Dec. 3, 1940. F. J. MOORE 2,223,526

TOILET SEAT

Filed Jan. 12, 1939

Fig. 1

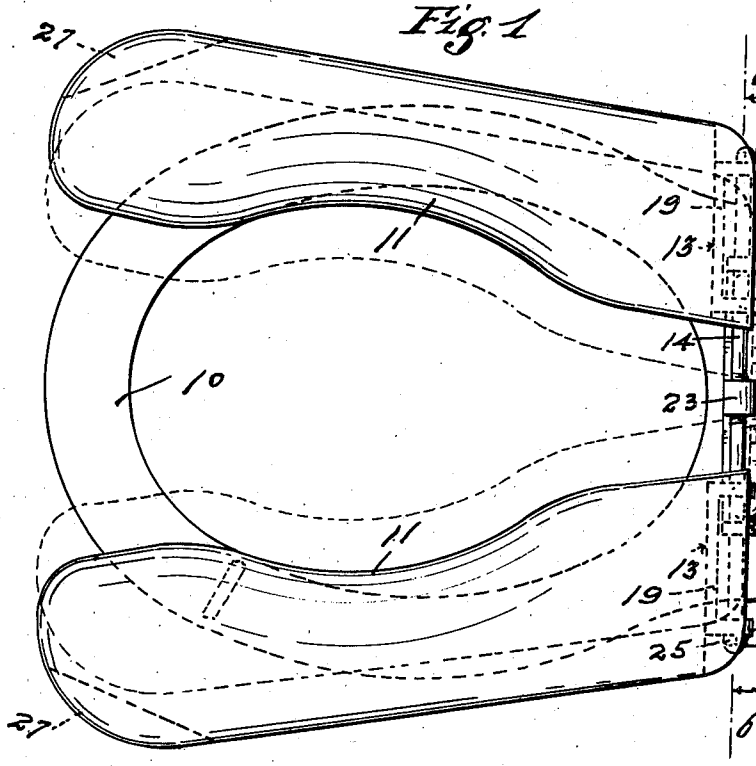


Fig. 8



Fig. 9

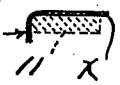


Fig. 7

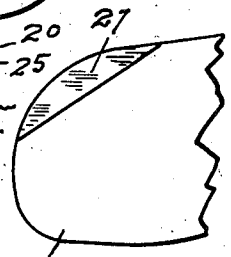


Fig. 2

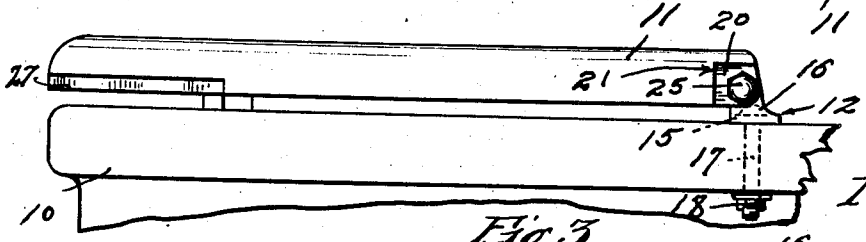


Fig. 3

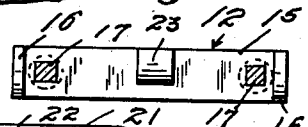


Fig. 4

Fig. 6

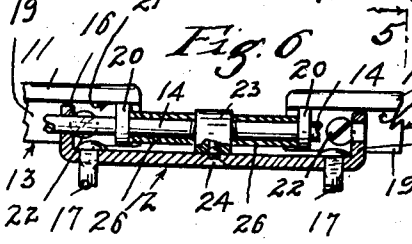
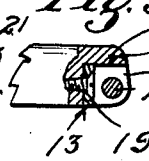


Fig. 5



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2,223,526

TOILET SEAT

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8 Claims. (Cl. 4—237)

My present invention has for its object to provide an extremely simple and highly efficient toilet seat of the divided type in which the sections of the seat may be independently raised or lowered and independently moved toward or from each other to adjust the seat for an adult or a child.

The improved toilet seat while intended for general use is especially well adapted for use by the general public in office buildings, hotels, schools, shops, gasoline service stations and the like.

The invention provides toilet seat sections that are rugged and each thereof is made of a relatively narrow piece of material, the longitudinal edges of which are substantially parallel, and when made from wood, the splitting thereof by hard usage will be reduced to a minimum. These narrow seat sections, at their rear end portions, are spaced apart and said sections are also in forwardly diverging relation, thus forming an extremely wide gap between the seat sections at their front end portion and thus contributing to the keeping of the seat in a sanitary condition without the constant care of an attendant.

The invention further provides narrow seat sections in forwardly diverging relation that extend materially outwardly of the toilet bowl to afford leg supports.

This invention still further provides simple and highly efficient mountings for the seat sections which permit quick and easy detachment of said sections from the toilet bowl for the purpose of making repairs or the refinishing of the seat sections.

The mountings for the seat sections further include means for positively holding the seat sections against movements toward or from each other and when adjusted for an adult.

Other objects of the invention will be apparent from the following description, reference being had to the accompanying drawing.

To the above end, generally stated, the invention consists of the novel construction and arrangement of parts hereinafter described and defined in the claims.

In the accompanying drawing, which illustrates the invention, like characters indicate like parts throughout the several views.

Referring to the drawing:

Fig. 1 is a plan view of the improved toilet seat mounted on a toilet bowl, fragmentarily illustrated, some parts being shown in different positions by means of broken lines;

Fig. 2 is a side elevation of the parts shown in Fig. 1;

Fig. 3 is a rear end elevation of the improved toilet seat, some parts being broken away and sectioned;

Fig. 4 is a plan view of the fixed hinge bracket, with the anchoring bolts sectioned on the line 6—6 of Fig. 3 and also showing the heads of said bolts by means of broken lines;

Figs. 5, 6 are fragmentary detail views, with some parts sectioned on the lines 4—4 and 5—5 of Figs. 3 and 1, respectively;

Fig. 7 is a fragmentary bottom plan view of the front end portion of one of the seat sections;

Fig. 8 is a plan view of one of the seat sections on a reduced scale and diagrammatically illustrated by means of broken lines, and also shown, is a sanitary strip of paper laid thereon; and

Fig. 9 is a detail view in section taken on the line 9—9 of Fig. 8.

The improved toilet seat is shown mounted on a toilet bowl indicated as an entirety by the numeral 10 and said seat comprises two seat sections 11. Each seat section 11 is formed of a single piece of wood that is relatively narrow and the longitudinal edges of which are, as shown, parallel.

By forming each seat section 11 from a relatively narrow piece of wood, it is possible to have the grain of the wood run longitudinally thereof. Also in shaping a seat section from a relatively narrow piece of wood there are no extended portions that would be liable to split from the main body of the seat section by rough usage.

The seat sections 11 are attached to the toilet bowl 10 by a fixed hinge bracket 12 for both the seat sections 11 and a movable hinge bracket 13 and a hinge rod 14 for each of said seat sections.

As shown, the hinge bracket 12 comprises a flat base bar 15 having on each end an upstanding hinge lug 16, and which bar 15 rests directly on the top of the bowl 10 at the rear thereof. The hinge bracket 12 is detachably secured to the bowl 10 by a pair of bolts 17 that extend through holes in the rim portion of said bowl. On the lower ends of the bolts 17 are rubber washers and nuts 18 that anchor the bolts 17 to the bowl 10 and hold the hinge bracket 12 securely clamped onto said bowl. The heads of the bolts 17 impinge against the upper face of the base bar 15 and their squared upper end portions, fit in correspondingly formed holes in said bars.

Each hinge bracket 13 comprises a bar 19 having a pair of laterally spaced hinge lugs 20. Said hinge bracket 13 is mounted in an under-cut recess 21 in the rear end portion of the respective seat section 11. The bars 19 are set vertically

edgewise in the recesses 21 against the vertical faces thereof and are secured by pairs of wood screws 22 to the seat sections 11. Each pair of hinge lugs 20 extend rearwardly from the respective bar 19 with one of the hinge lugs 16 therebetween.

A post 23 is detachably secured to the base bar 15, at its longitudinal center, by a screw 24. Each hinge rod 14 is in the form of a long bolt having a hexagon head 25 on its outer end and a screw-threaded outer end portion.

The hinge lugs 20 of each pair are connected to the respective hinge lug 16, that extends therebetween, by one of the hinge rods 14 which extends inwardly through aligned holes in said hinge lugs and has screw threaded attachment at its inner end with the post 23.

Obviously, the seat sections 11 are free for independent raising or lowering movements on the hinge rods 14 and are also free for independent sliding movement toward or from each other on said hinge rods.

The outermost hinge lugs 20 engage the heads 25 on the hinge rods 14 as stops, to limit the separating movement of the seat sections 11, as shown by full lines in Figs. 1 and 2.

The engagement of the innermost hinge lugs 20 with the post 23 limits the movements of the seat sections 11 toward each other and positions the same as shown by broken lines in Fig. 1.

In case it is desirable to positively hold the seat section 11 separated as shown, by full lines in Fig. 1, sleeves 26 are removably telescoped onto the hinge rods 14 between the innermost hinge lugs 20 and the post 23, see Fig. 6.

The outer corner portion of each seat section 11, at its free end portion, is recessed on its under face to afford a finger-hold 27 for use when lifting the respective seat section 11. As the finger-holds 27 are entirely outwardly of the bowl 10 any water splashed on the under surfaces of the seat sections 11 will drip therefrom and not come in contact with the raised surfaces of said finger-holds, see Fig. 7. Hence these finger holds always present a clean surface by which the respective seat section may be raised.

The post 23, acting as a stop, prevents the seat sections 11 from coming into contact with each other and always keeps the same spaced apart for sanitary reasons. Said seat sections 11 are held by the hinge brackets 12 and 13 and the hinge rods 14 in forwardly diverging relation so that there is always a wide gap between the free end portions thereof.

It is important to note that the seat sections 11, at their free end portions, extend materially forwardly of the bowl thereby affording leg supports.

To remove one of the seat sections 11 from the bowl 10 it is only necessary to unscrew the respective hinge rod 14 from the post 23 and withdraw the same from the respective hinge lugs 16 and 20. By making the bolts 17 separable from the hinge bracket 13 it is possible to die cast said bracket instead of casting the same as is now necessary when the bolts are integral with the hinge bracket.

The narrow seat sections 11 lend themselves to the covering thereof with sanitary strips of paper X, see Figs. 8 and 9. Preferably but not necessarily the outer edge portions of the paper strips X are folded as shown in Fig. 9, to afford a retaining flange Y.

The drawing illustrates a commercial form of the invention, but it will be understood that the same is capable of certain modifications as to details of construction, arrangement and combination of parts within the scope of the invention herein disclosed.

What I claim is:

1. A divided toilet seat, hinge means connecting the seat sections to a toilet bowl for independent raising or lowering movements and for independent movements toward or from each other, said hinge means comprising a fixed hinge bracket having means for anchoring the same to said bowl, a post mounted centrally on the hinge bracket, a pair of hinge rods secured at one of their ends to the post and projecting therefrom in opposite directions, supporting means on the hinge bracket engaging the hinge rods intermediate their lengths and a movable hinge bracket on each seat section and mounted on one of the hinge rods for pivotal movement and also axial sliding movement.

2. The structure defined in claim 1 in which the hinge rods are each removably secured to the post.

3. The structure defined in claim 1 in which the post affords a stop to limit the axial sliding movements of the movable hinge brackets on the hinge rod toward each other, said hinge rods having on their outer ends means for limiting the axial sliding movement of the movable hinge brackets away from each other.

4. The structure defined in claim 1 which further includes a pair of sleeves removably telescoped onto the hinge rods between the post and the movable hinge brackets for holding the movable hinge brackets against axial sliding movement.

5. A divided toilet seat, hinge means connecting the seat sections to a toilet bowl for independent raising or lowering movements and for independent movements toward or from each other, said hinge means comprising a fixed hinge bracket including a bar having at each end an upstanding bearing lug, nut-equipped bolts extending through apertures in said bar for anchoring the fixed hinge bracket to said bowl, a post on said bar, a pair of hinge rods having screw-threaded engagement at one of their ends with the post and projecting therefrom in opposite directions, each of the hinge rods being mounted at its intermediate portion in one of the bearing lugs, and a movable hinge bracket on each seat section having a pair of laterally spaced hinge lugs mounted on one of the hinge rods for pivotal and axial sliding movements and with the respective bearing lug extending therebetween said hinge lugs being widely spaced than the axial length of the bearing lugs.

6. A divided toilet seat comprising seat sections mounted for independent turning movements and independent axial sliding movements, a transverse recess in the undersurface of each seat section at the rear end thereof, a pair of spaced metal wing members mounted within each recess, said wing members having aligned bores, a hinge rod engaging said bores whereby the seat sections may be freely adjusted pivotally and axially of the hinge rod, anchoring supporting lugs received in said recesses and engaging the hinge rod intermediate each pair of spaced wing members, said lugs being of less axial length than the distance between the wing members, whereby the lugs by coaction with the wing members provide stop means for axial sliding movements of the seat sections.

7. A divided toilet seat comprising seat sections mounted for independent turning movements and independent axial sliding movements, a transverse recess in the undersurface of each seat section at the rear end thereof, a metal base member carrying spaced wing members mounted within each recess, said wing members having aligned bores, a hinge rod engaging said bores whereby the seat sections may be freely adjusted pivotally and axially of the hinge rod, anchoring supporting lugs received in said recesses and engaging the hinge rod intermediate each pair of spaced wing members, said lugs being of less axial length than the distance between the wing members, whereby the lugs by coaction with the wing members provide stop means for axial sliding movements of the seat sections.

8. A divided toilet seat comprising seat sections mounted for independent turning movements and independent axial sliding movements, a metal base member mounted on each seat section and carrying a pair of spaced journal members, said journal members having aligned bores, a hinge rod engaging said bores whereby the seat sections may be freely adjusted pivotally and axially of the hinge rod, anchoring supporting lugs engaging the hinge rod intermediate each pair of spaced journal members, said lugs being of less axial length than the distance between the journal members, whereby the lugs by coaction with the journal members provide stop means for axial sliding movements of the seat sections.

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