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TOOTH PASTE DISPENSER

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1 Claim. (Cl. 225—328)

The present invention relates to new and useful improvements in the tooth paste dispensers and more particularly to a wall attached dispenser of this character.

An important object of the invention is to provide a container adapted to hold a quantity of tooth paste and constructed for attaching to a wall or other suitable support and providing a novel means in the bottom of the container for periodically dispensing a predetermined amount of the tooth paste.

Another object of the invention is to provide a push button operated dispensing means for a plunger working in a discharge spout at the lower front portion of the container and which serves to close the spout and to keep the spout clear from collecting toothpaste therein which might become hardened and obstruct the dispensing opening in the spout.

A still further object is to provide a device of this character of simple and practical construction, which is neat and attractive in appearance, efficient and reliable in operation, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view;

Figure 2 is a vertical sectional view;

Figure 3 is an enlarged fragmentary vertical sectional view of the dispensing means taken on line 3—3 of Figure 2;

Figure 4 is a transverse sectional view taken on line 4—4 of Figure 2; and

Figure 5 is a perspective view of the plunger.

Referring now to the drawing in detail whereinfor the purpose of illustration is disclosed a preferred embodiment of the invention the numeral 6 designates a container which may be manufactured from a suitable commercial plastic or other suitable material and preferably of rectangular shape and attached at its back to a wall or other support structure 8 by means of an adhesive coating (not shown) applied to the back of the container, or attaching the container to the wall by screws or other suitable fasteners (not shown).

The top of the container is provided with a filling cap or cover 7 and the bottom of the container is provided with a forwardly sloping chute 8 leading to a spout 9 formed at the lower front wall of the container.

The bottom of the chute 8 is formed with a channel or groove 10 aligned with the discharge opening 11 in the spout and in which a plunger 12 is slidable. Plunger 12 is formed with a forwardly projecting reduced stem 13 at its front end closely working in the opening 11 of the spout, and the plunger tapers toward its rear end and is pivoted to the bifurcated rear end portion 14 of an actuating rod 15 which is slidable in a guide 16 on the rear of the front wall of the container 5. A push button 17 is secured to the front end of the actuating rod 15.

Guide 16 is formed with a chamber 18 in which a coil spring 19 is positioned bearing against a flange 20 on the rod to hold the push button 17 and plunger 12 in a forward position. Flange 20 abuts a plug 21 threaded in the front end of the guide 16 and in which the actuating rod 15 is slidable.

In the operation of the device the container 5 is filled with a quantity of tooth paste and reduced extension 13 on the front end of plunger 12 forms a valve which closes the opening in the spout 9 and is held in its closed position by the spring 19.

Valve 13 is moved rearwardly into its open position by pressing push button 17 which slides the actuating rod 15 and plunger 12 rearwardly and allows the tooth paste to enter the opening 11. Upon releasing the push button 17 spring 19 will slide the plunger 12 and valve 13 forwardly to dispense a predetermined quantity of the tooth paste through the spout and onto a tooth brush 22 held under the spout.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claim.

Having described the invention, what is claimed as new is:

A tooth paste dispenser comprising a container having a V-shaped bottom formed with a forwardly sloping channel at the center of the bottom, a discharge spout at the lower portion of the channel and projecting outwardly at the lower portion of the container, a plunger slidable in
the channel and provided with a reduced stem having a working fit in the spout, said container having an aperture adjacent the spout, and push button operating means for the plunger slidably mounted in said aperture and projecting outwardly of the container above and adjacent the spout to extrude contents of the container from the spout, said push button operating means including a forwardly and rearwardly slidable rod having its inner end pivoted to the rear end of the plunger to retract the plunger to admit paste into the spout upon an inward movement of the rod, and spring means urging the rod forwardly and subjecting the plunger to its dispensing stroke.

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