable for the reason that the plug is held in place by friction against the casing, and for that reason requires much power for turning, except where the cock is small, and that the plug wears away and must from time to time be turned and ground down, each time sinking lower in the casing. I overcome these objections by the construction hereinafter described.

A represents a barrel, with a passage, B, running through its center longitudinally, and terminating in a jaw, C, to the upper end of which, at D, a clamping-jaw, E, is hinged and extends down over the jaw C, and closes down over it, and is held at its lower end by a screw, F, passing through the lower end of the jaw and into the lower end of the jaw C.

The central parts of the two jaws, at the end of the passage B, are cut out and finished to receive a round, straight, finished plug, G, which is held between the jaws by the screw F, and provided with annular flanges H and I, on either side of the jaws, and terminates in a stock, J, to the end of which a wooden hand-piece, K, is secured by means of a metal plate, L, provided with pins M and N, passing through the wooden hand-piece into the end of the stock, for the purpose of preventing the hand-piece K from turning when used, and held there by a screw, O, passing through the plate and hand-piece into the end of the stock. The hinged jaw is so proportioned and hung that it will not close down on the lower jaw in the first instance, but will set up from it, so as to leave room for being closed down by the screw F, to take up the wear.

The plug G is provided with a passage, P, for coinciding at its outer end with the passage B, and extending to its center, at which point it receives a passage which extends to a suitable point for coinciding with a passage, R, in the jaw C, which leads to and discharges into the nozzle S of the cock.

The passages P, Q, and R are so located and arranged that when the plug G is in the position shown in Fig. 2 of the drawings there will be a continuous channel from the passage B, through P, Q, and R, out of the nozzle. To close the cock the plug G is turned to a position that will bring solid metal in front of the passage B.

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

1. A straight plug held in position at the end of the barrel by a hinged jaw, substantially as hereinbefore set forth, and arranged and operating so that the wear may be taken up by the hinged jaw, as described.

2. In combination, the barrel A, hinged jaws C and E, straight plug G, provided with a deflecting-passage, P Q, and a screw, F, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

SILAS S. WILLIAMS.

Witnesses:

JOHN B. RUTH,

FRED E. DEWEY.