(No Model.)

C. ANDERSON.

WATER CLOSET LID.

No. 456,007. Patented July 14, 1891.

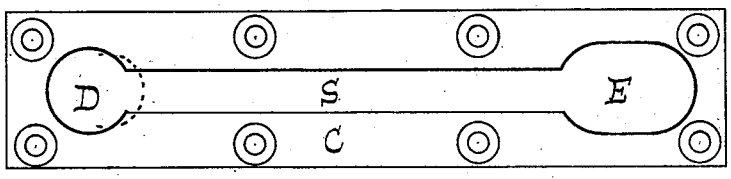


Fig. 1.

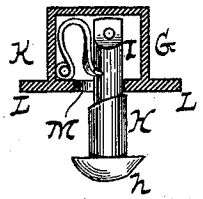
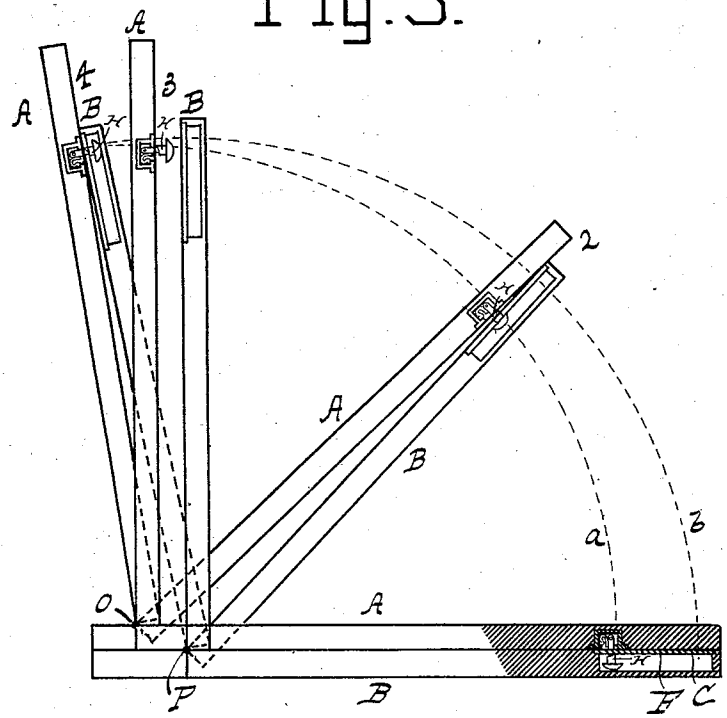


Fig 2

Fig. 3.



-WITNESSES-

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WATER-CLOSET LID.

SPECIFICATION forming part of Letters Patent No. 456,007, dated July 14, 1891.

Application filed January 3, 1891. Serial No. 376,634. (No model.)

To all whom it may concern:

Be it known that I, CHARLES ANDERSON, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Water-Closets, of which the following is a specification.

My invention consists in an improvement in water-closets, whereby when the lid is closed it automatically engages with the seat and on being raised carries the seat with it and automatically disengages at a certain point.

Figure 1 is a plan view of a plate to be let into the seat. Fig. 2 is a section through a box to be let into the under side of the lid and showing a spring-catch in elevation; and Fig. 3 is a side elevation of the lid and seat in various positions, partly in section.

A represents a water-closet lid, hinged at O to the frame of the closet, and B represents a water-closet seat, hinged at P to the frame.

C represents a metal plate secured to the upper surface of seat B, having a hole D near one end thereof and a larger or elongated hole E near the other end thereof, said holes D and E being connected by a slot S, which is contracted to a less width than the width of the holes D and E. Plate C is provided with holes for screws by which it is attached to seat B, and said seat is grooved out beneath said plate, as shown in Fig. 3.

G represents a box adapted to be mortised into the under side of lid A and provided with flanges L, by which it may be screwed to said lid.

H represents a button pivoted at I within box G, passing through a slot M in said box and terminating in a head *h*, which will pass freely through holes D and E, but will not pass through slot S in plate C.

K represents a spring by which button H is normally pressed to the right, Figs. 2 and 3.

Box G is mortised into lid A in such position that when said lid is closed down on seat B the head *h* of button H strikes the slot side of hole D in plate C, as shown by dotted lines in Fig. 1, when the rounded shape of said head *h* causes said button to swing against the action of said spring K until said head *h* passes through hole D, when spring K immediately swings button *h* so that its head lies partly under slot S, thus locking the lid and seat together. When lid A is raised, the button H will swing on the arc *a*, Fig. 3, while hole E will swing on arc *b*, the shank of button H sliding freely through slot S, so that starting from the position 1, Fig. 3, the parts will pass to position 2 and then to position 3, where head *h* will pass through hole E, thus permitting the seat to be closed without the lid, or the seat may be opened back against the lid, as in position 4. It will thus be seen that the lid cannot be raised without raising the seat, while the seat may be closed without affecting the lid. It is evident that the location of the button and plate may be reversed.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with the water-closet lid and the seat having a grooved portion, of the plate C, secured over the grooved portion of the seat and having the separated holes D and E connected by the contracted slot S, the box G, mortised into the under side of the lid, and the spring-pressed button H, attached inside the box and having the head *h* at its outer end of a width greater than the contracted slot, but less than the separated holes, for automatically engaging and disengaging the edges of the contracted slot, substantially as described.

CHAS. ANDERSON.

Witnesses:
CYRUS E. LOTHROP,
GEO. H. LOTHROP.