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DISPENSER

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2 Claims. (Cl. 221—60)

This invention relates to dispensers, and particularly to a device for dispensing tooth paste, shaving cream, and the like, from a tube container.

5 The general object of the invention is to provide a device in which a commercial tube of tooth paste, shaving cream, or the like, may be mounted, upon removing the cap of the tube, whereby the tube will be automatically closed
10 when released and not in use, but may be readily grasped and swung into a dispensing position and thereby opened, for dispensing its contents, while held and compressed by one's hand.

With the above and other objects in view, the
15 invention consists in the novel and useful provision, formation, construction, and relative arrangement of parts, members and features, all as shown in certain embodiments in the accompanying drawing, described generally, and more
20 particularly pointed out in the claims.

In the drawing:

Figure 1 is a perspective of my dispensing device mounted on a wall and showing a tube of
25 tooth paste mounted therein and suspended in its position when not in use, with its nipple closed by the device,

Figure 2 is a side elevation of my dispensing device with a tube of tooth paste mounted therein, and shown swung into its dispensing position,
30 with its nipple open and a portion of the tooth paste being extruded from the tube through said nipple,

Figure 3 is a view partly in vertical section and partly in rear elevation of my dispensing device
35 taken on line 3—3 of Figure 2,

Figure 4 is a fragmentary elevation of a commercial tube of tooth paste or shaving cream, with its screw cap removed from its threaded
40 nipple,

Figure 5 is a perspective of a modification of my invention, and,

Figure 6 is a horizontal section taken on line 6—6 of Figure 5.

Referring more particularly to the drawing, in
45 which corresponding parts are designated by the same reference characters in all of the figures, 1 designates an angle bracket formed with a vertical arm 2 and a horizontal arm 3, which bracket may be secured in a convenient position
50 for use, to any suitable support, such as a wall, window frame or door frame, by means of screws 4 driven through openings 5 in the bracket arm 3, into such support, to secure said arm to such support in a vertical position, with arm 3 of said
55 bracket at the upper end of said arm 2 and ex-

tending outwardly in a horizontal position from such support. To the under side of the bracket arm 3, at the outer end thereof, are secured a flat U-shaped spring 6 and an inverted yoke 7, by means of rivets 8, one member 9 of said spring
5 being positioned between the under side of the bracket arm 3 and the upper side of the cross member 10, of yoke 7, with the other free and resilient member 11 of said spring extending rearwardly under said yoke cross-member 10 and
10 between the yoke arms 12 depending from said cross member, so that the rivets 8 extend through the bracket arm 3, spring member 9, and yoke cross member 10 for securing the spring 6 and yoke 7 to said bracket arm as aforesaid. Be-
15 tween and to the arms 12 of the yoke 7 is pivoted a dispensing nozzle 13 by means of trunnions 14 extending from opposite sides of the lower portion of said nozzle through openings 15 in the lower portion of said yoke arms. The nozzle 13
20 is formed with a threaded socket 18 in its inlet end 16 and with a discharge duct 19 leading from the inner end of said socket through the outlet end 17 of said nozzle.

The operation, uses and advantages of my invention are as follows:

The screw cap of a tube 20 containing tooth paste, shaving cream, or the like, is first removed from the threaded nipple 21 of said tube and said nipple is screw-seated in the threaded socket
30 18 in the inlet end of the pivoted nozzle 13, so that upon releasing said tube, its weight will swing said tube and nozzle on the nozzle trunnions 14 into a vertical position with the outlet end 17 of said nozzle engaging the under side of
35 the resilient member 11 of spring 6 and said member closing said outlet end of said nozzle, as illustrated in Figure 1 of the drawing, in which position the tube 20 and nozzle 13 remain, except when the contents of the tube are dispensed.

To dispense the tooth paste, shaving cream, or the like, from the tube 20, said tube is grasped by one's hand and is swung, together with the nozzle 13, on the nozzle trunnions 14, into a position as shown in Figure 2, and upon squeezing
45 the tube by the hand, in the usual manner, the tooth paste, shaving cream, or the like, will be extruded and dispensed from the tube through the outlet end 17 of said nozzle 20, as indicated at 22.

After dispensing any of the contents of the tube 20, the tube is released and it swings, together with the nozzle 13, back into its normal vertical position, as shown in Figure 1 and as above described.

With the use of my invention, the tube 20 is kept in one known place and is automatically closed and kept closed at all times, except when the contents of the tube are dispensed therefrom, and there is no possibility of the tube being lost or laid down with its cap off and the contents of the tube exposed to dirt and germs from the atmosphere.

In the modification of my invention shown in Figures 5 and 6, the construction is the same as above described, except that the nozzle 13 is eliminated and a split band clamp 23 is substituted for said nozzle, which clamp is formed with a pair of diametrical trunnions 24, journaled in the lower ends of the yoke arms 12, and with a pair of lugs 25 and 26 outstanding from the clamp ends respectively, through which lugs extend a thumb screw 27 threaded in the lug 26.

Upon removing the cap of the tube 20, the upper end of the tube is clamped in the clamp 23 by turning the screw 27, so that upon releasing the tube it will swing into a vertical position and the upper end of its nipple 21 will engage and be closed by the lower spring member 11, as shown in Figure 5. Upon swinging the tube upwardly, its nipple 21 will disengage said spring

member 11 and the contents of the tube may be extruded and dispensed from the tube in the usual manner.

I claim:

1. A dispenser as disclosed, comprising a supporting bracket, a flat spring and an inverted yoke supported on said bracket, a dispensing nozzle inversely pivoted in said yoke, said nozzle being formed with an outlet bore and with a threaded socket communicating with said bore, the said socket adapted to receive the threaded nipple of a tube of merchandise, the said tube depending from said nozzle and by gravity to normally maintain the outlet end of the nozzle in spring engagement to close the outlet.

2. A dispenser as disclosed, comprising a supporting bracket, a resilient U-shaped flat spring having one of the U portions secured to said bracket, an inverted yoke carried by the bracket and straddling a portion of the U-shaped flat spring, and a dispensing nozzle inversely pivoted in said yoke and adapted to have its outlet end in engagement with a member of said U-shaped spring when said nozzle has attached thereto a tube of merchandise depending from said nozzle.

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