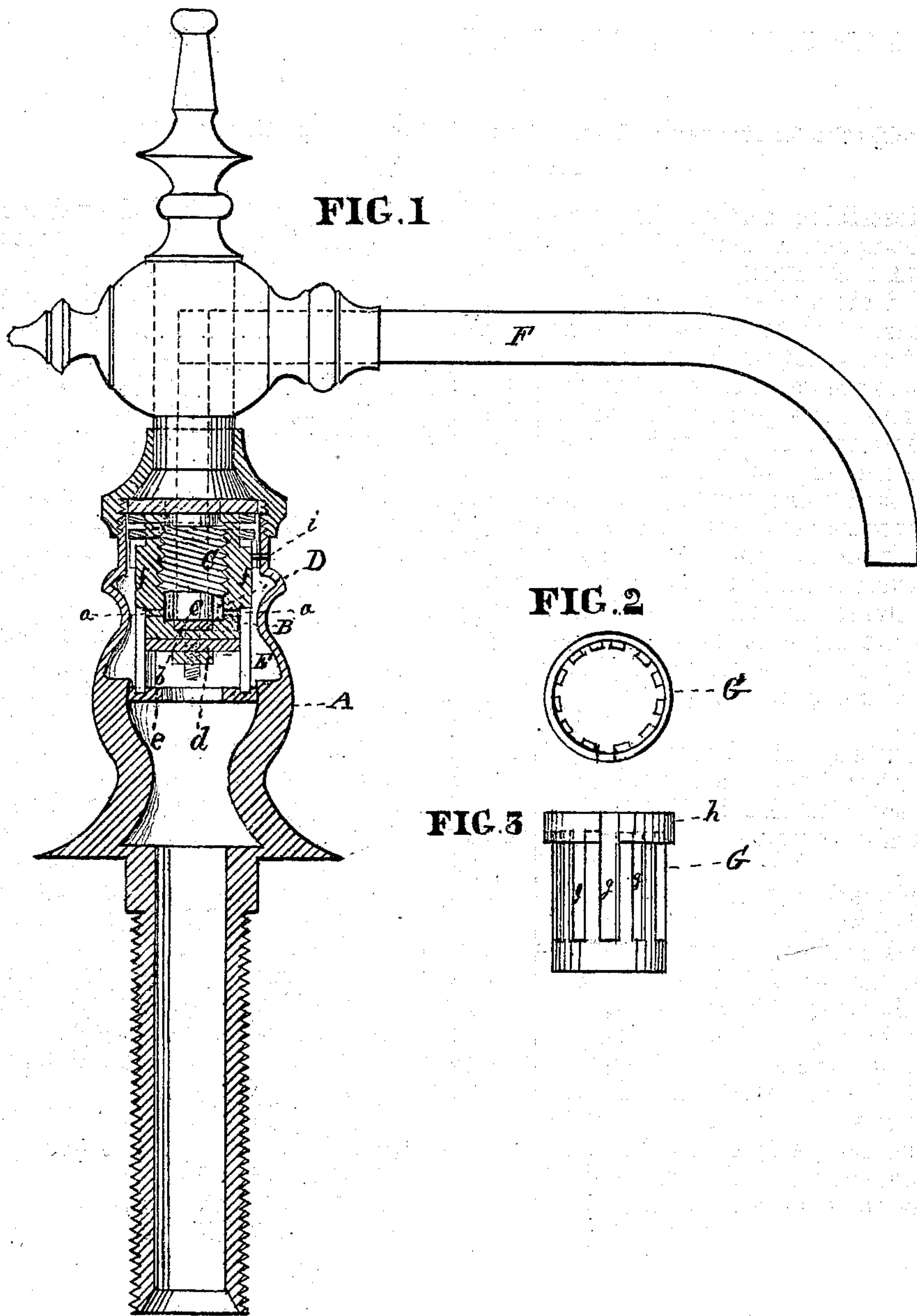


WILLIAM GORDON.

Improvement in Swing-Compression Basin-Cocks.

No. 127,340.

Patented May 28, 1872.



Witnesses

Thomas J. Dewley  
Isaac Rindge

Inventor.

William Gordon

By His Attorney.

Stephen Ustick

# UNITED STATES PATENT OFFICE.

WILLIAM GORDON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF TWO-THIRDS OF HIS RIGHT TO ANDREW McCAMBRIDGE AND THOMAS KENNEDY, OF SAME PLACE.

## IMPROVEMENT IN SWING-COMPRESSION BASIN-COCKS.

Specification forming part of Letters Patent No. 127,340, dated May 28, 1872.

Specification describing certain Improvements in Swing-Compression Basin-Cocks, invented by WILLIAM GORDON, of the city of Philadelphia and State of Pennsylvania.

Usually, the nozzle has to be swung back in a certain direction to cut off the water. Inexperienced persons are liable to turn it in the wrong direction, and consequently the water will continue to flow until the mistake is rectified. To obviate the difficulty, in addition to the usual valve on the lower end of the plunger, which closes the water-passage when the nozzle is turned back in one direction, the plunger is provided with a valve-seat on its inside, upon which a valve on the lower end of the center-stem closes when the nozzle is turned back in the other direction; and hence the water-passage is closed when the nozzle is turned back in either direction.

Figure 1 represents a vertical section of the improved cock. Figs. 2 and 3 are a top and side elevation of the slotted tube G.

Like letters in all the figures indicate the same parts.

A is the body of the faucet. B is a plunger, which is connected with the central screw-stem C in the usual manner. The plunger has perforations *a*, through which the water passes into its central chamber D from the valve-chamber E. The bottom of the chamber D has a valve-seat, *b*, which closes upon the valve *c* on the end of the stem, when the nozzle F is turned back into the position it assumes in Fig. 1. When the nozzle is turned back in the other direction, the valve *d* on the end of the plunger closes upon the seat *e*. Hence it

will be seen that by the use of the valve *c* and seat *b* the water is cut off when the nozzle is turned back either to the right or left. For the purpose of adjusting the plunger B so as to open and close the valves when the nozzle is in the right position, I combine the slotted tube G, shown in detail in Figs. 2 and 3, with the chamber E. The plunger has vertical ribs *f f* which connect with two opposite slots, *g*, of the tube when adjusted. These slots are continued all around the tube so as to provide for the ribs *f f* being connected with it when turned around into any position to adjust the plunger. The slots also serve to admit the free passage of water from the chamber E to the plunger B. The upper end of one of the slots *g* is projected through the ring *h* of the tube, so as to connect the said part of the slot with a pin, *i*, that projects from one side of the chamber E.

I claim as my invention—

1. The valve *c* on the lower end of the screw-stem C, in combination with the seat *b* inside of the lower end of the plunger B, for cutting off the water when the plunger assumes its upper position, as seen in Fig. 1, substantially as described.

2. An annular series of slots inside of the body of the cock and surrounding the plunger B, for the adjustment of the same, to regulate the position of the nozzle, substantially in the manner described.

WILLIAM GORDON.

Witnesses:

THOMAS J. BEWLEY,  
STEPHEN USTICK.