W. Clereland

Faucet,

No. 53,271. Patented Mar. 20, 1866.

Fig: 5.

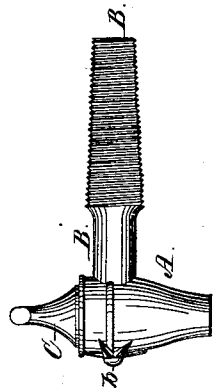


Fig: 6.

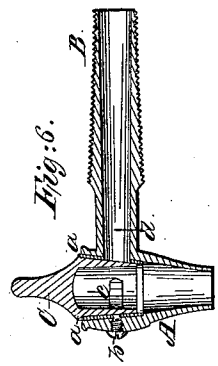


Fig: 4.

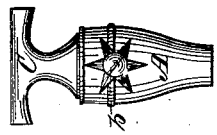


Fig: 7.



Fig: 8.

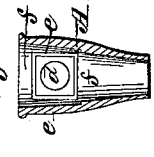


Fig: 2.

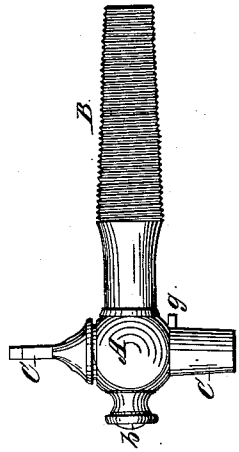


Fig: 3.

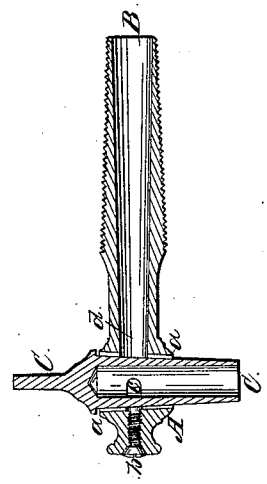
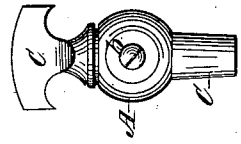


Fig: 1.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM CLEVELAND, OF ORANGE, NEW JERSEY.

IMPROVEMENT IN STOP-FAUCETS.

Specification forming part of Letters Patent No. **53,271**, dated March 20, 1866.

To all whom it may concern:

Be it known that I, WILLIAM CLEVELAND, of Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Stop-Faucets; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a front view of one of the faucets. Fig. 2 represents a side view of the same, and Fig. 3 represents a longitudinal section of the faucet. Figs. 4, 5, and 6 represent similar views of a faucet constructed on the same general plan. Fig. 7 represents a horizontal section through the bowl of the faucet shown at Figs. 4 and 5; and Fig. 8 represents a vertical section through the bowl, looking toward the bore of the faucet.

Similar letters of reference, where they occur in the several figures denote like parts of the faucet in all cases.

My invention consists, first, in the mode of holding the key to the bowl of the faucet, and of regulating the extent of the turning motion of said key in the bowl by means of a screw or pin passed through the bowl and into a slot in the key, or vice versa; and my invention further consists in making horizontal projections on the inside of the bowl above and below the orifice of the faucet, which horizontal projections unite with vertical projections similarly made at each side of the orifice, so that the packing all around the orifice shall bear against projecting surfaces or edges, and thus prevent any leakage at that point or between the lining or packing and the body of the faucet.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The common mode of fastening a key to a faucet is by a nut and washer on the lower end of the key. This is expensive, and in soft-metal faucets by no means reliable and durable; besides it requires the key to extend through the bowl, which is not actually necessary by my mode.

A represents the bowl, and B the tube, and C the key, of a faucet. The inside of the bowl is lined with rubber, gutta-percha, leather, or any other suitable packing, as shown at *a* in Figs. 3, 6, 7. (Shown by red sectional lines.)

A screw, *b*, is passed through the bowl B of the faucet (at its front by preference, as it gives it a finish,) and the point of the screw extends into a horizontal slot, *c*, formed in the key. This screw-and-slot fastening not only holds the key C to the bowl of the faucet, but regulates the extent of the motion of the key, so as to bring the openings opposite each other at one motion and insure their stoppage at the opposite motion.

In Figs. 1, 2, 3, the key C has the flow-out tube made a part of itself, while in Figs. 4, 5, 6, the bowl is elongated and forms the flow-out tube.

I have heretofore made the vertical projections in the bowl, which embed themselves in the packing or lining of the bowl to prevent it from slipping, the subject-matter of Letters Patent, and have now combined with the two vertical projections *e* next the orifice *d* two horizontal projections, *f*, one above and the other below the orifice, and connecting with the vertical ones, so as to make a continuous projection all around the orifice, which, embedding themselves in the packing, not only prevent any slipping, but also any and all leakage between the bowl and the packing or lining; and instead of the screws *b*, or in addition thereto, I may use a pin or screw, *g*, inserted in the key and turning on or against the bottom of the body A, for the purpose of holding the key to the body of the faucet, as shown in Fig. 2.

Having thus fully described the nature, object, and purpose of my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

1. Securing the key to the bowl or body of a faucet by means of a screw passing through the bowl or body and its point passing into a slot in the key, and by a pin or screw inserted in the key and turning on or against the bottom of the body, so that the key, by means of said screw and pin, may be prevented from leaving the body of the faucet, but freely turn therein a defined distance, substantially as described.

2. Surrounding the orifice of the faucet by a projection which will embed itself in the packing or lining of the faucet, so as to entirely prevent leakage between the bowl and said packing or lining, substantially as herein described.

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