March 2, 1926. 1,575,220

F. T. MEYER

SANITARY FIXTURE

Filed Sept. 26, 1924

Fig. 1.

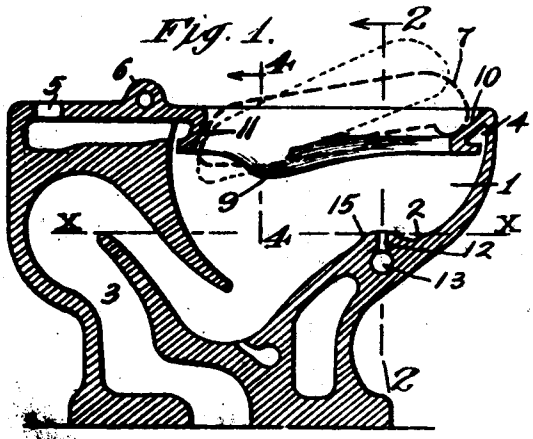


Fig. 2.

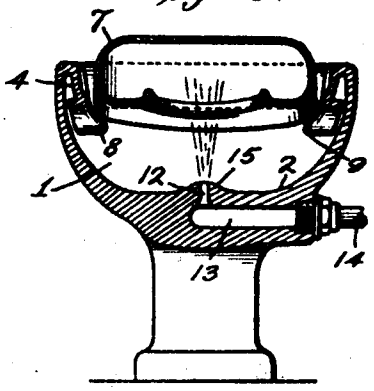


Fig. 4.

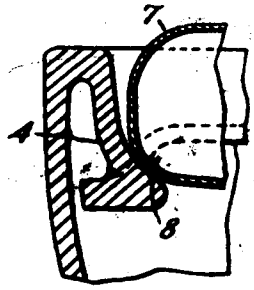
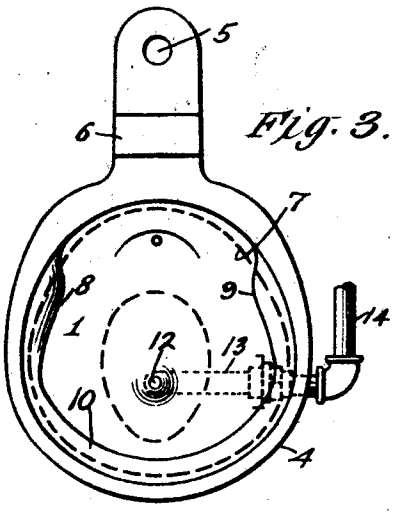


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANCIS T. MEYER, OF MONTCLAIR, NEW JERSEY, ASSIGNOR TO MEYER-SNIFFEN CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SANITARY FIXTURE.

Application filed September 26, 1924. Serial No. 739,994.

To all whom it may concern:

Be it known that I, FRANCIS T. MEYER, a citizen of the United States, residing at Montclair, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Sanitary Fixtures, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to certain improvements in water closet bowls or hoppers.

It is an especial object of the present invention to produce a closet hopper construction which can function for its usual purposes and which also can be utilized for washing or rinsing a bedpan or similar article, the hopper being so designed as to permit the thorough cleansing of the pan and to facilitate the positioning and the removal of the pan for the cleansing operation.

A further object of the invention is to produce a hopper structure which will be simple, of few parts and in which the pan is preferably supported so as to be above the normal water level of the hopper and in which the cleansing means for the pan are so arranged as to lie close to the surface of the water in the hopper, without, however, decreasing the water area of the hopper.

With these and other objects not specifically referred to in view, the invention consists in certain novel parts, arrangements and combinations which will be fully described in connection with the accompanying drawings, and the novel features pointed out in the claims hereunto annexed.

Referring to these drawings,—

Figure 1 is a central vertical section of the improved bowl or hopper, a pan being shown in the dotted lines;

Figure 2 is a vertical section taken on line 2—2 of Fig. 1;

Figure 3 is a plan view of the structure shown in Fig. 1, and

Figure 4 is a detail vertical section on an enlarged scale of one of the pan supporting flanges, the section being taken on line 4—4 of Fig. 1.

Referring now to these drawings, the invention has been shown in its preferred form and includes a closet hopper or bowl structure, which is of any suitable material, as porcelain, and which is made, as usual, by casting or molding. This hopper includes a bowl 1 having the usual slanting bottom 2, an outlet 3 and a flush rim 4, this flush rim being supplied with flushing water, as usual, through an inlet 5 connected with any suitable piping, not shown. The bowl structure may be provided with ears, one of which is shown, marked 6, to which the usual seat may be pivoted, this seat not being illustrated.

The improved hopper structure will include a support for a bedpan or the like, which is indicated by the numeral 7, and in the best constructions this support will be positioned in the bowl so as to be above the bottom of the bowl and above the normal water line. While this pan support may vary, as shown, it includes supporting flanges 8, 9, these flanges being positioned above the bottom 2 of the bowl 1 and above the normal water line of the bowl, indicated by the line x—x. These flanges may, of course, be formed in various ways, but they are conveniently formed by casting them integrally with the flush rim 4, the flush rim being molded or otherwise formed to extend downwardly and then inwardly on each side over the bowl bottom, as shown in plan in Fig. 3. These flanges are, of course, formed wide enough to support the pan. To facilitate the positioning and removal of the pan, the flush rim at the front and back of the bowl is formed so that the pan may have a tipping action on the flanges. As shown in Fig. 1, the edge of the rim is shown at 10 as inclined downwardly and inwardly, and the flush rim at the back, as shown at 11, is undercut. With this construction the front edge of the pan is supported on the flush rim at its front, and the side edges of the pan are supported on the supporting flanges 8, 9. By applying pressure on the rear end of the pan, the pan may be tipped to the position shown in the upper dotted lines in Fig. 1 and readily removed from the bowl.

Means are provided for supplying cleansing fluid to the pan, and these means are in the form of a jet opening, indicated at 12, this opening being preferably formed in the bottom of the bowl or hopper toward its front edge so that the jet of cleansing fluid is directed upwardly against the interior of the pan. This jet opening is, or may be,

formed in the bowl itself and connected through an inlet 13 with a supply pipe 14, this latter being connected with any suitable source of cleansing fluid, as water, not illustrated. In the best constructions, the bowl is formed so as to bring the jet opening close to the normal water level of the bowl without decreasing the area of the water surface, and this is conveniently done, as illustrated, by slightly mounding the bottom of the bowl around the orifice, this mounding being best shown in Fig. 1 and marked 15.

With the construction shown and described a very efficient hopper construction which may be utilized for cleaning a bedpan and the like has been provided. With the construction shown the pan is out of contact with the water in the bowl and can be readily removed from the hopper after washing without necessitating the placing of the hands in the bowl, and, furthermore, the pan supporting parts can be readily formed when making the hopper, so that the structure can be made without materially adding to the expense of producing the hopper, thus an economical and satisfactory structure is provided.

While the invention has been shown and described in what is believed to be its most practical form, it will be understood that the pan supports may be formed and positioned in the hopper in various ways, and the invention is not to be restricted to the precise construction shown and described.

What I claim is:

1. The combination of a water closet hopper or the like and means for flushing it, a bed pan supporting flange below the top edge of the rim closely adjacent thereto and above the bottom of the hopper, a jet opening below the support, and means for supplying a flushing fluid to the jet.

2. The combination of a water closet hopper or the like and means for flushing it, a bedpan supporting flange below the top edge of the rim closely adjacent thereto and above the bottom of the hopper, a jet opening in the bottom below the flange, a mound in the bottom about the jet opening, and means for supplying flushing fluid to the jet.

3. The combination of a water closet hopper or the like having a flush rim, short supporting flanges depending from the rim and extending inwardly on each side over the bowl above the bottom thereof, a jet opening below the flanges, and means for supplying flushing fluid to the jet.

4. The combination of a water closet hopper or the like having a flush rim, the front edge of which is inclined inwardly and the back edge of which is inclined rearwardly, supporting flanges depending from the rim and extending inwardly on each side over the bowl above the bottom thereof, a jet opening below the flanges, and means for supplying flushing fluid to the jet.

5. In a water closet hopper or the like, a flush rim and connections for supplying water thereto, a jet opening independent of the rim, connections for supplying water to the jet, and a mound around the jet opening.

6. A water closet hopper or the like, having a flush rim, short flanges integral with the rim and extending inwardly over the hopper above the bottom, and means below the flanges for directing a cleansing fluid against an article supported on the flanges.

In testimony whereof, I have hereunto set my hand.

FRANCIS T. MEYER.