

(No Model.)

2 Sheets—Sheet 1.

T. H. PLATT.

FLUSHING TANK.

No. 363,166.

Patented May 17, 1887.

FIG. 1.

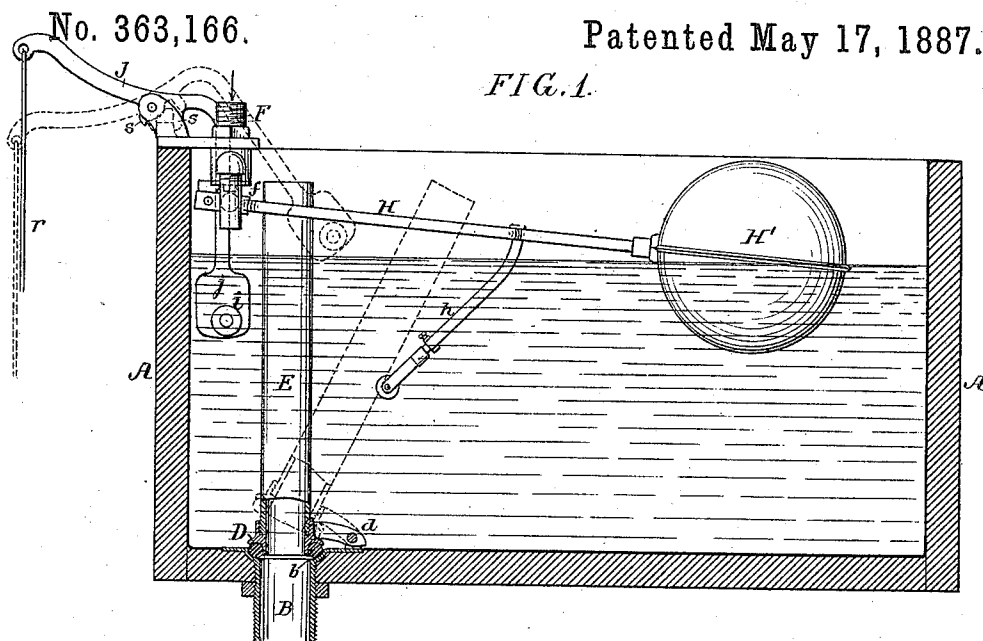
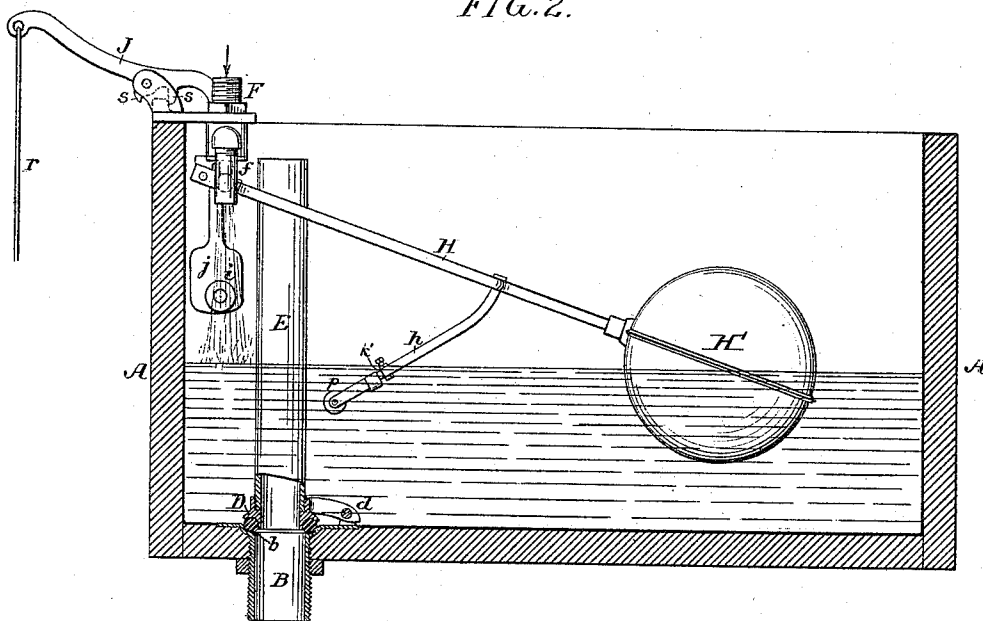


FIG. 2.



Witnesses:
Harry Drury
William D. Bonner.

Inventor:
Thomas H. Platt
by his Attorneys
Howson & Sons

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FIG. 3.

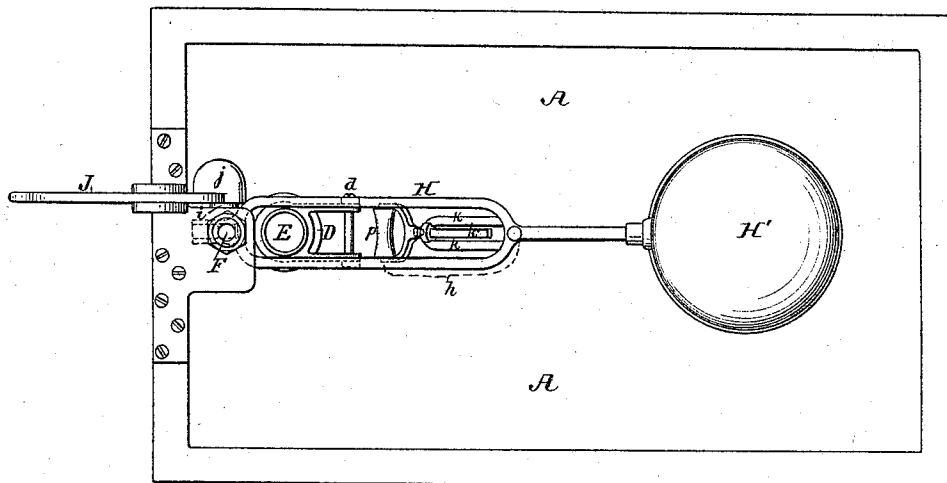


FIG. 5.

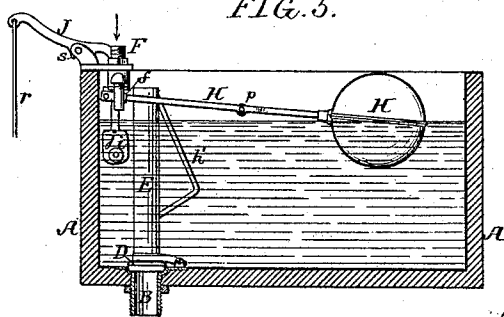
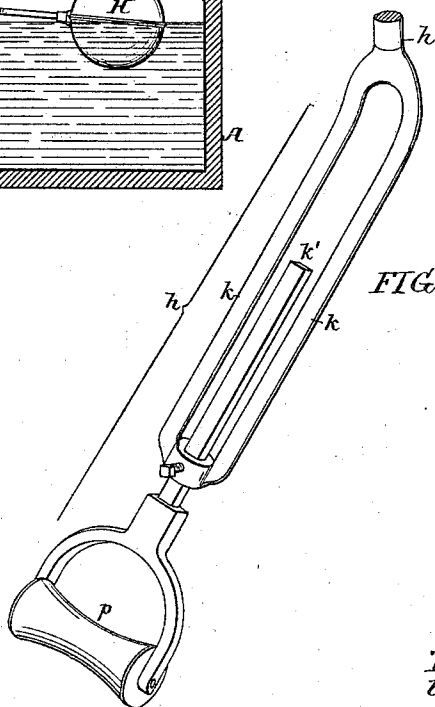


FIG. 4.



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UNITED STATES PATENT OFFICE.

THOMAS H. PLATT, OF PHILADELPHIA, PENNSYLVANIA.

FLUSHING-TANK.

SPECIFICATION forming part of Letters Patent No. 363,166, dated May 17, 1887.

Application filed March 18, 1887. Serial No. 231,429. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. PLATT, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Flushing-Tanks, of which the following is a specification.

My invention consists of certain improvements in the construction of flushing-tanks for water-closets, the main objects of my invention being to simplify and improve the construction and operation of the devices, and to provide a simple adjustment of the parts whereby the amount of water admitted to the pan of the closet may be regulated as desired.

In the accompanying drawings, Figure 1 is a vertical section of my improved flushing-tank. Fig. 2 is a corresponding view showing the float in its lowered position after it has caused the closing of the outlet-valve. Fig. 3 is a plan view of the tank. Fig. 4 is a perspective view of a detail drawn to an enlarged scale, and Fig. 5 is a view of a modification.

The tank A may be of any suitable construction, and it is shown in the drawings as of wood with a sheet-metal lining, and has the usual discharge-opening, B, to which is connected the pipe leading to the bowl or pan of the water-closet. This discharge-opening is provided with a concave or tapering valve-seat, *b*, to which is fitted the valve D, having a suitable packing-ring, shown in the present instance as of round section. This valve D is hinged at *d* to the bottom of the tank, and carries an upright stem or rod, E. For convenience I prefer to make this upright stem of the valve the overflow-pipe; but this is not essential.

F is the inlet for the water-supply, provided with a valve, *f*, of any usual construction, and controlled by the hinged lever H, carrying the float H'.

There is pivoted to suitable projections on the tank a curved lever, J, having a counterweight, *j*, at its lower end, and a finger or anti-friction roller, *i*, in such a position that when the lever J is tilted by pulling on the cord, rod, or chain *r* this finger or anti-friction roller will strike the stem E of the hinged valve and throw it over from the position illustrated by full lines in Fig. 1 to that shown by

dotted lines. The discharge-valve thus being raised from its seat, the water to flush the pan of the closet below will flow out as long as the valve remains open.

The stem of the valve, when it is tilted over, comes into contact with and is supported by an arm, *h*, on the lever H of the float. As the float descends with the fall of water, the lever H will tilt the stem and its valve back toward the upright position until—by the time the float-lever reaches the position shown in Fig. 2, for instance—the valve D will fall back to its seat and close the outlet. The descent of the float H' has at the same time opened the inlet-valve *f*, and the flushing-tank will fill up again in the usual way. Thus the one float-lever acts positively on both the inlet-valve and the hinged discharge-valve.

I prefer to make the arm *h* on the lever H extensible by suitable means, so that the outlet-valve may be made to close sooner or later in the descending movement of the float, and the amount of water for flushing the pan of the closet in that way regulated, as desired.

The form of extensible arm which I prefer is illustrated more clearly in Fig. 4, the portion *k*, carried by the lever H, being in this instance bifurcated, and having at its lower end a socket for the reception of the square or other-shaped stem *k'*, which carries at its lower end the anti-friction roller *p*, to bear against the stem E of the valve.

For convenience I prefer to bifurcate the float-lever H, so that the operative parts may be arranged in line with each other, the valve-stem being also guided by the bifurcated portion of the lever.

The lever J may be provided with stops *s*, acting in connection with a projection on the supporting-bracket to limit the movement of said lever in either direction.

Instead of bridging the distance between the float-lever and the stem of the valve by putting the projecting arm on the lever, the projection may be on the stem of the valve, in the form of a cam, *h'*, as shown in the modification, Fig. 5. In this case the anti-friction roller *p* is mounted directly on the float-lever.

I claim as my invention—

1. The combination of the inlet-valve of a flushing-tank, and the hinged discharge-valve

having an upright stem, with the float-lever controlling the inlet-valve, and constructed to strike the stem of the hinged discharge-valve to close it, substantially as described.

5 2. The combination of the inlet-valve of a flushing-tank, and the hinged discharge-valve having an upright stem, with the float-lever controlling the inlet-valve, and having an arm to strike the stem of the hinged discharge-
10 valve to close it, substantially as set forth.

3. The combination of the inlet-valve of a flushing-tank and the hinged discharge-valve having a stem constituting an overflow-pipe, with the float-lever controlling the inlet-valve,

and constructed to strike the stem of the dis- 15
charge-valve to close it.

4. The combination of the inlet-valve of a flushing-tank, and hinged discharge-valve having a stem, with the float-lever having an exten- 20
sible arm to strike the stem of the discharge-
valve, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two sub-
scribing witnesses.

THOMAS H. PLATT.

Witnesses:

WILLIAM D. CONNER,
HARRY SMITH.