

No. 675,491.

Patented June 4, 1901.

T. MANN.
FLUSHING TANK.

(Application filed Dec. 4, 1900.)

(No Model.)

Fig.1

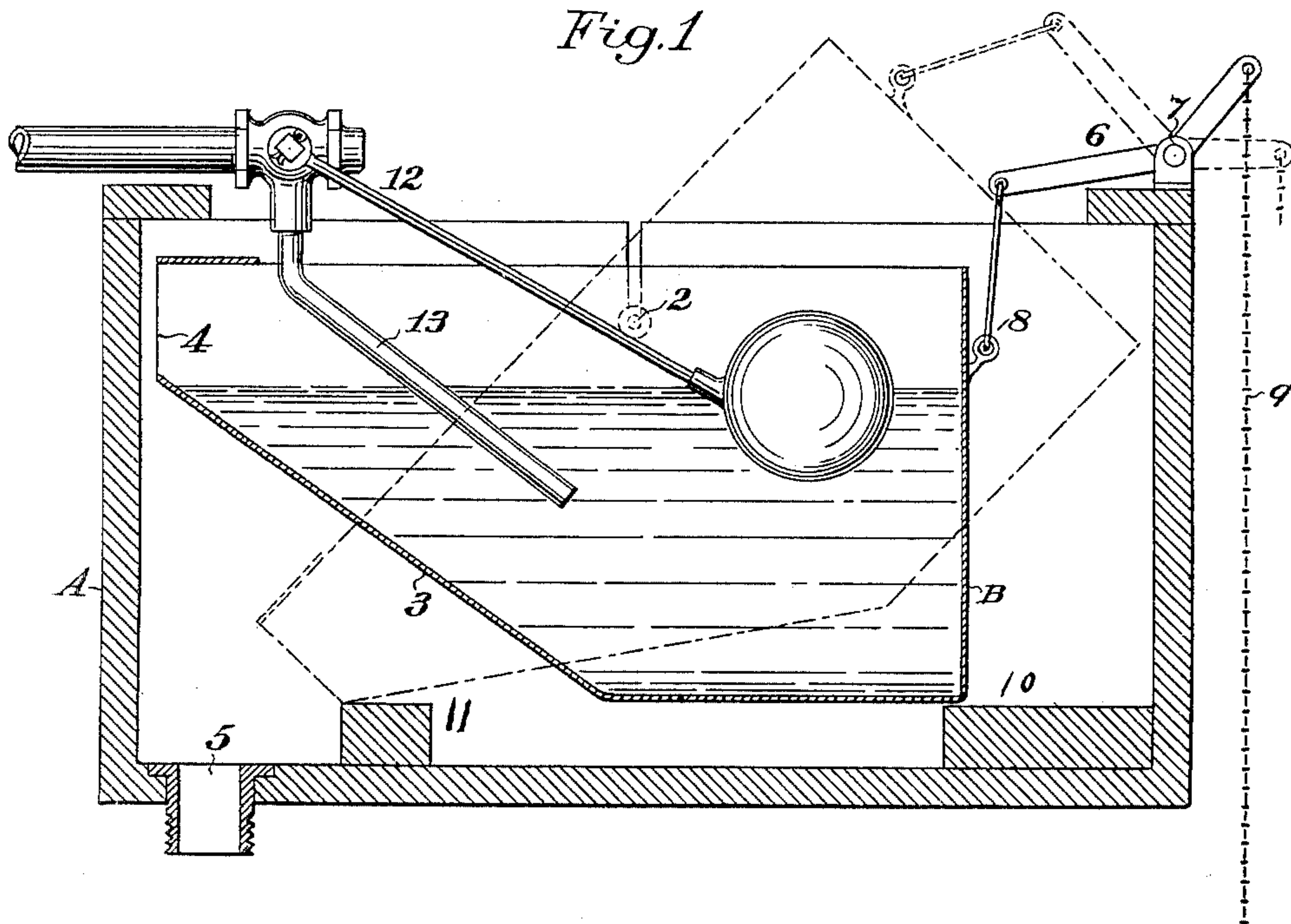
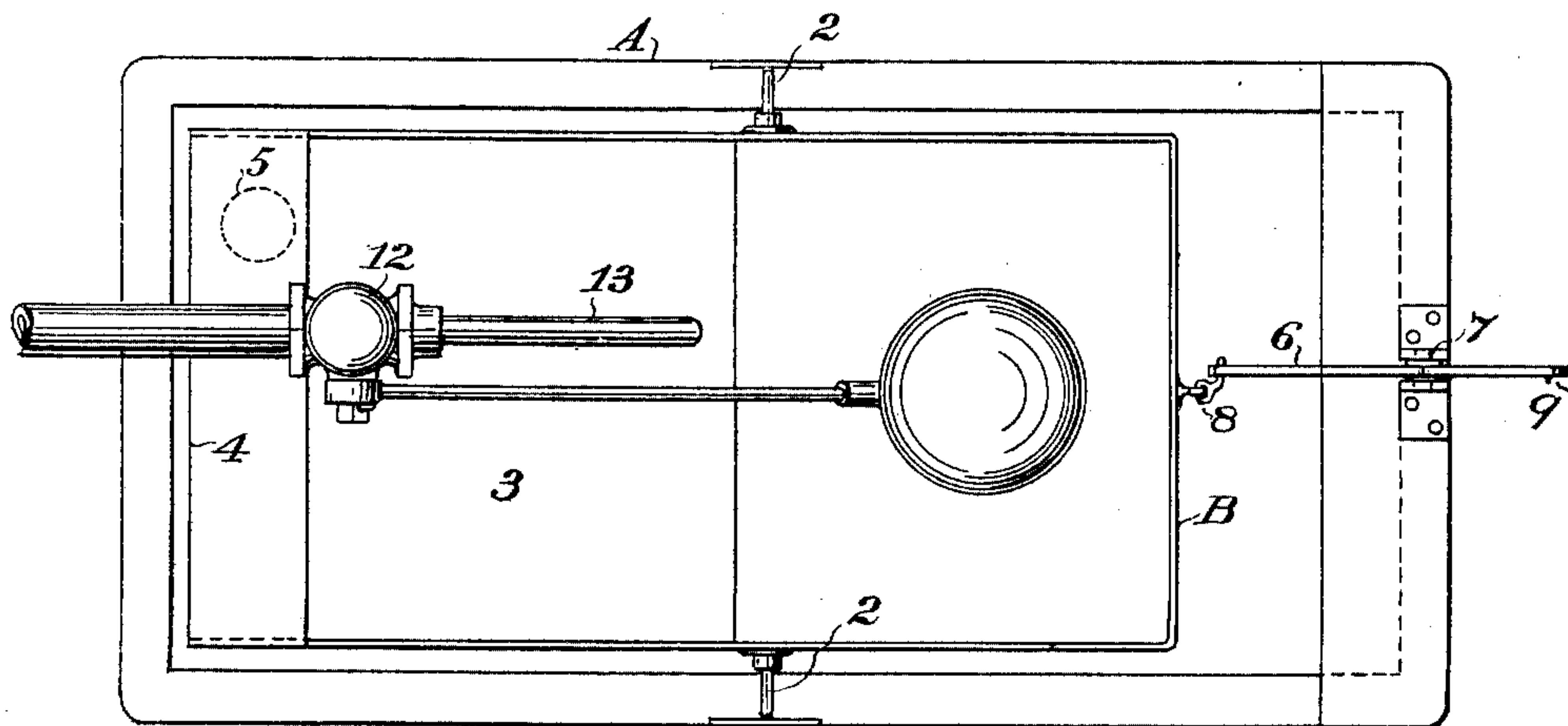


Fig. 2



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UNITED STATES PATENT OFFICE.

THOMAS MANN, OF PORTLAND, OREGON.

FLUSHING-TANK.

SPECIFICATION forming part of Letters Patent No. 675,491, dated June 4, 1901.

Application filed December 4, 1900. Serial No. 38,643. (No model.)

To all whom it may concern:

Be it known that I, THOMAS MANN, a citizen of the United States, residing at Portland, county of Multnomah, State of Oregon, have
5 invented an Improvement in Flushing-Tanks; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to an improved apparatus for flushing closets and the like or
10 where the discharge of a volume of water is desirable only at intervals.

It consists, essentially, of two tanks, one contained and pivoted within the other, means by which the interior tank may be tipped and
15 discharged of its contents and automatically righted and filled, and of details more fully to be set forth in the following specification and accompanying drawings.

Figure 1 is a longitudinal section of my invention. Fig. 2 is a plan of the same.
20

The object of my invention is to provide a simple, self-operating, and effective device whereby much of the annoyance arising from the rushing and gurgling of water in the fill-
25 ing and discharge of so many of the valve-tanks in use is obviated.

Referring to the drawings, A represents a tank of any desired size or material, situated at a suitable height above the bowl to be
30 flushed. The upper edges of the tank are vertically slotted at *a*, and to the side walls of an interior tank B are secured trunnions 2, which fit said slots, this arrangement providing for the ready removal of the tank B when
35 such act becomes necessary or desirable. This interior tank is of irregular shape, as shown, having its front end removed and a portion of its bottom 3 suitably inclined upwardly. The discharge from this tank is
40 through the opening 4 into the first tank, whence it flows to the bowl through the pipe 5. A lifting-lever 6, fulcrumed as at 7, connects with the tank, as at 8, and from the other end depends the usual cord or chain 9, by
45 which the tank is operated. The shape of the tank B permits this tank to be emptied easily and quickly, and by reason of the position of the pivots 2 to be righted automatically.

In the bottom of the tank A and beneath
50 the interior tank are the supports or seats 10 and 11. Upon the first the tank rests ordinarily and is prevented from swinging too far. The other acts as a rest for the inclined portion 3 when the tank is being emptied

and also serves to prevent splash of the wa- 55
ter in this discharge. This seat 11 consists of a block which is secured to the bottom of the tank A midway of its walls and fills about one-third of the space between these walls. By directing the flow from the tank B around 60
this block the splash and rush of the water that would otherwise follow is avoided. This is an element of considerable importance in making a noiseless flushing-tank.

The admission of water to the tank B may 65
be regulated by any well-known means, as by a float-valve 12 and an inlet-pipe 13.

The flow of water from the outer tank to the bowl is governed by the diameter of the flushing-pipe 5, which should be smallest 70
where it enters the bowl.

It is to be noted that all valves in my device except the necessary float-valve are dispensed with.

It is understood that I may vary the means 75
of suspending the inner tank, but preserving the principle of two tanks operating together, the one a discharge-tank inclosing a second tipping reservoir.

Having thus described my invention, what 80
I claim as new, and desire to secure by Letters Patent, is—

An improved flushing apparatus consisting of inner and outer tanks, the outer tank being larger than the other so as to inclose the 85
latter and being provided with slots in its upper edge and front and rear stops on its bottom, and an outlet forward of front stop; and the inner tank having trunnions on its sides engaging said slots, and having the front por- 90
tion of its bottom inclined upwardly; a water-supply pipe having an inlet-pipe inclined to lie substantially parallel with the inclined bottom portion of the inner tank and a float 95
connected with the stem of the water-supply valve, a substantially bell-crank lever fulcrumed on the upper rear edge of the outer tank and to one arm of which the pulling cord or chain is attached, and a link connect- 100
ing the other arm of the lever with the rear wall of the inner tank.

In witness whereof I have hereunto set my hand.

THOMAS MANN.

Witnesses:

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