

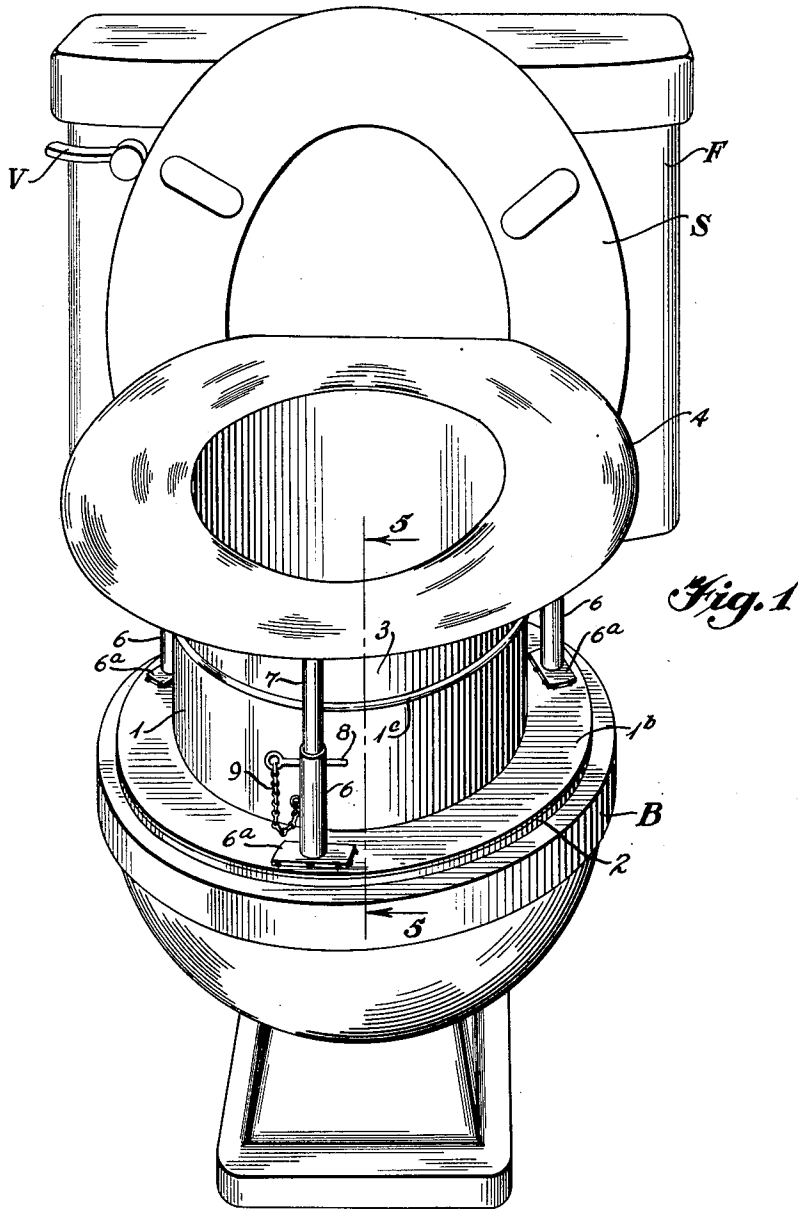
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EXTENSION TOILET SEAT

2,790,182

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2 Sheets-Sheet 1



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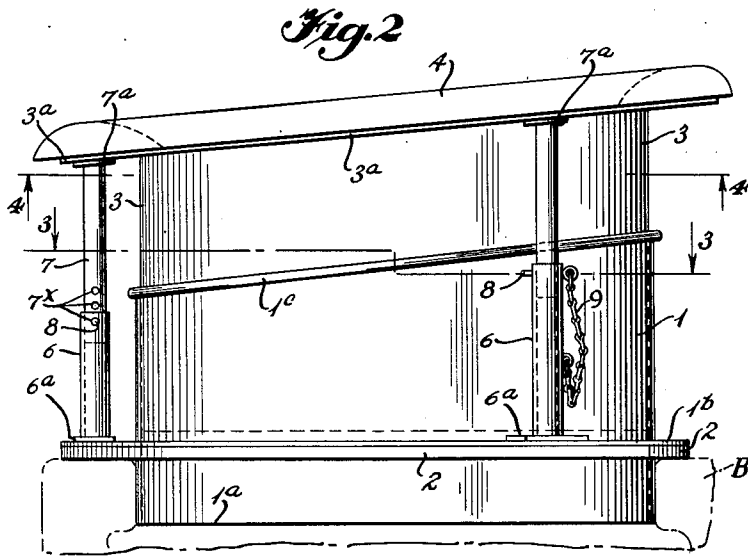


Fig. 5

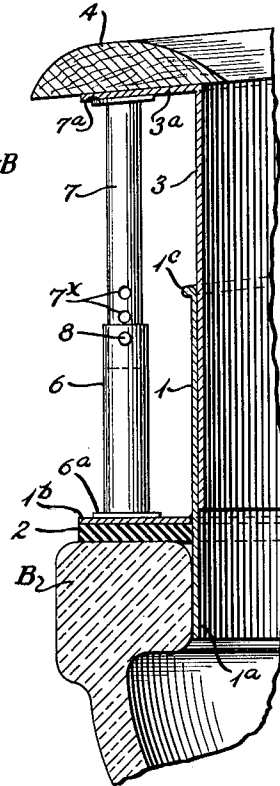


Fig. 3

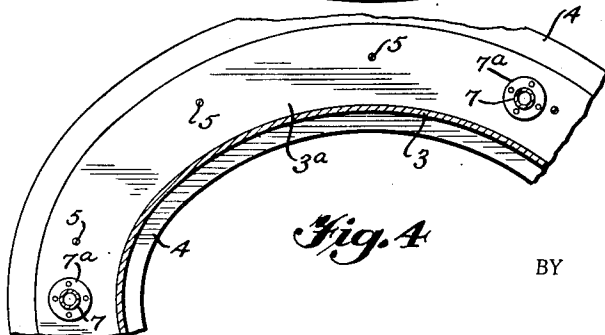
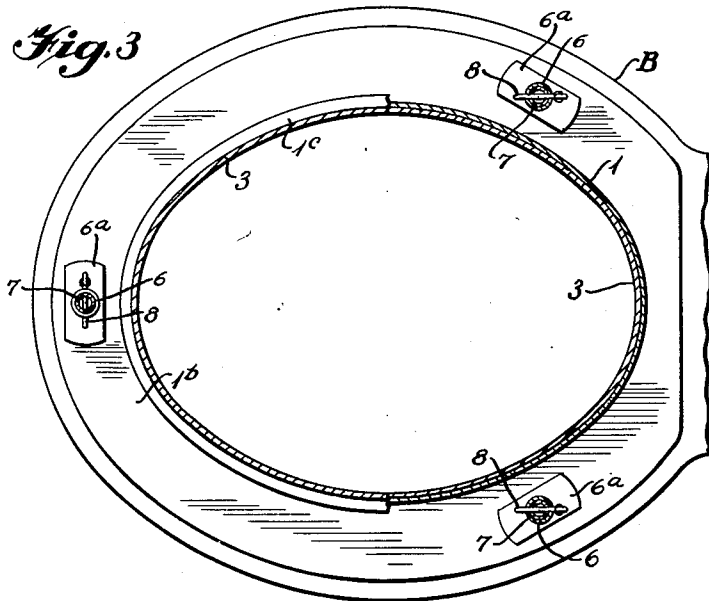


Fig. 4

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EXTENSION TOILET SEAT

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3 Claims. (Cl. 4-237)

This invention is a novel toilet seat extension for invalids, and the principal object of the invention is to provide an extension seat which may be used in connection with and mounted upon the ordinary toilet bowl, same being of stainless steel and carrying a supplementary seat which preferably slopes forwardly and downwardly, and which is adjustable vertically to suit the particular invalid who, through injury to his back cannot bend his back through an angle as great as say, 90 degrees.

Other minor objects of the invention will be hereafter set forth.

I will explain the invention with reference to the accompanying drawings which illustrate one practical embodiment thereof, to enable others familiar with the art to adopt and use the same; and will summarize in the claims, the novel features of construction, and novel combinations of parts, for which protection is desired.

In said drawings:

Figure 1 is a front perspective view of an ordinary toilet having my novel extension seat attachment applied to the bowl thereof, the same being separate from the ordinary hinged toilet seat.

Fig. 2 is a side elevational view of the extension seat attachment, showing in dotted lines same seated upon the rim of a conventional toilet bowl.

Fig. 3 is a horizontal section on the line 3-3, Fig. 2.

Fig. 4 is a horizontal section on the line 4-4, Fig. 2; and

Fig. 5 is an enlarged vertical section on the line 5-5, Fig. 1.

In said drawings, Fig. 1 shows an ordinary toilet including a bowl B of customary design and form, the same being adapted to be mounted upon the floor and having the customary hinged seat S, and the customary flush tank F, operated by valve V, the same forming no part of my present invention.

My novel extension seat, as shown, comprises a lower casing 1, of shape conforming with the general contour or shape of the upper rim of bowl B and having its lower end 1a adapted to extend downwardly within the open top of bowl B, as clearly shown in Figs. 2 and 5, the said lower casing 1 having a peripheral flange 1b, Figs. 1, 2, 3 and 5, adapted to overlie and rest upon the rim of bowl B, a suitable gasket 2 of rubber of similar yieldable material being disposed on the lower face of flange 1b so as to form a cushion or seal between the flange 1b and the rim of bowl B, said gasket 2 being secured in any desired manner to the flange 1b. The shape of lower casing 1 may vary according to the particular shape of the rim of bowl B to which the same is to be applied. The upper end of lower casing 1 is preferably formed with a rounded bead 1c, as shown in Figs. 1, 2, 3 and 5 which extends outwardly of casing 1 and, as shown, preferably slopes slightly upwardly from the front end of bowl B to the rear end thereof.

Slidably fitting within the lower casing member 1 is an upper casing member 3, which is preferably of the same shape as the lower casing member 1 but of slightly

2

smaller diameter, said upper casing 3 having a peripheral flange 3a at its upper end, as shown in Figs. 2, 4 and 5 which slopes slightly upwardly and rearwardly from the front end of bowl B to the rear end thereof, and upon flange 3a is a supplementary toilet seat 4 which is of the general size and shape of the regular seat S of the toilet, the particular size and shape of supplementary seat 4 forming no part of my present invention. Seat 4 is secured to flange 3a as shown in Fig. 4, by screws 5 or the like extending through the flange 3a and into the bottom of seat 4. By the above construction the supplementary seat 4 is given a slight angularity with respect to the horizontal, the same sloping slightly upwardly and rearwardly from the front end of the seat to the rear end thereof, as shown in Fig. 2.

Means are provided for adjusting the vertical height of supplementary seat 4 and the height of the upper casing member 3 upon the lower casing member 1. As shown in Figs. 2, 3 and 5, the adjusting means consists of hollow columns 6 having flanges 6a at their lower ends which are secured by screws, welding or the like to the top of the flange 1b, one such column 6 being disposed at the front end of bowl B, and two such columns 6 being disposed adjacent the rear end of the bowl at opposite sides of the casing 1, the same being preferably equidistant front the front column 6. The columns 6 are shown as being hollow and as receiving rods 7 or the like which carry on their upper ends brackets 7a secured by screws or the like to the under side of the flange 3a on the upper end of upper casing 3, said rods 7 or the like being in axial alignment with the columns 6, and the lower ends of the rods 7 entering and slidably engaging the bores of the columns 6. In the lower ends of each of the rods 7 are a series of diametrically extending holes 7x, Figs. 2 and 5, adapted to be engaged by pins 8, Figs. 1, 2 and 3, which pass through aligned holes 7x in the lower ends of the rods 7 and through holes in the upper ends of the columns 6, the pins 8 being preferably secured to the columns 6 by means of chains 9 or the like, so as to prevent the same from becoming lost. By the above construction, obviously the extension seat 4 may be adjusted to the desired elevations by engagement of the pins 8 with the corresponding holes in the rods 7 and columns 6. Any number of holes 7x may be provided in the rods 7.

My extension seat is adapted for use by invalids who, through back injuries or the like, cannot bend their backs through angles approaching 90°, but are permitted only a limited slight angular bending of the spinal column. The extension seat 4 extends considerably above the elevation of the normal toilet seat S when in use with respect to the floor, and therefore is obviously particularly adapted for use by invalids or persons having back injuries of the type referred to.

Obviously the extension seat 4 may be readily applied to or removed from any ordinary toilet bowl when the customary seat S is in raised position, as shown in Fig. 1. The casing members 1 and 3 of the extension seat are preferably made of stainless steel and are designed to hold weights from 100 to 300 pounds, and to carry the extension toilet seat 4 attached to the top of the upper casing member 3. The engagement of the lower end 1a of the lower casing member 1 within the rim of the bowl B prevents the toilet seat from being shifted laterally off of the bowl, and the flange 1b holds the extension seat 4 against vertical displacement. Obviously, the height of the combined casings 1 and 3 may be adjusted to suit the particular individual for whom said extension is intended to be used.

I do not limit my invention to the exact form shown in the drawings, for obviously changes may be made therein within the scope of the claims.

I claim:

1. In combination with a toilet having a bowl having an open top surrounded by a rim; an extension seat comprising a lower casing member open at its top and bottom the lower end of the casing fitting downwardly within the said rim, a flange on said casing overlying and seating upon the rim; an upper casing member open at its top and bottom slidably fitting the lower casing member; a second flange at the top of the upper casing; a supplementary toilet seat secured upon the top of said second flange; a series of spaced vertically disposed hollow columns secured to the first flange exteriorly of the lower casing and having holes extending horizontally there-through adjacent their upper ends; a series of spaced vertically disposed rods secured to the second flange exteriorly of the upper casing and telescoping the columns and having vertical series of bores respectively therein adjacent their lower ends adapted to register with the holes in said columns; and a series of removable pins transfixing said registering holes and bores.

2. An extension toilet seat for toilet bowls having an open top surrounded by a rim; comprising a lower casing member open at its top and bottom and conforming in general shape with the rim, the lower end of the casing being adapted to fit downwardly within the said rim; a flange on said casing overlying and seating upon the rim; an upper casing member open at its top and bottom slidably fitting within the open top of the lower casing member; a second flange at the top of the upper casing sloping upwardly and rearwardly from the front of said bowl to the rear thereof; a supplementary toilet seat secured upon the top of said second flange; and means for verti-

cally adjusting the upper casing member on the lower casing member.

3. An extension toilet seat for toilet bowls having an open top surrounded by a rim, comprising a lower casing member open at its top and bottom and conforming in general shape with the rim, the lower end of the casing being adapted to fit downwardly within the said rim; a peripheral flange around said casing adapted to overlie and seat upon the rim; a gasket of yieldable material on the underside of said flange; an upper casing member open at its top and bottom slidably fitting within the open top of the lower casing member; a second peripheral flange at the top of the upper casing sloping upwardly and rearwardly from the front of said casing to the rear thereof; a supplementary toilet seat secured upon the top of said second flange; and means for vertically adjusting the upper casing on the lower casing.

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