

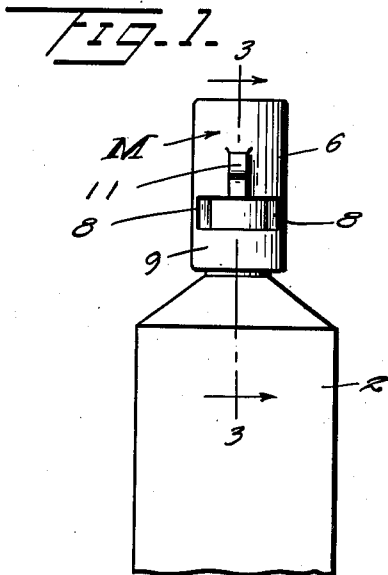
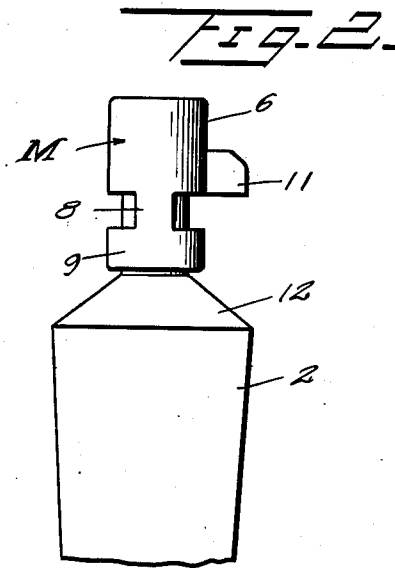
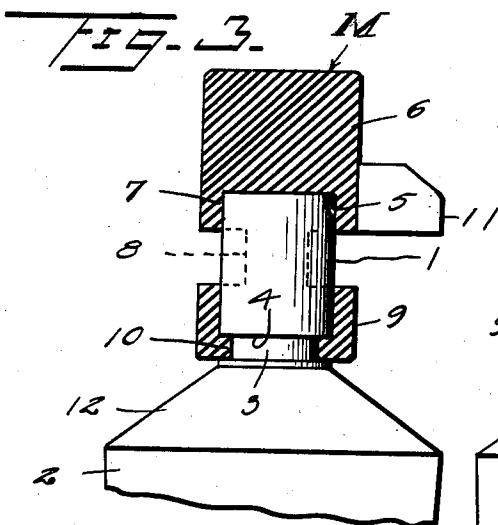
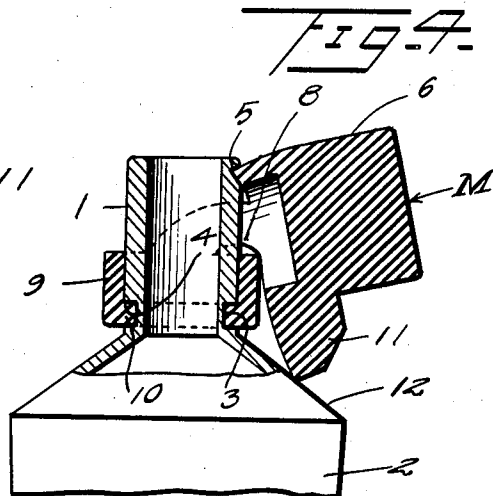
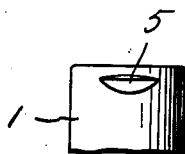
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CLOSURE MEMBER

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CLOSURE MEMBER

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1 Claim. (Cl. 221—60)

This invention relates to a closure member and has relation more particularly to a closure member for a discharge nozzle or tube of the type used in connection with a collapsible container for material such as shaving and dental creams.

The invention has for an object to provide a closure member of this kind which is not readily lost and which serves to effectually close the nozzle or tube of the container and in a manner to maintain such closed container in a sanitary condition.

Another object of the invention is to provide a device of this kind of a rubber compound or the like which can be readily produced as a unit for placement upon a discharge tube or nozzle.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved closure member whereby certain important advantages are attained and the article rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein—

Figure 1 is a view in elevation illustrating a closure member constructed in accordance with an embodiment of my invention;

Figure 2 is also an elevational view of my improved closure member but at a quarter turn to Figure 1;

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

Figure 4 is a view similar to Figure 3 but showing the closure member in open adjustment;

Figure 5 is a fragmentary elevational view of the outer end portion of the discharge tube or nozzle of the collapsible container.

As disclosed in the accompanying drawing, 1 denotes a discharge tube or nozzle for a collapsible container 2 or the like such as used in connection with shaving and dental creams. This nozzle 1 is of metal or other rigid material and has its inner portion provided therearound with a peripheral groove 3 providing a downwardly or inwardly facing radiating shoulder 4. The nozzle 1 adjacent to its outer or open end is also provided in its periphery with a depression 5 for a purpose to be hereinafter more particularly referred to.

My improved closure member M as herein embodied, comprises a cap member 6 of desired dimensions and preferably formed of a rubber compound possessing requisite strength.

The inner end of this cap 6 is provided with a socket or recess 7 which snugly receives the outer end portion of the tube or nozzle 1 as particularly illustrated in Figure 3 whereby the outer end of the tube or nozzle 1 is effectively closed. The inner end of the cap 6 is connected at diametrically opposed points by the elastic straps 8 preferably formed integral with the cap 6 and which straps are also connected, preferably integrally, with the collar 9 of the same material as the cap 6. This collar 9 at its lower end is formed therearound with an inwardly facing continuous lip or flange 10 which is snugly received within the groove 3 after the collar 9 has been properly placed upon the tube or nozzle 1. This flange or lip 10 coacts with the shoulder 4 to effectively hold the closure device as a unit in applied position upon the tube or nozzle 1.

The straps 8 serve to tightly hold the cap 6 in closing position upon the tube or nozzle 1 yet these straps possess sufficient resiliency to allow the cap 6 to be pulled to one side of the tube or nozzle 1 when it is desired to discharge the content of the container 2 as particularly illustrated in Figure 4.

To temporarily hold the cap 6 in its open position, the inner marginal portion thereof is caused to be received within the depression 5. However, when it is desired to return the cap 6 to its closed position it will require but little pressure to free the same from this depression.

It is also important that means be provided to limit the extent of opening movement of the cap 6, or the extent of lateral movement of such cap 6 with respect to the tube or nozzle 1. In the present embodiment of my invention the inner portion of the cap 6 at a point substantially midway of the straps 8 is formed to provide an outstanding lug 11 and which lug 11 by contacting with the adjacent end or head 12 of the container 2 limits the extent of opening movement of the cap 6 as is clearly illustrated in Figure 4 of the drawing.

From the foregoing description it is thought to be obvious that a closure member constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and used, and it will also be obvious that my invention is susceptible of some change and modifica-

tion without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts
5 herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:

10 In combination with a discharge nozzle for a collapsible tube, said nozzle having a peripheral groove in its inner portion and a depression in its periphery adjacent to its outer or open end, a closure member for said discharge nozzle comprising a collar surrounding the nozzle, said col-

lar being provided with an inwardly disposed flange extending within the groove, a cap for the outer open end of the nozzle, the inner end of the cap having a socket snugly receiving the outer
5 open end of the nozzle, spaced elastic straps connecting the collar and the cap, said straps holding the cap in applied position but stretching sufficiently to allow the cap to be moved to one side of the nozzle, the inner marginal portion of the cap between the straps engaging within the
10 depression for holding the cap in its position to one side of the nozzle.

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