

(No Model.)

T. HENNESSY.

STOP VALVE.

No. 273,839.

Patented Mar. 13, 1883.

Fig. 1.

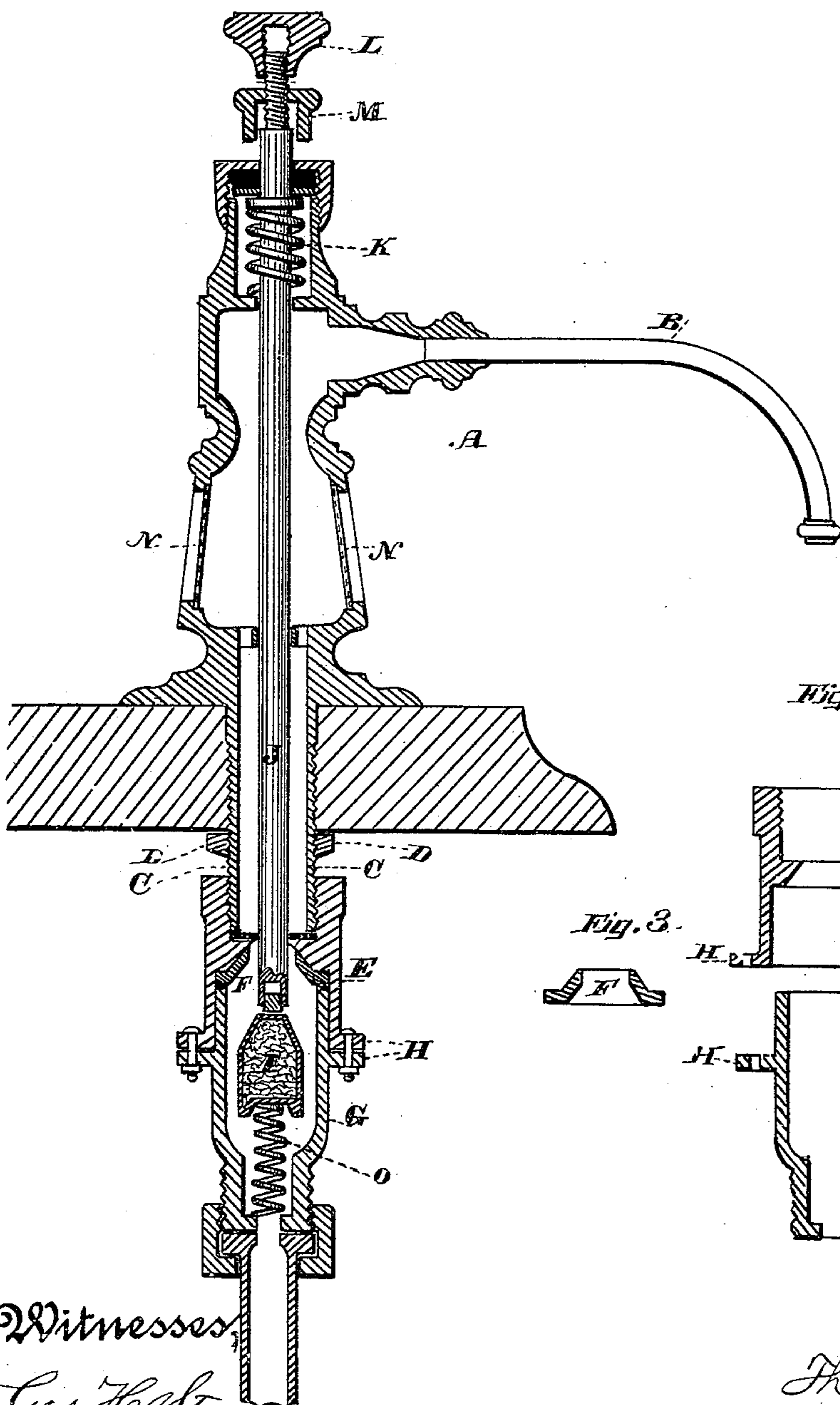


Fig. 2.

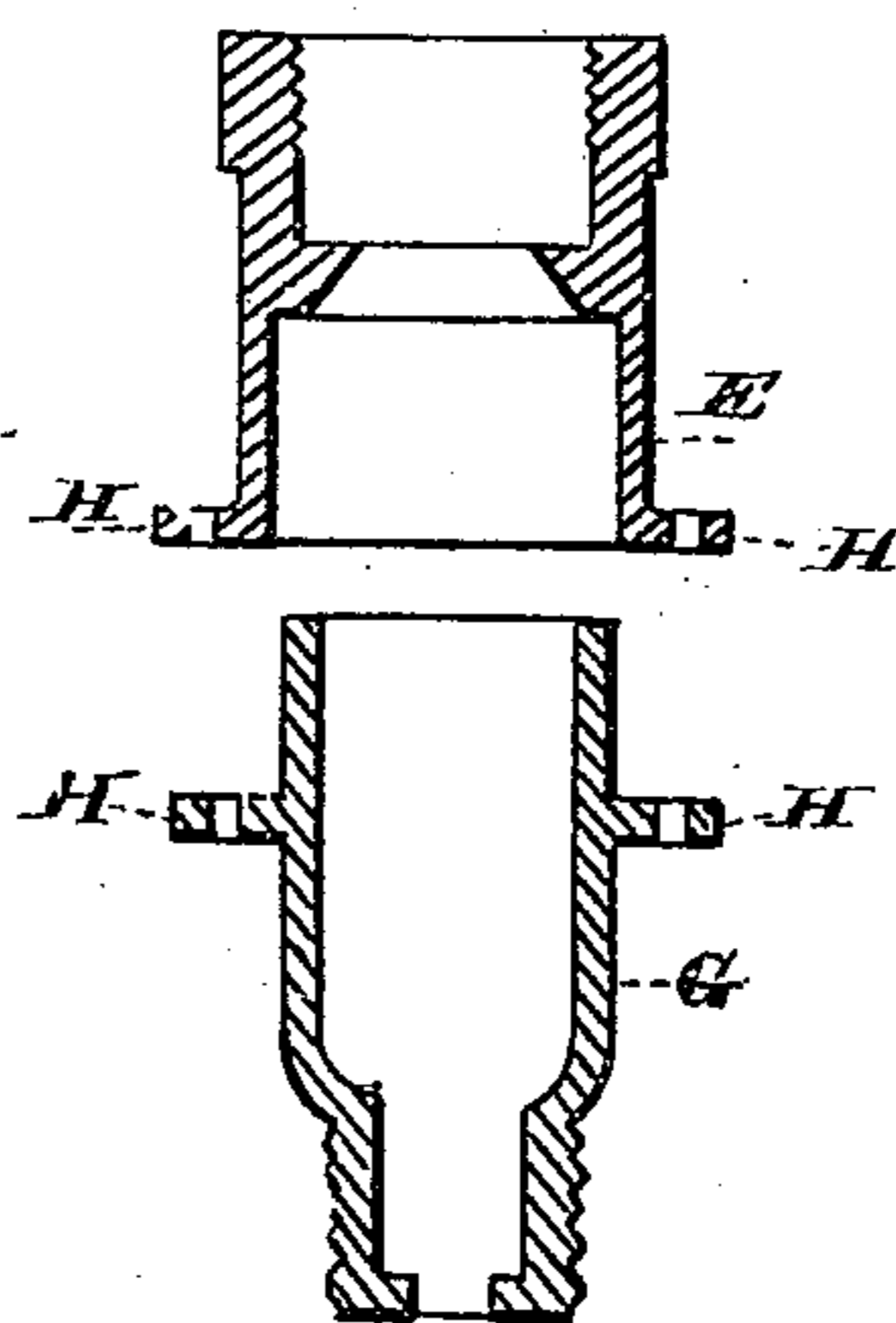
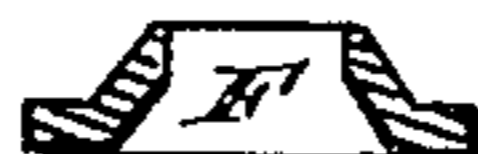


Fig. 3.



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UNITED STATES PATENT OFFICE.

THOMAS HENNESSY, OF OAKLAND, CALIFORNIA.

STOP-VALVE.

SPECIFICATION forming part of Letters Patent No. 273,839, dated March 13, 1883.

Application filed August 8, 1882. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HENNESSY, of Oakland, county of Alameda, State of California, have invented an Improved Stop-Valve; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to certain improvements in valves for water-closets, basins, &c., and it is more especially applicable to a device for which Letters Patent were issued to me November 18, 1879.

It consists of certain details of construction, embracing an adjustment of the spindle to regulate the opening of the valve, a removable valve-seat, and a valve-seat chamber made independent of the upper part of the cock, a spring to hold the valve to its seat, and a transparent chamber through which to inspect the interior, all of which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a vertical section. Fig. 2 shows the lower portion removed. Fig. 3 is a view of the valve-seat.

In my former patent the valve-chamber, valve-seat, and valve were situated within the body of the cock, above its connection with the supply-pipe, and it was necessary to take the whole device in pieces to get at it. The stem or spindle by which the valve was depressed was also constructed to move a fixed distance, and would not limit or regulate the opening of the valve except to the amount for which it was originally set.

In my present invention, A is the cock or faucet as it appears above the marble of a wash-stand, and B is the discharge-pipe or bib.

C is a screw-extension passing through the top of the wash-stand, and D a nut to be set up beneath, so as to secure it rigidly in place.

The upper part, E, of the valve-chamber is screwed upon the lower end of the extension C, and the valve-seat F is fitted into it, so as to be removed and renewed at pleasure without disturbing this part E of the valve-chamber.

The lower part, G, of the valve-chamber fits into or against the upper portion, as shown,

and may be secured to it by bolts passing through flanges H.

The valve I is of similar construction to that shown in my former patent, and closes the water-passage by rising against the seat F. It is opened by means of a stem, J, which extends down through a stuffing-box in the top of the cock, and when it is forced down its lower end presses upon the top of the valve and forces it away from its seat. A spiral spring, K, surrounds its upper part and returns it to its place when released.

In order to regulate the amount of opening which shall be given the valve, a screw-thread is cut upon the top of the spindle J, and the knob L is screwed down upon it with a lock-nut, M, so that it may be fixed at any desired point. The bottom of the nut M strikes the top of the stuffing-box when the stem is depressed, and thus limits the downward movement according to the point at which it is set.

In cold weather, where the water must be shut off over night to prevent freezing in the cocks and pipes, the body of the faucet may have a glass cylinder, N, forming a part of it.

When the water has been shut off, if the valve is allowed to drop, it may become slightly frozen or fast to the bottom, so that when water is again turned on it would not act. To prevent this I employ a light spring, O, in the chamber below the valve, and this spring exercises just sufficient pressure upon the bottom of the valve to keep it closed when the water is off.

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

1. The independent valve I, moving freely in its chamber, and closing upwardly against the seat F by the pressure from below, in combination with the stem J, extending vertically downward through the cock to the top of the valve, and having the adjustable knob L, by which the opening of the valve is regulated, substantially as herein described.

2. The basin cock or faucet having the valve I, moving independently within the chamber E G, and operated by the stem J, as shown,

in combination with the removable valve-seat F, fitted into the part E of the chamber, substantially as herein described.

3. The basin cock or faucet A, with its screw-
5 extension C, in combination with the valve-chamber, the upper part, E, of which screws upon the extension, while the lower part, G, is bolted to it, so as to be detached without re-

moving the faucet, substantially as herein described. 10

In witness whereof I have hereunto set my hand.

THOMAS HENNESSY.

Witnesses:

GEO. W. EMERSON,
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