Oct. 21, 1924. 1,512,174

B. J. ISAAC

TOILET SEAT CLEANER

Filed Sept. 29, 1923

Fig. 1.

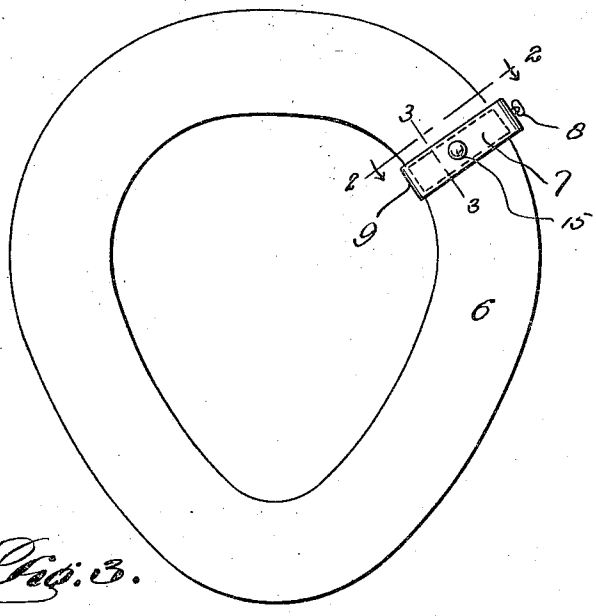
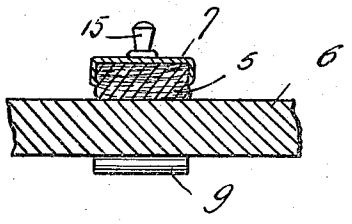


Fig. 2.

Fig. 3.



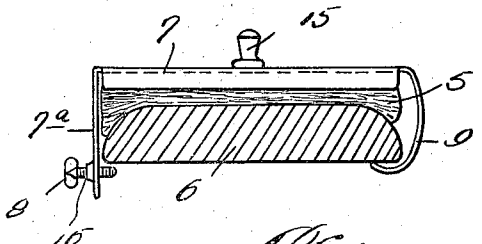
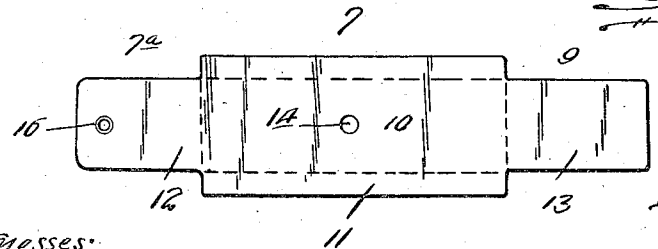


Fig. 4.



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UNITED STATES PATENT OFFICE.

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TOILET-SEAT CLEANER.

Application filed September 29, 1923. Serial No. 665,575.

To all whom it may concern:

Be it known that I, BESSIE J. ISAAC, citizen of the United States, residing at Jackson, in the county of Jackson and State of Michigan, have invented certain new and useful Improvements in Toilet-Seat Cleaners, of which the following is a specification.

This invention relates to certain new and useful improvements in toilet seat cleaners, and has particular reference to the provision of means for effectively removing moisture, dirt, etc., from the upper surfaces of toilet seats.

The primary object of the invention is to provide a cleaner of the above kind in the nature of an attachment for toilet seats, which embodies means whereby the same may be conveniently and expeditiously applied and removed, and by means of which a cleaning element is effectively guided for moving the cleaning element over the upper surface of the seat.

Another object is to provide a device of the above kind which embraces the desired qualities of simplicity and durability of construction as well as efficiency in operation, whereby the same may meet with all of the requirements for a successful commercial use.

With the above general objects in view, and others 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, wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a top plan view of a toilet seat, having a cleaning device constructed in accordance with the present invention applied thereto.

Figure 2 is an enlarged transverse sectional view, taken upon the line 2—2 of Figure 1.

Figure 3 is a sectional view, on a larger scale, as taken substantially upon the line 3—3 of Figure 1, and

Figure 4 is a plan view of the blank from which the holder for the wiping element and guiding element are formed.

Referring more in detail to the drawing, the preferred embodiment of the invention consists in the provision of a wiper embodying a wiping element 5, preferably in the form of a pad of suitable material, such as felt, and of a length to extend from edge to edge of the toilet seat 6 which is of ring like form, the ends of this wiping element being thickened to properly engage the rounded upper marginal portions of the sheet as shown in Figure 2, and a holder 7 for the wiping element 5 equipped with means as at 7, 8, and 9 for removably attaching the wiper to the seat, with the pad 5 disposed upon the upper surface of the seat, and for guiding the wiping device when the latter is moved across or over the upper surface of the seat in the cleaning operation.

The holder 7 for the wiping element 5 and the attaching and guiding elements 7, 8, and 9 are preferably composed of two parts, one of the same being shown in blank form in Figure 4, and embodying a single piece of sheet metal stamped in elongated form as shown, to provide a central portion 10 and side flanges 11, which cooperate to form the holder 7, and integral end tongues 12 and 13, respectively forming the elements 7ª and 9. The portion 10 of the blank is provided with a central opening as at 14 for facilitating the attachment of a handle 15 thereto, and the tongue 12 is provided with an opening adjacent its free end surrounded by a hollow screw threaded receiving boss 16 for threaded reception of a set screw constituting the element 8. By turning the flanges 11 at right angles to the intermediate portion 10, and clinching the free edges of the flanges into the sides of the wiper element 5, the latter is effectively held and a wiping device of simple and durable form is had. The tongue 12 is then bent at right angles to the portion 10 so as to extend vertically downwardly along the outer side of the seat 6, as shown clearly in Figures 1 and 2, and the said screw 8 is disposed just beneath the lower surface of the seat, so that when the same is threaded inwardly the device is held against upward displacement from the seat at the outer side of the latter. The tongue 13 is deflected downwardly in the same direction as the flanges 11 and tongues 12 and then has its free end portions inturned, to engage the under side of the seat, adjacent the inner edge thereof, as shown in Figure 2.

The blank shown in Figure 4 consists of suitable resilient sheet metal, so that the tongues 12 and 13 forming the elements 7ª

and 9 are yieldable for permitting ready placement of the device upon the seat, in the position shown in Figures 1 and 2. In placing the device upon the seat, the set screw 8 is threaded outwardly, so that the inner end of the same is substantially flush with the inner surface of the guiding element 7ª whereupon the hooked tongue 9 is clipped onto the inner edge portion of the seat. The outer end of the device is then lowered, so as to give the guiding element 7ª in a position depending below the under side of the seat, and at the outer edge of the latter, after which the screw 8 is threaded inwardly to have its outer end portion lie beneath the outer margin of the under surface of the seat as shown in Figure 2. The device is now attached to the seat against accidental displacement, and upon grasping the handle 15 and moving the device bodily along the upper surface of the seat, the latter will be effectively cleaned and moisture thereon will be absorbed by the wiping element or pad 5, the tongues 12 and 13, forming the guiding elements 7ª and 9 acting as efficient guides for the wiping device in this operation.

While it is intended that the device form a somewhat permanent attachment to a toilet seat, adapted to be only removed for renewal or repair purposes, it will nevertheless be understood that the device may be kept in a convenient place and applied from time to time as found necessary.

From the above description, it will be seen that I have provided a very simple and efficient form of toilet seat cleaner which will be found especially useful in public places, and which is also quite serviceable for use in private homes.

Minor changes may be made without departing from the spirit and scope of the invention as claimed.

What I claim as new is:

1. In combination with a wiping device adapted to extend from edge to edge of a toilet seat when resting upon the upper surface of the latter, of means upon the ends of said wiping device engageable with opposite sides of the seat for guiding the wiping device when moved over the upper surface of the seat, said last named means embodying means for detachably securing the wiping device against the upper surface of the seat against accidental upward displacement.

2. A toilet seat cleaner comprising a wiping element adapted to extend transversely of the toilet seat from edge to edge of the same, a holder for said wiping element, and depending members at the end of the holder adapted to extend downwardly beside opposite edges of the seat for guiding the wiping device when moved over the upper surface of the seat.

3. A toilet seat cleaner comprising a wiping element adapted to extend transversely of the toilet seat from edge to edge of the same, a holder for said wiping elements, and depending members at the end of the holder adapted to extend downwardly beside opposite edges of the seat for guiding the wiping device when moved over the upper surface of the seat, said holder comprising a piece of sheet metal having side flanges engaging the sides of the wiping element for securing the latter thereto, and said guiding means embodying integral tongues upon the ends of the holder.

4. A toilet seat cleaner comprising a wiping element adapted to extend transversely of the toilet seat from edge to edge of the same, a holder for said wiping element, and depending members at the end of the holder adapted to extend downwardly beside opposite edges of the seat for guiding the wiping device when moved over the upper surface of the seat, said holder comprising a piece of sheet metal having side flanges engaging the sides of the wiping element for securing the latter thereto, and said guiding means embodying integral tongues upon the ends of the holder, one of said tongues being provided with an inturned lower end adapted to engage the under side of the seat adjacent one edge thereof, and the other of said tongues having a transversely adjustable member adapted to be manually manipulated for moving beneath the under surface of the seat at the other edge thereof and capable of movement for disengaging the seat whereby the device may be readily applied or removed.

In testimony whereof I affix my signature.

MRS. BESSIE J. ISAAC.