Feb. 5, 1929. 1,701,115

W. H. McKINNEY, JR

TOILET APPLIANCE

Filed March 11, 1927

FIG. 1.

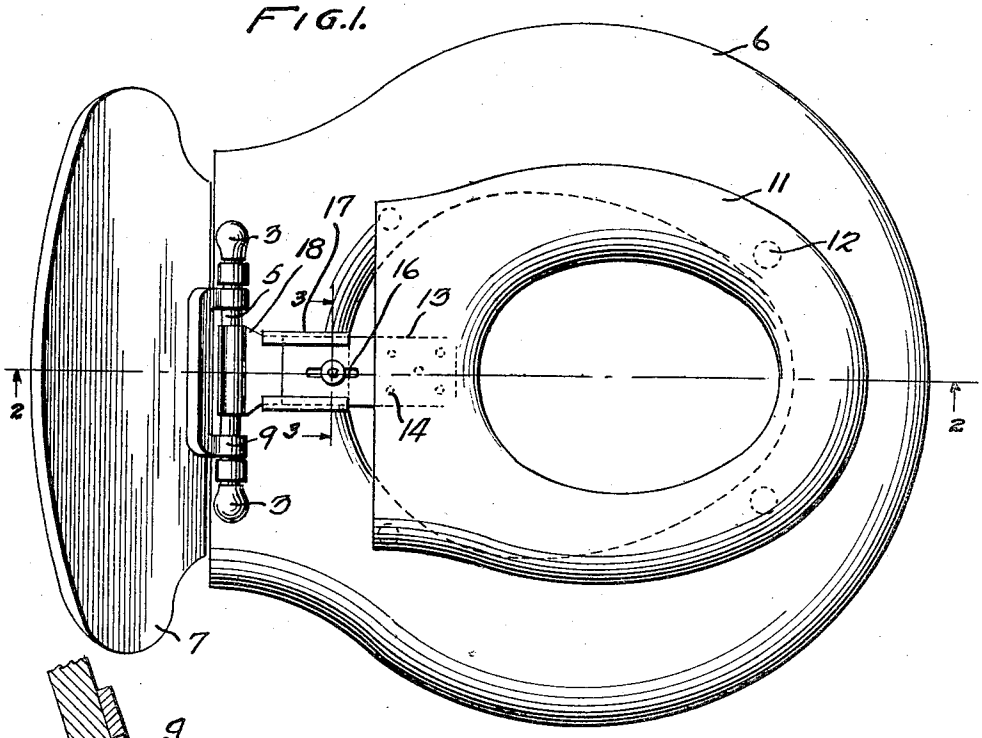


FIG. 2.

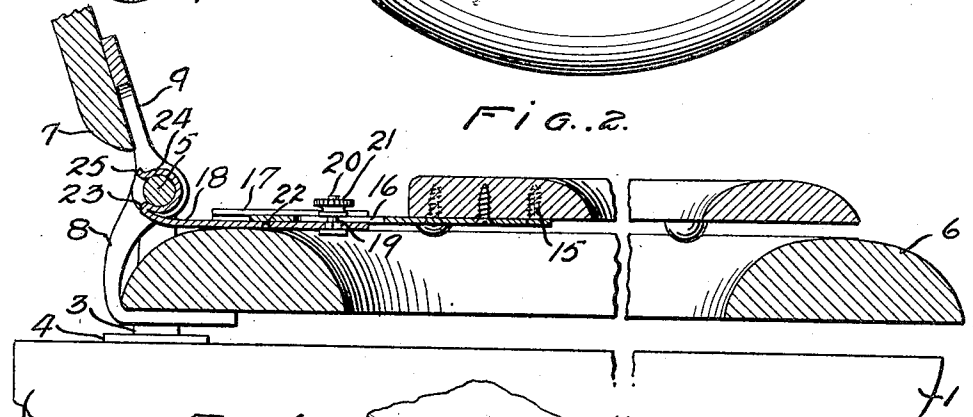


FIG 4.

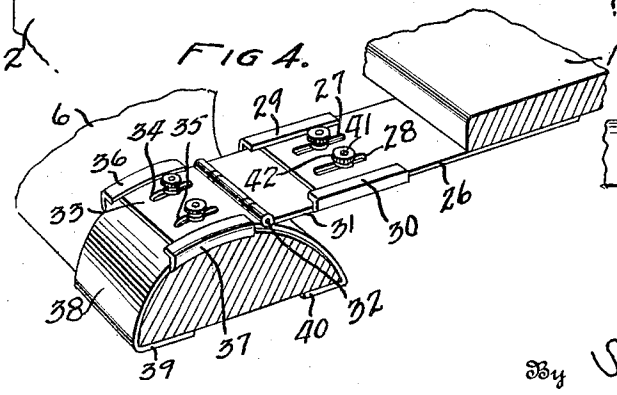
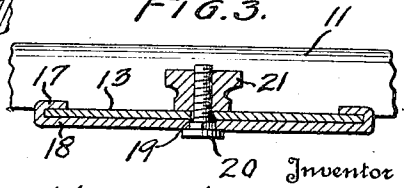


FIG. 3.



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TOILET APPLIANCE.

Application filed March 11, 1927. Serial No. 174,574.

This invention relates in general to toilet appliances and more particularly has reference to a supplementary seat attachment.

Previous to this time the seats of this character generally employed where space requirements preclude the installation of separate depositories for children, have had embodied in their structure certain fundamental disadvantages that this invention seeks to overcome.

The primary objection to such devices in the past has been the necessity of altering the closet structure to accommodate the attachment, rendering the bowl inconvenient when the supplementary seat is no longer required or when installed in transient institutions where the need is of short duration, and is not only an unnecessary but an undesirable permanent fixture.

The attachments of this type susceptible of detachment have generally been insecurely fixed to the toilet causing a marring of the finish on the seat that is both unsightly and unsafe. It has heretofore been impossible to effectively secure such a seat to the same pivot upon which the main seat rotates, as when both the seats rotated around the same axis, the supplementary seat could not be positioned independently in a vertical plane.

There has also been lacking in previous devices any provision for extending or retracting the supplementary seat with respect to the main seat, or changing the point of rotation of the main seat to suit the particular requirements.

An object of this invention is to provide a supplementary toilet seat attachment which may be readily secured to any conventional toilet.

Another object of this invention is to provide a supplementary toilet seat which may be attached to any conventional toilet without altering the structure, and readily detached.

Still another object of this invention is to provide a supplementary toilet seat which may be readily extended or retracted to suit particular requirements.

A further object of this invention is to provide a supplementary toilet seat attachment which may be raised or lowered independently of the main seat.

A still further object of this invention is to provide a supplementary toilet seat attachment which will not mar the finish on a toilet.

With these and other objects in view which may be incident to my improvements, the invention consists in the parts and combinations to be hereinafter set forth and claimed, with the understanding that the several necessary elements comprising my invention, may be varied in construction, proportions and arrangement, without departing from the spirit and scope of the appended claims.

In order to make my invention more clearly understood, I have shown in the accompanying drawings means for carrying the same into practical effect, without limiting the improvements in their useful applications to the particular constructions, which for the purpose of explanation, have been made the subject of illustration.

In the drawings:

Figure 1 is a top plan view of the supplementary toilet seat attachment shown mounted on a conventional toilet;

Fig. 2 is an elevation sectional detail view showing the mounting and relative position of the main and supplementary seats;

Fig. 3 is a front sectional view of the clamp attachment taken on line 3—3 of Fig. 1.

Referring by numerals to the drawings wherein similar elements are designated by like symbols of reference throughout the several views and more particularly to Figure 2, there is shown a bowl 1 of any conventional type. The bowl 1 is provided with the usual rear extensions or shoulders 2. Passing through the extensions 2 and firmly secured thereto by any suitable means are supporting standards 3. Interposed between the supporting standards 3 and the shoulder 2 are rubber washers 4.

Each of the standards 3 is formed with an integral annularly disposed reduced stub shaft portion adapted to be inserted in a hollow pivot bolt 5. A conventional seat 6 and a lid 7 are mounted for rotatable movement about the longitudinal axis of the pivot 5. The seat 6 is rotatably secured to the pivot 5 by brackets 8 and the lid 7 is similarly secured by a channel shaped bracket 9. The arms of the bracket 9 are extended downwardly from the lid and are apertured at their lower ends forming collars to afford a rotatable connection to the pivot 5.

The bracket 8 fixed to the bottom of the seat 6 is provided with extending arms having apertures adapted to receive the pivot 5. In this manner the seat 6 and the lid 7 are piv-

otally mounted for rotatable movement about the longitudinal axis of the pivot 5. The foregoing description is that of a standard form of toilet seat now in general use.

There is shown attached to the conventional seat structure a supplementary seat 11 forming the subject matter of this invention, intended primarily for the use of small children. The supplementary seat 11 adapted to be attached to any conventional seat structure without the use of bolts, screws, or any permanent fastening means, comprises the seat 11 of any desired configuration but preferably of a particular thickness for purposes to be hereinafter more fully described. The seat is provided on the bottom with rubber pads 12 which rest on the main seat 6 and serve to prevent actual contact of the two. Secured to the rear portion of the supplementary seat is a flat plate 13 having apertures 14 adapted to receive screws 15. It is preferred to mortise the bottom of the seat 12 to receive the plate 13 and to countersink the screws 15 in the plate. When this form of construction is employed the bottom of the seat 11 is flush with the supporting plate and the assembled attachment may be positioned in greater proximity to the main seat 6.

The adjacent portion of the plate 13 is provided with a slot 16. The plate 13 is adapted to slide in channel guides 17 formed integral with the sides of a clamp 18. The clamp 18 is provided with an aperture 19 designed to receive a threaded bolt 20 adapted to engage a slot 16 in the plate 13. The bolt 20 is adapted to receive a nut 21 to secure the plate 13 in any desired position within the limits of the slot 16. The clamp 18 is also provided with an additional aperture 22 similar to the aperture 19 adapted to serve a like function, to allow greater adjustment of the plate 13. It is manifest that any number of apertures may be provided to increase the range of adjustment.

The clamp 18 is bent at 23 as shown in Figure 2, to form a semi-tubular portion 24 terminating in an upwardly extending flange 25. The tubular portion 24 is adapted to be held under its inherent resiliency to afford ready attachment to the pivot 5. The upturned flange 25 and the rounded surfaces at the bent point 23 afford unobstructed surfaces to facilitate attachment. To prevent any abrasion that might be caused by the contact of the clamp 18 with the surface of the seat 6 it may be provided with a rubber washer or any like guard, if so desired.

By the provision of the novel clamping attachment 18 the supplementary seat 11 as well as the lid 7 and the main seat 6 are adapted to rotate longitudinally about the axis of the pivot 5. It will be noted from the construction of the hinge formed by the tubular section 24 that if the supplementary seat is constructed of equal or less thickness than the diameter of the pivot 5, that even though the lid 7 is resting in a vertical position, that the supplementary seat may be raised to a like position, and the center of gravity will so fall that it will have no tendency to swing back.

The supplementary seat may be raised to inoperative position when the lid 7 is in any position to the left of a vertical plane, eliminating the disadvantages inhering in prior art devices of this general character, in which a supplementary seat was mounted on the same pivot which supported the main seat and lid. In such constructions it was necessary to move the lid some distance to the rear of the vertical plane in order that the supplementary seat might attain a position of rest, a feature of great disadvantage where the demands for economy of space in modern bathrooms requires that the toilet bowl be placed as near the wall and flush basin as possible.

The width of the tubular portion 24 affords a firm pivotal connection that will not allow lateral movement of the supplementary seat with respect to the main seat, and by reason of the fact that the clamp is tangent to the periphery of the pivot 5 and the seat of the same or less thickness as the diameter of the pivot, the lid 7 may be lowered to rest flatly on the supplementary seat without exerting any strain on the bracket 9 or the pivot 5.

The operation of this invention may be readily understood. The end of the plate 13 projecting from the rear of the supplementary seat 11 is fitted in the channel guides formed integral with the sides of the clamp 18 to any extent suitable for the particular requirements, and the position of the plate on the clamp is fixed by the nut 21 within the limitation allowed by the slot 16.

It is manifest that the clamp 18 may be made in a single piece and attached directly to the supplementary seat 11 dispensing with the extension and retraction adjustment afforded in combination with the plate 13, as this is a refinement and not a basic feature of the invention. The clamp 18 may be readily attached and firmly held on the pivot 5 by the spring tension of the tubular portion 24 and may be easily removed therefrom.

This structure allows adjustment of the axis upon which the supplementary seat rotates around the pivot 32 by changing the position of the plate 33 on the clamp 38, allowing the supplementary seat to be positioned to the left of the vertical when in non-operative position. It is also to be appreciated that the supplementary seat may be extended or retracted in the channel guides 30 in the same manner as the plate 13 may be adjusted in the clamp 18, although if so desired the adjustment mechanisms may be dispensed with and the plate 26 hinged directly to the plate 33 which may be fixed to the clamp 38, if so desired.

There is provided by this invention a sup-

plementary seat structure that may be readily and firmly attached to any standard toilet seat without altering the structure, that may be easily removed for cleansing. The seat may be raised or lowered independently of the main seat, and readily extended or retracted in position with respect to the main seat, to suit particular requirements.

While I have shown and described the preferred embodiment of my invention, I wish it to be understood that I do not confine myself to the precise details of construction herein set forth, by way of illustration, as it is apparent that many changes and variations may be made therein, by those skilled in the art, without departing from the spirit of the invention, or exceeding the scope of the appended claims.

I claim:

1. A toilet seating appliance comprising a pivoted main seat, resilient clamping means engaging the pivot on the main seat, and means carried by the clamp to mount a supplementary seat.

2. A toilet appliance comprising a pivoted main seat, resilient clamping means engaging the pivot on the main seat, and means carried by the clamp to rotatably mount a supplementary seat.

3. A toilet appliance comprising a pivoted main seat, a clamping means engaging the pivot on the main seat, means carried by the clamp to rotatably mount a supplementary seat, and means to extend or retract the supplementary seat.

4. A toilet appliance comprising a pivoted main seat, a clamp member engaging the pivot on the main seat, a tension portion carried by the clamp to rotatably mount a supplementary seat, and means on the clamp to extend or retract the supplementary seat.

5. A toilet appliance comprising a pivoted main seat, a tension clamp rotatably engaging the pivot on the main seat, means on the clamp to mount a supplementary seat, and means to extend or retract the supplementary seat.

6. A toilet appliance comprising a standard fixed to the bowl, a pivot carried by the standard, a main seat and cover rotatably mounted on the pivot, a detachable rotatable clamp support, a supplementary seat adapted to overlie the main seat attached to the pivot, and means to extend or retract the supplementary seat.

7. A toilet seating appliance comprising a pivoted main seat, a clamp having tension sleeve receiving portions attached to the pivot on the main seat, channel guides formed on the clamp to receive a slotted sliding member, and means to fix the slotted member in the channel guides on the clamp.

8. A toilet appliance comprising a pivot, a main seat rotatively mounted on the pivot, a supplementary seat adapted to overlie the main seat, and means extending tangentially from the periphery of the pivot to connect the supplementary seat therewith, whereby the central plane of the supplementary seat coincides with the center of the pivot.

9. A toilet seating appliance comprising a main seat, a supplementary seat and a lid rotating about the same pivot, a clamp member securing the supplementary seat tangent to the periphery of the pivot, the supplementary seat being of no greater thickness than the diameter of the pivot.

In testimony whereof I affix my signature.

WILLIAM H. McKINNEY, Jr.