

H. J. BRESSON.
FLUSHING APPARATUS.
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1,396,400.

Patented Nov. 8, 1921.

Fig. 1.

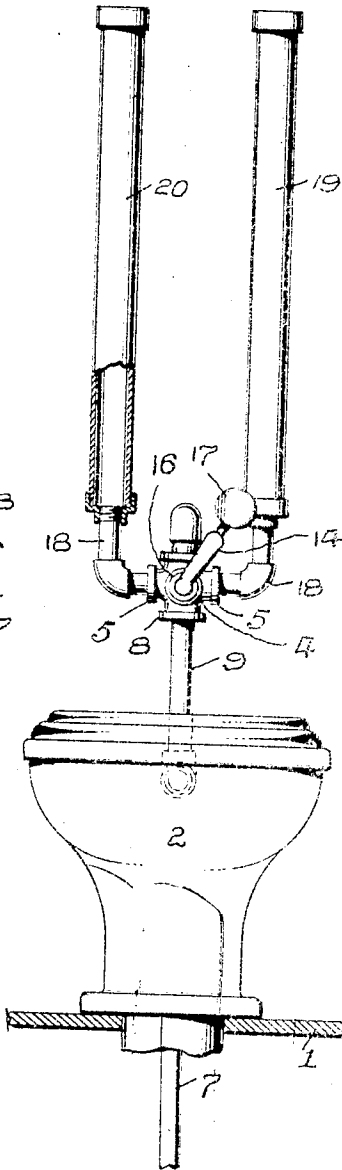
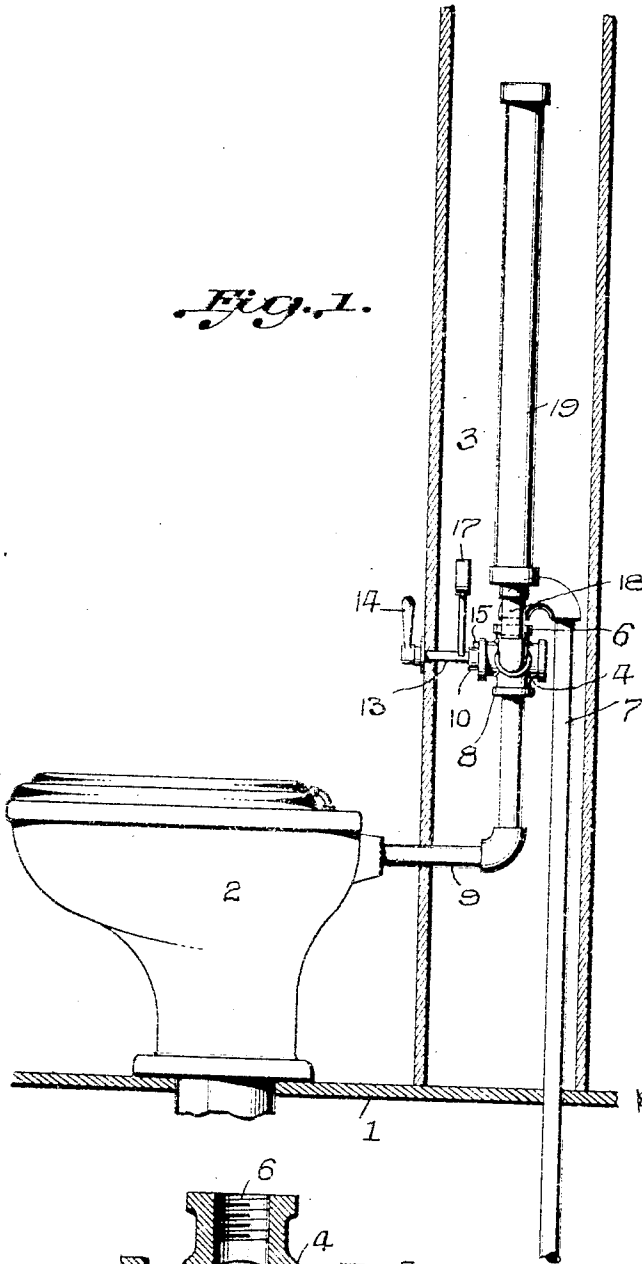


Fig. 2.

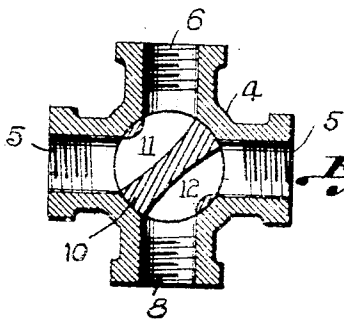


Fig. 3.

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UNITED STATES PATENT OFFICE.

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FLUSHING APPARATUS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY J. BRESSON, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Flushing Apparatus, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention aims to provide a flushing apparatus for water closet bowls and other receptacles wherein the use of exposed tanks, float actuated valves and piping incident thereto are eliminated, thus permitting of a bowl being provided with my flushing apparatus presenting a neat appearance in a water closet or other compartment.

To this and other ends I have devised a flushing apparatus that may be built into a wall or partition and by using a two-way valve and ordinary pipes and plumber fittings I can provide two tanks or reservoirs, which in connection with the two-way valve, are adapted to alternately communicate with the bowl whereby the contents of the reservoirs or tanks may flush and wash the same.

My invention will be hereinafter specifically described and then claimed and reference will now be had to the drawing, wherein—

Figure 1 is a side elevation of the flushing apparatus;

Fig. 2 is a front elevation of the same partly in section, and

Fig. 3 is an enlarged detail sectional view of the two-way valve.

In the drawings, 1 denotes a floor supporting a conventional form of water closet bowl 2 and adjacent the bowl 2 is a wall 3 in which is located the flushing apparatus for the bowl 2, the wall being shown as hollow for the purpose.

The flushing apparatus comprises a two-way valve body 4 having opposed tank connections 5, a water supply connection 6 for a water supply 7 and a connection 8 for a bowl pipe 9, the connections 6 and 8 being opposed and in a plane at a right angle to the connections 5. The water supply pipe 7 may enter the wall 3 from any point, but preferably in a manner which conceals the same, and the bowl pipe 9 extends out of the wall and is connected to the bowl 2.

In the two-way valve body 4 is a valve plug 10 having ports 11 and 12 disposed so that the port 11 may in one position estab-

lish communication between one of the tank connections 5 and the connection 6 and in another position establish communication between the same tank connection and the connection 8. The port 12 is adapted to establish communication between one tank connection 5 and the connection 8 and in another position establish communication between the same tank connection and the connection 6, it being necessary to rock or partially rotate the valve plug 10. To do this said valve plug has a stem 13 extending out of the wall 3 and provided with a suitable operating crank or handle 14, which may be manipulated by the person using the bowl 2.

To limit the movement of the valve plug 10 and thus insure proper port and connection registration the valve plug 10 has a pin 15 adapted to engage stop shoulders 16 of the valve body 4, and to insure a positive operation of the stem 13 and prevent as far as possible, a partial movement of the same, said valve stem has an overhead pendulum or weighted arm 17 which will complete a partial movement of the valve stem in either direction, it being practically impossible to balance the pendulum or weighted arm 17 in a vertical plane. In other words the user of the bowl 2 may impart sufficient impetus to the valve stem 13 for adjusting the valve and the pendulum will complete the operation of said valve.

Connected to the tank connections 5 by ordinary fittings 18 are vertically disposed parallel tanks 19 and 20, preferably made of pipes of sufficient diameter to constitute tanks, each of which is capable of holding sufficient water to flush the bowl 2 when necessary.

Considering Figs. 2 and 3, the valve is in position to maintain a supply of water within the tank 20 under pressure, since the port 11 of the valve establishes communication between the water supply connection 6 and the tank 20. The tank 19 is empty as it is drained into the bowl 2 to flush the same. When the valve is operated through the medium of the crank 14 the tank 20 is placed in communication with the bowl 2 and the tank 19 receives water under pressure.

It is thought that the utility of the flushing apparatus will be apparent without further description and while in the drawing there is illustrated a preferred embodiment of my invention, it is to be understood that the structural elements are susceptible to

such variations and modifications as fall within the scope of the appended claim.

What I claim is:—

5 In flushing apparatus, a valve body having a port connected to a permanent supply and a port connected to a discharge, said ports extending in opposite directions from the plug cavity of the body, a pair of tanks of permanent dimensions, said body also
10 having oppositely disposed ports intersecting a plane of the supply and discharge ports at approximately right angles to such plane and communicating with the respective tanks, a turning plug in said body having its ports
15 arranged to place a tank alternately in communication with the supply and discharge ports through the same plug port, and means

for shifting the position of the plug at will, said means including an operating handle and a weighted structure, said structure 20 being positioned to swing through an arc the extremes of which are located above a horizontal plane extending through the plug axis, said plug being movable between positions where one tank is normally in open 25 communication with the supply and the other tank with the discharge, shifting of the plug reversing this relation.

In testimony whereof I affix my signature in the presence of two witnesses.

HENRY J. BRESSON.

Witnesses:

ANNA M. DORR,
KARL H. BUTLER.