June 16, 1953 S. SUDBEAZ 2,641,788

COMBINED CAP AND DISPENSER FOR PERFUME BOTTLES

Filed April 22, 1950

FIG. 1.

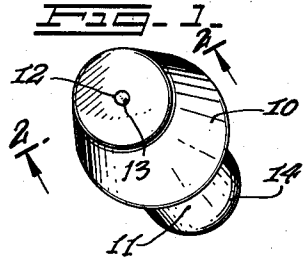


FIG. 2.

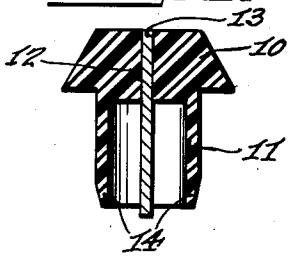


FIG. 3.

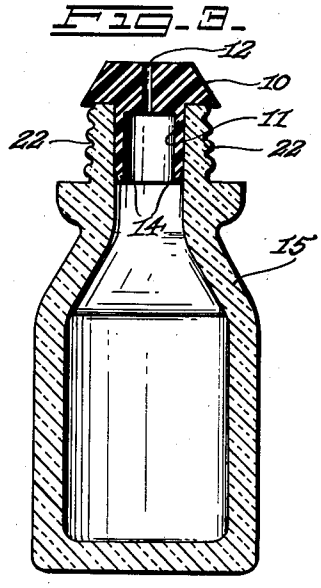


FIG. 5.

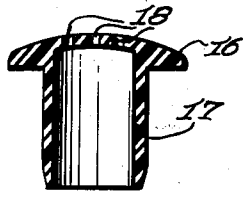


FIG. 4.

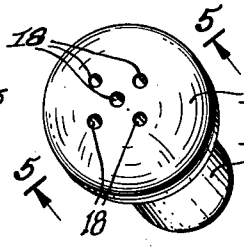


FIG. 9.



FIG. 6.

FIG. 7.

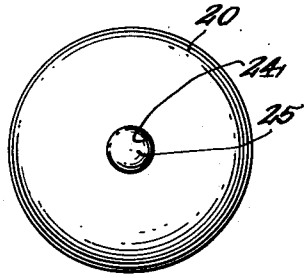
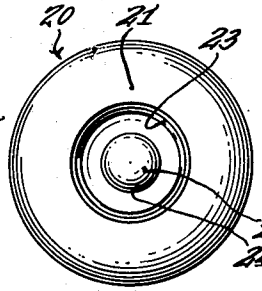


FIG. 8.



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COMBINED CAP AND DISPENSER FOR PERFUME BOTTLES

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5 Claims. (Cl. 15—132.7)

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This invention relates to a new and improved combined cap and dispenser for perfume bottles and the like.

One object of the invention is the provision of a perfume bottle cap having therein a portion adapted to be punctured to provide a dispenser for the contents of the bottle.

Another object of the invention is the provision of additional cap means fitted over said punctured cap and which is adapted to re-seal the bottle and also to allow the dispensing of minute portions of the bottle's contents simply and effectively.

Still another object of the invention is to construct both said cap means so that the same is capable of being manufactured simply and efficiently.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a perspective view of one form of the bottle cap of this invention.

Fig. 2 is a sectional view on line 2—2 of Fig. 1.

Fig. 3 is a vertical center section of a perfume bottle with the cap engaged thereon and the closure stick removed.

Fig. 4 is a perspective view of another form of the invention.

Fig. 5 is a sectional view on line 5—5 of Fig. 4.

Fig. 6 is a view similar to Fig. 3 but illustrating a combined sealing cap and dispenser engaged on the bottle.

Fig. 7 is a plan view of said combined dispenser and cap.

Fig. 8 is a view from beneath said cap and dispenser.

Fig. 9 illustrates a ball utilized in said cap and dispenser.

Referring to Figs. 1, 2 and 3, the cap of the invention comprises a frusto conical upper portion 10 from the wider end of which depends a tubular portion 11. Said tubular portion is hollow as shown and the upper portion 10 is bored vertically at 12 to connect the interior of said tubing portion with the narrower end of upper portion 10. Normally bore 12 is plugged with a stick 13. Preferably the cap is made of one of the synthetic resins or plastics but preferably of polyethylene and the peripheral end edge of tube 11 is bevelled as at 14 to facilitate inserting the same into the neck of a bottle 15 as shown in Fig. 3.

The construction is such that the tubular portion 11 fits tightly into the neck of the bottle with the upper portion of the cap abutting the rim of the bottle neck, and the bottle is tightly sealed with the bottom edge of the upper portion 10 projecting beyond the periphery of the neck of the bottle.

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The stick 13 acts in the nature of a plug to close the bore 12 prior to the time that the contents of the bottle 15 are to be used. The stick 13 has its bottom end projected from the open end of the tubular portion 11, as shown in Fig. 2, so that when the cap is removed from the bottle 15 the bottom end of the stick 13 can be gripped to be pulled from the bore 12 opening the same, as shown in Fig. 3.

A modified form of the cap is shown in Figs. 4 and 5. This form consists of a wide disc-like dome-shaped upper portion 16 from which depends a tubular portion 17 like, in all respects, the tubular portion 11 described above. Disc 16 is provided with bores 18 which can be individually plugged by separate sticks, all the same as described above. This form of cap is utilized by removing one or more of the sticks from the bores 18 in the same manner as that described hereinbefore.

The bottle 15 is a perfume bottle and contains a quantity of perfume which, as is well known, evaporates quickly once it is exposed to air. It will be seen therefore that the cap means described thus far is sufficient to protect the contents of the bottle only until the sticks are removed to gain access to said contents. Thus, the means already described serve to seal the bottle until such time as the contents of the same are to be used.

The invention further provides means which are utilized not only to seal the bottle 15 after the sticks have been removed, but also to allow the dispensation of minute quantities of the contents of the bottle.

Referring to Figs. 6, 7, 8 and 9, this means comprises a spherical bulb-like metal or plastic cap member 20 having at its base an inturned peripheral flange 21. The flange 21 is threaded to engage the threads 22 on the neck of bottle 15 and is provided with an annular notch in which is set a rubber washer 23 whose purpose it is to cooperate with the threads 22 in forming a seal between the cap and the bottle. At its apex a cap member 20 is provided with a circular tapered hole 24 adapted to form a seat for a ball 25 which also is seated in the upper end of the bore 12 in cap portion 10.

The construction is such that when the closure stick is removed from the bore 12 or from one or

more of the bores 18 if the cap of Figs. 4 and 5 is used, the ball 25 is seated in the bore 12 and the cap member 20 threaded onto the neck of the bottle 15. When the cap member is screwed down tightly the ball 25 seals the bottle but if the cap member be loosened slightly and the bottle tipped up, the contents of the bottle will flow through bore 12 or bores 18 and wet ball 25 which, if it be turned, will transmit the liquid adhering thereto to the outside of member 20 through opening 24. Thus, the ball 25 can be rolled on the article or the portion of the human anatomy to which it is desired to apply a minute quantity of perfume from bottle 15, and a minute quantity of such perfume will be applied. The bottle then can be re-sealed by re-tightening cap member 20.

From Fig. 6, it will be noted that the flange 21 is engaged beneath and spaced just slightly from the bottom face of the portion of the upper portion 10 which projects beyond the periphery of the neck of the bottle 15. This space is present only when the cap member 20 is screwed down on the neck of the bottle 15 clamping the ball 25 in position between the top end of the bore 12 and the opening 24. Upward screwing of the cap member 20 with relation to the neck of the bottle 15 is stopped when the flange 21 strikes the bottom face of the projecting portion of the upper portion 10 which frees the ball 25 to rotate to be used as an applicator. If upward screwing of the cap member 20 is continued, the tubular portion 11 will be withdrawn from the neck of the bottle disengaging the plastic cap as a unit with the cap member 20.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. A combined cap and dispenser for a perfume bottle having an externally threaded neck comprising an inner cap having an upper portion adapted to engage the rim of a bottle neck and a hollow depending portion adapted to extend downward into a neck of a bottle, said upper portion being provided with a centrally disposed vertical bore connecting with the hollow depending portion, an outer spherical hollow cap member having at its base an inturned annular flange threaded and adapted to screw onto the neck of a bottle, and at its apex an outwardly spherically tapering opening, and a ball seated both in the upper end of said bore and in said opening, said upper portion having its bottom projected over the inturned flange, said hollow cap enclosing said inner cap.

2. A combined cap and dispenser for a perfume bottle or the like having an externally threaded neck, comprising an inner cap having an enlarged perforated upper portion adapted to engage the rim of a bottle neck and a hollow depending portion, an outer spherical hollow cap member having at its base an inturned annular flange threaded to screw onto a neck of a bottle and at its apex an outwardly spherical tapering opening, and a ball seated at its top in said opening and resting at its bottom on the top face of said enlarged perforated upper portion of said inner cap, said upper portion having its bottom projected over the inturned flange, said hollow cap enclosing said inner cap.

3. A combined cap and dispenser for a perfume bottle having an externally threaded neck, comprising an inner perforated cap adapted to be seated in the bottle, said cap having a portion of such size as to extend laterally beyond the neck of the bottle to provide a seal; and an outer hollow cap member having at its base an inturned annular flange adapted to engage the threaded neck of a bottle, said flange being adapted to abut said cap portion in one position, an aperture in said hollow cap and a ball valve seated on said perforated cap and engaging said aperture.

4. The combination of claim 3 wherein a washer is seated in said cap to insure a fluid tight seal.

5. The combination of claim 4 wherein said cap is provided with a second spaced flange and a washer seated between said flanges and adapted to engage the neck of a perfume bottle in fluid tight seal.

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