Aug. 30, 1955 R. J. WENDEL 2,716,244

TOILET SEAT ADAPTOR

Filed March 16, 1953

FIG. 1.

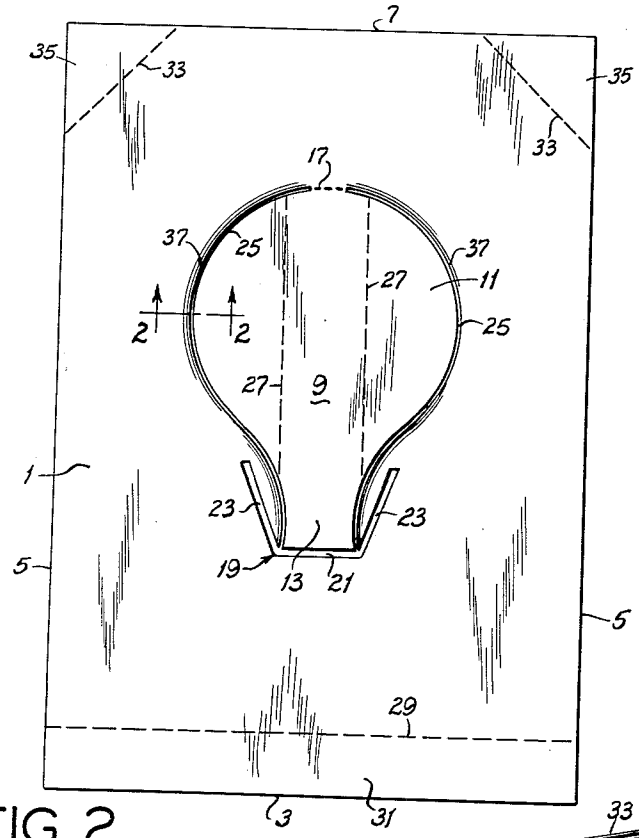


FIG. 3.

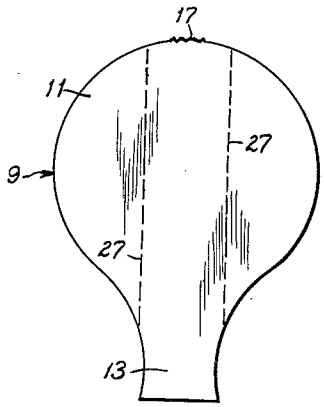


FIG. 2.

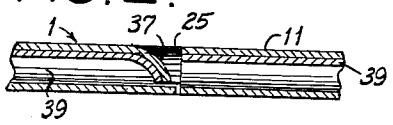


FIG. 4.

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TOILET SEAT ADAPTOR

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6 Claims. (Cl. 4—239)

This invention relates to toilet seat adaptors, and more particularly to a disposable toilet seat adaptor for converting a standard toilet seat to children's use.

Among the several objects of the invention may be noted the provision of a sanitary toilet seat adaptor to be placed upon a standard toilet seat and to provide a small children's size toilet seat opening to enable safe and comfortable use of the standard toilet by a child; the provision of an adaptor of this class which is economical to manufacture and which may be sold at such relatively low cost that the adaptor may be disposed of after one-time use; and the provision of an adaptor of this class providing a deflector which is particularly advantageous in the case of use of the adaptor by small boys and which also serves to assist in keeping the adaptor in place on the toilet seat. Other objects and features will be in part apparent and in part pointed out hereinafter.

The invention accordingly comprises the constructions hereinafter described, the scope of the invention being indicated in the following claims.

In the accompanying drawings, in which one of various possible embodiments of the invention is illustrated,

Fig. 1 is a plan of an adaptor of this invention;

Fig. 2 is an enlarged fragmentary cross-section taken on line 2—2 of Fig. 1;

Fig. 3 is a plan of a cut-out or deflector as removed from the adaptor; and,

Fig. 4 is a perspective illustrating the adaptor as applied to a toilet seat with the deflector in operative position.

Corresponding reference characters indicate corresponding parts throughout the several views of the drawings.

Referring to the drawings, an adaptor made in accordance with this invention is shown to comprise a generally rectangular cardboard blank **1** having a front edge **3**, side edges **5**, and a rear edge **7**. The blank is of such size that it may be placed upon a standard toilet seat and is made of cardboard of sufficient stiffness to support the weight of a small child, for example a child in the age range from two to four years. The blank may, for example, be made of 200 lb. test corrugated board.

The blank **1** is formed with a cut-out generally designated **9** having a main section **11** of generally circular form and an extension **13** narrower than the main section extending toward the front edge **3** of the blank. The center of the main section is somewhat rearward of the center of the blank. The size and shape of the cut-out are such that upon detaching it from the blank, a children's size toilet seat opening **15** (smaller than the standard toilet seat opening) is provided in the blank (see Fig. 4).

The cut-out **9** is somewhat less than wholly severed from the blank so that it initially forms a part of the blank but may be readily detached by tearing it away from the blank. To this effect, the cut-out is severed from the blank by cuts completely through the blank except along a short portion of the edge of the cut-out at its rearward end where, instead of making a complete cut,

the blank is scored as indicated at **17** to enable the cut-out readily to be torn away from the blank.

At the forward end of the extension **13**, the blank has a narrow slot generally designated **19**, and having an intermediate portion **21** extending generally parallel to the front edge **3** of the blank, and end portions **23** sharply angled back from the ends of the intermediate portion. The length of the intermediate portion **21** of the slot corresponds generally to the width of the forward end of the extension **13**. The total length of the slot, as measured from the end of one end portion **23** to the other, is approximately equal to (although it may be somewhat greater than) the diameter of the main section **11** of the cut-out **9**. The intermediate portion **21** of the slot constitutes a complete cut at the forward end of extension **13**. The complete cuts along the sides of cut-out **9** are designated **25**, and, as shown, extend from the slot to the scored region **17** of attachment of the cut-out to the blank. The cut-out **9** is scored for folding on lines **27** extending at right angles to the intermediate portion **21** of the slot **19** and which, as extended, intersect the ends of portion **21**.

The blank is scored along a line **29** adjacent and parallel to its forward edge **3** to provide a flap **31** which may be folded down in front of a toilet seat. The score line **29** is spaced from the slot portion **21** a distance such that, with the slot above the toilet bowl, the flap **31** may be folded down in front of the toilet seat. The blank is also scored along diagonal lines **33** at its rear corners to provide triangular flaps **35** which may be folded down adjacent the rear of the toilet seat.

The die employed in making the cuts **25** and the slot **19** is formed so as to crush the cardboard and make the edge of the blank surrounding the cut-out **9** rounded as illustrated at **37** in Fig. 2, thereby to avoid having a raw cut edge which might scratch a child. This is particularly important where the blank is made of corrugated board. In Fig. 2, the corrugated intermediate layer of such board is indicated at **39**.

In use, the cut-out **9** is detached from the blank by pushing it out from the blank and tearing it away from the blank at **17**. The detached cut-out (see Fig. 3) is used as a deflector by folding it on lines **27** and inserting it in the slot **19** as illustrated in Fig. 4, with the extension **13** projecting downward. The blank is placed on a toilet seat with the deflector projecting down into the toilet bowl. In addition to acting to deflect a stream of urine into the toilet bowl, the deflector prevents the adaptor from sliding forward. Flap **31** is bent downward in front of the seat to provide a smooth forward edge to avoid scratching the child's legs, and also acts to prevent the cover from sliding rearward. Flaps **35** are folded downward adjacent the rear of the seat properly to locate the adaptor on the seat. Also, if desired, triangular flaps, similar to those indicated by numerals **35** could be used at the front corners of the adaptor in place of flap **31**.

In view of the above, it will be seen that the several objects of the invention are achieved and other advantageous results attained.

As various changes could be made in the above constructions without departing from the scope of the invention, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

I claim:

1. I disposable toilet seat adaptor particularly for converting a standard toilet seat to children's use, comprising a blank of cardboard adapted to rest upon a standard toilet seat and having a detachable cut-out shaped so that upon its removal from the blank a children's size toilet seat opening is provided in the blank, said cut-out being somewhat less than wholly severed from the blank so that

it initially forms a part of the blank but may be readily detached by tearing it away from the blank, the blank having a narrow slot at the front of the cut-out adapted to receive the detached cut-out to serve as a deflector, and the cardboard being of sufficient stiffness to support a child's weight as used on a toilet seat.

2. A disposable toilet seat adaptor as set forth in claim 1 wherein the cut-out is severed from the blank by a complete cut except for a short portion of the edge of the cut-out where the blank is scored, and wherein the cut edge of opening around the cut-out is rounded for smoothness.

3. A disposable toilet seat adaptor particularly for converting a standard toilet seat to children's use, comprising a generally rectangular blank of cardboard adapted to rest upon a standard toilet seat and having a detachable cut-out having a generally circular main section and an extension narrower than the main section extending toward the front of the blank, said cut-out being somewhat less than wholly severed from the blank so that it initially forms a part of the blank but may be readily detached by tearing it away from the blank, and being of such size that upon its removal from the blank a children's size toilet seat opening is provided in the blank, the blank having a narrow slot at the forward end of the extension, the slot projecting on opposite sides of the extension, the slot being adapted for insertion therein of the detached cut-out to serve as a deflector, and the cardboard being of sufficient stiffness to support a child's weight as used on a toilet seat.

4. A disposable toilet seat adaptor as set forth in claim 3 wherein the cut-out is severed from the blank by a complete cut except for a short portion of the edge of the cut-out where the blank is scored, and wherein the cut edge of opening around the cut-out is rounded for smoothness.

5. A disposable toilet seat adaptor as set forth in claim 3 wherein the slot has an intermediate portion extending generally parallel to the front of the blank at the forward end of the extension and end portions angled back from the ends of the intermediate portion, and wherein the cut-out is scored along lines extending at right angles to the intermediate portion of the slot and which intersect the ends of the intermediate portion for folding of the cut-out to fit in the slot.

6. A disposable toilet seat adaptor as set forth in claim 5 wherein the cut-out is severed from the blank by a complete cut except for a short portion of the edge of the cut-out where the blank is scored, and wherein the cut edge of opening around the cut-out is rounded for smoothness.

References Cited in the file of this patent

UNITED STATES PATENTS

1,036,623	Hopkinson	Aug. 27, 1912
1,867,674	McCandless	July 19, 1932
2,367,491	Ferguson	Jan. 16, 1945
2,548,238	Potts et al.	Apr. 10, 1951
2,637,139	Harris	May 5, 1953

FOREIGN PATENTS

194,348	Great Britain	Mar. 7, 1923
262,124	Great Britain	Feb. 2, 1927