(No Model.)

# J. DEMAREST.

## CISTERN FOR WATER CLOSETS.

No. 386,917. Patented July 31, 1888.

Fig. 3.

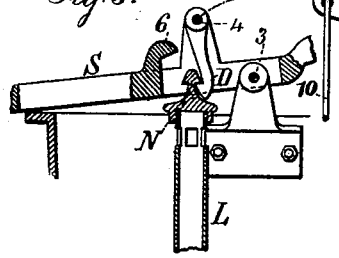



Fig. 1.

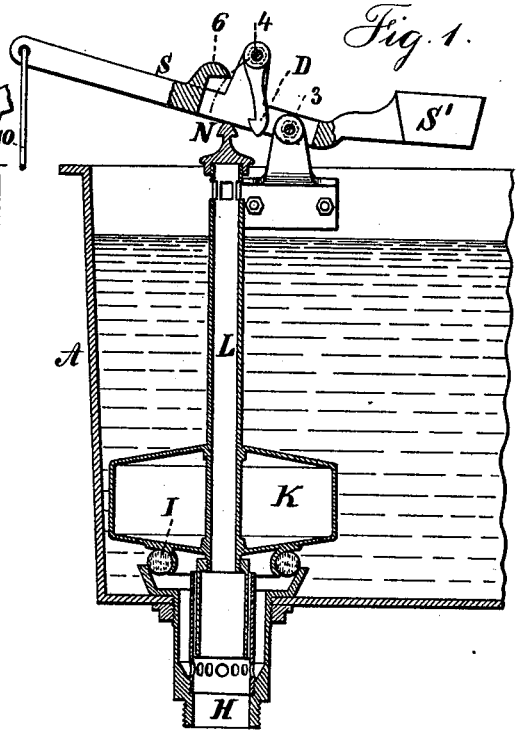
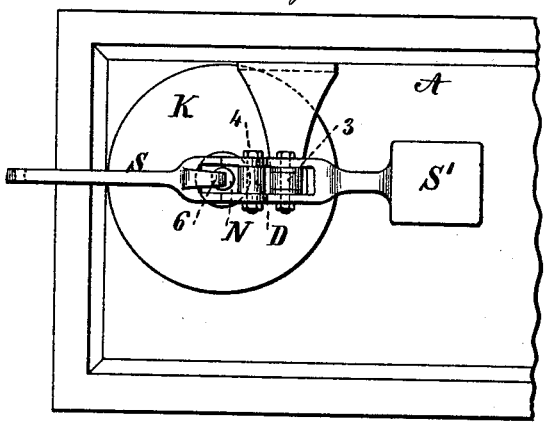



Fig. 2.

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# UNITED STATES PATENT OFFICE.

JOHN DEMAREST, OF NEW YORK, N. Y., ASSIGNOR TO THE J. L. MOTT IRON WORKS, OF SAME PLACE.

## CISTERN FOR WATER-CLOSETS.

SPECIFICATION forming part of Letters Patent No. 386,917, dated July 31, 1888.

Application filed August 26, 1887. Serial No. 247,915. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN DEMAREST, of the city and State of New York, have invented an Improvement in Cisterns for Water-Closets, of which the following is a specification.

Valves for water-closet cisterns have been made with a float that sustains the valve after such valve has been lifted until the water in the cistern has descended sufficiently to allow the valve to seal itself. A valve of this character is shown in Letters Patent No. 245,318, granted August 9, 1881, to John Robertson. It has been usual heretofore to actuate this kind of valve by a hand-pull after using the closet.

My present improvement is made for actuating the float-valve automatically by the closet-seat, or by a moving platform upon which the person stands, or by the closet door, so that when the person rises or leaves the closet the valve will be lifted and the float will sustain the same for the desired time during which the water is to run.

In the drawings, Figure 1 is a vertical section of a closet-cistern and a float-valve and actuating-lever. Fig. 2 is a plan of the same, and Fig. 3 shows the lever depressed and the hook under the button-head.

The cistern A is of any desired size or character, and from this cistern the flushing-pipe H extends to the closet, and at the upper end of this pipe is a seat for the valve I, to which is attached a float, K, and it is preferable to apply a tubular stem, L, to the valve and float, so that the same become an air-pipe and an overflow-pipe to the cistern, and at the upper end of this pipe or stem L there is a conical flange or button-head, N.

The lever S is pivoted at 3 upon the cistern, and the weighted end S' is sufficient to raise the valve and float against the pressure of the column of water in the cistern.

The hook D is suspended from the pivot 4 upon the lever S, and it is preferable to make this lever with a long eye, as shown in Fig. 2, within which the hook D hangs, and this eye is large enough to receive within it the button N; and there is also a finger, 6, that extends out over the button-head.

The wire or chain 10 is connected to the seat of the closet or other moving part, and when the seat is depressed the chain 10 draws down that end of the lever, elevating the weighted end, and bringing the hanging hook D down, so that its point drops in below the button-head N. Hence when the person rises from the seat or the chain N is liberated, the weight of the lever descends, the hook is lifted, and it lifts the valve off its seat, and the float raises the valve-stem until the button-head is arrested by the finger 6, and the pivot of the hook having moved in the arc of a circle the hook itself drops down vertically by gravity, and is away from the path of the button-head as it descends by the fall of the float, and the valve closes without being interfered with by the hook, and the parts are ready for the next operation.

I claim as my invention—

1. The combination, with the water closet cistern and a button-headed valve-stem, and a valve and float connected to the valve and sustaining the same when raised, of a lever pivoted upon the cistern and having a finger, 6, above the valve-stem, and a pivoted hanging hook upon the lever, the said hook being adapted to engage the button-headed valve-stem when the lever is depressed and to fall away from said button-head after the valve has been lifted, substantially as set forth.

2. The combination, with the water-closet cistern and a button-headed valve-stem, and a valve and float connected to the valve and sustaining the same when raised, of a weighted lever pivoted upon the cistern and having an elongated eye and a finger, 6, above the valve-stem, a hanging hook within the eye, and a pivot-pin connecting the hook to the lever and at one side of the valve-stem when raised, so that the hook will fall from the button-head upon the valve-stem after the valve has been lifted, substantially as set forth.

Signed by me this 18th day of August, 1887.

JOHN DEMAREST.

Witnesses:

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