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PATENTED JULY 4, 1905.

G. F. CONDIT.  
BALL COCK FOR FLUSHING TANKS, &c.  
APPLICATION FILED MAR. 3, 1904.

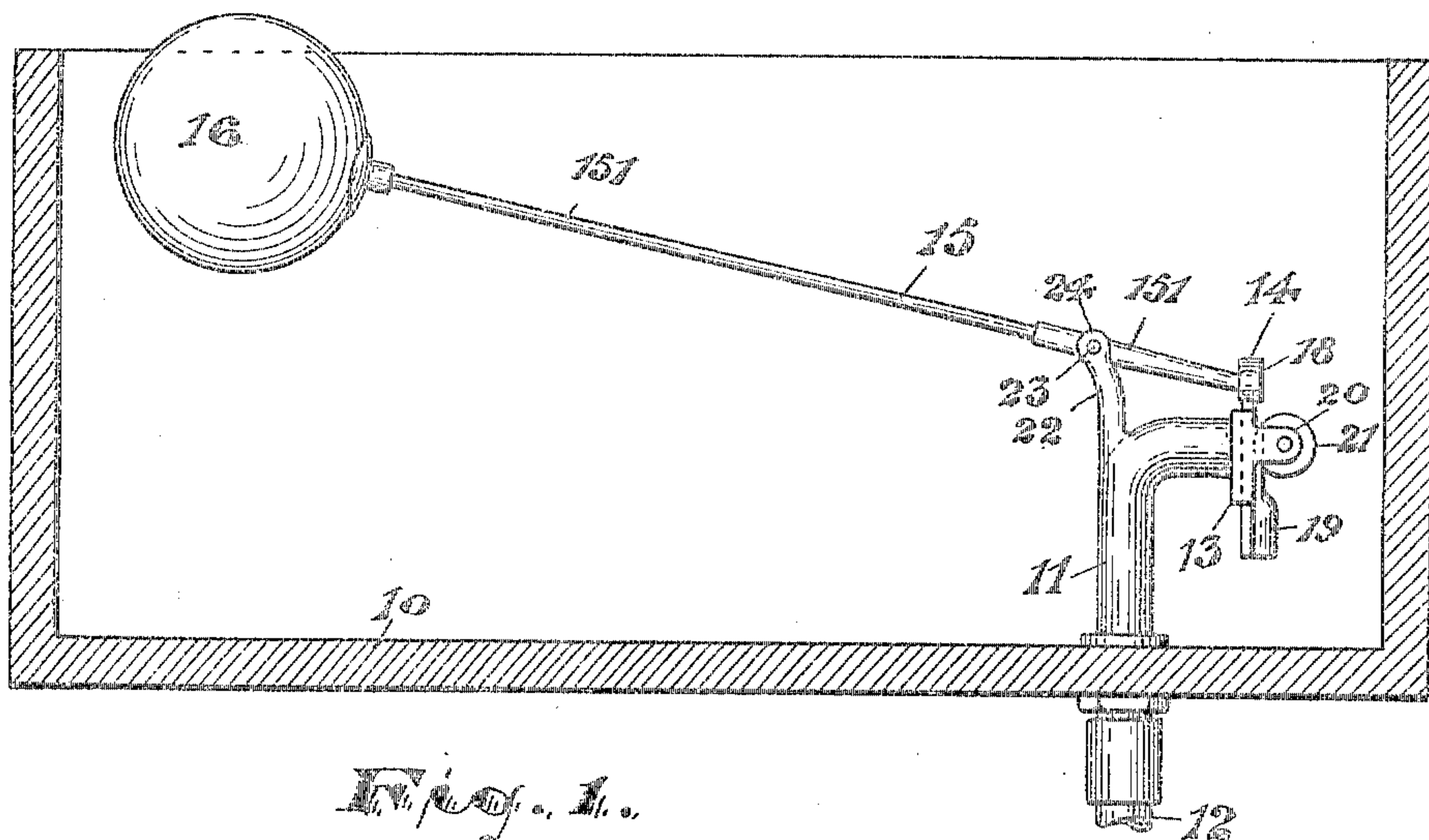


Fig. 1.

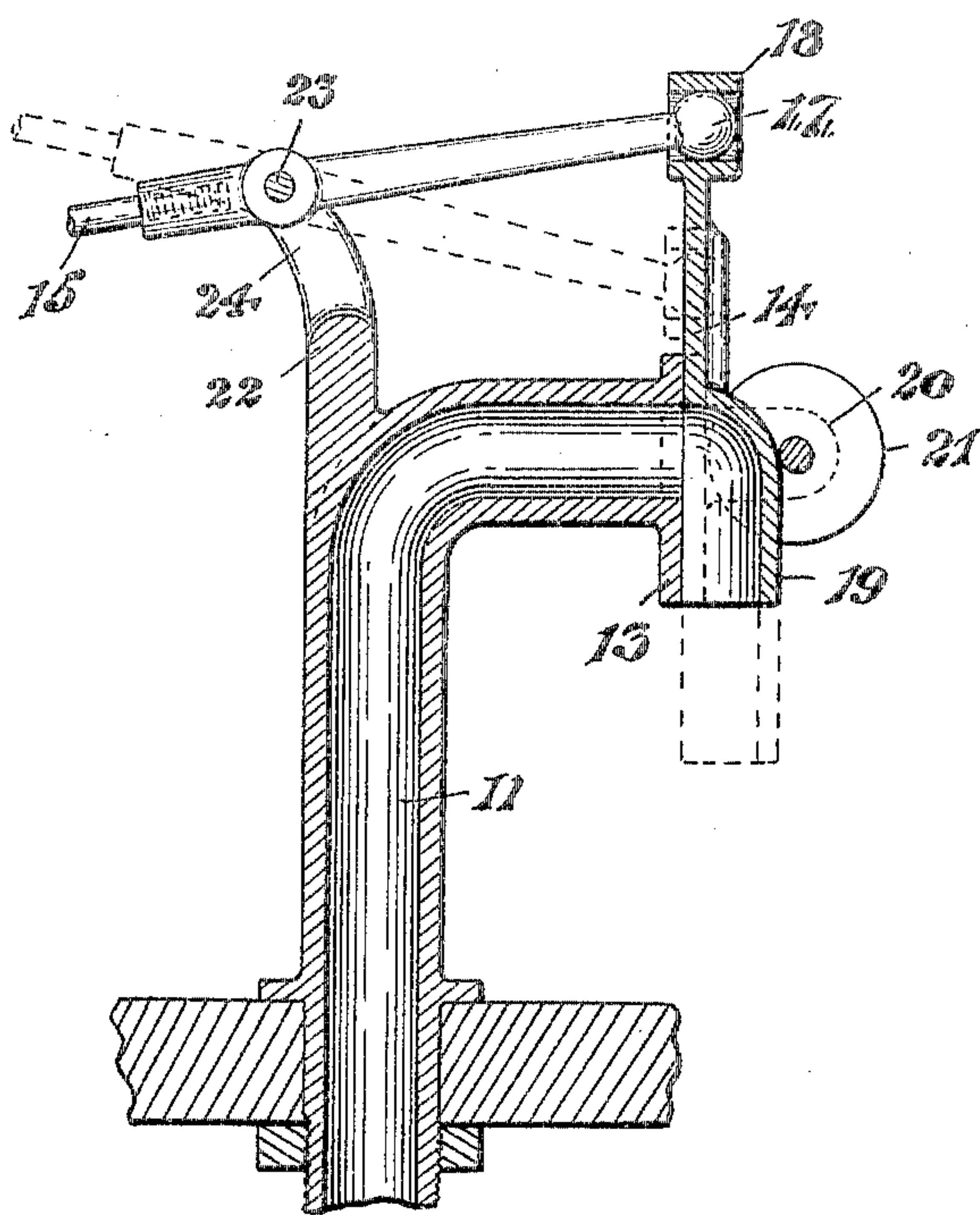


Fig. 2.

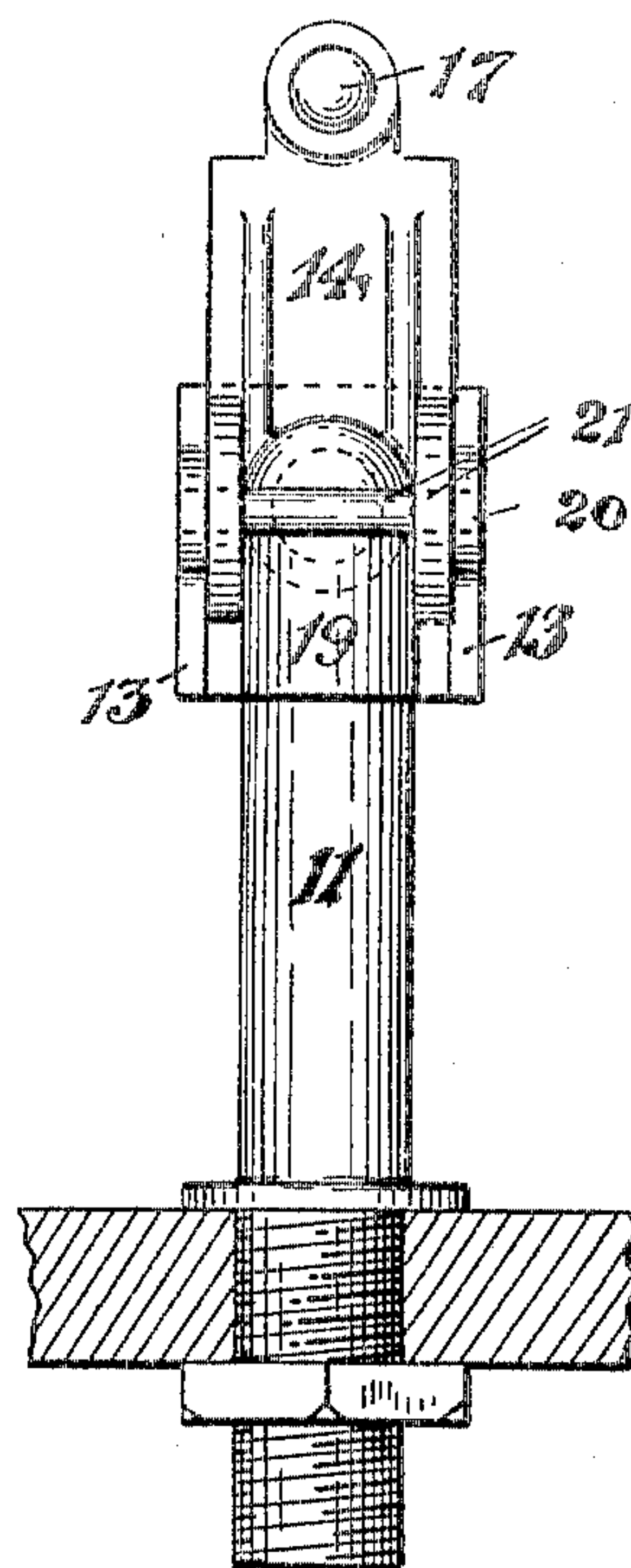


Fig. 3.

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# UNITED STATES PATENT OFFICE.

GEORGE F. CONDIT, OF ORANGE, NEW JERSEY.

## BALL-COCK FOR FLUSHING-TANKS, &c.

SPECIFICATION forming part of Letters Patent No. 793,991, dated July 4, 1905.

Application filed March 3, 1904. Serial No. 196,264.

*To all whom it may concern:*

Be it known that I, GEORGE F. CONDIT, a citizen of the United States, residing at Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Ball-Cocks for Flushing-Tanks, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to numerals of reference marked thereon, which form a part of this specification.

The objects of this invention are to increase the durability and the efficiency of floats for flushing-tanks, to reduce the cost of construction, to provide a more simple and effective device, and to secure other advantages and results, some of which may be referred to hereinafter in connection with the description of the working parts.

The invention consists in the improved ball-cock for flushing-tanks and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth and finally embraced in the claim.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several figures, Figure 1 is a vertical section of a flushing-tank having my improvements. Fig. 2 is an enlarged vertical section of the cock, and Fig. 3 is a front view of the same.

In said drawings, 10 indicates a flushing-tank of any suitable construction. 11 indicates the body of the cock, through which the water enters said tank from the supply-pipe 12 for flushing purposes, the said cock having at its extremity a slideway 13, adapted to receive the slide-valve 14. The said body 11 is adapted to extend vertically up from the bottom of the tank, as shown in Fig. 1, being held in its standing position by any suitable means, and at its upper end is bent or turned laterally, the lateral horizontal extension being provided at its extremity with the said slideway, which is substantially vertical, so as to permit of the vertical sliding movement

of the slide-valve 14 when acted on by the lever and float. Said slide-valve is operated by a lever 15, which may be in sections 151 152, having the ball-float 16 at one end and having a ball 17 at its opposite end, adapted to enter and work in a socket 18, formed at the upper end of the said slide-valve 14. The said slide-valve 14 at its lower extremity is provided with a water-passage 19, through which water may flow out from the body of the cock. Said passage comprises an aperture formed in the lower part of the valve midway of its edges and extending to its lower end and an apron curved forwardly in front of said aperture from the plane of the valve and to which it is integrally attached at its edges. This apron thus serves to direct the water downward when the valve is opened, and preferably the slideway 13 extends downward below the laterally-turned portion of the cock-body, so that the lip thus provided forms with the said apron a downwardly-directed spout when the valve is open. At the opposite sides of said slide-valve are arranged ears 20, which provide bearings for a stay roller or wheel 21, adapted to press against the outside of the slide-valve and by means of which the slide is held when closed in impervious relation to the body of the cock to prevent leakage of water, the said valve and seat being ground to secure greater impermeability. There are preferably two of said rollers, as shown, one close to each ear, so that they bear against the margins of the slide-valve on opposite sides of the apron described.

The socket 18 for the ball end 17 is preferably cylindrical to permit of the movement of said ball end in said socket in the direction of the axis of the cylinder. The fulcrum-arm 22 for the float-lever 15 is preferably cast integrally in connection with the body of the cock, the said lever working on a pin 23, extending through the said lever and through ears 24 of the said fulcrum-arm in any suitable manner.

I am aware that detail changes of construction may be made without departing from the spirit or scope of the invention, and I do not wish to be understood as limiting myself by

all the positive descriptive terms hereinbefore employed, excepting as the state of the art may require.

Having thus described the invention, what  
5 I claim as new is—

A cock for flushing-tanks, having a tubular body adapted to project upward from the tank-bottom, the upper end of said body being turned laterally and providing at its ex-  
10 tremity a slideway disposed transversely of the said laterally-turned portion, a valve mounted in said slideway and having its lower portion apertured and providing forward of  
15 water downward, ears projecting forwardly

from the edges of the slideway, rollers pivoted adjacent to said ears and adapted to engage the slide-valve on opposite sides of its apron, and a lever fulcrumed on the said body of the cock, engaging said valve at one end 20 and having a float at the other end for opening and closing the valve.

In testimony that I claim the foregoing I have hereunto set my hand this 25th day of February, 1904.

GEORGE F. CONDIT.

Witnesses:

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