

May 8, 1928.

E. P. OLSEN

1,668,729

SEAT CONSTRUCTION FOR SANITARY TOILETS

Filed Feb. 17, 1927

2 Sheets-Sheet 1

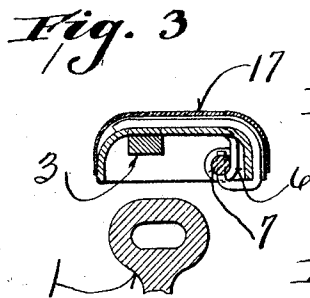
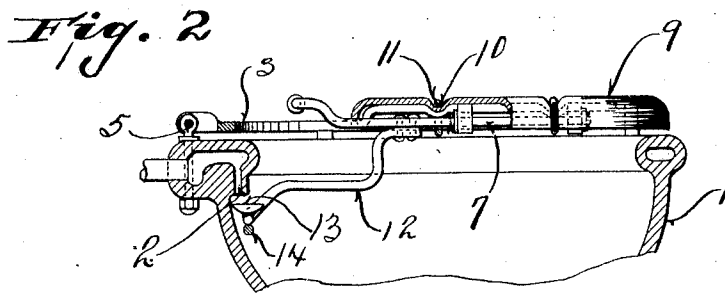
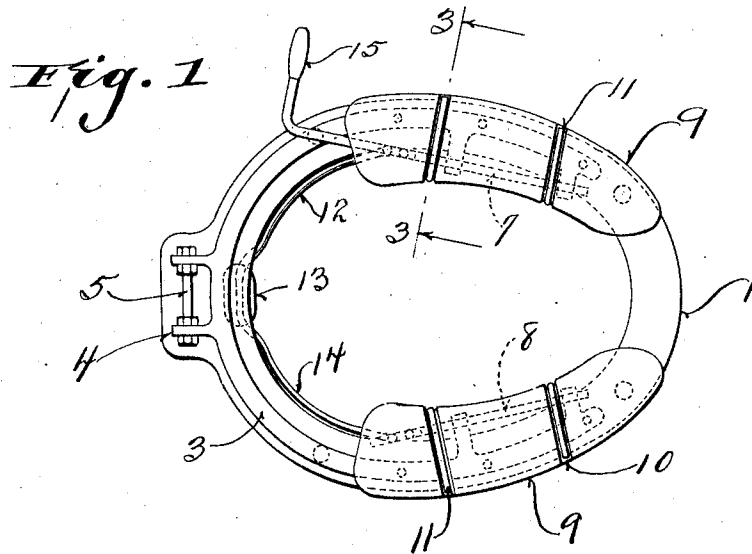


Fig. 4



Fig. 5

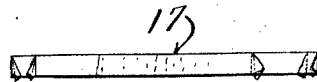
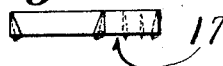


Fig. 6



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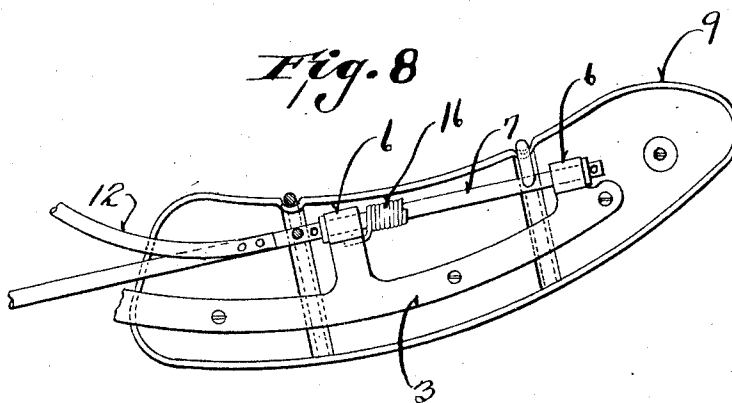
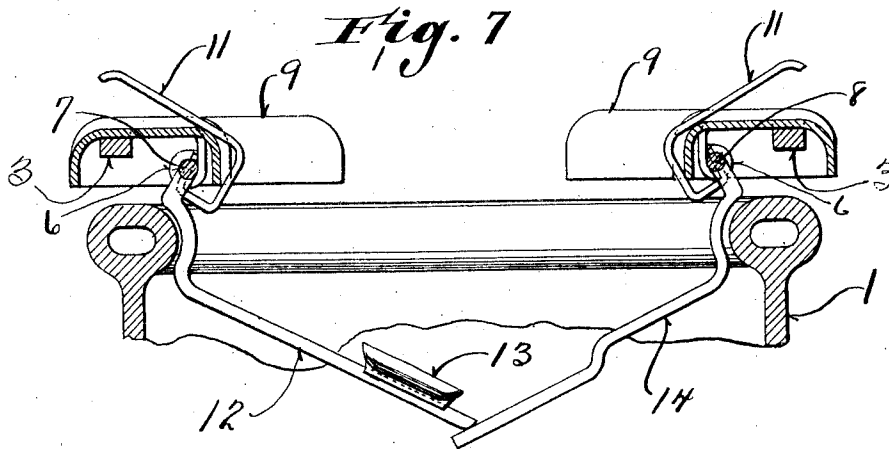
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SEAT CONSTRUCTION FOR SANITARY TOILETS

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

EDWARD P. OLSEN, OF MARINETTE, WISCONSIN.

SEAT CONSTRUCTION FOR SANITARY TOILETS.

Application filed February 17, 1927. Serial No. 168,869.

This invention relates to sanitary toilets and is particularly directed to a seat construction for such toilet, adapted to receive soluble paper pads.

5 Objects of this invention are to provide a novel form of toilet in which the seat is provided with two distinct supporting portions for the body which are not joined at the rear of the seat but are distinct and separate members and are provided with fingers normally positioned within the outline of the seat and adapted for either automatic or manual actuation to remove protecting sheets that may be placed on the seat portions.

15 Further objects are to provide a novel form of toilet seat which is composed of two separate members each of which is formed of metal, so that the utmost sanitary conditions may be maintained as the material is non-absorbent and non-porous, and to so construct the seat that the portions are provided with channels or transverse recesses which constitute housing depressions for pivotally mounted fingers actuated by distinct rock shafts and controlled either manually or by the flushing of the toilet itself.

25 Further objects are to provide a simple type of construction although possessing the above enumerated characteristics, and one which is highly practical and eminently satisfactory.

An embodiment of the invention is shown in the accompanying drawings in which:

30 Figure 1 is a plan view of the device;

35 Figure 2 is a sectional view therethrough;

Figure 3 is a transverse sectional view approximately on the line 3—3 of Figure 1;

40 Figure 4 is a plan view of one of the protecting sheets;

Figure 5 is a side elevation of the structure shown in Figure 4;

Figure 6 is an end elevation of the structure shown in Figure 4;

45 Figure 7 is a transverse sectional view showing the fingers in actuated position;

Figure 8 is a view partly in section from the underside of one of the seat portions.

50 Referring to the drawings, it will be seen that the usual bowl 1 has been indicated as provided with a flushing passage 2 adjacent the rear thereof, such passage being continued as far as desired around the sides of the bowl in the usual manner.

55 The seat construction comprises a U-shaped metal member 3 which is provided

with a pair of rearwardly extending ears 4 hinged to the bowl by means of a pintle pin 5. The members 3 continue forwardly and as may be seen from Figure 8 and are each provided with bearing portions 6 for the reception of the rock shafts 7 and 8. The member 3 carries a pair of forwardly positioned spaced seat portions 9 which are formed of metal and are preferably enamelled. These seat portions are secured to the members 3 in any suitable manner, as indicated in Figure 8, for instance. Each seat portion is provided with a plurality of transverse grooves or depressions 10 for the reception of the strip removing fingers 11, such fingers being curved and secured to the rock shafts 7 and 8, as shown most clearly in Figure 7. Normally, these fingers are housed or seated within the depressions 10, as shown in Figure 2, and are below the upper outline of the seat sections.

Means are provided for either automatically or manually simultaneously rocking the fingers 11 about the axis of the rock shafts 7 and 8. One of the shafts, 7, for example, may be provided with an inwardly and downwardly extending arm 12 located within the bowl 1 and provided with a cup-like member 13, as shown most clearly in Figures 2 and 7. This cup-like member is positioned directly beneath the flushing orifice or opening 2, as shown in Figure 2. The rock shaft 8 is provided with a similar inwardly and downwardly projecting arm 14 whose free end is positioned directly below the free end of the arm 12, as shown in Figures 2 and 7, so that when the arm 12 is depressed it will carry with it the arm 14 and thus cause the simultaneous rocking or actuation of all of the stripping fingers 11.

It is to be noted further that the rock shaft 7 is provided also with a manipulating outwardly projecting handle 15, as shown in Figure 1, so that the fingers may be simultaneously manually actuated as well as automatically actuated.

It is to be noted that the rock shafts 7 and 8 are journaled within the bearing portion 6 (see Figure 8) of the members 3 and preferably each is provided with a coiled restoring spring 16 adapted to return such shafts to their normal position, as shown in Figures 1 and 2.

It is intended that protecting strips or sheets, as indicated at 17, be used with this sanitary seat and such strips may be auto-

matically dispensed from a suitable vending machine, if desired, or otherwise supplied. These strips, as shown in Figures 4, 5, and 6, consist of two pieces of tissue paper glued together at their margins and provided with a cup or channel shaped recess as shown most clearly in Figure 3, so that they may be readily fitted over the respective seat sections. They may be given other shapes, if desired, provided they cooperate with the seat sections and are readily positioned thereon and removed therefrom.

In using the apparatus, the operator places a pair of these protecting strips 17 on the seat section and when the toilet is flushed the downwardly flowing stream of water strikes the cup-shaped member 13 and rocks the parts into the position shown in Figure 7, thus rocking the fingers 11 upwardly and inwardly and lifting the protecting sheets from the seat sections and discharging them into the bowl. If it is desired to manually remove these protecting sheets, this may be readily accomplished by manipulating the handle or lever 15.

It will be seen that a highly sanitary toilet has been provided in which the distinct seat sections are formed of metal and may be most easily sterilized or cleaned and maintained in a highly sanitary condition.

Further, it will be seen that these seat sections are protected when in use by protecting strips, and that means are provided whereby these protecting strips may be removed without contact with the hand of the operator.

Referring particularly to the pads shown in Figures 4 and 5 of the drawings, it is to be noted that the covers or pads 17 are to be formed from soluble material, whereby they will integrate quickly and will thus pass out through the fitting readily. These sanitary seat covers or pads may be formed with their valanced edges glued together to provide the properly contoured valance, or they may be crimped or cupped to form the channel-shaped recess desired.

While the invention is fully described as to detail, it is contemplated by me to provide a container for the seat pads under coin control, whereby seats or pads may be conveniently dispensed for the use of the public.

It will thus be seen that a highly sanitary toilet has been provided by this invention

and one which is of simple and reliable construction, although having the characteristics discussed above.

Although the invention has been described in considerable detail, such description is intended as illustrative rather than limiting as the invention may be variously embodied and as the scope of such invention is to be determined as claimed.

I claim:

1. In a sanitary toilet, the combination of a bowl having a flushing orifice, a seat mounted above the bowl and adapted to receive protecting sheets, stripping means for removing the sheets from the seat and depositing them in the bowl, and mechanism having a portion located below the flushing orifice and actuated by the flushing stream for imparting motion to said stripping fingers.

2. In a sanitary toilet, the combination of a bowl having a flushing orifice, a pair of seat sections mounted above said bowl and adapted to receive protecting sheets, said seat sections having transverse depressions, a pair of rock shafts journaled beneath the seat sections and having stripping fingers normally housed within the said transverse depressions, and actuating means for said rock shafts located below said flushing orifice and actuated by the flushing stream.

3. A seat construction for a sanitary toilet comprising a U-shaped metal member adapted for positioning above the toilet bowl, and a pair of separate and distinct metal seat sections carried by the outer ends of the arms of said U-shaped member.

4. A seat construction for a sanitary toilet comprising a U-shaped metal member having means for pivotal connection with a bowl, and an enamelled metal seat portion carried by said U-shaped member.

5. A seat construction for a sanitary toilet comprising a U-shaped metal member having means for pivotal connection with a bowl, and an enamelled metal seat portion carried by said U-shaped member, said seat portion consisting of distinct and separate sections.

In testimony that I claim the foregoing I have hereunto set my hand at Marinette, in the county of Marinette and State of Wisconsin.

EDWARD P. OLSEN.