July 13, 1937. H. NISHINAKA 2,087,112

TOILET SEAT HEATER

Filed Nov. 6, 1936

Fig. 1.

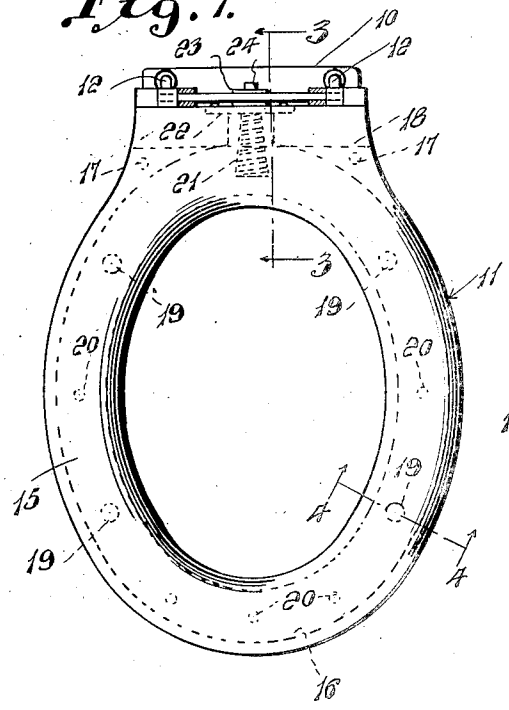


Fig. 2.

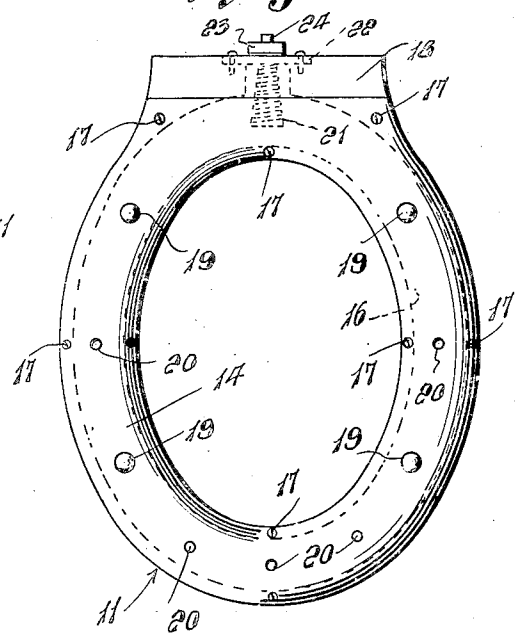


Fig. 3.

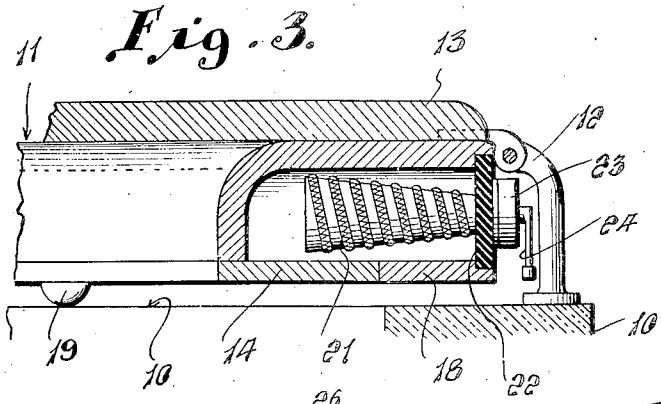


Fig. 4.

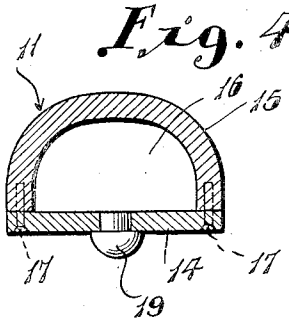
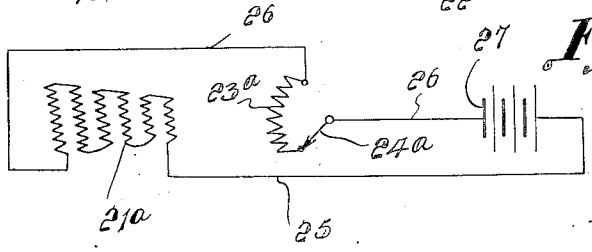


Fig. 5.



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2,087,112

TOILET SEAT HEATER

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Application November 6, 1936, Serial No. 109,580

1 Claim. (Cl. 219—19)

This invention relates to certain new and useful improvements in toilet seat heaters.

The primary object of this invention is to provide a toilet seat of channel construction with an electric heater located within the channel and having a switch device associated with the heater for varying the degree of temperature thereof so that warm air at the desired temperature may be circulated through the channel seat for the comforture of the users thereof.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing:—

Figure 1 is a top plan view of a toilet seat constructed in accordance with the present invention, the seat being of channel construction with an electric heater illustrated by dotted lines extending into one end thereof;

Figure 2 is a bottom plan view of the seat showing spaced openings in the lower side thereof to facilitate heated air circulation;

Figure 3 is a detail sectional view taken on line 3—3 of Figure 1, showing the hinged mounting for the toilet seat, the channel construction of the seat and the electric heater extending into the seat;

Figure 4 is a detail sectional view taken on line 4—4 of Figure 1; and

Figure 5 is a diagrammatic view of the electric heating element.

As shown in Figure 3 of the drawing, the reference character 10 designates the stand or bowl of a toilet having a seat 11 hinged thereto as at 12 with the usual hinged cover 13 for the seat.

The seat 11 is of the usual design or configuration, but is of hollow construction and as shown in Figure 4 embodies a flat strip bottom wall 14 and an upwardly arched top wall 15 defining a channel 16, the marginal edges of the arched top wall 15 seating on the bottom wall 14 and being secured thereto as at 17. The bottom wall 14 of the seat 11 is cut away adjacent the hinge mounting 12 to facilitate the placement in the chamber 16 of an electric heating element and said cut-away portion is closed by a separate plate 18 as shown in Figures 2 and 3. Cushion plugs 19 are carried by the bottom wall 14 of the seat to maintain the latter in spaced relation to the toilet bowl 10. As shown in Figure 2, spaced openings 20 are formed in the bottom wall 14 of the seat to facilitate the circulation of heated air.

An electric resistance element 21 is carried by the rear side wall of the seat 11 adjacent the hinged mounting 12 and extends into the chamber 16, the mounting for the resistance element 21 including an insulation block 22 set into the toilet seat as shown in Figure 3 with a rheostat 23 disposed at the outer side of the insulation block 22 and operated by a hand switch 24. A wiring diagram and source of electrical energy for the resistance element 21 is shown in Figure 5, the resistance element 21*a* having wire connections 25 and 26 with a source of electrical energy 27 with the rheostat 23*a* and switch 24*a* interposed in the line or conductor 26.

The rheostat controls the amount of electric current flowing through the resistance element 21 as shown in Figure 3 and the circulation of air through the chamber 16 of the seat 11 is facilitated by the openings 20 in the bottom wall 14 of the seat, the air flowing over the electric resistance element 21 to be heated thereby and for raising the temperature of the seat 11 to the desired degree.

From the above detailed description of the invention, it is believed that the construction and use thereof will at once be apparent and while there is herein shown and described the preferred embodiment of the invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

I claim:—

In a device of the character described, a toilet seat of channel construction and having a flat strip bottom wall and an upwardly arched top wall defining a chamber therebetween, there being openings in the bottom wall to facilitate the circulation of air through the chamber, an electric resistance element in one end of the chamber, a rheostat exteriorly of the seat and associated with the resistance element for controlling the flow of electrical energy through the resistance element, the mounting for the resistance element including an insulation plate supported in a wall of the seat and carrying the resistance element and rheostat.

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