W. F. GEIGER.

FLUSH VALVE ATTACHMENT.

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948,876.

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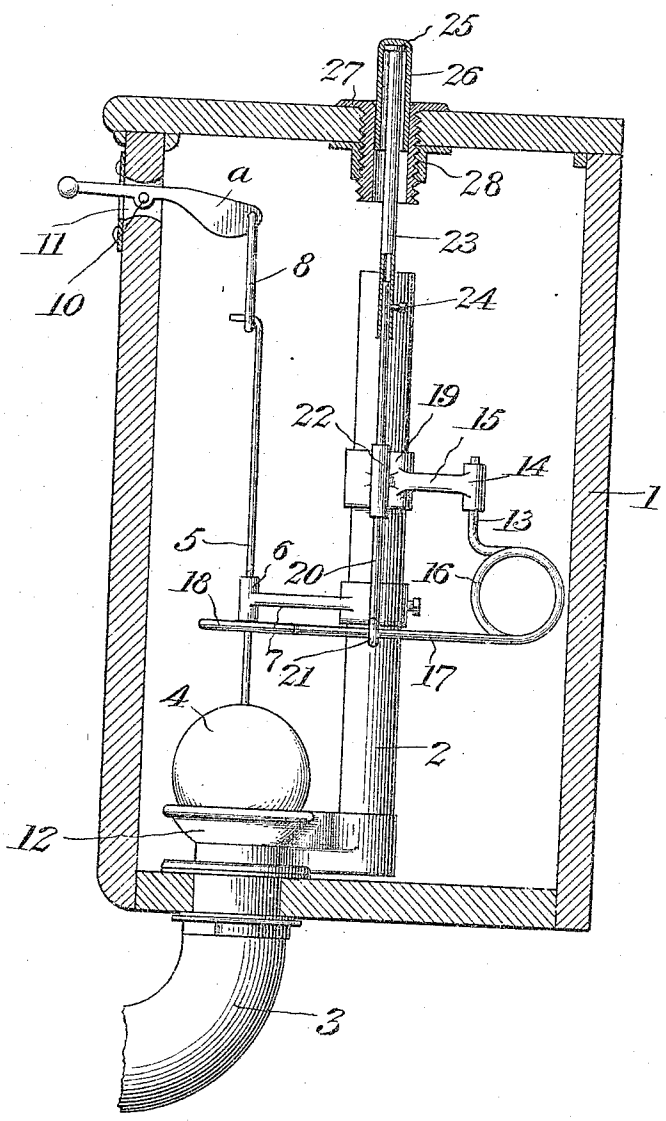

Witnesses

Fenton S Belt

E. F. Bunyea

Inventor

William F. Geiger

By Victor J. Evans

Attorney

ANDREW B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM F. GEIGER, OF QUARRYVILLE, PENNSYLVANIA.

FLUSH-VALVE ATTACHMENT.

948,876. Specification of Letters Patent. Patented Feb. 8, 1910.

Application filed July 2, 1909. Serial No. 505,675.

To all whom it may concern:

Be it known that I, WILLIAM F. GEIGER, a citizen of the United States of America, residing at Quarryville, in the county of Lancaster and State of Pennsylvania, have invented new and useful Improvements in Flush-Valve Attachments, of which the following is a specification.

This invention relates to flush valve attachments, and the principal object of the same is to provide means for seating the valve in a flush tank when there is a tendency to overflow the bowl.

The above and other objects may be attained by means of the construction illustrated in the accompanying drawing in which the figure is a vertical section taken through a tank of the "low-down" type.

Referring to the drawing, the numeral 1 designates a tank provided with an overflow pipe 2, an outlet pipe 3, and a ball valve 4, said valve being provided with a stem 5 passing freely through the tubular portion 6 of a bracket 7. Connected to the upper end of the stem 5 is a link 8 pivoted to a lever *a* mounted pivotally at 10 in an aperture 11 in the wall of the tank 1. The valve 4 is provided with a seat 12 forming a continuation of the outlet pipe 3 within the tank. The construction of the parts thus far described is of the usual or any preferred type.

A spring comprising an upwardly extending member 13 secured in the tubular portion 14 of a bracket 15 is provided with a coiled portion 16 and an arm 17 extending from the coil, said arm being provided with a loop 18 at its outer end through which the valve stem 5 passes. The bracket 15 is formed on a collar 19 fitted upon the overflow pipe 2, and the bracket 7 is formed on a similar collar also mounted on the overflow pipe 2. The loop 18 of the spring normally rests at the bottom of the tubular portion 6 of the bracket 7, and thus provides a stop for the upward movement of the valve 4. A rod 20 provided with a loop 21 which surrounds the arm 17 of the spring extends through a tubular portion 22 of a bracket formed on or connected to the collar 19. The upper end of the rod 20 extends into a tube 23 provided with a set screw 24 for securing the rod 20 therein. The upper end of the tube 23 is provided with a head 25, and a cap 26 fits over the head and extends down through a threaded bushing 27 secured to the top of the tank 1 by means of a threaded nut 28. The cap 26 is engaged with the inner bore of the bushing frictionally, and said cap may be pushed down to carry the loop 18 of the arm 17 down to seat the valve 4 positively in case of an overflow of the bowl. When the pressure on the cap 26 is relieved, the arm 17 will return to its normal position against the collar 6 and will carry the rod 20 and the cap 26 up with it to the position shown in the drawing.

From the foregoing it will be obvious that an attachment made in accordance with my invention can be readily connected to any type of flush valve and will serve to prevent overflow. The cost of production and the labor of assembling the parts are comparatively slight.

I claim:—

1. A flush valve attachment comprising a valve, a seat for the valve, a stem connected to the valve, a lever for raising the stem and unseating the valve, a spring provided with a loop surrounding the valve stem, and means for pushing said spring downward to seat the valve in case of overflow.

2. A flush valve attachment comprising a valve, a valve seat, a stem connected to the valve, means for unseating the valve, a spring provided with a loop surrounding the valve stem and disposed normally above the valve, a rod connected to said spring, and means for operating said rod to push the spring into contact with the valve.

3. A flush valve attachment comprising a valve, a seat, a stem for the valve, means for unseating the valve, a spring provided with a coiled portion and an arm, said arm having a loop in its end surrounding the stem of the valve, a rod connected to said arm, a tube to which said rod is adjustably connected, and a cap fitted over the end of said tube, said cap being slidably mounted in a bushing connected to the tank.

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

WILLIAM F. GEIGER.

Witnesses:
F. M. ROHRER,
FRED REYNOLDS.