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J. S. CLARK

2,463,152

CAP FOR COLLAPSIBLE TUBES

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FIG. 1

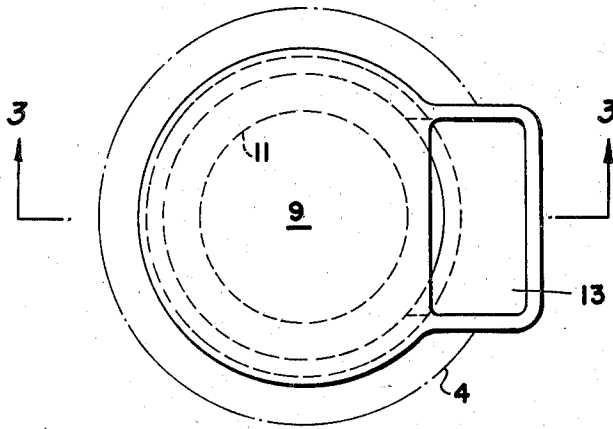


FIG. 2

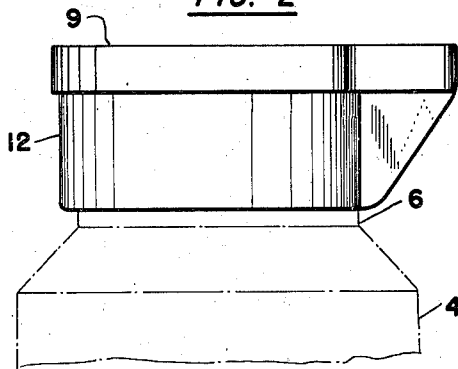


FIG. 3

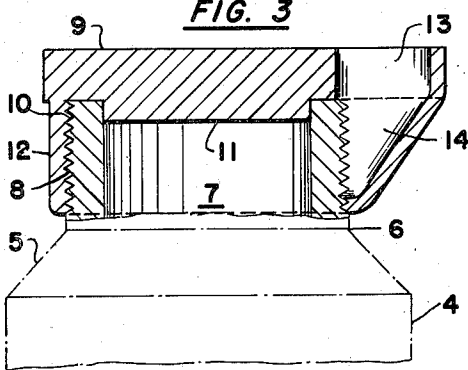
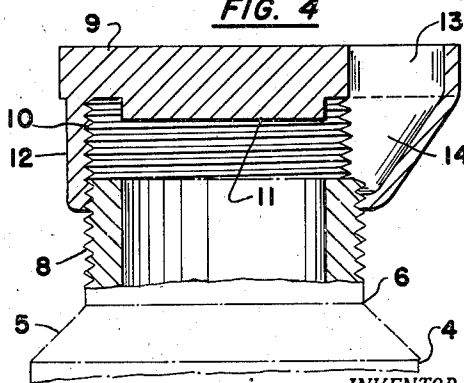


FIG. 4



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CAP FOR COLLAPSIBLE TUBES

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1 Claim. (Cl. 222—520)

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My invention relates to caps or closures for collapsible tubes and has for its object to provide an efficient device which will enable the tube to be easily opened and closed without removing the closure.

A further object of the invention and a very important one is to provide a closure with an opening located at a point of least resistance so that when pressure is applied to the tube the contents will flow freely.

A still further object of the invention is to provide a closure which conforms to the present day closure and which costs no more to produce. This is a decided advantage, especially from the view point of the manufacturer.

A preferred embodiment of the invention herein disclosed consists of a cap constructed for attachment to the nozzle of a collapsible tube and provided with an opening which extends thru the cap, passing along side of the seal and thru several threads on the inner side of the cap and in close proximity to the top.

With this and other objects of my invention in view, I hereby describe the invention shown in the drawings.

In the drawings:

Fig. 1 is a plan view of the cap.

Fig. 2 is a perspective view.

Fig. 3 is a cross sectional view of a tube and cap showing the cap in place to seal the tube.

Fig. 4 is a view similar to Fig. 3 but showing the cap displaced so as to permit the contents of the tube to be discharged.

Referring to the drawings, the body of the tube is designated at 4, the body being constructed of any suitable material. The tube terminates at the nozzle end in a conical portion 5, this conical portion in turn terminates in a nozzle 6. The nozzle is provided with a central orifice 7 thru which the contents of the tube is expelled and on its external surface are formed screw threads 8.

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The cap 9 is internally threaded as at 10. At one side the cap has an opening 13 which extends thru the cap and along side of the seal 11 and thru a number of the cap threads as at 14.

When the cap is screwed down the sealing projection 11 enters the orifice 7 in the nozzle 6 making it air tight. When the cap is reversed the seal 11 leaves the orifice 7 and when the tube 4 is compressed the contents will flow thru that side of the cap where the threads have been eliminated as at 14 and out of the opening 13. While I show the opening at the top of the cap, I do not wish to be limited to this position, as the opening may be placed at the side as well.

Having described my invention, I claim as new and desire to secure by Letters Patent:

A closure for collapsible tubes comprising a threaded nozzle and having a central bore or passage way thru the nozzle, a cap having a top portion and an annular threaded flange portion engaging the threaded nozzle, a central sealing projection on the top portion projecting into the bore of the nozzle when the tube is closed and thereby sealing the tube, and a discharge aperture passing thru the top of the cap and along-side of the central sealing projection and thru a portion of the threads of the cap.

JOSEPH S. CLARK.

REFERENCES CITED

The following references are of record in the file of this patent:

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