TOILET SEAT STRUCTURE

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Drawings:
- FIG. 1
- FIG. 2
- FIG. 3
- FIG. 4
- FIG. 5
- FIG. 6

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The invention relates to a toilet seat structure, as described in the present specification and illustrated in the accompanying drawing that forms part of the same.

5 The invention consists essentially of the novel grouping of leaf barrels and post pivots and the formation of the parts in respect to one another, as pointed out in the claims for novelty following a description of the details and their assembly with a seat.

10 The objects of the invention are to effectually lock the seat to a post from either side, which will avoid the inconvenience so prevalent in the seats of water closets because such seats are opened and closed so frequently in comparison with other seats and lids, that rods let into posts are almost sure to be displaced, leaving the seat loose and oftener than not causing a fracture in one or the other part to the seat; to facilitate the installation of the particular type of seat mentioned as well as associating each hinge directly with the side of the seat to which it belongs, consequently relieving both posts of a double function so common in the present day; to economize in so far as mass production is concerned, and at the same time produce a hinge and post construction of pleasant appearance to the eye and susceptible to the conventional design construction which is so popular in the lavatory fittings; and generally to provide a distinctly modern construction of seat or lid hinge that will prove both durable and efficient in use and yet producible at a moderate cost.

15 In the drawing, Figure 1 is a perspective view of a water closet seat and lid joined by hinges containing this invention.

Figure 2 is a longitudinal sectional view through the seat, the lid and hinge leaves showing the post in elevation therefrom.

10 Figure 3 is a cross sectional view through the grouped barrels and pivots, and showing the posts in elevation.

Figure 4 is a perspective detail of the post.

45 Figure 5 is a perspective detail of the lid hinge leaf.

40 Figure 6 is a perspective detail of the seat hinge leaf.

50 Referring to the drawing, each of the hinges 10, which are substantially identical, so that only one of them need be here described in detail, comprises a hinge post 11 having the head portion 12 and the neck portion 13.

55 The neck portion 13 flares downwardly and outwardly to form a seat 14 adapted to rest on the upper face of the ledge 15 of the bowl 16.

The anchoring bolt 17 is of integral formation with the seat 14 and extends downwardly therefrom to engage in an opening in the ledge 15 to which it is rigidly held by the winged nut 18. The hinge post 11 is of hexagonal formation and is formed with flats 19 and forms a head for the anchoring bolt 17. This hexagonal formation is a very important feature of the invention as it permits the holding of the post 11 with a wrench or any other similar tool while tightening the winged nut 18.

The hinge pins 20 extend horizontally from the head portions 12 into the barrels 21 at the ends of the arms 22 offset from the hinge leaves 23, these leaves being secured to the seat 24 by the screws 25. The barrels 21 are blind holes continuing into thimbles 26 projecting outwardly from the arms 22 and forming bearings 27 for the barrels 28 from the hinge leaves 29, the latter being secured by the screws 30 to the lid 31.

In operation, the leaves 29 and 32 are respectively secured to the lid and seat, to form a unitary member, and it will be seen by referring to the drawing, that the lid and seat may be held together by the hinge parts during transportation of the article from place to place and this is done by fastening the parts temporarily to a piece of wood used in packing.

On account of the above and owing to the fact that the seat and lid are spaced from each other at one end by the arms 22 and at the other end by the rubber buffer 33, packing, shipping and installation of the seat and lid are greatly facilitated.

The seat and lid being spaced from one another and forming a unit, there is no necessity of packing them independently and this is a great saving in time and packing material. Furthermore than is no possibility of the upper side of the seat and of the lower side of the lid being damaged while shipping.

The unit construction permits a larger number of seats and lids to be shipped in the same crate space, and facilitates installation.

What I claim is:

1. In a toilet seat structure, a seat, hinge leaves secured thereto and having offset spacing arms terminating in thimbles forming barrels and bearings, a lid, hinge leaves secured to said lid and terminating in barrels registering with the bearings of the hinge leaves for said seat, and posts having anchoring bolts and hinge pins.
registering with the barrels of the hinge leaves for said seat to support said seat and lid.

2. In a toilet seat structure, a seat, a hinge leaf secured thereto and having an offset spacing arm terminating in a thimble forming a barrel and a bearing, a lid, a hinge leaf secured to said lid and terminating in a barrel registering with the bearing of the hinge leaf for said seat, and a post having an anchoring bolt and a 5 hinge pin registering with the barrel of the hinge leaf for said seat to support said seat and lid.

3. In a toilet seat structure, a seat, hinge leaves secured thereto and having offset spacing arms terminating in thimbles projecting inwardly towards each other and forming barrels and bearings, a lid, hinge leaves secured to said lid and terminating in barrels registering with the bearings of the hinge leaves for said seat, and posts spaced to the outside of said hinge leaves having anchoring bolts and hinge pins projecting inwardly and registering with the barrels of the hinge leaves for said seat to support said seat and lid.

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