

(No Model.)

H. C. WEEDEN.  
WATER CLOSET BOWL.

No. 323,473.

Patented Aug. 4, 1885.

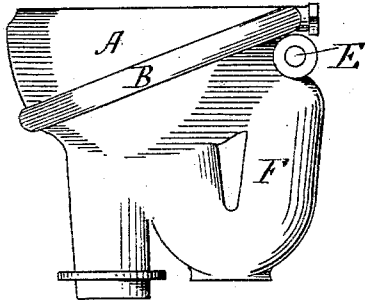


FIG. 1.

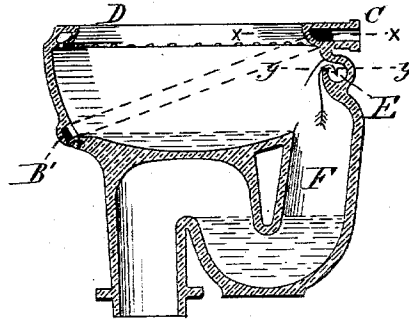


FIG. 2.

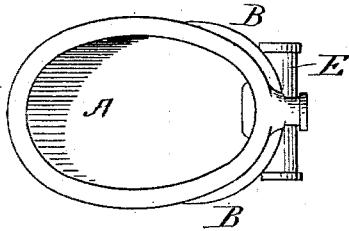


FIG. 3.

FIG. 4.

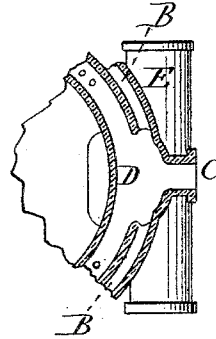
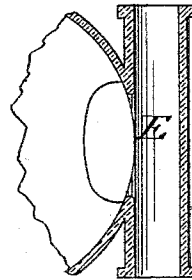


FIG. 5.



WITNESSES.

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INVENTOR.

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# UNITED STATES PATENT OFFICE.

HENRY C. WEEDEN, OF BOSTON, MASSACHUSETTS.

## WATER-CLOSET BOWL.

SPECIFICATION forming part of Letters Patent No. 323,473, dated August 4, 1885.

Application filed December 3, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY C. WEEDEN, of Boston, in the county of Suffolk and State of Massachusetts, a citizen of the United States, have invented certain new and useful Improvements in Water-Closet Bowls, of which the following is a specification.

My invention relates particularly to improvements in the construction of the so-called "washout-closet;" and its object is to provide improvements in the flushing and ventilating apparatus.

In the accompanying drawings is shown a closet embodying my present improvements.

Figure 1 is a side view, and Fig. 3 a top view, of the closet. Fig. 2 is a vertical section of the same; and Figs. 4 and 5 are transverse sections on an enlarged scale upon the lines *xx* and *yy* of Fig. 2.

One of the chief desiderata in the construction of water-closet bowls is that no part of the bowl shall lie beyond the vertical line of the front of the closet. Any such projection of any part of the closet beyond the vertical line necessitates the placing of the box or casing at an inconvenient distance from the edge of the bowl, and thereby impairs the usefulness and convenience of the structure. In washout-closets as heretofore constructed the pipe for giving the bottom flush has commonly, by reason of its construction and location, formed such a projection. One object of my present improvement is to so form this bottom-flushing pipe that no part of it shall project beyond the outside line of the front of the bowl. In doing this it is not desirable, on the other hand, that any part of the bottom-flushing pipe should project into, and thereby break the regular or elliptical contour of the interior of the bowl.

By my improvement I provide a double bottom-flushing pipe, B B, the two branches of which start from any convenient points connected with the water-inlet C—as, for example, from the flushing-rim D near its junction with the said inlet. These two branches pass diagonally around the bowl upon its outer side, and meet on a level with the bottom, at which point they open into the bowl, as shown at B'. When so constructed, no part of the bottom-flushing pipe projects beyond the front of the

closet, which is that part which lies opposite the mouth or outlet thereof, and this enables the boxing to be brought up flush with the rim of the closet, as illustrated in Fig. 1.

Another object of my invention is to furnish an improvement in the means of conjointly ventilating the closet and trap. Heretofore the ventilating-outlet has been located within the pipe which connects the bowl of the closet with the underlying trap and near the upper end of said pipe. This construction, however, is faulty, in that the mouth of the ventilating-outlet when so placed is liable to be choked by the substances thrown off from the floor or bottom of the bowl by the action of the bottom flush. Moreover, a ventilating-outlet so placed does not sufficiently draw off the foul air from the bowl itself. To obviate these defects I locate the ventilating-outlet E in the side of the bowl immediately over its junction with the outlet-pipe. This position of the ventilating-outlet elevates it, so that it is no longer exposed to the choking described, and it also furnishes a conjoint ventilation both of the trap and bowl not heretofore accomplished.

For the sake of convenient connection of the ventilating-outlet I make it in a branched form, so that the ventilating-pipe may be attached to either end of the branch, as may be most convenient. The construction and relative location of this are fully illustrated at Figs. 2, 3, and 5.

I claim—

1. A washout-closet of the character described, having the bottom-flushing pipe located upon the outside of the bowl and wholly within the vertical line of the front edge of the closet, substantially as herein described, and for the purposes herein set forth.

2. In a washout-closet, the combination, with the bowl A and flushing-rim C, of the double and externally-located flushing-pipe B, for flushing the bottom of the bowl, all substantially as herein set forth.

3. The combination, with a washout-closet bowl, of a ventilating-outlet located in the side of the bowl, over the mouth of the outlet-pipe, which connects the bowl with its trap, whereby said ventilating-outlet is removed out of the path of matters passing out of the bowl, and is also adapted to furnish a direct venti-

lation of the bowl, and thereby an indirect ventilation of its outlet pipe and trap, substantially as set forth.

4. In a washout-closet, the combination of  
5 the bowl A, outlet-pipe F, connecting the bowl  
and its trap, and the branched ventilating-out-  
let E, located in the side of the bowl itself, and  
above the point of connection between the  
bowl and its outlet-pipe F, all substantially as  
10 set forth.

In testimony whereof I have hereunto sub-  
scribed my name this 28th day of November,  
A. D. 1884.

HENRY C. WEEDEN.

Witnesses:

J. HENRY TAYLOR,  
JAMES F. BLIGH.