Nov. 8, 1932. M. L. ANGELINI 1,886,514

COLLAPSIBLE TUBE CAP

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Fig. 1.

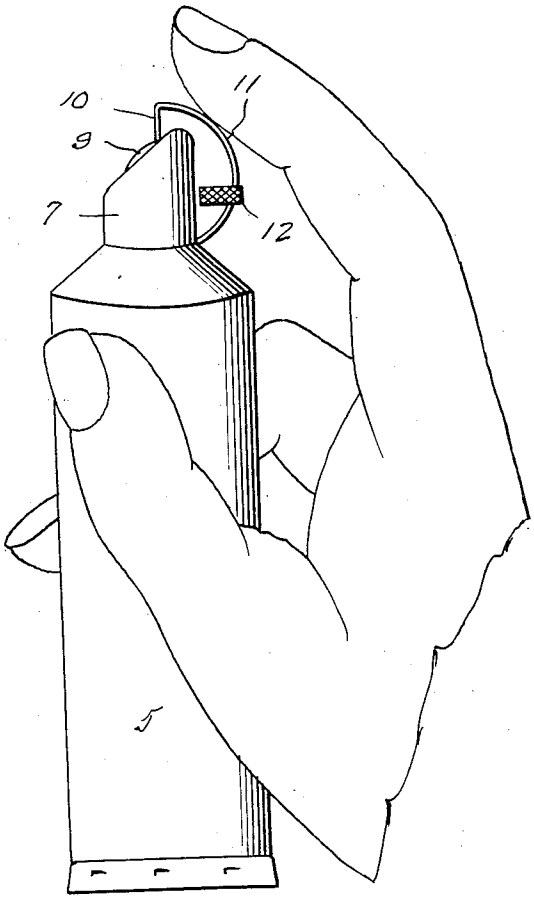


Fig. 4.

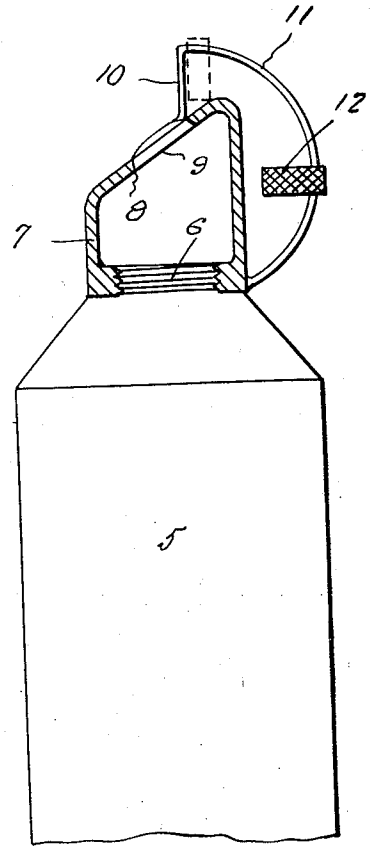
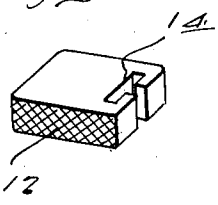


Fig. 6



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Fig. 2.

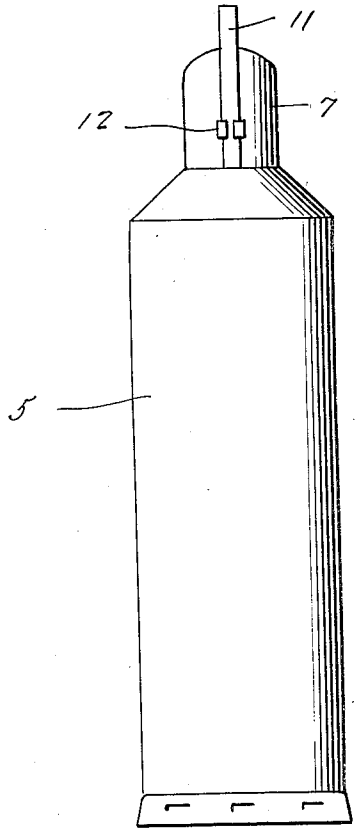


Fig. 3.

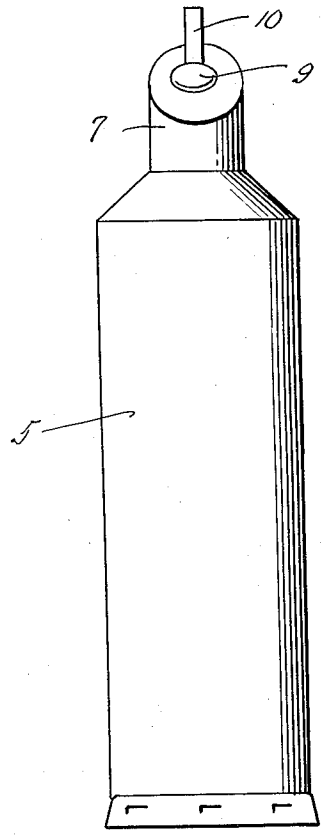
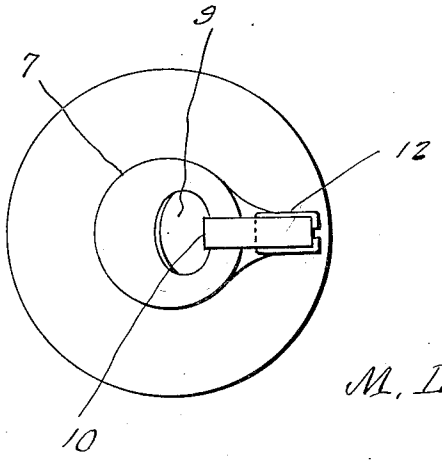


Fig. 5.



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UNITED STATES PATENT OFFICE

MENTORE L. ANGELINI, OF MONTGOMERY, ALABAMA

COLLAPSIBLE TUBE CAP

Application filed March 7, 1932. Serial No. 597,391.

The present invention relates to a cap for a collapsible tube such as is used in merchandising such commodities as tooth paste, shaving cream and the like and the prime object of the invention resides in the provision of a cap whereby the contents of the tube may be squeezed therefrom without the necessity of removing the cap.

Another very important object of the invention resides in the provision of a cap of this nature having means whereby the valve thereof may be secured in a closed position against accidental opening.

A still further very important object of the invention resides in the provision of a cap of this nature which is exceedingly simple in its construction, inexpensive to manufacture, strong and durable, easy to manipulate, thoroughly efficient and reliable in use and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:

Figure 1 is a side elevation of a tube showing a cap embodying the features of my invention.

Figure 2 is a rear elevation thereof.

Figure 3 is a front elevation thereof.

Figure 4 is a vertical section through the cap.

Figure 5 is an end elevation of the cap of the tube.

Figure 6 is a perspective view of the block.

Referring to the drawings in detail it will be seen that the numeral 5 denotes a conventional collapsible tube having the threaded neck 6. Numeral 7 denotes a cap threaded on the neck 6 and provided with a valve seat opening 8 of bevel construction on which is seatable a valve 9 beveled to fit the same and openable inwardly of the cap. A valve stem 10 rises from the valve 9 outwardly of the cap and merges into a curved flat spring 11 fixed to the base portion of the cap.

Numeral 12 denotes a block having a notch 14 therein slidable on the spring 11 so that it may be placed in the dotted line position shown in Figure 4 to prevent the opening of the valve 9. By sliding the block 12 from the dotted line position shown in Figure 4 to the full line position shown in Figure 4 it will be seen that by placing the finger on the spring 11 and pressing the same downwardly the valve 9 may be opened inwardly of the cap so that the contents of the tube 5 may be easily squeezed therefrom through the valve seat opening 8.

It is thought that the construction, utility and advantages of this invention will now be clearly understood without a more detailed description thereof.

The present embodiment of the invention has been described in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

1. A cap for a collapsible tube threadably engaged therewith having a valve seat opening, a valve associated with said opening and openable inwardly of the tube, a spring engaged with said valve and attached to said cap exteriorly thereof to normally hold the valve closed, and a block slidably mounted on the spring and capable of being disposed in a position adjacent the valve to prevent flexing of the spring to open the valve.

2. In a collapsible tube cap of the class described having a valve seat opening, a valve associated with the seat and being beveled to open inwardly of the cap, a stem rising outwardly from the valve and merging into an arcuate spring attached to the exterior of the cap, and a block slidable on the spring and adapted to be disposed adjacent the stem to

prevent flexing of the spring to open the valve.

3. In a collapsible tube cap of the class described having a valve seat opening, a valve associated with the seat and being bevelled to open inwardly of the cap, and a stem rising outwardly from the valve and merging into an arcuate spring attached to the exterior of the cap.

In testimony whereof I affix my signature.

MENTORE L. ANGELINI.