

Jan. 8, 1963

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3,071,778

TOILET GUARD

Filed July 19, 1960

2 Sheets-Sheet 1

Fig. 1.

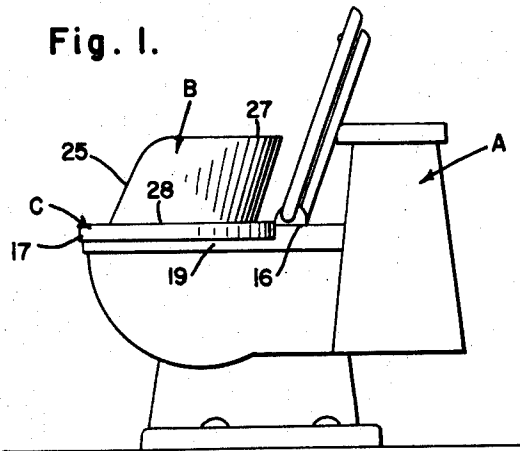


Fig. 2.

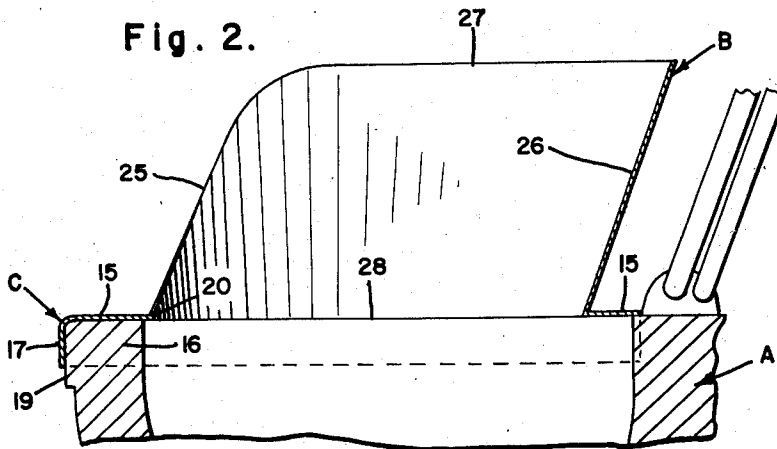
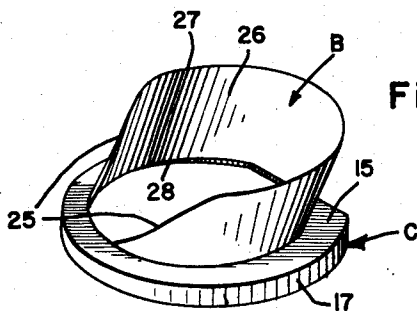


Fig. 3.



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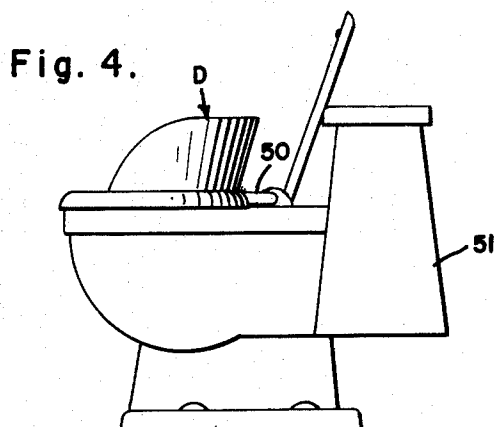
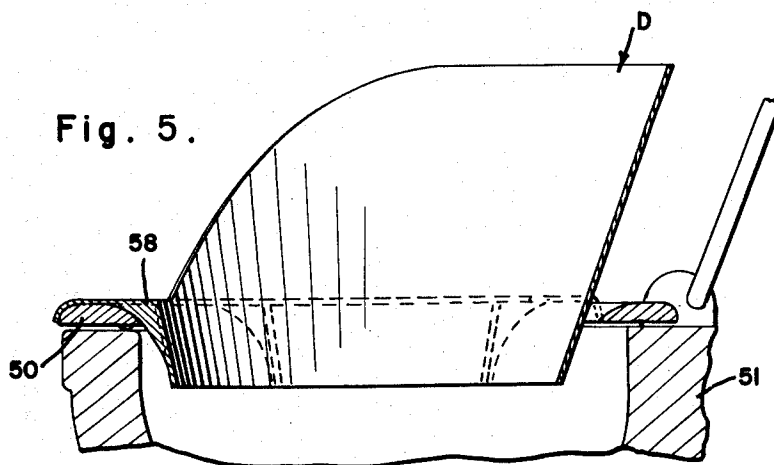
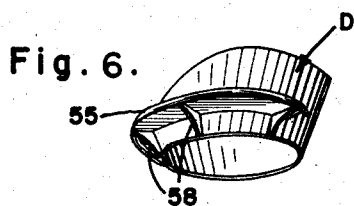
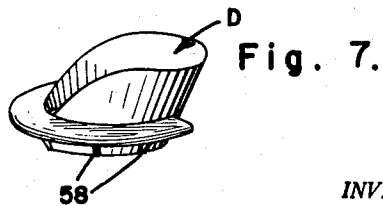
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2 Sheets-Sheet 2



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## TOILET GUARD

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1 Claim. (Cl. 4-1)

This invention relates to a device which may be mounted on the rim or seat of a toilet bowl.

In the toilet training of young male children it is desirable to provide some guard or shield over the open end of the bowl of the toilet to prevent the spillage of water on the floor.

Most parents of young boys are continually perplexed with the problem of finding water spillage on the floor adjacent the toilet. The spillage on the floor is either the result of carelessness or poor marksmanship.

It is the principal object of this invention to provide a funnel shaped broad target area which is mounted over the rim of the toilet to prevent the spillage of water on the floor.

A feature and advantage of the shield of this invention is the provision of a flange which is formed in a shape complementary with the rim of the toilet bowl so that the shield can be installed on the bowl with the flange nested over the rim of the bowl.

Another feature and advantage of this invention is that the rim engages the toilet bowl securely thus preventing an accidental displacement of the shield relative to the bowl.

Another object of this invention is to provide a shield for a toilet bowl formed in a generally funnel shaped configuration in which one side of the shield is broken away to allow free access to the bowl from the front position and to provide the funnel effect in the areas around the front position of the device.

Other objects of the present invention will become apparent upon reading the following specification and referring to the accompanying drawings in which similar characters of reference represent corresponding parts in each of the several views.

In the drawings:

FIG. 1 is a side elevational view showing a typical toilet with the shield of this invention installed thereon.

FIG. 2 is an enlarged cross-sectional view of the shield.

FIG. 3 is a perspective view of the shield.

FIG. 4 is a side elevational view showing a modification of the invention mounted on the seat of a typical toilet.

FIG. 5 is an enlarged cross-sectional view of the embodiment of the invention as shown in FIG. 4.

FIG. 6 is a bottom perspective view of the embodiment of the invention as shown in FIG. 4.

FIG. 7 is a perspective view of the embodiment of the invention of FIG. 4 shown from an upper position.

In FIG. 1 the principal embodiment of the invention is shown mounted on a toilet indicated at A and consists of funnel shaped shield B carried on a doughnut shaped flange C.

The flange is formed by a top wall 15 which is arranged to stem across the top of the rim 16 of toilet A. Top wall 15 is formed with the same contour as the rim of the toilet bowl.

The outer edge of top wall 15 is terminated with a depending side wall 17. The side wall is formed to nest against the outer rim 19 of the toilet bowl.

Shield B is mounted on the inside edge 20 of top wall 15 and extends upwardly therefrom. Shield B is in the shape of an inverted truncated cone split at the front to allow water ingress to the toilet bowl. The front edges 25 are formed to extend at an angle upwardly and rearwardly so as to effectively increase the target area at

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which water flow can be directed to ultimately fall into the toilet bowl.

The inside wall 26 of the shield is tapered inwardly from the top 27 of the shield to the bottom 28. The shield thus is formed in a configuration that would allow a stream of water to pass through the front portion of the shield and to deflect and funnel any portion of the water stream missing the bowl into the bowl.

It can be seen in operation that the device of this invention can be easily inserted on and removed from a conventional toilet bowl due to the fact that flange C is nested over rim 16 of the toilet bowl.

Top wall 15 engages the top of the rim of the toilet bowl so as to provide a substantial table support for the shield and depending side wall 17 engages the side wall of the toilet bowl to prevent lateral movement of the device. Thus when the device is installed on the toilet there is a firm and fixed mounting of the device relative to the bowl so that it would be difficult to accidentally dislodge or remove the device. However, the device can be easily removed by simply lifting it upwardly off the bowl.

The device is particularly useful in the training of infant male children where because of the child's inexperience in toilet training he is unable to direct the water stream flow accurately into the bowl. The shield thus affords a much greater target area and due to its funnel like shape captures the water stream flow directly against it and funnels it into the toilet bowl.

The funnel shape is important in that it allows an effective broader target area and also prevents the splatter of the liquid onto the floor and rather directs the flow of splatter into the toilet bowl itself.

Although the principal embodiment of the invention is shown mounted directly on the rim of the toilet, it is believed obvious that flange C could be formed in the same relative contour as the toilet seat and thus the device could be mounted equally well on the toilet seat if desired.

In FIGS. 4, 5, 6 and 7 there is provided another embodiment of the invention in which a shield D is arranged to be mounted on the seat 50 of a conventional toilet 51.

Shield D is provided with an outwardly extending flange 55 which is mounted about the outer face of the shield and which is formed to rest on the top of the toilet seat 50.

A series of ribs 58 are mounted on the bottom portion of the shield and the underface of flange 55. The ribs are arranged to engage the inner edge of the toilet seat to prevent lateral movement of the shield relative to the seat. The flange is formed with a contour generally adapted to fit on the top face of the seat. The ribs have a depending inwardly defined face so as to adapt the device to be mounted on toilet seats having a substantial variation in individual opening dimensions.

For purposes of claim terminology the term "toilet bowl" is intended to be inclusive of seats or other additional structures which might be mounted above the rim of the bowl itself and to which the device of this invention is readily attachable.

Although the foregoing invention has been described in some detail by way of illustration and example for purposes of clarity of understanding, it is understood that certain changes and modifications may be practiced within the spirit of the invention as limited only by the scope of the appended claim.

What is claimed:

A toilet accessory for removably mounting on the rim of a bowl of a toilet comprising a circular flange formed in a configuration approximating the rim of the bowl, said circular flange including a top wall overlying the top of said rim and a side wall extending downwardly

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from said top wall and substantially coextensive therewith whereby said top and side walls substantially enclose all the exposed area of said rim, said circular flange having an inside diameter at most smaller than the inner rim diameter of the toilet bowl, a three sided shield 5 mounted on the inside edge of said flange, said shield extending upwardly and outwardly from said flange forming a funnel shaped inlet into the toilet bowl and being open at the top and the forwardly disposed side of the

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toilet to allow fluid access against the inside walls of the shield from a position in front of the toilet.

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