

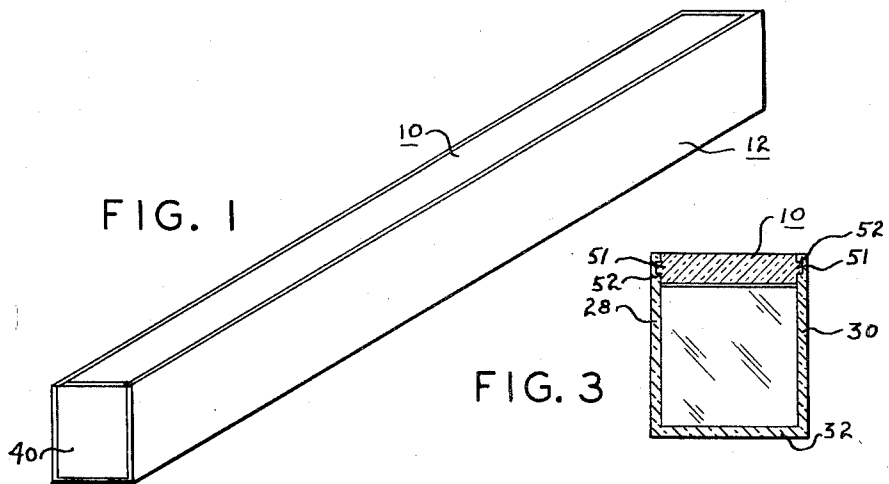
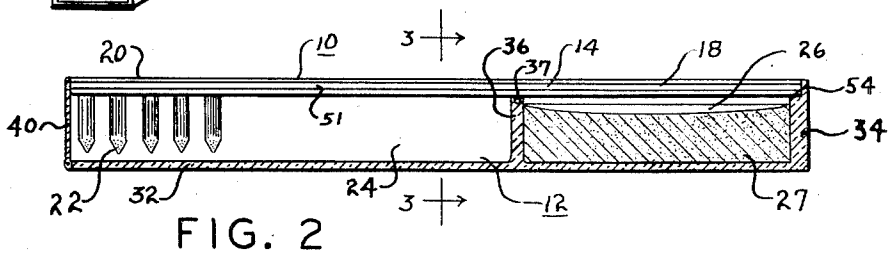
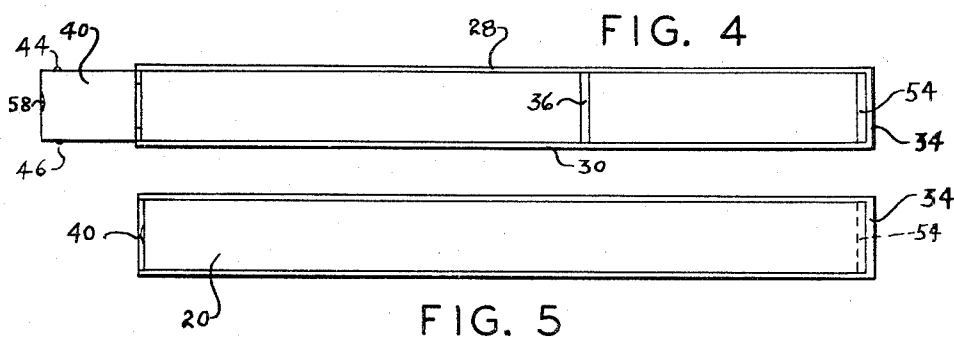
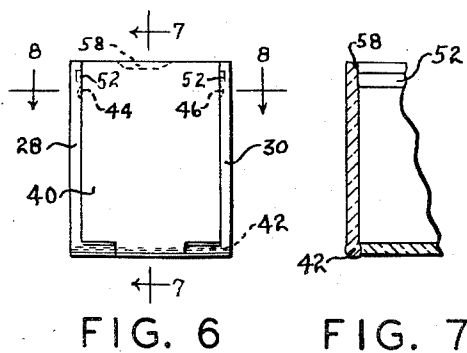
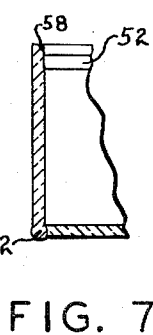
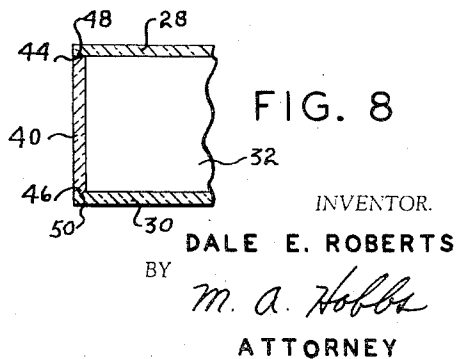
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TOOTH BRUSH AND DENTIFRICE KIT

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TOOTH BRUSH AND DENTIFRICE KIT

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4 Claims. (Cl. 132-84)

The present invention relates to a toilet article and more particularly to a tooth brush and dentifrice kit.

One of the principal objects of the present invention is to provide a completely sealed tooth brush and dentifrice kit from which the brush and dentifrice can be readily removed for use, and which can be easily resealed with the bristles of the brush completely suspended out of contact with any portion of the container.

Another object of the invention is to provide a two-piece tooth brush and dentifrice kit, one part forming a brush with a handle and the other part forming the dentifrice holder with handle.

A further object is to provide a tooth brush and dentifrice holder which is adapted to be carried on the person, either in a coat pocket, purse or hand bag, and which will accommodate either powder, paste or cake type dentifrices.

Another object of the invention is to provide a tooth brush and dentifrice kit especially adapted to be carried on the person and used in public lavatories and wash rooms.

Still another object is to provide a two-piece kit of the aforesaid type which can be conveniently disassembled, used and reassembled while holding both pieces continually in the two hands.

Additional objects and advantages will become apparent from the following description and accompanying drawing, wherein:

Figure 1 is an oblique view of my assembled tooth brush and dentifrice kit;

Figure 2 is a partial vertical cross sectional view of the tooth brush and dentifrice kit shown in Figure 1, taken in the longitudinal direction;

Figure 3 is a vertical cross sectional view of the assembled kit shown in Figures 1 and 2 taken on line 3-3 of Figure 2;

Figure 4 is a top plan view of my kit from which the tooth brush has been removed;

Figure 5 is a top plan view of my assembled kit in closed position;

Figure 6 is an enlarged end elevational view of my kit;

Figure 7 is an enlarged fragmentary vertical cross sectional view of a portion of the kit, taken on line 7-7 of Figure 6; and

Figure 8 is an enlarged fragmentary horizontal cross sectional view of a portion of the kit taken on line 8-8 of Figure 6.

Referring more specifically to the drawings in which one embodiment of my invention is shown, my tooth brush and dentifrice kit consists of a brush 10 and a container portion 12 forming the principal and separable parts of the kit. The brush is an especially made tooth brush having a handle 14 with a relatively broad hand gripping portion 18 and a head portion 20 supporting the bristles 22 of the brush. The particular arrangement of the bristles in the brush and the size and shape of the

bristle portion are not important in the present invention except as they may affect the size and shape of the brush head or the container. The brush would normally be made of plastic and preferably has slightly rounded edges and end portions and the container is preferably made of plastic, but metal can be used.

The container portion is generally rectangular in cross sectional shape and contains a compartment 24 in which the bristles of the brush are suspended and a compartment 26 for the dentifrice 27 in cake or powder form. The two side walls 28 and 30 are joined integrally at their lower edges to bottom 32 and at one end to end panel 34 which is likewise joined integrally with the bottom. The two compartments are separated by a partition 36 joined integrally to the two side walls and the bottom and extending upwardly to the point where it will engage the underside of the tooth brush handle and form an effective seal therewith. If it is desired to form a more positive seal between the upper edge of the partition and the underside of the handle, a strip of resilient sealing material 37 such as rubber or rubber-like material may be mounted on the partition in a longitudinal groove in said upper edge. The left hand end of the container, as viewed in the drawing, consists of a flap or door 40 pivoted at the bottom on a pin 42 extending through holes in slightly enlarged portions at the lower edge of the door and at the adjacent end of the bottom. Two lugs 44 and 46 are provided along the side edges of the door for seating in recesses 48 and 50 in the adjacent portion of side walls 28 and 30, respectively. When the door is raised and pushed into closed position lugs 44 and 46 snap into the recesses holding the door in closed position, preventing it from being accidentally opened.

The brush is retained in place in the container by a tongue and groove construction consisting of a longitudinal tongue 51 on each side of brush 10 and a longitudinal groove 52 in the internal side wall of side walls 28 and 30. The tongues are formed integrally with the brush and interlock with and slide freely in the respective grooves 52. The end of compartment 26 is effectively closed at the right hand end by the end of the brush sliding over the top of a ledge 54 formed along the upper edge of end panel 34. The top of compartment 24 is completely closed by the brush head 20 and the adjacent portion of handle 18 and the top of compartment 26 is completely closed by handle 14 of the brush. After the brush has been slipped into place in the container, door 40 is snapped shut with the inside surface of the door seating against the end of the brush, thereby completely closing compartment 24.

The dentifrice 27 in compartment 26 is preferably in the form of a relatively soft cake; however, the brush handle is held sufficiently tightly over the compartment and in contact with ledge 54 and the upper edge of partition 36 that powder can be satisfactorily carried in the compartment.

When the brush is to be used, door 40 is opened by catching the thumb or fingernail in the upper edge 58 of the door and pulling outwardly until lugs 44 and 46 are disengaged from recesses 48 and 50 and the door is moved into the horizontal position shown in Figure 4. The brush is then slipped endwise to the left, as seen in Figures 2, 4 and 5, until tongues 51 are completely free of grooves 52. The bristles can now be rubbed over the upper surface of the dentifrice cake, preferably after they have been moistened, and the brush is ready for use. One of the particular advantages of the invention is that the brush can be held in one hand for brushing the teeth and the container can be held in the other hand for furnishing the dentifrice for the brush. The container is held by gripping the side walls along the part forming compartment 24,

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leaving the dentifrice compartment in an easily accessible position for the bristle portion of the brush. This two piece feature in which both pieces are in use while the teeth are being brushed is particularly important in that the present kit is designed for use during the day in public lavatories and wash rooms where it would be unsanitary to lay the parts of the kit onto the lavatory or a shelf in these public places. The present kit is removed from the pocket or hand bag, disassembled, the parts held in each hand while in use, and then reassembled and the kit returned to the pocket or hand bag. When the brushing operation has been completed, the brush is slipped back into the container with the tongues 51 interlocking with grooves 52, and door 40 is snapped closed.

While the container has been shown in the drawing as rectangular in cross section, the lower corners may, if desired be rounded and the sides and bottom curved on their longitudinal axis, to give the container an over all cylindrical appearance. The tongues and grooves may be interchanged, i.e. the tongue may be placed on the internal surface of the side walls and the grooves provided in the sides of the brush. Various other changes and modifications may be made without departing from the scope of the present invention.

I claim:

1. A two-piece tooth brush and dentifrice kit, comprising side walls and a bottom forming an elongated container with an open top, a panel closing one end and having a horizontal ledge thereon spaced downwardly from the top, a door at the other end pivoted at the bottom, slots in the side walls adjacent said door, lugs on said door adjacent said slots and adapted to seat therein to hold said door in closed position, a longitudinal groove in the internal surface of each side wall near the upper edge thereof, a vertical partition in said container joined integrally to said side walls and said bottom and spaced from said grooves forming two compartments in said container, a resilient sealing means along the upper edge of said partition, a cake of dentifrice in the compartment adjacent said end panel, a tooth brush having a broad handle engaging said sealing means and said ledge, and a longitudinal tongue on each side of said handle for interlocking with the respective groove.

2. A two-piece tooth brush and dentifrice kit, comprising side walls and a bottom forming an elongated container with an open top, a panel closing one end and having a horizontal ledge thereon spaced downwardly from the top, a door at the other end pivoted at the bottom, slots in the side walls adjacent said door, lugs on

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said door adjacent said slots and adapted to seat therein to hold said door in closed position, a longitudinal and continuous internal groove in the internal surface of each side wall near the upper edge thereof, a vertical partition in said container joined integrally to said side walls and said bottom and spaced from said grooves forming two compartments in said container, a cake of dentifrice in the compartment adjacent said end panel a tooth brush having a broad handle and engaging said partition and said ledge, and a longitudinal tongue on each side of said handle for interlocking with the respective groove.

3. A tooth brush and dentifrice kit, comprising side walls and a bottom forming an elongated container with an open top, a panel closing one end, a door at the other end pivoted at the bottom, slots in the side walls adjacent said door, lugs on said door adjacent said slots and adapted to seat therein to hold said door in closed position, a longitudinal and continuous groove in the internal surface of each side wall, a vertical partition in said container secured to said walls and bottom forming two compartments in said container, dentifrice in the compartment adjacent said end panel, a tooth brush having a handle engaging said partition and said ledge and having bristles disposed in the compartment nearest said door, and a longitudinal tongue on each side of said handle for interlocking with the respective groove.

4. A tooth brush and dentifrice kit, comprising side walls and a bottom forming an elongated container with an open top, a panel closing one end and having a horizontal ledge thereon spaced downwardly from the top, a door at the other end pivoted at the bottom, a latching means to hold said door closed, a longitudinal and continuous groove in the internal surface of each side wall, a vertical partition in said container secured to said walls and bottom forming two compartments in said container, a dentifrice in the compartment adjacent said end panel, a tooth brush having a handle enclosing the compartment containing said dentifrice and having bristles disposed in the compartment nearest said door, and a longitudinal tongue on each side for interlocking with the respective groove.

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