(No Model.)

C. A. FREEMAN.

WATER CLOSET.

No. 595,382. Patented Dec. 14, 1897.

Fig. 1.

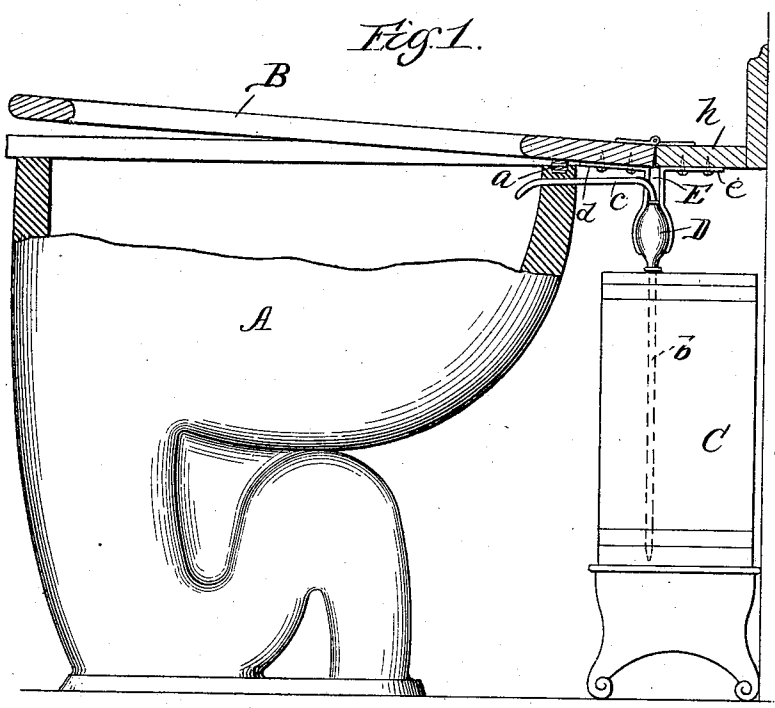


Fig. 4.

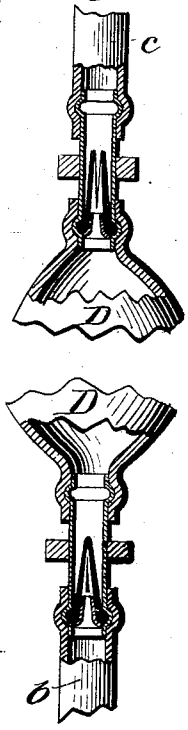


Fig. 3.

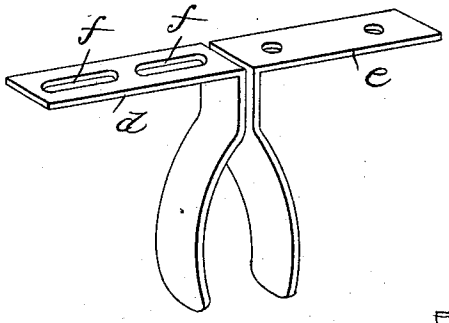
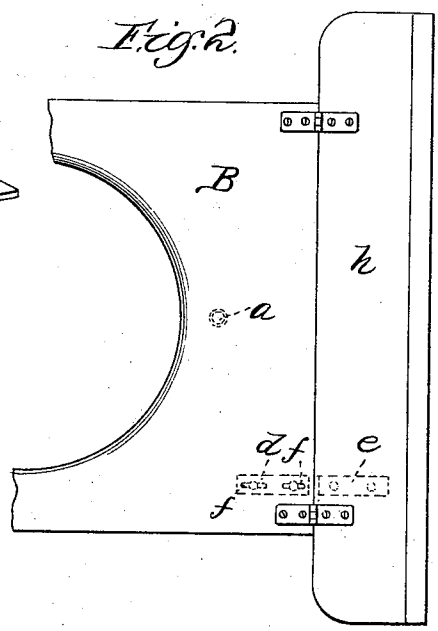


Fig. 2.



Witnesses.

Wm. N. Rheem.

Wm. F. Fleming

Inventor.

Charles A. Freeman

by Bond Adams Richard & Jackson

his Att'ys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES A. FREEMAN, OF AUSTIN, ILLINOIS.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 595,382, dated December 14, 1897.

Application filed October 25, 1895. Serial No. 566,924. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. FREEMAN, a citizen of the United States, residing at Austin, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a water-closet bowl with my improvements attached, part of the bowl being broken away. Fig. 2 is a top or plan view of a portion of the seat. Fig. 3 is a detail, being a perspective view of the adjustable clamp. Fig. 4 is a partial sectional view showing the valved bulb.

This invention relates to devices for disinfecting water-closets, and has for its object to provide means for automatically discharging a suitable disinfecting material into the bowl of the water-closet at the moment the seat is first occupied. I accomplish this object in the manner and by the means hereinafter fully set forth and as shown in the drawings.

That which I believe to be new will be set forth in the drawings.

In the drawings A indicates a water-closet bowl of any approved pattern.

B indicates a suitable seat hinged in the usual manner over the bowl A and normally held slightly raised above the bowl by one or more springs *a* or in any other suitable manner. As shown, one coiled spring is employed for this purpose.

C is a vessel of any suitable size and shape adapted for holding the disinfecting material employed, and which in the construction shown is located in rear of the bowl A. Passing through the upper end of the vessel C and extending down to near the bottom thereof is a pipe *b*, through which the disinfecting liquid is drawn from the vessel.

D indicates a pumping device connected to the upper end of the pipe *b*. As shown in the drawings, the device employed is a suitably-valved rubber bulb of the kind ordinarily employed in hand-syringes, and which is the most economical and at the same time the most effective device for the purpose that I am aware of.

c is a discharge tube or pipe connected to the upper end of the bulb D and passing through a suitable opening in the rear wall of the bowl A, so as to properly discharge the disinfecting material into the said bowl.

E indicates a clamp made in two parts *d* and *e*, the former being adjustable and the latter fixed, and each part consisting of a horizontal portion and a downward-extending portion, the two downward-extending portions being bowed, as shown, or otherwise formed to adapt them to produce the required pressure on the bulb D. As shown, the part *e* of the clamp is securely fastened to the under surface of the usual seat-frame board *h*, to which the seat B is hinged, and which in effect forms an immovable part of the seat, and the part *d* is secured to the under surface of the seat proper in line with the part *e*. It is an advantage to have this clamp adjustable, so that the bulb which lies between its downward-extending parts can be given greater or less pressure, accordingly as it is desired to discharge a greater or less amount of disinfecting material into the bowl A. I have provided for this adjustability by forming slots *f f* in the horizontal portion of the part *d* of the clamp, through which slots the holding-screws pass. It will be understood, of course, that by loosening the screws sufficiently part of the clamp can be adjusted to produce the required amount of pressure on the bulb D, and then the screws are to be tightened up.

In use this invention will be found very economical, as but one small discharge of the disinfecting liquid takes place with each occupancy of the seat, and, as before explained, the amount of such discharge is readily regulated by means of the adjustability of the clamp that acts upon the bulb.

In all modern water-closets there is left at all times a small amount of water in the bowl, and by the employment of a proper disinfectant such water is rendered antiseptic by the very small discharge of liquid that comes from the vessel C.

The device as a whole is very cheap, simple, and effective and can be readily applied to existing forms of water-closet bowls.

What I claim as new, and desire to secure by Letters Patent of the United States, is as follows:

1. A water-closet bowl provided with a seat and a seat-frame board in combination with a vessel for containing a disinfecting liquid, a valved bulb, pipes leading therefrom to said bowl and vessel, respectively, and a clamp composed of a stationary and a movable member, the former secured to the seat-frame board and the latter secured to and actuated by the seat, substantially as described.

2. A water-closet bowl provided with a seat, in combination with a vessel for containing disinfecting liquid, a valved bulb, pipes leading therefrom to said bowl and vessel respectively, and a compression device carried and actuated by said seat to press upon said bulb, substantially as and for the purpose described.

3. A water-closet bowl provided with a seat, in combination with a vessel for containing disinfecting liquid, a valved bulb, pipes leading therefrom to said bowl and vessel respectively, and an adjustable clamp actuated by said seat to press upon said bulb, substantially as and for the purpose described.

CHARLES A. FREEMAN.

Witnesses:
ALBERT H. ADAMS,
JOHN L. JACKSON.