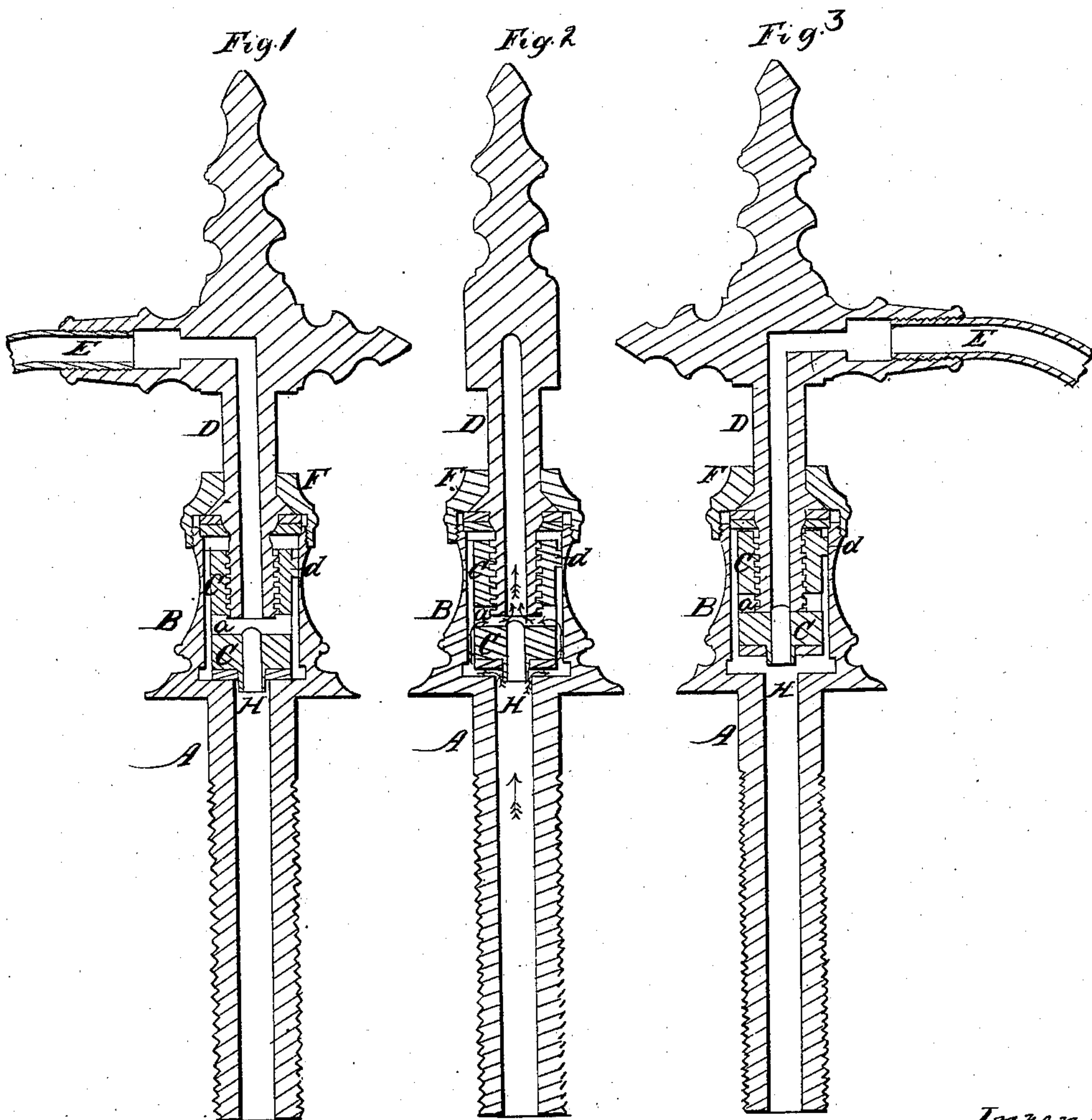


C. A. Howard,
Basin Faucet,
No 78,804, Patented June 9, 1868.



Witnesses
John H. Shumway
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Inventor
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CORNELIUS A. HOWARD, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO
HIMSELF AND RICHARD McCLOY, OF SAME PLACE.

Letters Patent No. 78,804, dated June 9, 1868.

IMPROVEMENT IN COMPRESSION-COCKS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CORNELIUS A. HOWARD, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Compression-Cocks; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a vertical central section, closed by the turning of the cock to the left,

Figure 2 a vertical central section, open by the turning of the cock to the front, and in

Figure 3 a like section, closed by turning the cock to the right.

This invention relates more particularly to what are called basin-cocks, or such as are used upon set basins, the nozzle of the cock being arranged so as to be turned either to the right or left, the object being the construction of the cock so that it will be closed when turned either to the extreme right or left, and wide open at intermediate points; and the invention consists in the arrangement of a valve operated by a screw upon the plug, so that the said screw operates to close the valve down upon the inlet when turned in one direction, and close the end of the plug when turned in the opposite direction, and so as to open from the inlet to the plug when in an intermediate position.

In order to the clear understanding of my invention, I will fully describe the same as illustrated in the accompanying drawings.

A is the shank, to which the supply-pipe is attached in the usual manner, and upon the said shank the base, B, is formed in the usual manner, the base, B, forming a chamber, within which is placed the valve C, the said valve being of less diameter than the chamber, so that a space will be left around the valve, as seen in the several figures, and is formed with an opening, *a*, through the valve from side to side.

D is the plug, provided with a nozzle, E, in the usual manner, and attached to the base by means of the cap, F, at the upper end, and so as to hold the plug in position, and pack the joint, as seen in the several figures. The lower end of the plug has a thread cut upon its outer surface, and the upper end of the valve a corresponding internal thread, so that the plug will screw into the valve, as seen in the several drawings; therefore, by turning the plug from right to left, and *vice versa*, it will be seen that as the plug can, by its attachment, have no vertical movement, the valve will be drawn up on the plug or forced down, as the case may be, the valve being prevented from turning by a projection, *d*, upon the side of the valve, working in a groove in the chamber within the base. The length of the plug is such, that when the valve is down hard upon and so as to close the inlet H, the lower end of the plug will be open into the space *a*, as seen in fig. 1, but when turned half around to the right, then the valve has been raised by drawing the valve up on to the plug, but not sufficiently high for the valve to strike and close the plug; therefore the water will flow into the chamber and through the passage *a* into the plug, and out, as denoted by arrows, but, when turned to the extreme right, then the valve will have been so far raised as to close the end of the plug, as seen in fig. 3. Thus it will be seen that it will be impossible to turn the valve to the right or left beyond a certain point, and that certain point always closes the cock.

I do not wish to be understood as broadly claiming a compression-cock, or one which closes by turning to the extreme right or left, and wide-open at intermediate points, as such construction is not new.

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

The valve C, constructed with the passage *a*, and arranged within the chamber B, and combined with the plug D, when the said plug D is arranged so as to operate the said valve to close the inlet at one extreme and the plug at the other, and open at intermediate positions, substantially in the manner herein set forth.

CORNELIUS A. HOWARD.

Witnesses:

A. J. TIBBITS,

J. H. SHUMWAY.