

G. E. KINCH.
LID FOR CLOSET SEATS.
APPLICATION FILED APR. 13, 1917.

1,342,505.

Patented June 8, 1920.

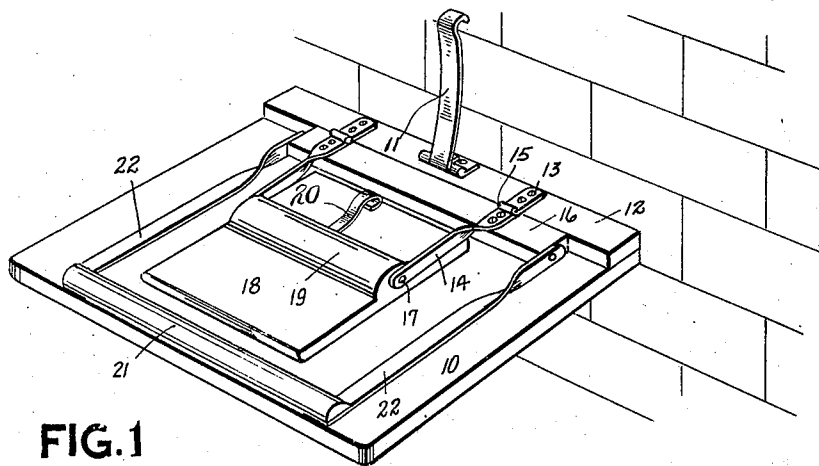


FIG. 1

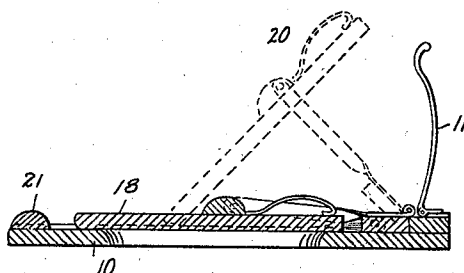


FIG. 2

FIG. 3

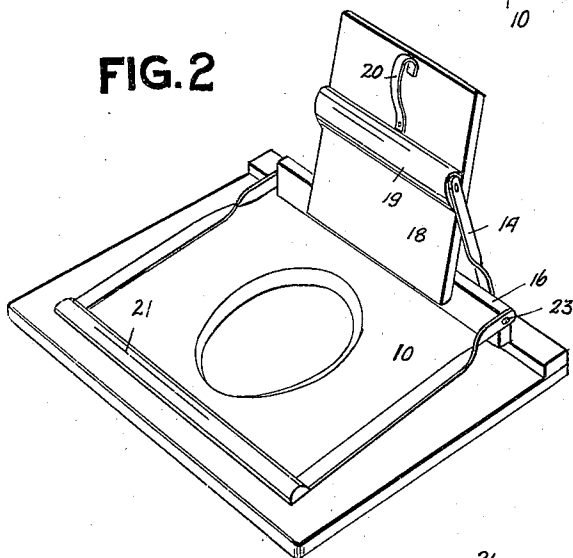
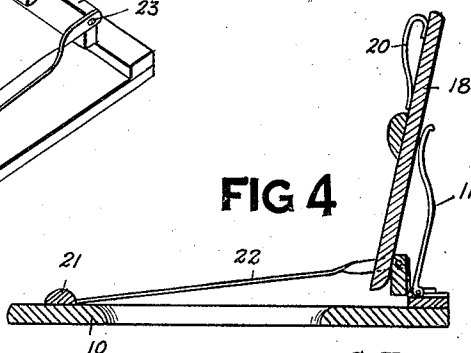


FIG 4



G. E. Kinch

Inventor

By

Albert P. Parker

Attorney.

UNITED STATES PATENT OFFICE.

GEORGE EDWARD KINCH, OF QUIRINDI, NEW SOUTH WALES, AUSTRALIA.

LID FOR CLOSET-SEATS.

1,342,505.

Specification of Letters Patent.

Patented June 8, 1920.

Application filed April 13, 1917. Serial No. 161,918.

To all whom it may concern:

Be it known that I, GEORGE EDWARD KINCH, subject of the King of Great Britain and Ireland, residing at The Poplars, Quirindi, New South Wales, Australia, have invented new and useful Improvements in Lids for Closet-Seats, of which the following is a specification.

This invention relates to sanitary closets, and it consists in a hand raised seat lid which is hung so that it reverses in the opening movement, bringing its underside to the rear and exposing its top side as a back rest. An automatic check is associated with the hinge to hold the lid in the raised position while the closet is in use and to permit the lid to fall closed when the closet is not in use; it consists in a sliding bar located over the front edge of the seat, and rods connecting said sliding bar to the lid hinges. This automatic check is applicable to non-reversing self closing lids. In practice the lid is balanced so as to fall closed by gravity.

In the accompanying drawings, Figure 1 is a perspective view of a closet seat with the lid fitted thereto, in the closed position; Fig. 2 is a similar view with the lid in the open position; Fig. 3 is a longitudinal section showing the lid in closed position in the full lines and the same in partly open position in the dotted lines; and Fig. 4 is a longitudinal section showing the lid in fully open position.

The seat panel 10 may be a cabinet fixture or may be a removable seat adapted over a sanitary pan or basin. When it is fitted in a fixed position the folding lid rest 11 may be omitted. This rest is provided to support the lid in the open position (see Fig. 4) when it does not rest against a wall or other fixed structure, and it is mounted on the ledge piece 12 so that it may be folded forward (see Fig. 1) to facilitate packing and transport. The ledge piece 12 is fixed across the rear part of the seat panel 10 and carries the butts 13 of the lid hinges. The leaves 14 of these hinges are long; near the pintles 15 they are screwed to the folding carrier 16; and at their ends they are pivotally attached (17) to the lid 18.

The pivots 17 are fitted into the ends of a rib 19 which is fixed across the top of the lid, supporting the lid so that when the hinge is raised the lid will tend to hang angularly on said pivots 17 with its fore edge advanced

as indicated in dotted lines in Fig. 3. 20 is a lid hand grip on the lid 18. The forward end of the lid rests against the folding carrier 16 when the lid is raised, the rear end of the lid then being in the top position, as shown in Figs. 2 and 4.

As the center of gravity of the lid is slightly forward of the pintles 17 when the lid is fully open, the lid tends to move by gravity to the closed position (see Figs. 3 and 1), and as its forward edge is advanced, it will always close with its rear surface downward, thereby insuring that the underside of the lid will never be exposed to view.

To hold the lid steady in the open position while the closet is in use, a stop device is fitted to check forward movement. This stop device consists of a sliding bar 21 fixed to the ends of check rods 22 which are pivotally connected at 23 to the folding carrier 16. The sliding bar 21 is moved slightly over the seat panel 10 in the opening movement of the lid; when it is held tightly upon the seat panel, as by the weight of a person sitting upon it, movement of the hinges is checked, and so the lid is then held in the fully open position.

The placing of the hand grip 20 near the rear edge of the lid 18 insures the opening of the lid always with its upper side forward. The contact of the forward end of the lid when fully raised with the folding carrier 16 insures the tipping back of the lid (see Figs. 2 and 4), so that when it is freed by relief of weight from the sliding bar 21, it will fall by gravity so that said forward end of it will come to the front of the seat panel, this movement being indicated by dotted lines in Fig. 3.

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

1. The combination with a closet seat, of means hingedly connected to the rear of said seat, and a seat lid pivotally carried by the forward end of said means, the forward edge of said lid being at all times in advance of its pivotal axis and in the open position below said axis.

2. The combination with a closet seat, of means hingedly connected to the rear of said seat, and a seat lid pivotally carried by the forward end of said means with its center of gravity located below and in advance of its pivotal axis in the open position.

3. The combination with a closet seat, of

means hingedly connected to the rear of said seat, and a seat lid pivotally carried by the forward end of said means, and balanced thereon to bring its upper surface forward in the open position.

4. The combination with a closet seat of a pair of hinges secured to the rear of said seat and having long forwardly extending leaves, a gravity closed seat lid pivotally carried between the forward ends of said long hinge leaves with its center of gravity located below and forward of its pivotal axis.

5. The combination with a closet seat of a hand lift lid, long hinge leaves having pivotal engagement with said lid and connecting same with said seat, the center of gravity of said lid being located below and forward of its pivotal axis and a folding carrier attached to said hinge leaves, said carrier forming a stop to check rearward movement of the front edge of said lid.

6. In combination with a closet seat, a lid therefor, links pivotally connecting said lid with said seat, the pivotal points of said lid being located above and rearward of its center of gravity.

7. An automatically closing closet seat lid, hinge leaves having pivotal engagement with said lid and connecting same with said seat, the center of gravity of said lid being located below and forward of the pivot points, and means for holding said lid in the open position.

8. The combination with an automatically closing closet seat lid, of means for holding said lid open, comprising a member slidable over the seat panel at the front thereof, and

connections between said member and said lid.

9. In combination with a hinged gravity closed closet seat lid, means for holding said lid open while the closet is in use, said means comprising a sliding bar located over the front of the seat panel, and connections therefrom to the lid hinge adapted to check movement of the lid when said bar is pressed down on the seat panel.

10. A gravity closing closet seat lid pivot hung on hinges and balanced to bring its upper surface forward in the opening movement, and fitted with a check to hold it open automatically while the closet is in use.

11. The combination with a closet seat of an automatically closing seat lid, pivotally supported from said seat, said lid being so balanced that its upper side is brought forward in the open position, and means actuated by the weight of a person for holding said lid in the open position.

12. The combination with a closet seat of means hingedly connected to the rear of said seat, a seat lid pivotally carried by the forward end of said means, the forward edge of said lid being at all times in advance of its pivotal axis and in the open position below said axis, and means connected to said lid and operable to open the same.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE EDWARD KINCH.

Witnesses:

WILLIAM POLLOCK,
O. E. COLT.