

No. 680,592.

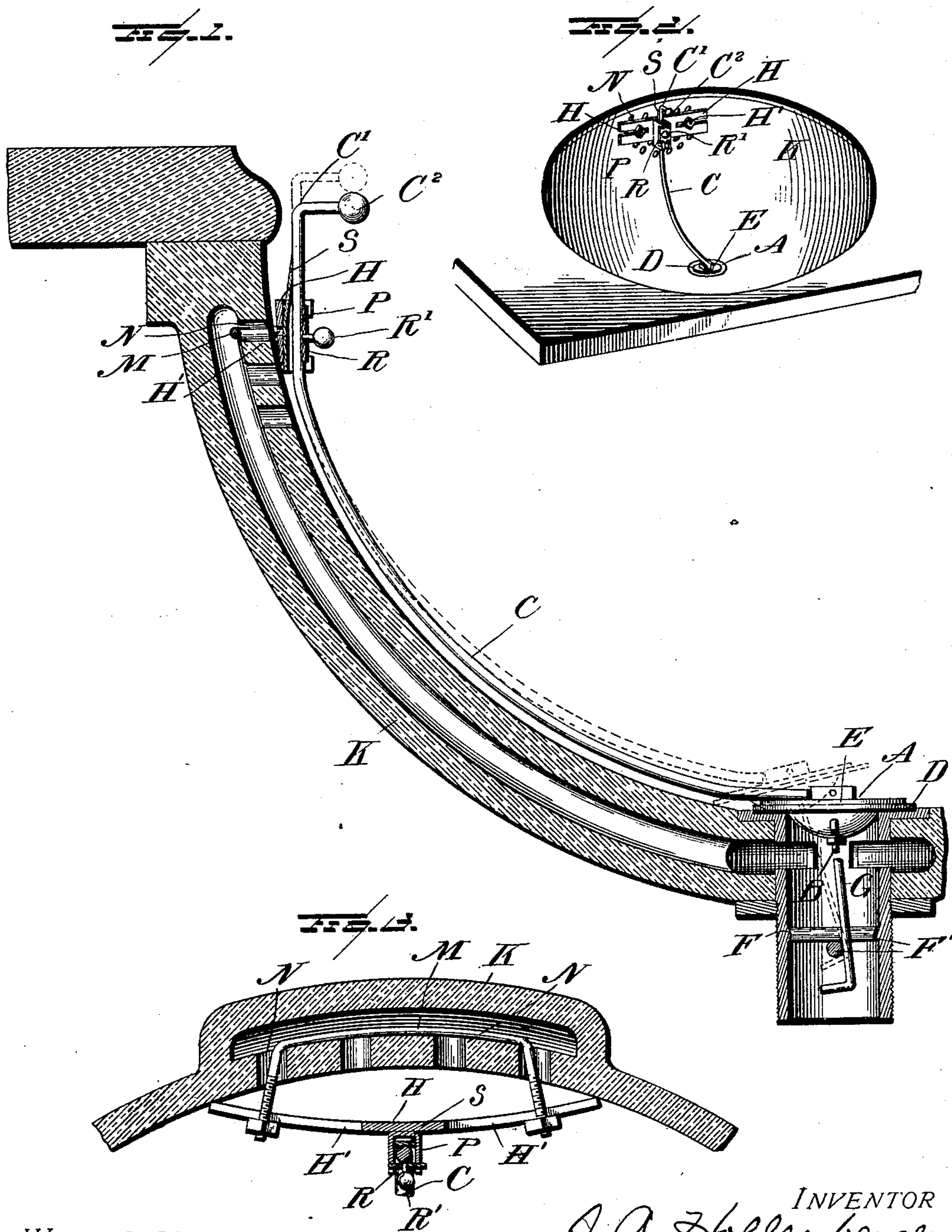
Patented Aug. 13, 1901.

J. A. HOLLENBERGER.

WASTE VALVE FOR WASHBOWLS, BATH TUBS, &c.

(Application filed Dec. 26, 1900.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN A. HOLLENBERGER, OF HAGERSTOWN, MARYLAND.

## WASTE-VALVE FOR WASHBOWLS, BATH-TUBS, &c.

SPECIFICATION forming part of Letters Patent No. 680,592, dated August 13, 1901.

Application filed December 26, 1900. Serial No. 41,114. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. HOLLENBERGER, a citizen of the United States, residing at Hagerstown, in the county of Washington and State of Maryland, have invented certain new and useful Improvements in Waste-Valves for Washbowls, Bath-Tubs, &c.; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in washbowl attachments, and especially to the provision of a plug and mechanism for operating same, which attachment may be readily applied to bowls or bath-tubs of various sizes.

In carrying out the present invention I improve upon the construction of waste-valve-operating device upon which I have been granted Letters Patent in the United States No. 674,507.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings similar letters of reference indicate like parts throughout the several views, in which—

Figure 1 is a vertical central sectional view through a washbowl, showing my improved waste-plug as attached to the bowl. Fig. 2 is a detail view in perspective of the bowl, showing the means for holding the rod connected to the plug to the bowl. Fig. 3 is a detail view in section showing the manner of holding the rod-retaining plate to the bowl.

Reference now being had to the details of the drawings by letter, A designates a plug, which is convexed on its under face and is apertured to receive a screw B, on which an adjusting-nut is mounted. To the slotted end of said screw is pivoted the lower end of the rod C, and interposed between said plug and the shouldered portion of the screw is an elastic disk D and metallic washer E.

F designates the outlet-pipe leading from the lower portion of the bowl and has cross-pieces F' disposed at right angles to each other, as shown. These cross-pieces are de-

signed or utilized to engage and hold the hooked end of the rod G, which is securely fastened at its upper end to said plug, so that the plug cannot be pulled out of the bowl while the rod is fastened to the bar H, which is secured to the bowl K. Said bar or plate H has slots H' in its ends, through which the threaded ends of the retaining wire or rod M are passed and engaged by nuts, as shown. The retaining-rod M is passed through one of the slots in said plate and into one of the perforations N of the outlet or overflow passage-way, and the wire being flexible bends to conform to the inner wall of the outlet or overflow chamber, into which the water runs after passing through the perforations N. The other end of the wire is then passed through one of the perforations N and through the slot at the other end of the plate and a nut screwed on its end. After a nut is screwed on the opposite end of said threaded wire by tightening each nut the slotted plate may be securely held to the bowl.

To the outer face of the plate H is a yoke or boxing P, having recessed edges and hooked portions, which are provided to hold and retain the plate R, having the knob R'. This plate R serves to hold the rod within said boxing. To the inner wall of said boxing is secured one end of the spring S, the free end of which bears yieldingly against the rod C, so that the latter will frictionally engage the inner face of said plate R sufficiently to hold the rod at any desired location. The rod C after being adjusted to the bowl may be cut off and its end bent, as at C', to form a convenient handle, and a knob C<sup>2</sup> may be placed on the rod, as shown.

It will be observed from the foregoing that my invention, being simple in construction, is of such a character that it may be readily applied to various kinds of bowls, bath-tubs, &c.

By the provision of the hooked rod secured to the under surface of the plug it will be observed that the upward throw of the plug will be limited and be prevented from becoming removed from place when the rod is adjusted to the slotted plate. When it is desired to remove the plug and the rod from the bowl, the plate R' is pulled out, the rod removed from the boxing, and by turning the plug so that the hook secured thereto will free



the cross-pieces in the outlet passage-way the plug may be easily withdrawn.

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

1. In combination with a washbowl or bathtub having a waste-outlet passage-way with cross-pieces therein, a plug, a flexible rod secured to said plug and means for holding the rod to the bowl or tub, and a hook secured to the plug and designed to engage said cross-pieces in the waste-outlet, as set forth.

2. In a washbowl or bath-tub attachment, the combination with the tub or bowl having perforated overflow-apertures, a plate, a wire passing through said plate and the perforations of the overflow and nuts for securing the plate to the bowl, the plug and rod secured thereto, the boxing and spring S to hold

the rod to the plate and means for holding the plug so as to have a limited play over the waste passage-way of the bowl or tub, as set forth.

3. In combination with a washbowl or bathtub, having perforated overflow passage-way, a slotted plate with rod-retaining means secured thereto, the rod and plug, and a threaded wire the ends of which project outward through said perforations and extend through the slots in said plate, and the nuts held on said threaded ends, as set forth.

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

JOHN A. HOLLENBERGER.

Witnesses:

JOHN ANKENY,  
HARVEY H. HEYSER.