

J. H. PETERSON.  
 Disinfecting Apparatus and Safety-Seat for Water-  
 Closets.

No. 198,675.

Patented Dec. 25, 1877.

Fig. 1.

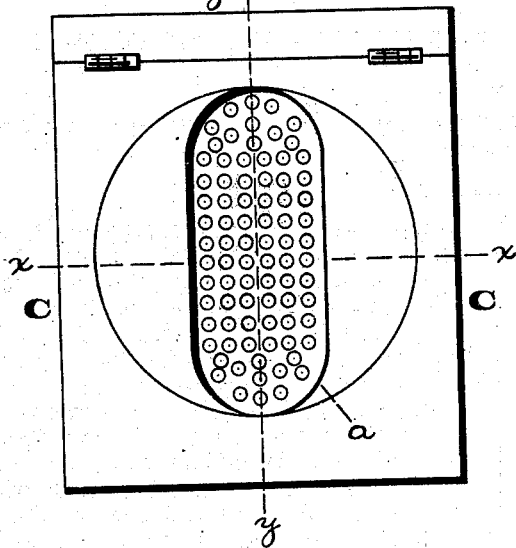


Fig. 2.

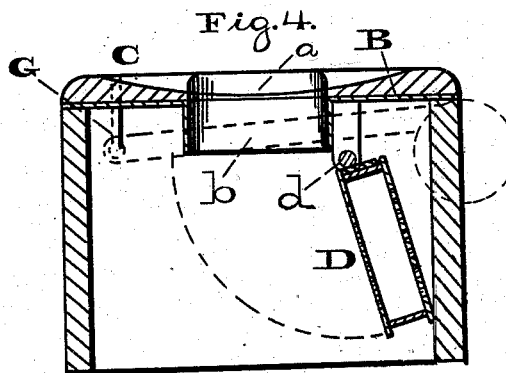
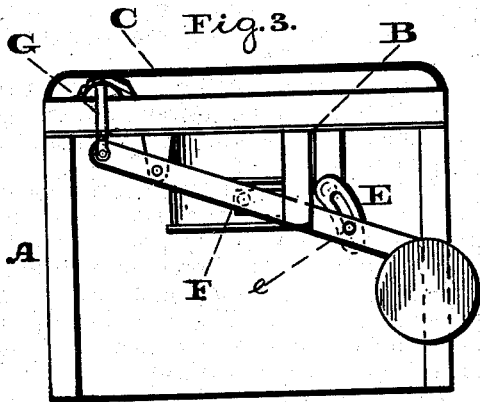
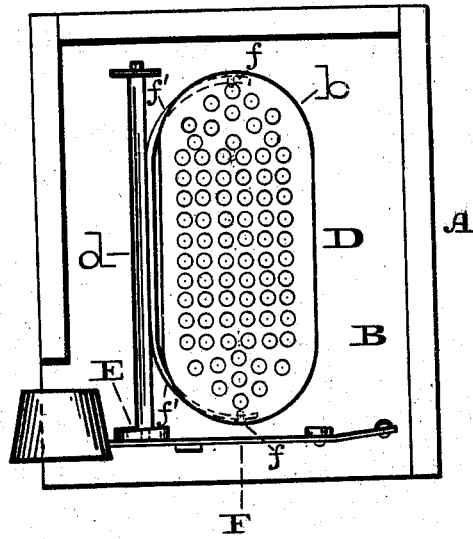
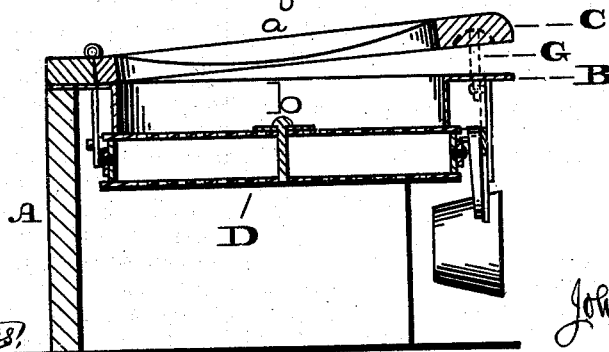


Fig. 5.



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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN DISINFECTING APPARATUS AND SAFETY-SEATS FOR WATER-CLOSETS.

Specification forming part of Letters Patent No. **198,675**, dated December 25, 1877; application filed  
May 18, 1877.

*To all whom it may concern:*

Be it known that I, JOHN H. PETERSON, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in a Disinfecting Apparatus and Safety-Seat for Water-Closets, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a top or plan view of the apparatus embodying my invention. Fig. 2 is a bottom view thereof. Fig. 3 is a front view thereof. Fig. 4 is a transverse vertical section in line *x x*, Fig. 1. Fig. 5 is a longitudinal vertical section in line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

My invention relates to improvements in water-closets wherein there is employed a receptacle for preventing the ascent of noxious vapors or exhalations from the sewer or cess-pool; and it consists of means for automatically operating the receptacle and imparting quick opening and closing motions thereto.

It also consists in pivoting the receptacle to arms, which are connected to the axial rod of the receptacle, whereby, when the latter closes, it will conform to any irregularities on the bottom edge of the bowl or under side of the top plate, thus providing a tight joint and preventing the escape of vapors thereat.

Referring to the drawings, A represents a supporting-frame, and B the top plate thereof, to which frame or plate will be hinged the seat C, said seat and top plate having openings *a b*.

On the under side of the plate B there is hinged a receptacle, D, consisting of a box or chamber having a perforated top and bottom, and of such dimensions as to overlap the edges or walls of the opening *b* of the top plate B.

To the axial rod *d* of the receptacle D there is secured a curved link, E, in which plays a pin, *e*, projecting from a weighted arm, F, pivoted to a hanger, attached to the plate B at the side opposite to the axis of the receptacle D, the said arm F being continued beyond its

fulcrum, and having there attached to it an upright spindle, G, which passes through the top plate B sufficiently high to raise the seat C somewhat above the plate B, this being the normal position of the seat.

The operation is as follows: The receptacle D will be properly filled with charcoal or other disinfecting material. When the water-closet is to be used, and the seat is occupied, the weight of the occupant depresses the spindle G and the connected end of the arm F, whereby the weighted end of said arm and the link E are elevated, and the receptacle swings downward on its axis, thus opening the closet or the bowl thereof, and permitting the descent of the excrement.

By leaving the seat, the movable parts return to their normal position, and the receptacle D closes the space of the opening *b* of the top plate B.

It will now be seen that all noxious matters that may arise from or exhalations of the cess-pool, sewer, or vault will, of necessity, enter the receptacle D, and pass through the disinfecting material therein, and such as are not absorbed thereby will ascend disinfected, and consequently pass off harmless, the beneficial effects of which are evident.

The receptacle will be pivoted, as at *f*, to arms *f'*, secured to the axial rod *d*, so that when the receptacle closes it may conform to any inequalities on the bottom edge of the bowl or under side of the top plate B, thus providing a tight joint and preventing the escape of vapors, &c., thereat.

It will also be seen that the connection between the seat and receptacle due to intermediate mechanism causes quick motions of said receptacle in opening and closing.

The openings *a b* of the seat C and top plate B are narrower in the direction of the width of the seat than that of the length thereof, so as to provide oblong openings of contracted width, whereby rubbish or articles of any material, size, &c., cannot be introduced into the water-closet, and the latter is prevented from being a place for receiving other matter than that designed.

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

1. The disinfecting-receptacle D, in combination with the spindle G, arm F, and link E, and with the seat C, substantially as and for the purpose set forth.

2. The receptacle D, in combination with

the arms *f'*, fixed to the axial rod *d*, and having the receptacle pivoted to them, substantially as and for the purpose set forth.

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Witnesses:

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