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2,174,643

COMBINATION COLLAPSIBLE TUBE HOLDER AND DISPENSER

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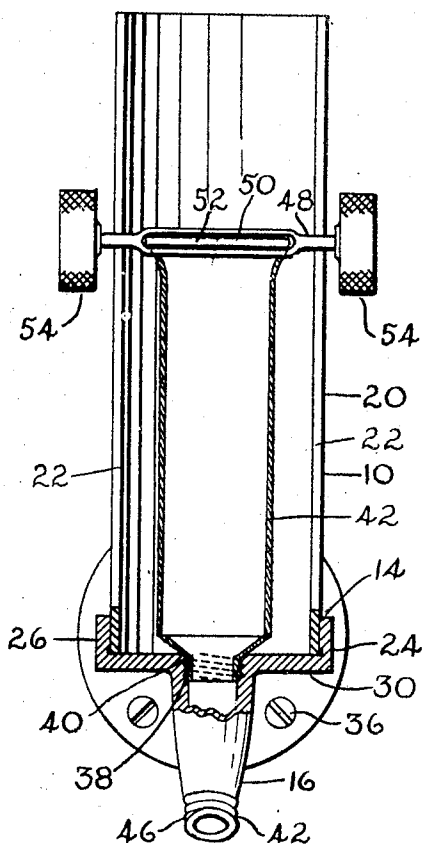


FIG. 1

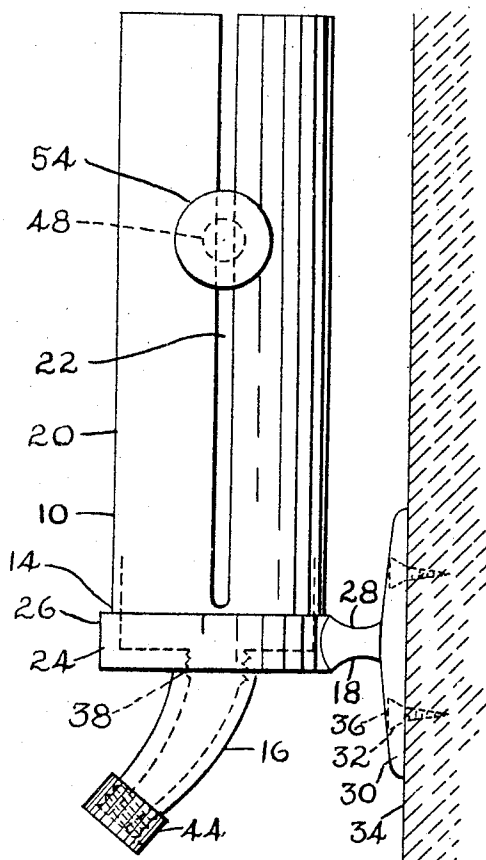
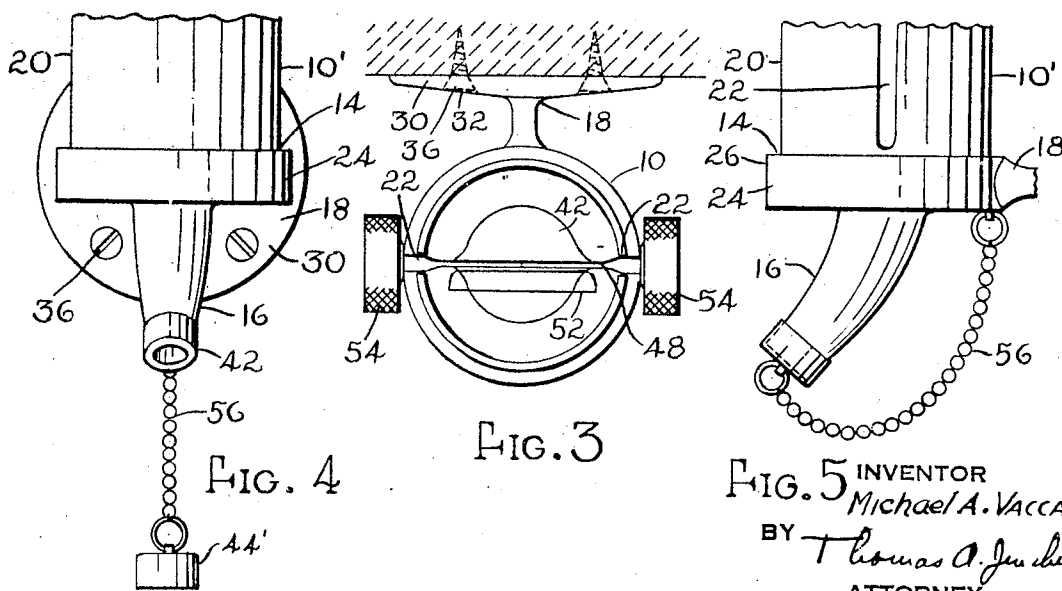


FIG. 2



UNITED STATES PATENT OFFICE

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COMBINATION COLLAPSIBLE TUBE HOLDER
AND DISPENSER

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1 Claim. (Cl. 221—60)

My invention relates to improvements in combination collapsible tube holders and dispensers.

Objects of my invention are to provide a novel type of collapsible tube holder which may be permanently secured to a vertical surface adjacent the place where the collapsible tube is to be used, which is adapted for use particularly in dispensing plastic substances for personal use from said dispenser, such as shaving cream, tooth paste, etc., constructed with a minimum number of parts easy to operate, said collapsible tube being easily replaceable as the contents are used up, which employs a spout construction employing a closure for the spout to keep the spout at all times closed when not in use to positively prevent caking of the plastic substance dispensed within the spout and which is so constructed so as to permit the use of the collapsible tube cap as the cap for the spout if desired.

These and such other objects of my invention as may hereinafter appear will be best understood from a description of the accompanying drawing which illustrates various embodiments thereof.

Fig. 1 is a front elevation of an embodiment of a combination collapsible tube holder and dispenser constructed in accordance with my invention, a portion thereof being shown in section.

Fig. 2 is a side elevation of the embodiment shown in Fig. 1 attached to a vertical surface.

Fig. 3 is a plan view of said embodiment.

Fig. 4 is a front elevation of the lower portion of an alternative embodiment of my invention employing a different type of cap for the dispensing spout.

Fig. 5 is a side elevation of the parts of the embodiment of my invention shown in Fig. 4.

In the drawing, wherein like characters of reference generally indicate like parts throughout, 10 generally indicates a combination collapsible tube holder and dispenser constructed in accordance with my invention. Said device includes a holding member 14 for the collapsible tube base, said holding member having a spout 16 depending therefrom and means 18 to detachably secure said holding member to a vertical surface. In the embodiment shown, said holding member 14 comprises a container having side walls 20 having diametrically opposite slitted portions 22 therein and a base 24 having a spout 16 depending substantially centrally therefrom. The base 24 comprises a disc as shown having side walls 26 projecting upwardly for a distance therefrom and the side wall portion 20 of said container comprises a tube fitting within said

walls of said disc and have the diametrically opposite slitted portions 22 therein. The means 18 for detachably securing said holding member to a vertical surface may comprise the arm 28 terminating in a plate 30 having holes 32 therein so that said plate may be detachably secured to a vertically extending surface 34 by means of the screws 36. The spout 16 is provided with an internally threaded upper end 38 of a size to detachably receive the externally threaded neck 40 of a collapsible tube so that the tube 42, when said neck is secured within said threaded portion, may extend vertically upwardly within said container 14.

A cap 44 is provided for the dispensing tip 42 of said spout 16. In the preferred embodiment shown, for this purpose the dispensing tip is of a size and is externally threaded as at 46 to receive the cap 44 removed from the collapsible tube thereon.

As means for extracting the plastic material from the collapsible tube by collapsing the collapsible tube 40 within said container, I provide a rod 48 extending horizontally through said diametrically opposite slotted portions 22 having an axially extended slot 50 therein for threading the collapsible end 52 of the collapsible tube therein. Means are provided exterior of said container for evenly rotating said rod 50 to collapse said collapsible tube to dispense the contents thereof through said spout 16, winding the collapsed body of the collapsible tube around said rod.

In my preferred embodiment, said means comprise the knurled nuts 54 mounted on the ends of said rod 50 exterior of said container. It is apparent, however, that any other type of means operable from without the container to collapse the contents thereof may be employed or that if desired such means and the side walls 20 of said container may be dispensed with and the tubes permanently retained in position in and extending vertically upwardly from said base 14 may be collapsed by hand.

As stated, a main feature of my invention is the provision of a cap 44 for the end of the spout 16, which may comprise the usual cap 44 removed from the collapsible tube, which will positively prevent the access of air to within the spout 16 to positively prevent caking of the plastic material being dispensed within said spout.

I have shown in Figs. 4 and 5 an alternative type of friction cover 44' for the tip of said spout 16 which comprises a tubular member having a closed end adapted to frictionally fit over the

end of the spout 16. Whether a cap 44 of the internally threaded type or a cap 44' of the friction type be employed, I may, if desired, as shown in Figs. 4 and 5 provide cord means 56
5 such as a chain shown permanently securing said cover 44' to said holding member or container.

It is apparent, therefore, that I have provided an improved combination collapsible tube holder and dispenser of a simple number of easily manu-
10 factured and easily operable parts with the advantages explained above.

It is understood that my invention is not limited to the specific embodiments shown and that various deviations may be made therefrom without departing from the spirit and scope of the
15 appended claim.

What I claim is:

In a combination collapsible tube holder and dispenser, a flat supporting base having an up-
20 standing continuous lip at the outer edge thereof and having a spout depending substantially cen-

trally therefrom, said spout having an internally threaded upper end of a size to detachably receive the externally threaded neck of a collapsible tube so that said tube may extend upwards, and a dispensing tip, externally threaded and of a
5 size to receive the cap removed from the collapsible tube, and a casing having the lower end of the contour and slightly less than the size of said lip resting on said support and surrounded by said lip, said casing having diametrically op-
10 posite slotted portions, and means to rigidly secure said supporting base to a vertical surface, a rod extending horizontally through said diametric slots having an extended slot for threading the collapsible end of a collapsible tube there-
15 in and means exterior of said casing for evenly rotating said rod to collapse said collapsible tube to dispense the contents thereof through said spout.

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