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LIQUID APPLICATOR

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Fig. 1.

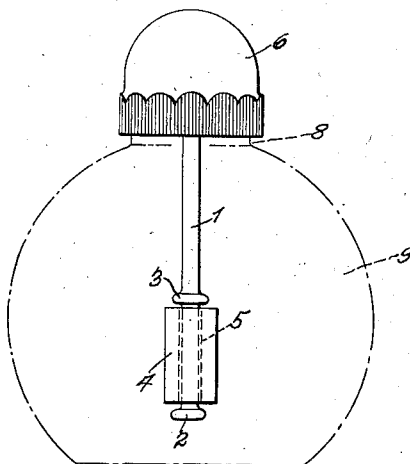
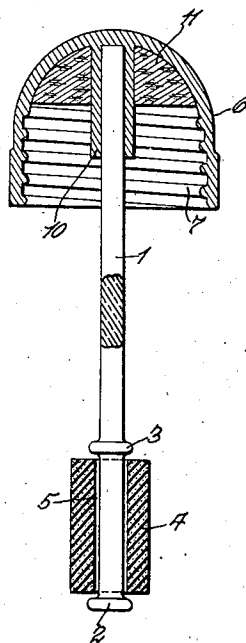


Fig. 2.



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LIQUID APPLICATOR

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Application March 4, 1935, Serial No. 9,355

1 Claim. (Cl. 128—269)

This invention relates to liquid applicators, and has special reference to devices for applying a liquid deodorant to the human body.

An object of the invention is to provide an improved liquid applicator comprising a stem composed of glass, or other non-corrodible material, having a pair of spaced circumferential flanges, one of which is at the inner end of the stem and the other of which is spaced from the inner end, in combination with a body of elastic absorbent material, such as sponge rubber or the like, mounted on the stem between said flanges and being rotative about the stem in order to bring substantially all parts of the outer surface thereof into contact with the human body without rotating the stem.

Another object of the invention is to provide an applicator embodying the features mentioned in the last preceding statement, in combination with a closure of novel construction for a bottle, said closure being in rigid connection with the outer end of the stem.

Other objects of the invention will be apparent from the following description, reference being made to the annexed drawing, in which—

Fig. 1 is a side elevation of my improved applicator mounted in connection with the bottle that is shown in broken lines.

Fig. 2 is an enlarged longitudinal sectional view of the applicator.

The stem 1 is composed of glass, or other non-corrodible material, and has a circumferential flange 2 integral with its inner end and a circumferential flange 3 spaced from the flange 2. Excepting for the flanges 2 and 3, the stem is of approximately uniform diameter throughout its length.

A body 4 of elastic absorbent material, such as sponge rubber or the like, is formed with an axial hole 5 therethrough and said body is mounted on the stem 1 between the flanges 2 and 3. The body 4 is of less length than the space between the flanges 2 and 3, so that said flanges do not apply pressure against the ends of said body 4. The hole 5 has a diameter equal to or greater than the diameter of the stem 1, so that said body is not expanded by the stem and there is not sufficient frictional resistance to prevent the body 4 from rotating about the stem when said body is applied to the human body and moved in a direction to cause rotation of said body 4. Thus, substantially all portions of the outer surface of said body will be brought into contact with the human body when the device is operated in the manner indicated and this is effected without ro-

tating the stem 1. As a consequence, more of the liquid solution or deodorant contained on the body 4 will be applied to the human body than by devices in which the absorbent member is not rotative about the supporting stem.

A hollow cylindrical dome shaped closure 6 has its open end provided with internal threads 7 adapted to be screwed onto the neck 8 of a bottle 9 containing a liquid deodorant, or other liquid preparation. The closure 6 has a tubular socket 10 integral with its end wall and extending toward the open end of the closure coaxially with the cylindrical portion of the closure. The outer end of the stem 1 extends into the socket 10 and is held therein by frictional engagement of the parts or by means of adhesive, or otherwise, as desired. A body 11 of elastic material, such as cork or the like, is mounted in the closed end portion of the closure 6 beyond the threads 7 and is compressed in the dome shaped end of the closure and about the socket 10. The elastic body 11 is designed and adapted to seat against the end of the bottle neck 8 to provide a leakproof joint when the closure is screwed onto the neck, the stem 1 with the body 4 thereon being extended into the bottle.

The device is used by screwing the closure 6 from the bottle neck, using said closure 6 as a handle and withdrawing the stem and the absorbent body 4 from the bottle, said body 4 being saturated with the liquid contained in the bottle. The absorbent body 4 is then rolled along the human body in the manner above described, causing approximately the entire outer surface of said absorbent body 4 to contact the human body. This removes from the absorbent body 4 a much greater amount of the liquid contained therein and with greater facility than in the case of devices in which the absorbent body is compressed on the rod.

The materials and the proportions thereof may be varied as desired without departure from the nature and principle of the invention.

I claim:

In a combined applicator and bottle closure, a hollow hemispherical carrier having screw threads on its interior to engage co-operating threads upon the neck of a bottle, a tubular socket integral with the hemi-spherical carrier and depending from the central interior thereof, a centrally perforated cork mounted upon the depending socket member and so shaped as to intimately engage the interior surface of the hemi-spherical carrier for sealing the mouth of the bottle when drawn into engagement therewith by the

action of the co-operating screw threads, a rod fixed in the depending socket and having an integral flange on its free end, a collar on the rod spaced a suitable distance from the flange and a
5 body of absorbent material mounted upon the rod between the flange and the collar having a central longitudinal bore therefore appreciably

greater in diameter than the diameter of the rod whereby a greater quantity of medicament is held by adhesion to the inner surface of the absorbent material and the surface of the rod surrounded thereby.

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