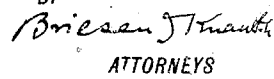


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WATER-CLOSET.

972,388.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SAMUEL W. LEWIS, a citizen of the United States, and resident of the borough of Brooklyn, county of Kings, city and State of New York, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification.

My invention relates to water closets and has for its object to prevent the fouling or staining of the bowl rim by deposit at the back above the cleansing flow of water. This result I have obtained without giving up the regular horizontal line of the rim or the symmetry of the bowl, or departing from the position of the staple seat attachment.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a plan view of a water closet bowl embodying my invention; Fig. 2 shows the same in longitudinal vertical section, with the seat attached; and Fig. 3 is a plan view of bowl and seat, showing a slightly different form of my invention.

In the construction shown in Figs. 1 and 2, the bowl A has an opening B to receive the water supply pipe, which opening leads to a chamber C from which channels D, one at each side of the bowl, extend to a chamber E located under the upward leg F of the siphon F, G. The chamber E communicates by a duct H with the upwardly directed nozzle J arranged to deliver a jet of water in the direction of the siphon leg F. From the chamber C the water passes through a channel K to the interior of the flushing rim L, which is continuous. At its rear portion, the flushing rim is extended, as indicated at L', this extension in the particular case illustrated, reaching to or even slightly beyond the line connecting the two openings M which are provided to receive the posts or brackets N for supporting the seat O hinged at O'. With this arrangement, even the outer edge O² of the seat is forward of the rear portion of the flushing rim, at the rear portion of the seat, as clearly shown in Fig. 2, thus leaving, behind the seat, an opening through which a brush or other implement may be inserted (without lifting the seat) to clean the extreme rear portion of the bowl. This however will not be necessary, as a rule, for the reason that the inner edge O³ of the seat, at its rear portion, is so far forward of the flushing rim (as indicated

by the small angle, less than 45°, which the line *a—*a** forms with the horizontal) as to reduce to a minimum the danger of soiling the rear portion of the bowl's interior. The dotted line *o* in Fig. 1 indicates the position of the seat's outer edge.

The construction shown in Fig. 3 differs from the one above described in several minor respects, but chiefly by the fact that the seat-posts N' are located interiorly of the line of the flushing rim L² (having the rear extension L³), instead of exteriorly thereof as in Figs. 1 and 2.

In each form of my invention, all portions of the flushing rim lie in the same plane, and the extension L' (L³) is carried to or slightly beyond, a line connecting the two openings M which receive the seat-posts.

The bowl is of substantially elliptical shape, having its greatest width at a point well forward of the openings which receive the seat-posts, and at the rear the bowl has an elongated chamber or recess of less width than the main part of the bowl. The flushing rim surrounds the upper edge of the bowl and has its rear portion formed to provide a narrowed elongated extension of the top opening of the bowl and to conform substantially to the contour of the rear wall of the bowl.

I claim as my invention:

1. A water closet bowl provided with a continuous flushing rim all portions of which lie in the same plane, said rim being of substantially elliptical shape, with its greatest width at a point well forward of the hinge line of the seat, the rear portion of said rim being formed with a narrow rearward extension to about the line of said hinge.

2. The combination with a water closet bowl, of a hinged seat which in its lowered position has its rear edge forward of the rearmost point of the bowl rim's inner edge.

3. The combination with a water closet bowl, of a hinged seat which in its lowered position has its rear edge forward of the rearmost point of the bowl rim's inner edge, an opening being left between the rear edge of the seat and the inner edge of the rim, at the rear of the bowl.

4. The combination, with a water closet bowl, of a seat the rear edge of which is forward of the rearmost point of the bowl rim's inner edge.

5. The combination, with a water closet

bowl, of a seat the rear edge of which is forward of the rearmost point of the bowl rim's inner edge, an opening being left between the rear edge of the seat and the inner
5 edge of the rim, at the rear of the bowl.

6. The combination with a water closet bowl, of a seat the rear inner edge of which is so far forward of the rear portion of the bowl rim's inner edge that a line connecting
10 the rearmost points of said inner edges will form an angle of less than 45° with the horizontal.

7. A water closet bowl of substantially elliptical shape having at the rear an elongated chamber or recess of less width than
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the main part of the bowl, and a flushing rim surrounding the upper edge of the bowl and having its rear portion formed to provide a narrowed elongated extension of the top opening of the bowl and to conform substantially to the contour of the rear wall of
20 the bowl.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

SAMUEL W. LEWIS.

Witnesses:

JOHN LOTKA,

JOHN A. KEHLENBECK.