

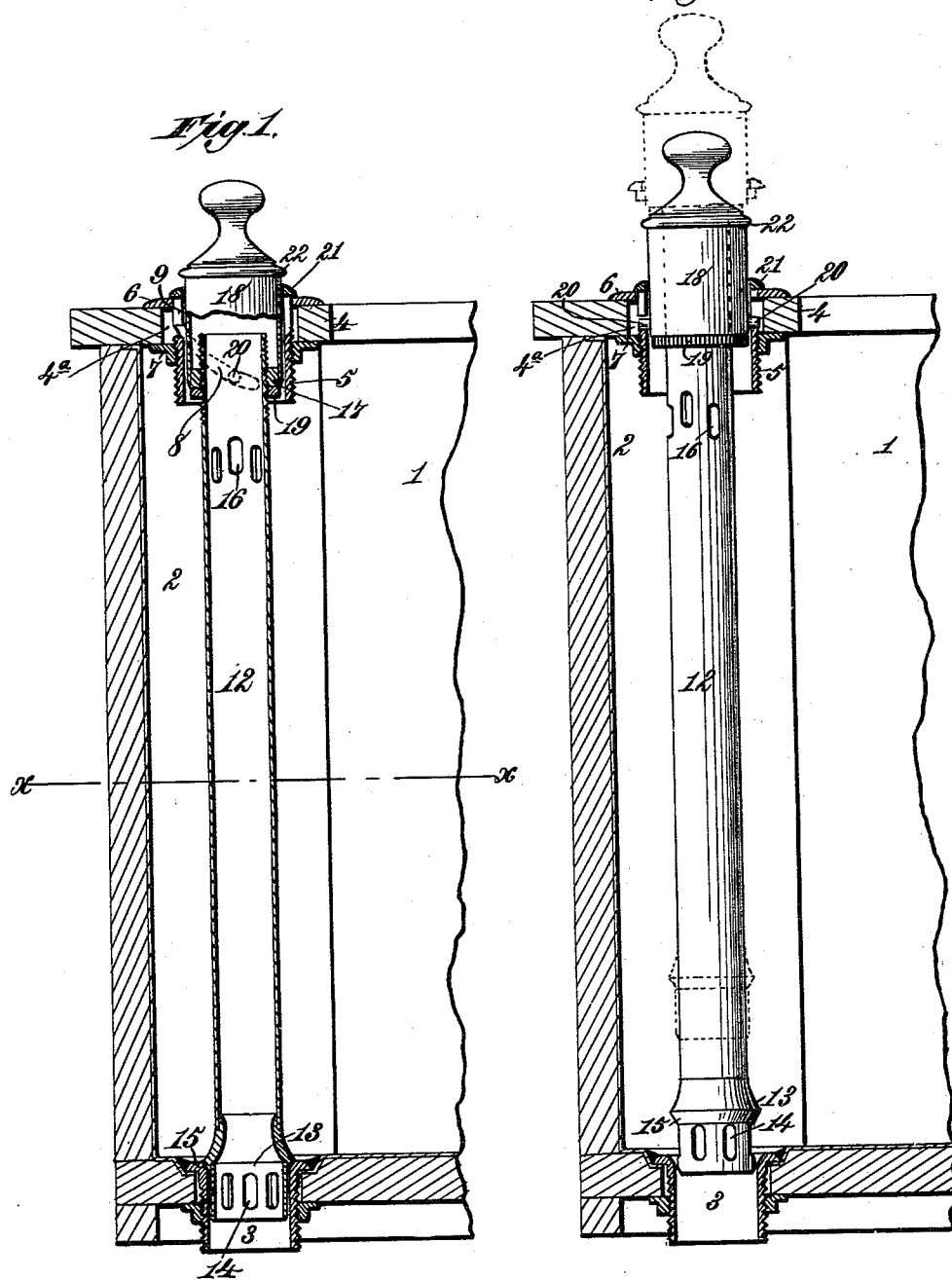
(No Model.)

2 Sheets—Sheet 1.

C. A. BLESSING.
STANDING OVERFLOW AND WASTE.

No. 420,328.

Patented Jan. 28, 1890.



Witnesses:
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J. G. Myers Jr.

Inventor:
Charles A. Blessing.
By *James L. Norris.*
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Fig. 3.

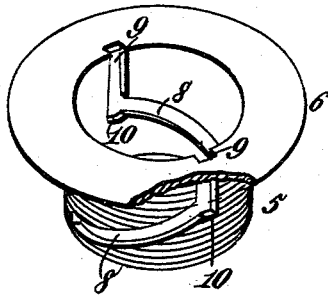


Fig. 4.

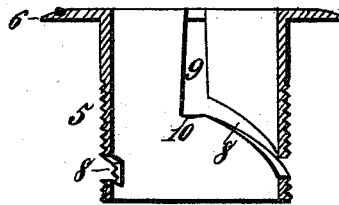


Fig. 5.

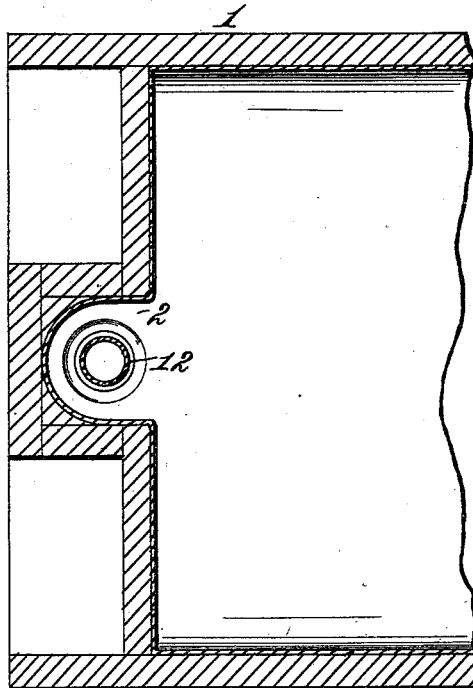
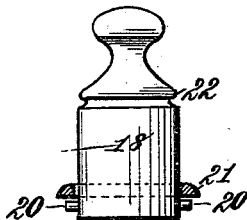


Fig. 6.



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UNITED STATES PATENT OFFICE.

CHARLES A. BLESSING, OF PHILADELPHIA, PENNSYLVANIA.

STANDING OVERFLOW AND WASTE.

SPECIFICATION forming part of Letters Patent No. 420,328, dated January 28, 1890.

Application filed September 11, 1889. Serial No. 323,605. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BLESSING, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Standing Overflows and Wastes, of which the following is a specification.

My invention relates to that class of devices used in bath-tubs and basins in place of the ordinary waste-plug and overflow, said devices being commonly known in the trade as "overflow stand-pipes and wastes."

It is the purpose of my present invention to provide a novel and simple construction and combination of parts whereby an overflow stand-pipe and waste may be combined with a bath-tub or basin within a recess formed for such purpose, and whereby the stand-pipe may be accurately centered and adjusted in said recess with respect to the outlet or valve-seat without the necessity of especial skill or care in forming the opening in the end plate or overhanging slab in which the guide sleeve or collar is placed, and irrespective of the thickness of said plate.

It is also my purpose to provide a simple construction of parts whereby the stand-pipe may be adjusted to tubs of varying depth, and the valve-seat ring or plug-ring formed thereon adjusted to make a perfect engagement with the valve-seat of the outlet.

It is my further purpose to simplify and improve the construction and operation of this class of devices, whereby the stand-pipe may be readily removed bodily, and whereby, also, the slots and pins by which it is raised and lowered may be completely concealed from view without interfering with the vertical adjustment of the stand-pipe.

The invention consists in the several novel features of construction and new combinations of parts hereinafter fully set forth, and then definitely pointed out in the claims which follow this specification.

In order to enable others skilled in the art to practice my invention, I will describe the same in detail, reference being made to the accompanying drawings, in which—

Figure 1 is a vertical longitudinal section of the end of a bath-tub with which my invention is combined. Fig. 2 is a similar view

showing the parts in a different position. Fig. 3 is a detail perspective showing the slotted ring-guide or sleeve in which the knob of the stand-pipe is supported and guided. Fig. 4 is a sectional view of the ring-guide. Fig. 5 is a horizontal section of Fig. 1 in the line *x x*. Fig. 6 is a sectional elevation of the knob of the stand-pipe with the concealing-ring, showing a slight modification in construction.

In the said drawings, the reference-numeral 1 denotes the end of the bath-tub, in which is formed a recess 2, of semicircular or other suitable form. Within this recess is formed the outlet-opening 3.

In the overhanging top plate or piece 4 is formed an opening 4^a, which receives a ring-guide or sleeve 5, consisting of a cylindrical shell of somewhat less diameter than the opening in the top piece 4, and having upon its end a broad flange or collar 6, which lies upon said top piece or plate. The exterior surface of the sleeve 6 is threaded to receive a collar-nut 7, which is turned up against the lower surface of the top plate 4 to hold the ring-guide or sleeve 5 in place. In the sleeve 5 are formed opposite spiral slots 8, rising at a suitable pitch from points a little above the lower edge of said sleeve and communicating with vertical slots 9, which are carried through the top of the flange or collar 6. Seats 10 are formed at the upper ends of the spiral slots, for a purpose presently to be shown.

The reference-numeral 12 designates a stand-pipe consisting of a tube of suitable length having a foot 13, which lies and moves freely in the outlet-opening 3, and is provided with strainer-openings 14. Immediately above these openings a plug-ring or valve-seat ring 15 is formed on said pipe, fitting the valve-seat of the outlet. Overflow-openings 16 are formed in the stand-pipe at the proper height, which also act as strainers to prevent the pipe from becoming choked.

The stand-pipe is of such length that its upper end projects within the ring-guide, and upon this end is formed an exterior screw-thread engaging a female thread on a collar 17, which forms part of a knob-piece 18, a jam-nut 19 being turned up against the collar to hold the latter firmly at any point to which it may be adjusted. The knob-piece 18 fits

and moves easily within the ring-guide 5, and is provided with two opposite trunnion-pins 20, which lie in the slots 8. A covering-ring 21, of brass or other suitable metal, loosely surrounds the knob-piece 18 and rests upon the flange or collar 6, and wholly conceals the slots in the ring-guide.

The opening 4^a in the top plate 4 being of greater diameter than the ring-guide, the latter may easily be adjusted until its center is in the true vertical line with the center of the outlet-opening 3, whereby the stand-pipe is properly adjusted to the outlet. This construction avoids the necessity of employing great pains and skilled labor in forming the opening 4^a and avoids any evil results from the formation of the opening out of center.

By connecting the stand-pipe and the knob-piece in the manner shown I am able to adjust the former to the depth of the tub and to obtain a perfectly accurate engagement of the valve-seat ring 15 with the outlet. Moreover, the stand-pipe being of less diameter than the ring-guide 5, it may be wholly removed by simply turning the knob-piece till the trunnion-pins pass into the vertical slots 9, when the stand-pipe may be withdrawn bodily.

The knob-piece 18 may be formed with a projecting bead or collar 22, or it may be formed as shown in Fig. 6, wherein the bead lies within the periphery of the knob-piece, whereby the covering-ring 21 may be removed before taking the stand-pipe out of the ring-guide.

It is evident that the construction shown may be applied to basins as well as bath-tubs.

The seats 10 at the highest ends of the spiral slots serve to retain the trunnion-pins on the knob-piece and hold the stand-pipe when raised at such a point that its foot lies in the outlet-opening 3, while the strainer-openings are lifted above said outlet to permit the escape of the waste water.

What I claim is—

1. In a bath-tub or basin, the combination, with a top plate having an opening overhanging the outlet, of a ring-guide of less diameter than said opening and having a flange or collar resting on the top plate, a collar-nut turned on the threaded exterior of said ring-guide and resting against the lower face of the top plate, and a stand-pipe having a knob-piece provided with trunnion-pins which move in spiral slots in the ring-guide, said slots having seats at their upper ends to receive and retain the said trunnion-pins, substantially as described.

2. In a bath-tub or basin, the combination, with a ring-guide lying in an opening of greater diameter and having a flange or collar covering said opening, of a stand-pipe having a knob-piece provided with trunnion-pins lying in spiral slots in the ring-guide, and a covering-ring loosely surrounding said knob-piece and concealing vertical slots cut through the flange of the ring-guide and communicating with the spiral slots, substantially as described.

3. In a bath-tub or basin, the combination, with a ring-guide, of a knob-piece lying in the ring-guide and having pins moving in spiral slots which communicate at their upper ends with the vertical slots passing through the flange or collar, a stand-pipe having a valve-seat ring of less diameter than the ring-guide, said stand-pipe being adjustably connected with the knob-piece, and a loose detachable covering-ring surrounding the knob-piece and resting on the ring-guide flange to conceal the vertical slots, substantially as described.

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

CHARLES A. BLESSING.

Witnesses:

LINFORD DELANY,
WALTER SCOTT HART.