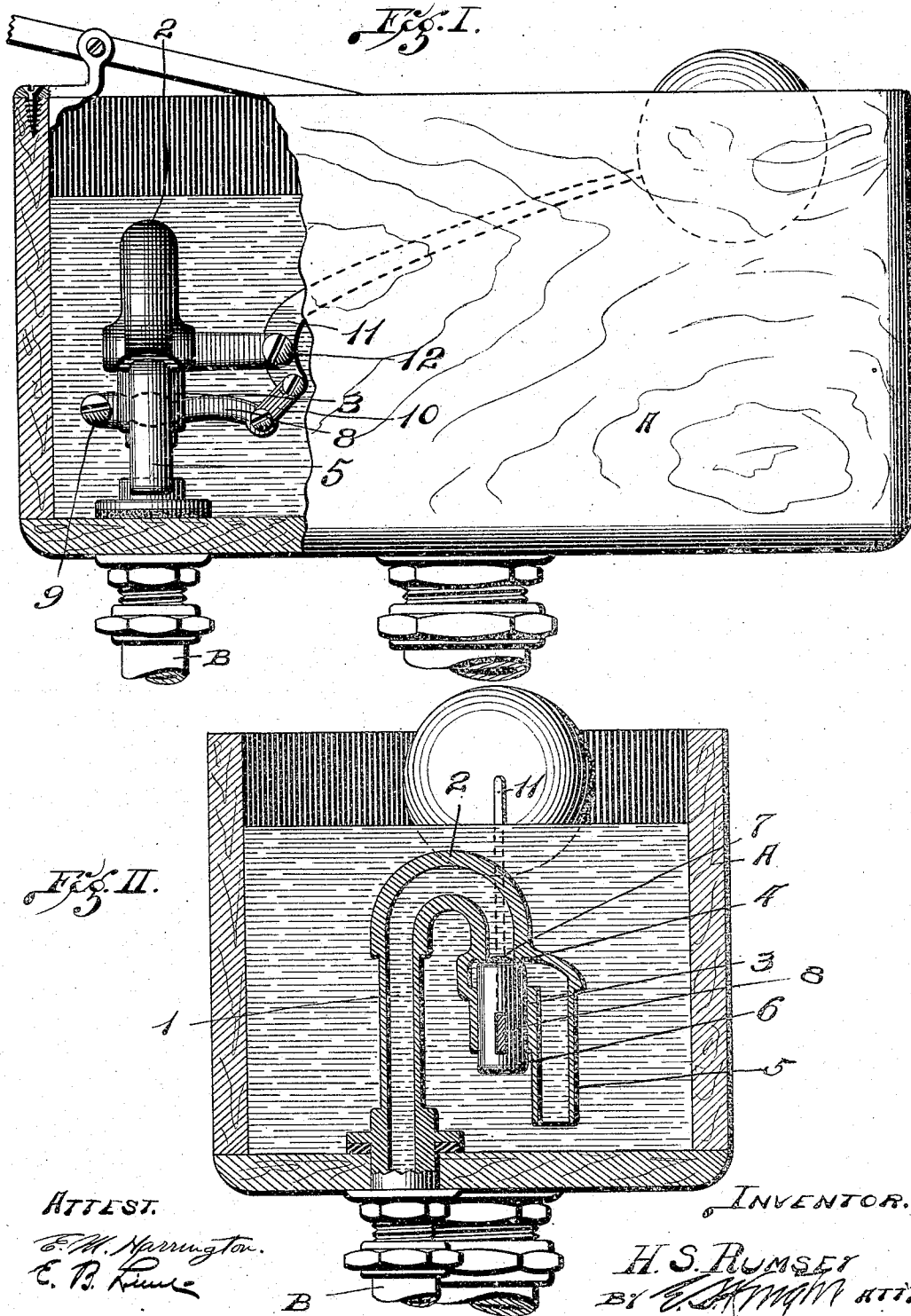


H. S. RUMSEY.
BALL COCK.
APPLICATION FILED APR. 14, 1909.

936,742.

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UNITED STATES PATENT OFFICE.

HORACE S. RUMSEY, OF ST. LOUIS, MISSOURI.

BALL-COCK.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HORACE S. RUMSEY, a citizen of the United States of America, residing at the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Ball-Cocks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to ball cocks for use in flushing tanks.

My invention has for its object the production of a ball cock in which the open end of the valve housing faces downwardly in a flushing tank so that in the event of leakage through the housing around the valve, the water will be discharged toward the bottom of the flushing tank without objectionable results, and in which the valve is arranged to be moved in an upward direction to contact with the seat provided therefor with the result of providing for the valve becoming firmly seated to prevent leakage past it after the pressure chamber has been supplied with water to a normal degree.

Figure I is in part an elevation and in part a vertical section of a flushing tank with my ball cock shown therein in elevation. Fig. II is a cross section through a flushing tank and my ball cock.

In the accompanying drawings, A designates a flushing tank, and B a water supply pipe leading to said tank through the bottom of the latter.

1 designates the upwardly extending inlet member of my ball cock arranged at the lower end in communication with the supply pipe B, and at the upper end of which is an arched neck 2 that extends upwardly and downwardly from the inlet member. Beneath the neck 2 is a depending valve housing 3 that is open at its lower end, and within which at its upper end is an annular chamber and annular valve seat 4.

5 is a depending discharge leg offset from the valve housing 3 and having communication with the annular chamber at the upper end of said valve housing, this discharge leg being open at its lower end.

6 is a cylindrical valve loosely seated in the depending valve housing 3 and provided at its upper end with an annular seat 7 that is adapted to contact with the annular seat 4 at the upper end of the valve housing when the valve is moved upwardly for the purpose

of shutting off the flow of water from the inlet member 1 through the arched neck 2 and the depending discharge leg 5. The valve 6 is controlled by a lever 8 that extends through the valve and is pivotally connected at one end to a short arm 9 on the valve housing. The other end of said member has connected to it a link 10 which in turn is connected to the short arm of a float rod 11 pivotally supported by a long arm 12 also located on the valve housing.

Inasmuch as the open end of the valve housing 3 faces the bottom of the flushing tank, there is no necessity of providing the valve 6, operable in said housing, with packing, and any leakage that may occur around said valve through said housing is directed through the open lower end of the housing in a course that is not objectionable from any standpoint.

I claim:

1. A ball cock comprising an upwardly extending inlet member, an arched neck at the upper end of the inlet member, a depending valve housing at the outer end of the neck, and provided at its upper end with an annular chamber and an annular valve seat above the annular chamber, an offset discharge leg depending from the annular chamber, and open at its lower end, a cylindrical valve having an annular seat at its upper end and loosely seated in the valve housing and a float-rod-lever extending through the valve.

2. A ball cock comprising an upwardly extending inlet member, an arched neck at the upper end of the inlet member, a depending valve housing at the outer end of the neck and provided at its upper end with an annular chamber and an annular valve seat above the annular chamber, a short arm, and a long arm, an offset discharge leg depending from the annular chamber and open at its lower end, a cylindrical valve having an annular seat at its upper end and loosely seated in the valve housing, a float-rod-lever extending through the valve and pivoted to the short arm, a float-rod having a short arm pivoted to the long arm and a link connecting the float-rod-lever with the short arm of the float-rod.

HORACE S. RUMSEY.

In the presence of—

H. G. COOK,
E. B. LINN.