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2,660,339

DISPENSER FOR COLLAPSIBLE TUBES

Filed Jan. 22, 1951

2 Sheets-Sheet 1

Fig. 1.

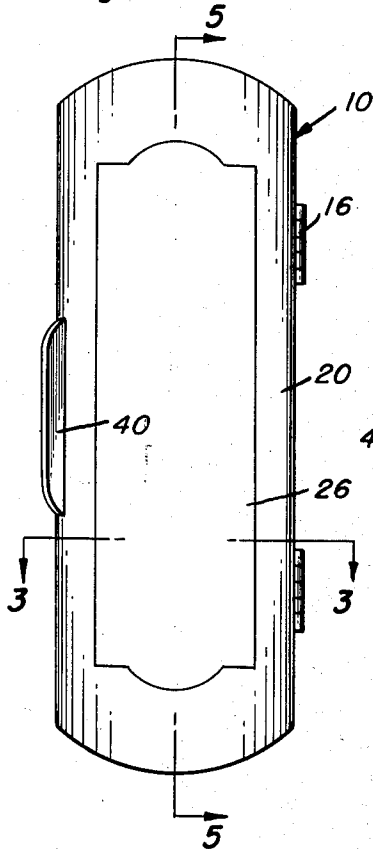


Fig. 2.

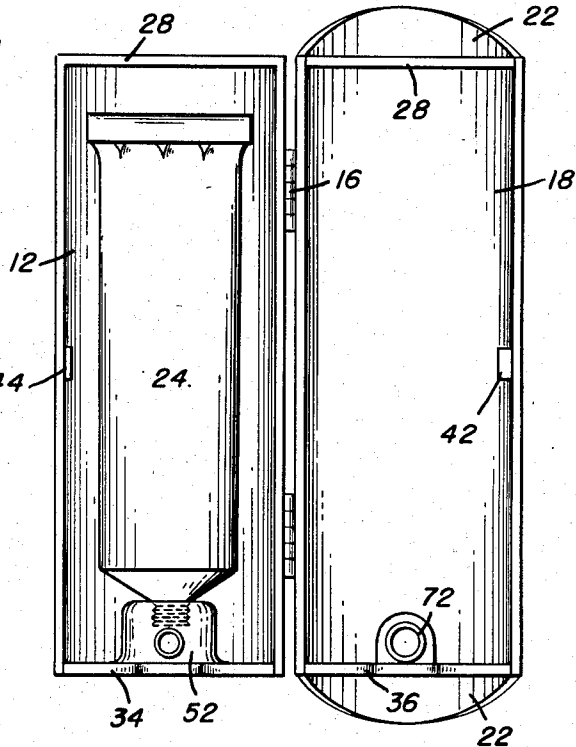


Fig. 3.

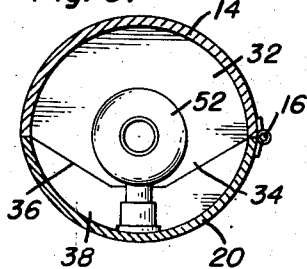
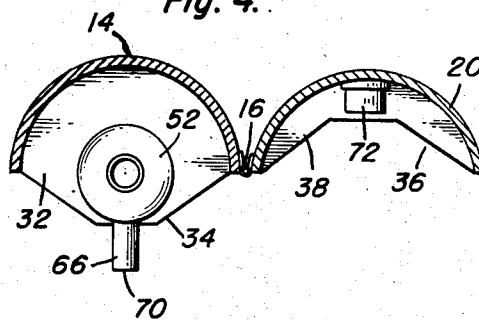


Fig. 4.



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Fig. 5.

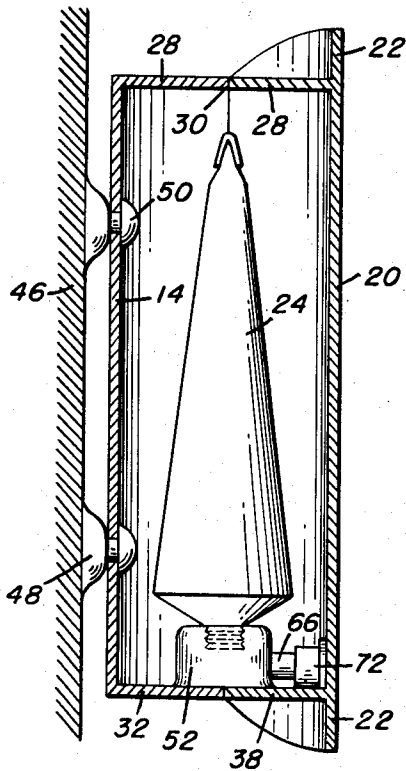


Fig. 6.

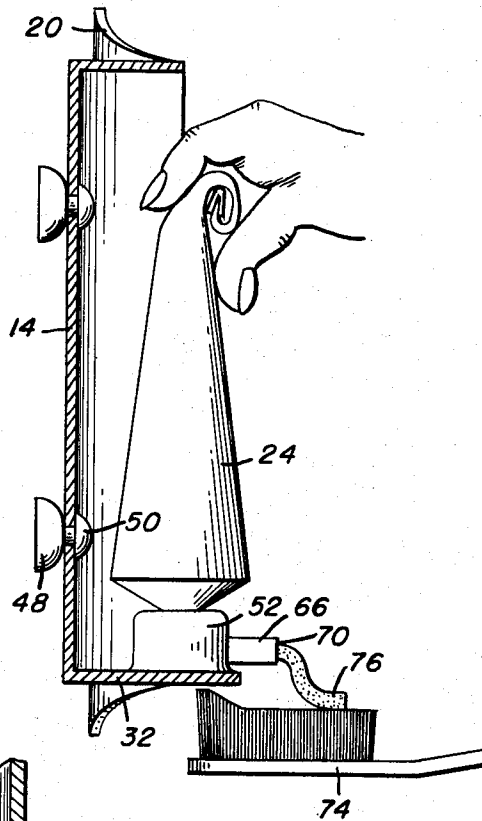
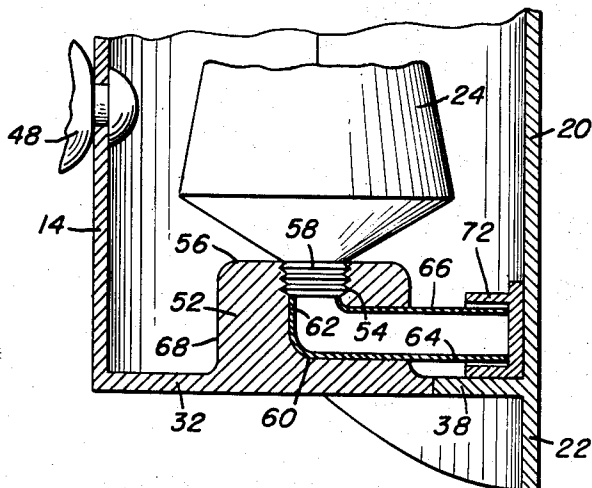


Fig. 7.

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UNITED STATES PATENT OFFICE

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DISPENSER FOR COLLAPSIBLE TUBES

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1 Claim. (Cl. 222—105)

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This invention relates to a container for supporting a collapsible tube of tooth paste, shaving cream, and similar viscous fluids.

The primary object of this invention is to provide a container of the character described which is relatively simple in design and construction, attractive, very easy to suspend upon a supporting wall, and very easy to operate.

Another important object of this invention is to provide a container of the character described which can replace the usual tooth paste or shaving cream carton and can be sold with the collapsible tube and contents thereof as an attractive and useful advertising item.

An important feature of the invention is the provision of a two-piece container having a back portion and a complementary door portion hinged thereto with a means carried by the door portion for capping the collapsible tube and preventing further dispensing of the fluid contents thereof immediately upon the closing of the door portion on the back portion.

These, together with various ancillary objects and features of the invention which will later become apparent as the following description proceeds, are attained by the device, a preferred embodiment of which has been illustrated by way of example only in the accompanying drawings, wherein:

Figure 1 is a front elevational view of the device;

Figure 2 is a front elevational view of the device illustrating the open position thereof;

Figure 3 is a sectional view taken substantially on the plane of section line 3—3 of Figure 1;

Figure 4 is a view similar to Figure 3 and illustrating the open position of the device;

Figure 5 is a sectional view taken substantially on the plane of section line 5—5 of Figure 1;

Figure 6 is a view similar to Figure 5 and showing the open position of the device; and

Figure 7 is a fragmentary enlarged vertical sectional view of the bottom portion of the device.

Specific reference will now be made to the drawings. In the several views in the accompanying drawings and in the following specification reference characters indicate corresponding elements throughout.

The device is generally indicated at 10 and includes an elongated back member 12 having an arcuate wall 14. Hinged as at 16 to one edge of the back member for movement in a horizontal plane is a front member or door 18 having an arcuate wall 20 of approximately the same degree of curvature as the rear arcuate wall 12. The

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upper and lower ends of the front member or door have arcuate extensions 22 to lend a more attractive appearance thereto and it will be noted that the over-all length of the casing comprising the two hinged members is somewhat larger than the collapsible tube 24 retained therein so that the casing or container can effectively replace the conventional carton employed for the boxing of such commercial items as tooth paste, shaving cream, and the like. The outer surface of the curved wall 18 of the front or door member is provided with a panel portion 26 which may receive printed matter to identify the name of the product and the manufacturer, and it is contemplated that both hinged members will be fabricated of suitably colored plastics.

At their top edges, the front and back members are provided with laterally extending, preferably semi-circular ledges 28 which have inner edges 30 that abut each other when the front member 18 is held in a closed position upon the rear member 12 as shown clearly in Figure 5. At the bottom end of the rear member a laterally extending base plate 32 is provided which is tapered to form a tongue 34 that is received in a groove 36 provided in a laterally extending base member 38 provided at the bottom end of the front member 18 above the extension 22. Thus when the front member is retained in a closed position on the back member, the edges of the ledges 28 abut each other and the tongue 34 is fully engaged in the groove 36 as shown clearly in Figures 3 and 5. The front member is further provided with a suitable handle 40 which includes an inwardly extending spring latch 42 adapted to engage a suitable keeper 44 carried by the back member 12 so that the front member 18 can be retained in a fairly secure but yieldable closed position on the rear member 12. The rear member may be supported upon a supporting wall 46 by any suitable means but preferably by suction cups 48 secured as by rivets 50 in vertically spaced relation on the arcuate rear wall 14 of the rear member 12.

The base member 32 of the rear member is provided with an upstanding boss or adapter 52 which is provided with an internally threaded aperture 54 opening through the top edge 56 thereof, the externally threaded neck portion 58 of the tube 24 being engaged in the threaded aperture to vertically support the collapsible tube in the casing as shown clearly in the drawings. Secured in the boss or adapter, by any suitable means, is a substantially L-shaped tube or conduit 60 the vertical leg 62 of which opens into

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the threaded aperture 54 in the boss while the horizontal leg 64 of which includes a portion 66 that extends through the side walls 68 of the boss and is open at its free end to provide a fluid dispensing spout 70.

The base member 38 of the door or front member 18 is provided with an inwardly and laterally extending collar or cap 72, preferably fabricated of rubber, which may also be secured to the inner surface of the curved wall 18 and which is larger in diameter than the L-shaped dispensing tube or conduit 60 as shown particularly in Figure 7.

In use, the back member is properly positioned upon a supporting wall 46 by the rubber suction cups 48 and the front member or door is thrown into the open position. The metal or plastic cap normally threaded upon the threaded neck portion 58 of the collapsible tube 24 is removed and the neck portion 58 is threaded in the threaded aperture 54 of the boss or adapter 52 to support the tube vertically in the casing. If the collapsible tube contains tooth paste, as illustrated in the drawings, a conventional tooth brush 74 is held in proper position under the spout 70 and the tube is squeezed or rolled as illustrated in Figure 6 to dispense the fluid contents 76 therefrom upon the toothbrush. After a sufficient amount of the fluid contents has been dispensed, the front member or door 18 is closed upon the supported back member and when the inner edges 30 of the upper ledges 28 abut and the tongue 34 is fully received in the groove 36, the collar or cap 72 will embrace the horizontal leg 66 of the dispensing conduit 60 and automatically closed off the spout 70 as shown clearly in Figure 7.

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.

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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 dispenser for a collapsible tube comprising a casing including a back member having an open front and a horizontal base plate, said casing further including a front closure member for the back member hinged on said back member for opening movement, a boss rising from said base plate and having a top threaded opening for attachment of the neck portion of a collapsible tube therein for securing said tube in vertical inverted position in said back member and above said base plate, an L-shaped dispensing tube fixed in said boss with a vertical leg aligned with said opening and a horizontal leg extending forwardly above said base plate out of the open front of said back member, and means carried by said closure member for closing the horizontal leg when said closure member is closed, said base plate and boss extending out of said open front to facilitate attachment of said neck portion in said threaded opening.

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