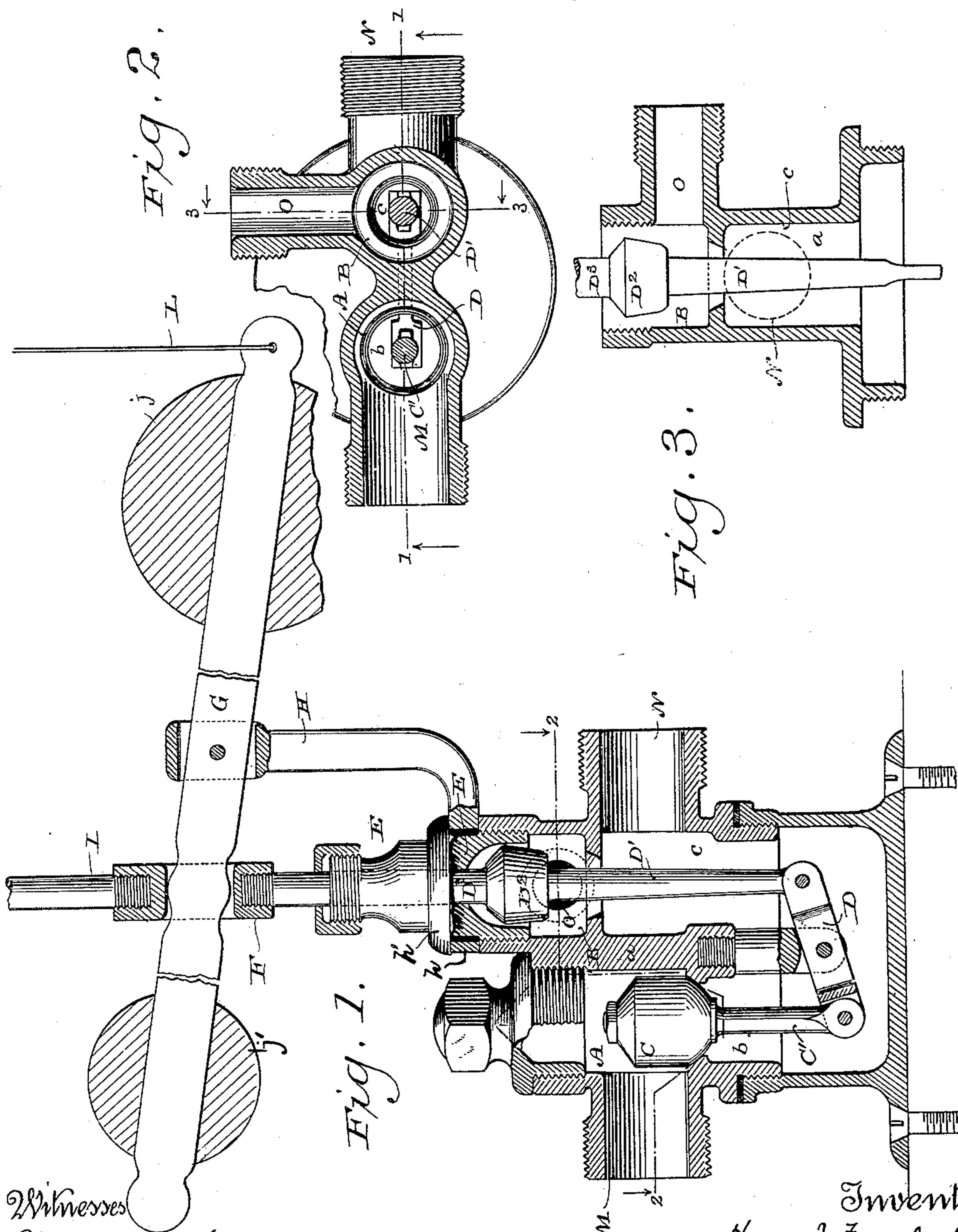


(No Model.)

H. J. FREUDENFELD.
STOP AND WASTE COCK.

No. 424,774.

Patented Apr. 1, 1890.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY J. FREUDENFELD, OF MILWAUKEE, WISCONSIN.

STOP AND WASTE COCK.

SPECIFICATION forming part of Letters Patent No. 424,774, dated April 1, 1890.

Application filed August 2, 1889. Serial No. 319,536. (No model.)

To all whom it may concern:

Be it known that I, HENRY J. FREUDENFELD, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Stop and Waste Cocks; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to stop and waste cocks, and will be fully described hereinafter.

In the drawings, Figure 1 is a vertical sectional view of my invention on line 1 1 of Fig. 2. Fig. 2 is a horizontal section on line 2 2, Fig. 1, and Fig. 3 is a vertical section on line 3 3, Fig. 2.

A B are valve-chambers that are both formed in the same casting, the wall *a* separating the two chambers and also separating the inlet-chamber *b* from the outlet-chamber *c*, and below *b* and *c* there is a well through which the two chambers communicate. The inlet-valve C has its seat in the mouth of chamber *b*, and its stem *C'* projects down to a rocking lever D, to which it is pivoted at one end, the other end of this lever being pivoted to the lower stem *D'* of the waste-valve *D*², which has its seat in the bottom of chamber B. The upper stem *D*³ of waste-valve *D*², after passing through a bushing E, has screwed to it a turn-buckle F, which has a longitudinal opening through it, and through this opening is passed one arm of a lever G, that is pivoted in a bracket H, the lower arm of which is formed with a ring *h*, through which the bushing E passes before it is screwed into the outlet-chamber B, the rim *h'* of the bushing clamping the ring between it and the top of the wall of chamber B. The turn-buckle F may have another stem I screwed into it from above, by which the valve-stem *D*³ may be operated directly from above when my device is used for flushing water-closets, for instance; but the valve *D*² is normally held open by lever G, one end of which carries a large weight *j*, and to the end of lever G that carries the weight *j* a wire L is attached, which leads to any convenient portion of the building and by which this end of the lever is lifted to close valve *D*² and open valve C to admit water to the building and stop the waste through chamber B. To facilitate the operation of lever G and steady

its action, a counter-balance *j'* is placed on its end opposite the weight *j*.

The operation of my device is as follows: The water from the main enters at port M. Port N leads into the building, and port O leads to the sewer. As the parts are shown in Fig. 1, the water is shut out of the building and the waste-valve has been opened to allow the water in the pipes to drain out. Now, when water is desired in the building the stem *D*³ is depressed either by the stem I or wire L and valve *D*² is closed, and through its stem *D'* and lever D valve C is opened and water is admitted, and pressure will remain in the building-pipes as long as the parts are held in this position. Upon the release of lever G the valve C will close and valve *D*² will open automatically.

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

1. In a stop and waste cock, a casting having formed therein two valve-chambers, an inlet-chamber and an outlet-chamber, a wall separating the two valve-chambers and also separating the inlet-chamber from the outlet-chamber, and a well below said wall, through which well the last-named chambers communicate, in combination with valves in said valve-chambers, stems connected to said valves and passing down through the valve-seats and the inlet and outlet chambers into said well, a rocking lever pivoted to the lower end of said wall and moving in said well and there connected to the lower ends of said valve-stems, a stem rising from the upper end of one of said valves and passing out through said casting and carrying a turn-buckle, and a lever passing through the said turn-buckle and carrying weights at each end thereof, substantially as and for the purpose set forth.

2. In a stop and waste cock, the combination, with a casting having a port leading from the main and other ports leading to the sewer and building, respectively, and two valve-chambers, and an inlet and outlet chamber beneath the valve-chambers, a vertical wall separating the two valve-chambers and also separating the inlet and outlet chambers, and a well below said wall through which the inlet and outlet chambers communicate, of valves in said chambers having down-

ward-extending stems projecting into said well, a rocking lever in said well pivoted to the lower end of said wall and also pivoted to the lower ends of said valve-stems, a stem
5 on one of said valves projecting up through the top of the casting and suitably bushed and above this carrying a turn-buckle, a bracket rising from said casing, a lever pivoted to said bracket and passing through
10 said turn-buckle and carrying weights of different heaviness at each end outside of said bracket and turn-buckle, a stem secured

to and rising above said turn-buckle, and a wire secured to and rising above one end of said levers adjacent to the heavier weight 15 thereon, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

HENRY J. FREUDENFELD.

Witnesses:

S. S. STOUT,

WILLIAM KLUG.