

APPLICATION FILED APR. 4, 1910.

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Fig. 1.

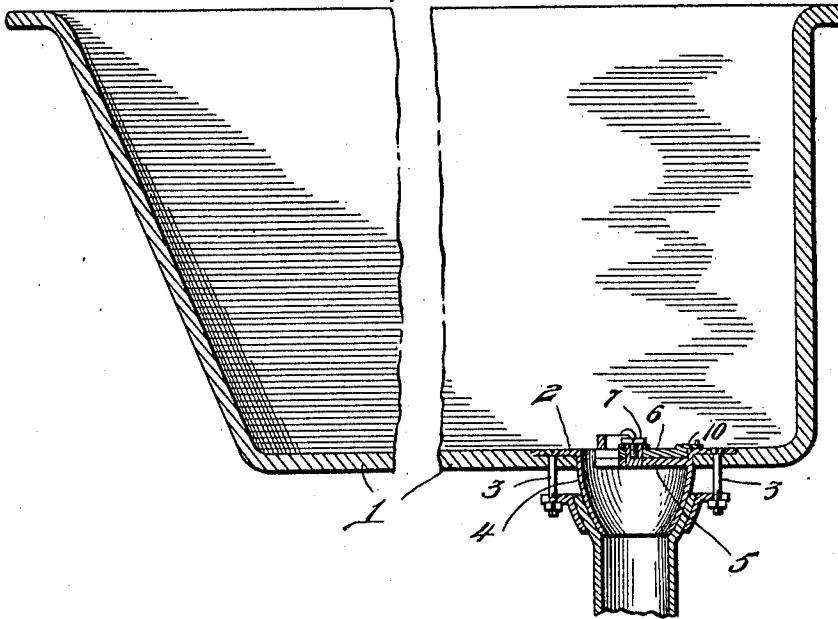


Fig. 2. 1

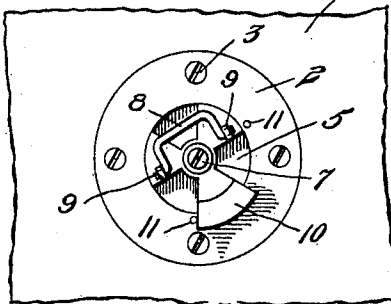


Fig. 3.

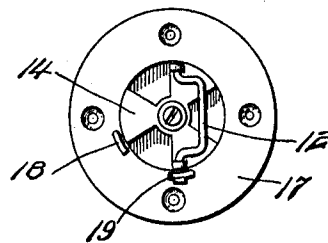
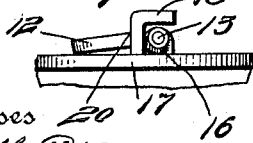


Fig. 4.



Witnesses ²⁰
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Fig. 5

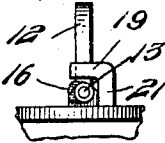
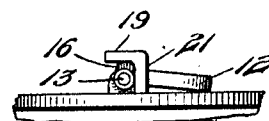


Fig. 6



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UNITED STATES PATENT OFFICE.

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WASTE-PLUG.

984,259.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ADOLF BECK, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Waste-Plugs, of which the following is a specification.

My invention relates to improvements in waste-plugs, and it consists in the constructions, combinations and arrangements herein described and claimed.

An object of my invention is to provide an inexpensive and durable waste-plug constructed to minimize the liability of accidental interference and shifting thereof.

A further object of my invention is to provide an improved waste-plug in which the valve, or closure, can be locked and clamped tightly on its seat in the open and closed positions.

A further object of my invention is to provide an improved waste-plug which constitutes an efficient strainer, and is adapted for advantageous use with stationary tubs, bowls and various forms of vessels.

In the accompanying drawings, forming a part of this application and in which similar reference symbols indicate corresponding parts in the several views: Figure 1 is a vertical section of a stationary tub provided with one embodiment of my invention; Fig. 2 is a plan view of the waste-plug shown in Fig. 1; Fig. 3 is a plan view, illustrating a modified construction, and Figs. 4, 5 and 6 are enlarged detail elevations, illustrating the clamping means of Fig. 3 shifted in its several positions.

Referring to the drawings, 1 indicates a stationary tub provided with the usual discharge orifice. An annular plate 2 of my improved waste-plug is provided with openings for receiving attaching screws 3, and carries a pendant nipple 4 for extending through the discharge orifice. An apertured valve seat 5 extends across the nipple 4, and rotatably supports a shutter valve 6 flush with the upper surface of the attaching plate 2; said apertured seat constituting an efficient strainer for the waste outlet. The valve 6 is provided with a central hub rotatably secured on a boss on its seat in any

suitable manner, as by a confining screw 7. A bail 8 is pivoted in ears 9 on the valve, for swinging flat against the latter, thereby minimizing danger of accidentally shifting said valve through blows or interference. The valve is provided with a wing 10 slidably engaging the attaching plate 2 between two pins 11, which latter constitute stops for limiting the swing of said valve in its open and closed positions.

Figs. 3-6 illustrate a slight modification, in which a bail 12 is pivoted at 13 on the valve 14; one of said pivots 13 carrying a cam 16 in position for clampingly engaging the attaching plate 17 or off-sets 18 and 19 on stops 20 and 21 extending from said plate.

Fig. 4 shows the bail 12 swung to the left from its vertical position, thereby bringing the cam 16 into clamping engagement with the attaching plate 17 for locking the valve against shifting. Fig. 5 shows the bail 12 raised to vertical position, for swinging the cam 16 to its inoperative position to permit free shifting of the valve. Fig. 6 shows the bail 12 swung to the right from its vertical position, thereby bringing the cam 16 into engagement with the off-set 19 of the stop 21 for clamping the valve tightly on its seat; this securely holds the valve against accidental shifting, and prevents all danger of leakage through wear of the valve or seat.

I have illustrated preferred and satisfactory constructions, but changes could be made within the scope of my invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a waste-plug, the combination of an attaching plate, an apertured valve seat thereon, a valve rotatably mounted on said seat, clamping means carried by said valve and overlapping said plate for engaging the latter, and stops on said plate in the path of said clamping means, substantially as described.

2. In a waste-plug, the combination of an attaching plate, an apertured valve seat thereon, a valve rotatably mounted on said seat, a bail pivoted on said valve, a cam on the pivot of said bail overlapping said plate

for clampingly engaging the latter, and stops on said plate in the path of said cam, substantially as described.

3. In a waste-plug, the combination of an
5 attaching plate, an apertured valve seat thereon, a valve rotatably mounted on said seat, a bail pivoted on said valve, a cam on the pivot of said bail, stops on said plate in the path of said cam, and offsets on said

stops, said cam extending in position for 10 clampingly engaging either said plate or said offsets, substantially as described.

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

ADOLF BECK.

Witnesses:

GEORGE SHERMAN RICHARDS,
RAY S. KNORR.