H. HOBBLE.

GUIDE FOR FLUSH VALVES.

APPLICATION FILED SEPT. 17, 1914.

1,128,980. **Patented Feb. 16, 1915.**

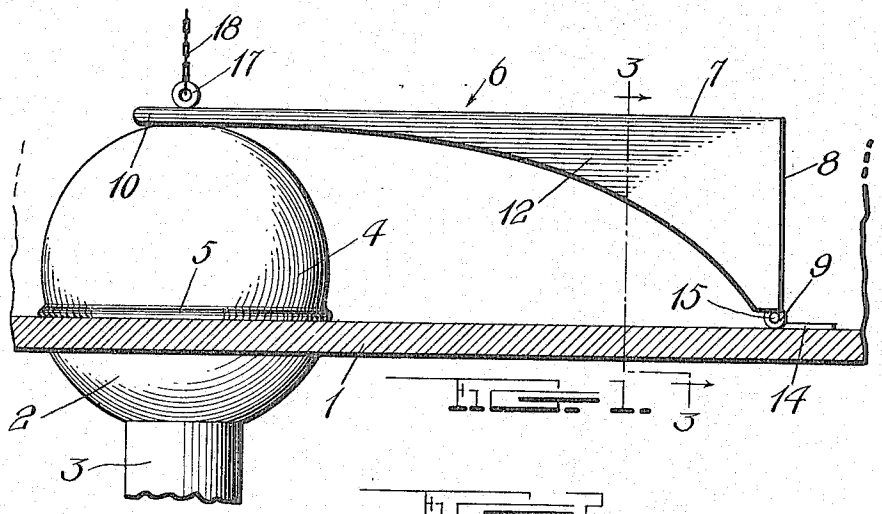


Fig. 1.

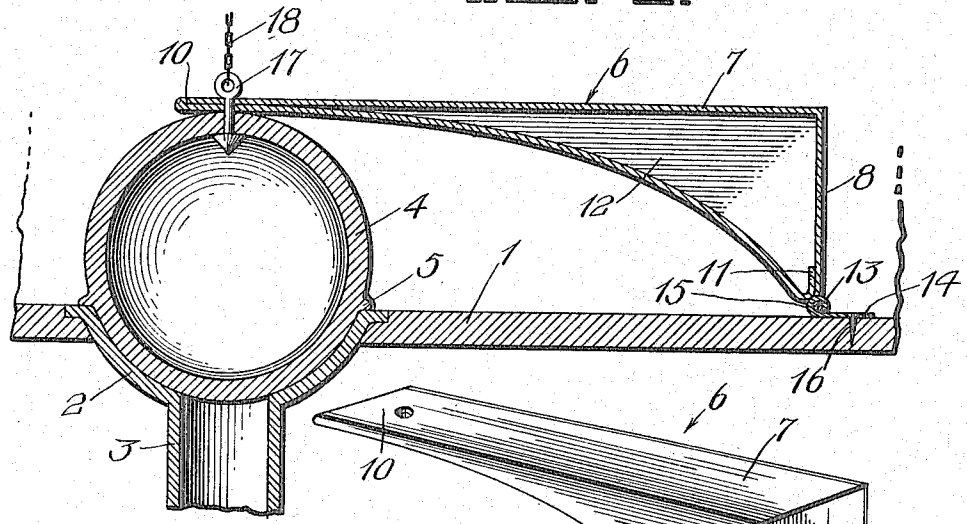


Fig. 2.

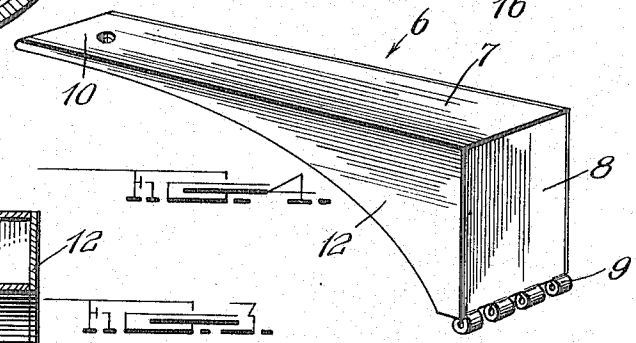


Fig. 4.

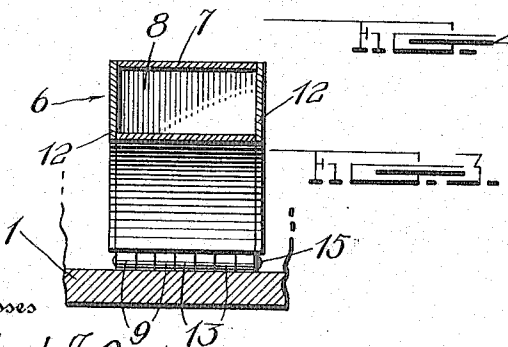


Fig. 3.

Witnesses

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GUIDE FOR FLUSH-VALVES.

1,128,980. Specification of Letters Patent. Patented Feb. 16, 1915.

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To all whom it may concern:

Be it known that I, HERBERT HOBBLE, a citizen of the United States, residing at Liberal, in the county of Seward and State of Kansas, have invented certain new and useful Improvements in Guides for Flush-Valves; and I do 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.

My invention relates to improvements in flush valves and more particularly to a specific form of guide therefor.

The object of the invention is to provide an extremely simple bracket which may be hinged to a flush tank and to which the ordinary valve is directly attached, whereby said valve may be unseated by raising the bracket and will be correctly seated by the descent of the bracket when the water in the tank is discharged.

In carrying out the above end, the invention further aims to provide a structure which may be easily and cheaply manufactured of sheet metal and one which will be highly efficient in operation.

With the above and minor objects in view, the invention resides in certain novel features of construction and combination herein described and claimed and shown in the drawings wherein:—

Figure 1 is a vertical section through a portion of a flush tank showing the application of my invention to the valve thereof; Fig. 2 is a longitudinal section through the bracket; Fig. 3 is a transverse section thereof as seen on the line 3—3 of Fig. 2; and Fig. 4 is a perspective view of the bracket.

In the accompanying drawings, I have shown a portion of a flush tank 1 having a cup shaped valve seat 2 in its bottom and a flush pipe 3 depending from said valve seat. Situated within valve seat 2 is a substantially globular valve 4 which is of hollow construction as is common with devices of this character, the intermediate portion of said valve 4 being provided with an external annular rib 5 which snugly engages the top of the seat 2 when the valve is in operative position.

Connected directly to the top of the valve 4, is a hollow bracket 6 which is here shown as formed of three sheet metal plates, one of said plates designated by the numeral 7 lying in a substantially horizontal plane and having one of its ends bent downwardly at 8 and formed into a plurality of hinge knuckles 9, while the opposite portion of said plate is bent substantially upon itself as seen at 10 and then curves gradually downward to a point directly above the knuckles 9, at which point it is here shown as being bent upwardly at 11 and soldered or otherwise secured to the portion 8. By this construction, an extremely rigid yet very simple bracket is provided. The other two plates above mentioned are designated by the numeral 12, are substantially triangular in side view and are connected at their edges to the numerous edge portions of the plate 7 whereby to form the hollow bracket.

The knuckles 9 interengage similar knuckles 13 formed on a horizontal attaching leaf 14, a pintle 15 being extended through said knuckles whereby to hingedly connect the bracket 6 with the plate 14, which latter is here shown as secured by screws 16 to the bottom of the flush tank 1.

In order to rock the bracket 6 around its hinge for the purpose of unseating the valve 4, an eye 17 is provided at the free end of said bracket, said eye connecting a chain 18 to the bracket, whereby when said chain is raised by means not shown, the valve 4 will be unseated thereby allowing the water within the tank 1 to be discharged, whereupon the valve 4 will be guided by the bracket 6 into its seat 2, after which the tank will be again filled with water by means of ordinary construction forming no part of the present invention. When said bracket C, or arm as the same may well be termed, is rocked around its pivot to unseat the valve, said valve will be retained in raised position whether it be hollow or

solid, this being due to the hollow formation of said bracket, whereby it is rendered buoyant.

Having thus described my invention what I claim is:—

The combination with a flush tank, a valve seat in the bottom thereof and a valve in the seat, of a buoyant arm pivotally supported at one end and having its other end connected directly to the valve, and means for unseating said valve.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HERBERT HOBBLE.

Witnesses:

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