July 14, 1936. H. C. MACDONALD 2,047,480

TOILET SEAT AND COVER

Filed May 8, 1934

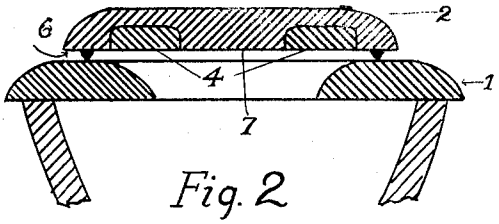
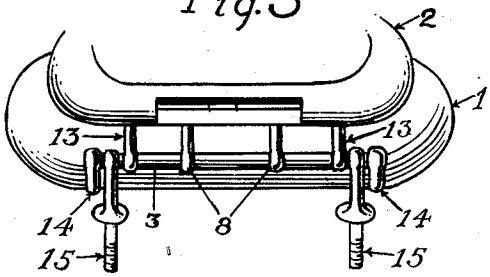


Fig. 2

Fig. 3



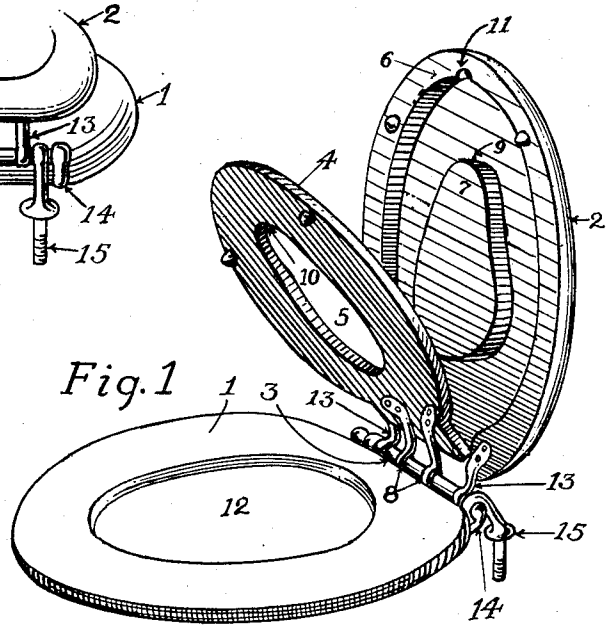


Fig. 1

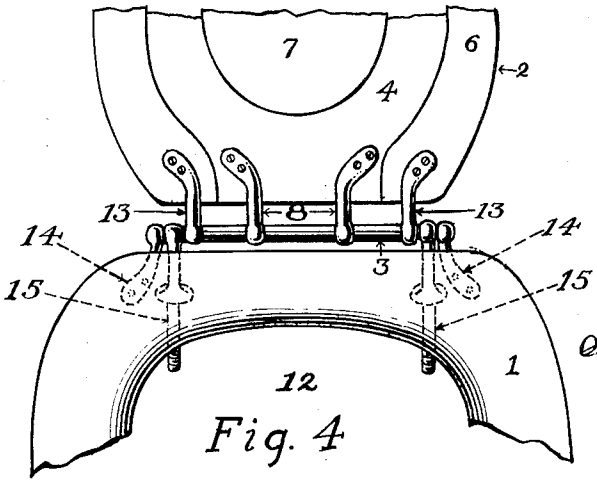


Fig. 4

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TOILET SEAT AND COVER

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Application May 8, 1934, Serial No. 724,488

2 Claims. (Cl. 4—234)

The object of my invention is to provide an additional toilet seat with a smaller opening or hole, which can be readily applied to toilet seats of ordinary construction. This is attached to and fits into, a toilet seat cover of special design which is part of my invention, and can be pulled out to admit of easy adjustment for use of children and small persons. When not in use, it can be replaced in the cover, of which it is a part, thus allowing full and unrestricted use of the ordinary seat with its usual sized opening and of the cover.

One form of the invention is illustrated in the accompanying drawing; Figure 1 is a view of my invention; a small toilet seat with a small opening or hole of a size suitable for children and small persons partially lowered from its position in the cover of special design, which is also part of my invention. Figure 2 is a top or plane view of a toilet seat and its cover which is provided with my invention.

Figure 3 is the same view, showing the smaller seat with its smaller opening partially lowered from its position in the cover of my invention.

Figure 4 is a view showing the smaller seat resting upon the larger seat and in position for use by children and small persons.

In the drawing, 1 denotes the dotted lines of the toilet seat and 2 the dotted lines of the cover, of common construction. 3 denotes the ordinary bar and 13 the usual hinge which serves to raise or lower the ordinary cover.

4 denotes the small seat of my invention, which is shaped similarly to that of larger size 1 and which is designed to rest upon 1 when 4 is lowered for use; and 5 the opening or hole in the small seat 4, which is cut out to a smaller size than the ordinary seat, in order that children and small persons may sit upon it with comfort and without danger of falling through the opening.

6 denotes the outer frame which is fastened to the cover of my invention and serves to enclose the small seat 4 when 4 is not in use.

7 denotes the inner frame which fits into the opening of small seat 4 when 4 is in place in the cover, thus making a smooth back rest to lean back upon.

8 denotes the hinge which is fastened to the small seat and is hinged to ordinary bar 3 which also supports the usual hinge 13 which operates the ordinary cover 2.

9 denotes a spring button which is inserted in the upper edge of the center frame 7 and which exerts sufficient pressure against small seat 4 to hold it in place in the frame when not in use.

10 denotes a small lock seat on inner edge of small seat 4 into which enters the spring button on frame 7 to hold 4 in place in frame.

11 denotes a small cut-out in frame 6 to enable fingers to be inserted in order to pull small seat 4 from frame.

12 denotes the usual sized opening in ordinary toilet seat 1.

13 denotes the usual hinge which is attached to bar 3 and allows operation of raising and lowering the entire cover.

From the foregoing, it will be seen that my invention applied to an ordinary toilet seat, will give an additional small seat for use of children and small persons, thus doing away with discomfort and possible danger incident to the use of a seat with too large an opening and which, when not in use, fits into the framework which is superimposed upon the cover and making a smooth back rest when the usual larger seat is being used.

My invention in no way restricts the use of the usual seat and cover.

My invention may be constructed by shaping wood or other suitable material to the approximate size, shape and thickness of the ordinary cover 2. A small section 7 may be cut out at the center to make the opening 5 for the small seat 4.

This section 7 is then fastened to the inner or lower side of a usual cover 2 in such a position that it will occupy the hole or opening 5 and make a frame for the small seat 4 when 4 is in place against the usual cover 2.

The small seat 4 may then be cut out and shaped from the material, leaving a section 6 from its circumference which is fastened to the usual cover 2 near and to its outer edge in such a manner that it forms a frame for the small seat 4 when 4 is in place against usual cover 2.

A small button spring 9 is inserted into a hole made for that purpose in the upper edge of inner frame 7 in such a manner that it fits into a lock seat 10 on the inner edge of small seat 4 and exerts sufficient pressure to hold 4 in place when it is in position in its position in its frame in cover.

A small cut-out 11 is made in the upper and inner edge of frame 6 where it meets small seat 4 to enable insertion of fingers in order to pull 4 from the frame that it may be lowered to its position of resting on large seat 1 for use. The hinges are of the ordinary type in common use and are adjusted on the bar 3 in the usual way. Two hinges 13 are in the usual places; one near to each end of bar 3. These are fastened to frame 6 which, being fastened to the main or usual cover 2 operates as a whole and allows the operation

of the entire cover in the usual manner when the small seat 4 is in its frame and fastened therein by the spring button 9.

Two additional hinges 8 are placed close to the center of bar 3 and fastened to lower side of small seat 4 to allow 4 to be lowered independently to its position of resting upon large 1 when in use.

Thus my invention in no way detracts from the use of the usual seat and cover. The ordinary hinges joining the ordinary seat and cover, operate in the usual manner. The small seat and its frame form a smooth back rest.

My invention may also be constructed by making a cover of wood or other suitable material and of the usual size and shape but of greater thickness.

A small seat with an opening of a size suitable for children may be separately constructed in the usual manner of making toilet seats. The wood or other material may then be routed out from the inner side of the cover, to make space of a size, shape and depth to allow the small seat to fit into this space in cover. The cover 2 is of sufficient thickness to allow the routing without cutting through its upper or outer surface.

The center of the inner side of the cover is left in place and is so shaped as to fit into the hole or opening in the small seat 4, thus forming an inner framework when the small seat 4 is in place in cover 2. The material near the outer edge of large cover 2 is also left in place and forms an outer frame for small seat 4, except the lower edge, which is cut out to allow space for small seat 4.

I claim:

1. A toilet seat structure comprising, in combination, a hinge bar, means for mounting the same on a hopper at the rear thereof, a main seat hinged to said bar for swinging movement between raised and lowered positions, an auxiliary smaller seat, brackets hinging said auxiliary seat to said bar for swinging movement of said auxiliary seat between raised and lowered positions independently of said main seat, said auxiliary seat when lowered resting upon said main seat, said brackets being offset with respect to said auxiliary seat so that when said auxiliary seat is raised to or beyond a vertical position it is spaced rearwardly of a vertical plane including said hinge bar, a cover recessed to accommodate said auxiliary seat, and brackets hinging said cover to said hinge bar for swinging movement of said cover between raised and lowered positions independently of said main and auxiliary seats, said last mentioned brackets being offset with respect to said cover so that when said cover is raised to or beyond a vertical position it also is spaced rearwardly of a vertical plane including the hinge bar, the relationship of the cover hinge brackets and the auxiliary seat brackets to each other being such that the auxiliary seat is nested within the recess of the cover when both the cover and the auxiliary seat are in raised and lowered positions.

2. A toilet seat structure comprising, in combination, a hinge bar, posts depending from said bar for mounting the same on a hopper at the rear thereof, a main seat hinged to said bar for swinging movement between raised and lowered positions, an auxiliary smaller seat having a projection at its rear, brackets on said projection mounting said auxiliary seat on said bar for swinging movement between raised and lowered positions independently of said main seat, said auxiliary seat when lowered resting upon said main seat, said brackets being downwardly offset with respect to said auxiliary seat when the latter is lowered so that when said auxiliary seat is raised to or beyond a vertical position it is spaced rearwardly of a vertical plane including said hinge bar, a cover recessed to accommodate said auxiliary seat, said cover having a notch extending from the recess thereof through its rear edge to accommodate the rearward projection of the auxiliary seat, brackets on said cover one to either side of said notch hinging said cover to said bar for swinging movement between raised and lowered positions independently of said main and auxiliary seats, said last mentioned brackets being downwardly offset with respect to the cover when the latter is lowered so that when the cover is raised to or beyond a vertical position it also is spaced rearwardly of a vertical plane including the hinge bar, the offset relationship of said auxiliary seat brackets and said cover brackets to each other being such that the auxiliary seat and its projection are nested within the recess and the notch, respectively, of the cover when both the cover and the auxiliary seat are in raised and lowered positions.

HERBERT CUMMING MACDONALD.