

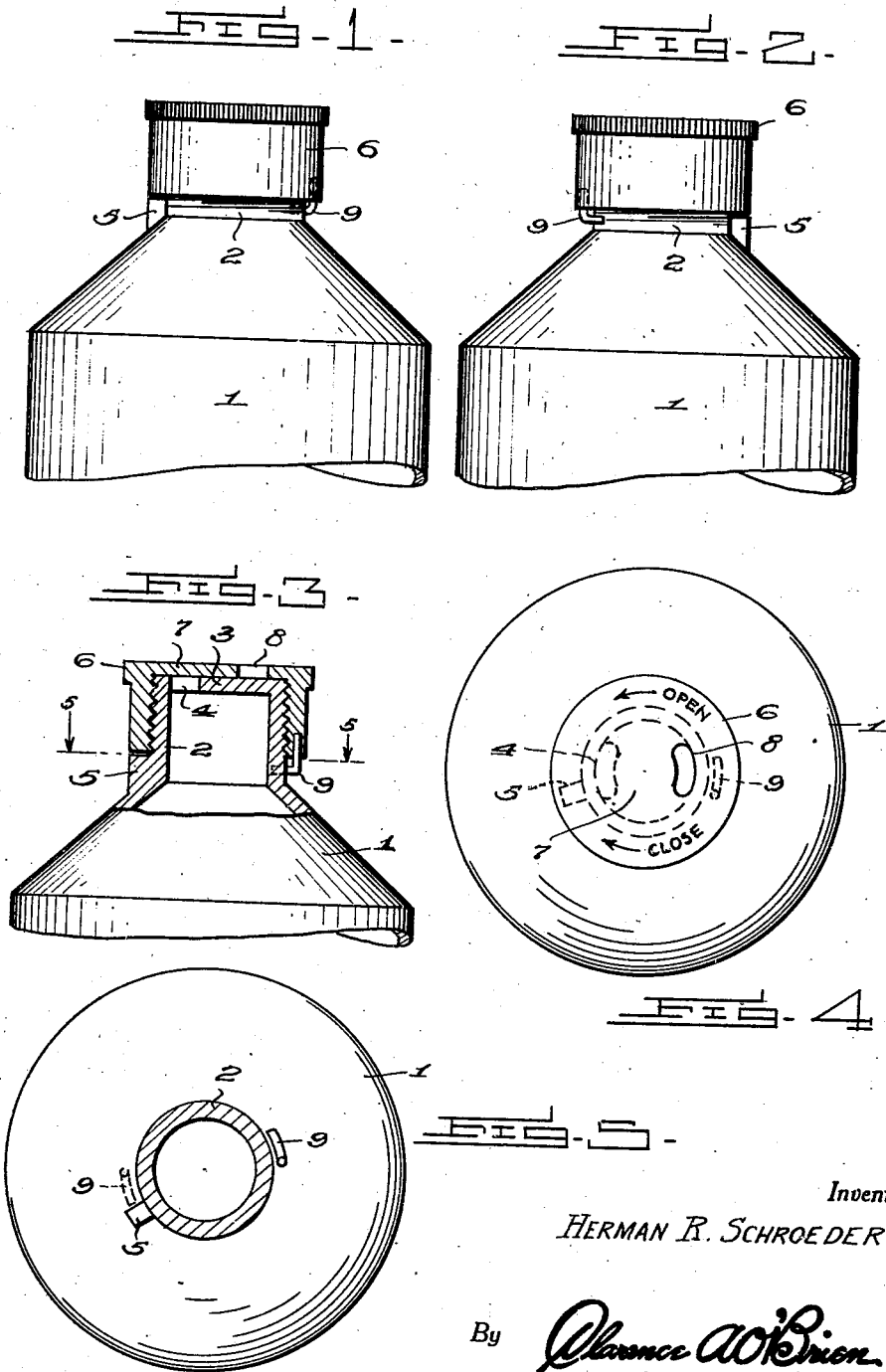
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CLOSURE FOR COLLAPSIBLE TUBES

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CLOSURE FOR COLLAPSIBLE TUBES

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1 Claim. (Cl. 221-60)

My invention relates to collapsible tubes and more particularly to improvements in closures therefor.

The invention is designed with the particular object in view of equipping such tubes with a screw tight closure cap permanently attached to the neck of the tube and adapted under rotation thereof to open and close the latter and for screwing down tight in the closing position thereof to hermetically seal the tube.

To the accomplishment of the above, and subordinate objects presently appearing, a preferred embodiment of my invention has been illustrated in the accompanying drawing, set forth in detail in the succeeding description and defined in the claim appended hereto.

In said drawing:

Figure 1 is a view in side elevation illustrating a portion of a collapsible tube equipped according to my invention and looking at one side thereof.

Figure 2 is a similar view looking at the opposite side thereof.

Figure 3 is a view similar to Figure 1 and partly in longitudinal section.

Figure 4 is a view in top plan.

Figure 5 is a view in transverse section taken on the line 5-5 of Figure 3 looking in the direction indicated by the arrows.

Referring to the drawing by numerals, 1 designates the body of the usual collapsible tube which, according to my invention, is equipped with an externally threaded neck 2 closed at its outer end by a web 3 with the exception of a relatively small suitably shaped discharge aperture 4 provided in said web 3 adjacent one side of the neck 2. On the same side of the neck 2 as the aperture 4, a laterally extending external lug 5 is provided on said neck adjacent the base thereof. A closure cap 6 is threaded onto the neck 2 to be screwed down tight on said neck with its closed end 7 tight against the web 3 and its open end slightly clearing the lug 5. The closed end 7 of the cap 6 has formed therein a discharge opening 8 similar in size and shape to the opening 4 and adapted to be moved into and out of registration with the latter to open and close the tube under rotation of the

cap 6 in opposite directions. A finger-like slightly curved stop 9, preferably of resilient material, is suitably secured at one end in the rim of the open end of the cap 6 to extend beyond said rim and engage one side of the lug 5 when the cap 6 has been rotated sufficiently to move the opening 8 into registration with the opening 4. The arrangement of the described parts is such, that the opening 8 is moved into registration with the opening 4 by unscrewing the cap 6 and further unscrewing movement of said cap is blocked by engagement of the stop 9 with the lug 5. At the same time the cap 6 may be applied to the neck 2, the stop 9 wiping over lug 5 under screwing of the cap 6 onto said neck.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention without further explanation.

Manifestly, the invention as described, is susceptible of modification without departing from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the subjoined claim.

What I claim is:

A collapsible tube comprising a neck having a web extending across the outer end thereof provided with a discharge aperture therein offset from the axis of said neck, said neck having an external lug at the base thereof, a cap for said neck having a closing end provided with a discharge aperture therein adapted to mate with said aperture in said web, said cap being threaded onto the neck for feeding movement inwardly and outwardly thereon to locate the aperture in the closing end thereof into and out of mating position relative to said aperture in said web, and a stop finger extending from the other end of said cap for engagement with said lug under feeding movement inwardly of the cap and in the mating position of said apertures, said cap being operative to oppose the closing end thereof flat against the web of said neck under feeding movement inwardly thereof and while said apertures are out of mating position, and said finger being flexible to wipe past said lug under feeding movement of the cap outwardly whereby said cap may be detached.

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