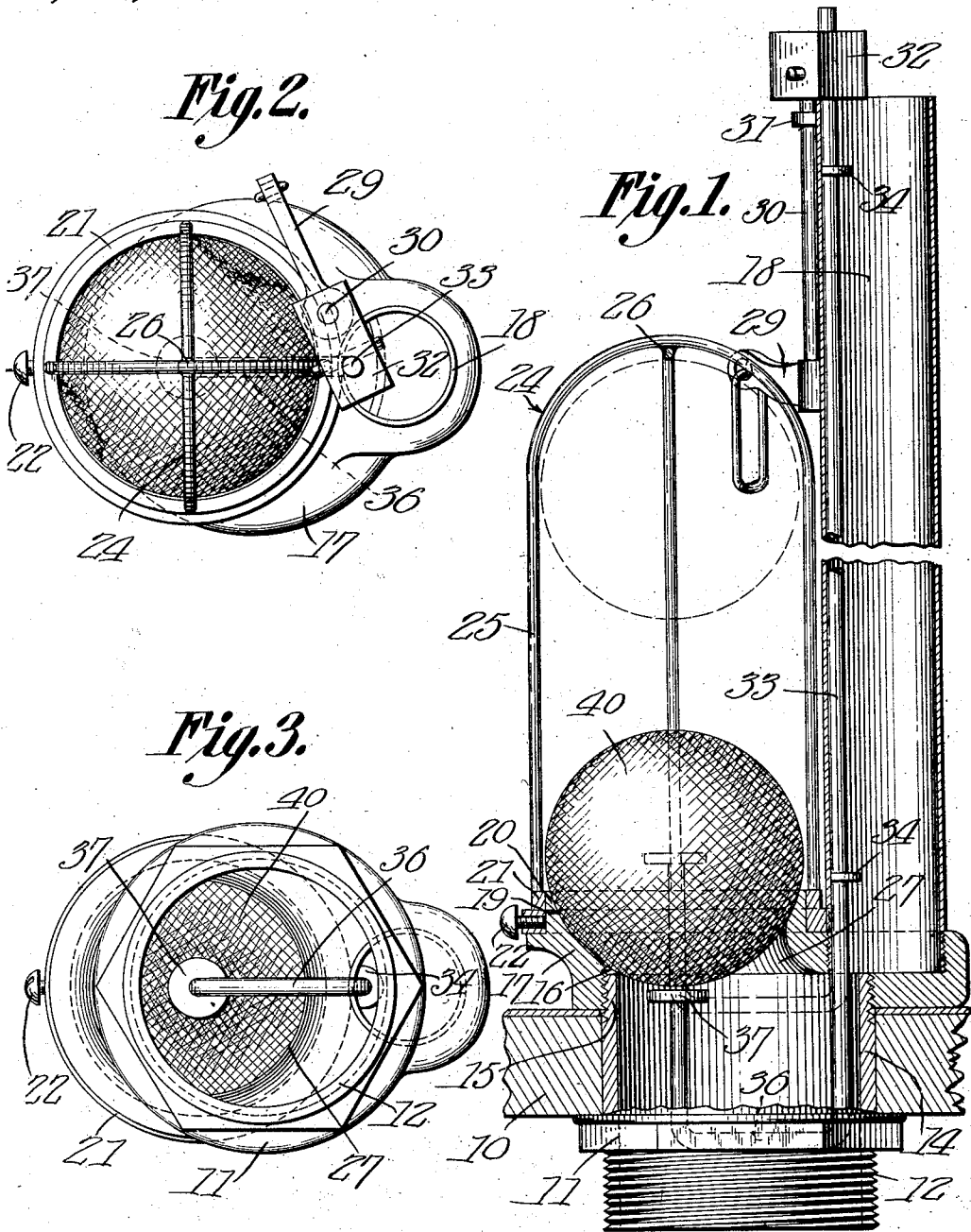


A. S. REA.
FLUSHING VALVE.
APPLICATION FILED JULY 6, 1912.

1,054,940.

Patented Mar. 4, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

ALBERT S. REA, OF NEWTON, MISSISSIPPI.

FLUSHING-VALVE.

1,054,940.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed July 6, 1912. Serial No. 708,018.

To all whom it may concern:

Be it known that I, ALBERT S. REA, a citizen of the United States, residing at Newton, in the county of Newton and State of Mississippi, have invented a new and useful Flushing-Valve, of which the following is a specification.

This invention relates to an improvement in flushing valves.

10 The primary object of the invention is to provide a valve for flushing tanks, with means whereby the valve operating chain, will impart movement to a plunger which will raise a valve member, the valve member being maintained in raised position by the water in the tank until the tank is practically empty.

15 In the drawings, Figure 1 is a vertical section. Fig. 2 is a top plan view. Fig. 3 is a bottom plan.

20 In the drawings 10 designates the base of the flush tank which receives the coupling 11 the threaded extension 12 of which extends within the pipe which is connected to the hopper of the closet. The member 14 of the coupling extends within the tank, its screw threaded terminal 15 extending within the bore 16 of the coupling 17 which supports the overflow pipe 18, the coupling 17 supporting the valve seat 19, water, when the closet is flushing passing through the coupling member 17 to the coupling 12. The extension 20 of the coupling 17, supports the annular member 21, said annular member being maintained on the coupling by the set screws 22. This annular member supports the valve cage 24 which consists of the standards 25 which are bent to intersect at the point 26 their free terminals extending within the annular member 21 which embraces the reduced portion of the coupling being maintained thereon by the set screw 22. Arranged within the cage 24 is a hollow ball preferably formed of rubber of a weight which will form a closure for the opening 27, floating when the same is raised out of contact with the seat 28.

The closet is flushed by a chain or cable

which is secured to the arm 29 of the rod 30, said cable passing over a suitable sheave. 50 The rod 30 is supported for vertical movement by the guide 31 which is secured to the overflow pipe 18, a weight 32 being supported upon the upper terminal of said rod. A rod 33 is disposed for vertical movement 55 within the pipe 18, said rod being supported by the guides 34 arranged within said pipe, its upper terminals being connected to the weight 31. The lower terminal of this rod is offset and extends upward within the coupling 36, this enlargement 37 being arranged to contact with the ball to raise the same.

It will be noted by this construction that the rod 30 may be raised by the cable attached to the arm 29, said rod being normally maintained in its lowered position by the weight 32. When the rod 30 is raised, the rod 33 will also participate in a vertical movement, its offset terminal raising the ball 40, the water in the tank floating the ball 70 to the top of the cage 24 where it is maintained until practically all of the water has passed out of the tank. As the water lowers, the ball will seat itself and the tank will fill in the usual manner. 75

The many advantages of a construction of this character will be clearly apparent as it will be noted that the structure is such as may be easily and economically manufactured and that the various parts may be 80 readily assembled.

What is claimed is:—

A flushing valve comprising, a coupling supported within the outlet opening of a flushing tank, an overflow pipe supported 85 by said coupling, a valve seat disposed around said coupling walls, a floating member adapted to rest upon said valve seat to thereby close said coupling opening, a valve cage supported by said coupling, a rod disposed upon the outer wall of said overflow pipe and extending above the top of the same, and arranged for vertical movement thereon, a weight attached to the upper end of said rod, a rod disposed within said over- 95 flow pipe and arranged for vertical move-

ment therein, said rod being attached at its upper end to the said weight, and extending downwardly and below the lower end of said overflow pipe and being provided at its lower end with an offset arranged to contact with said floating member.

In testimony that I claim the foregoing

as my own, I have hereto affixed my signature in the presence of two witnesses.

ALBERT S. REA

Witnesses:

J. G. BUCHANAN,

I. H. ALEXANDER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."