

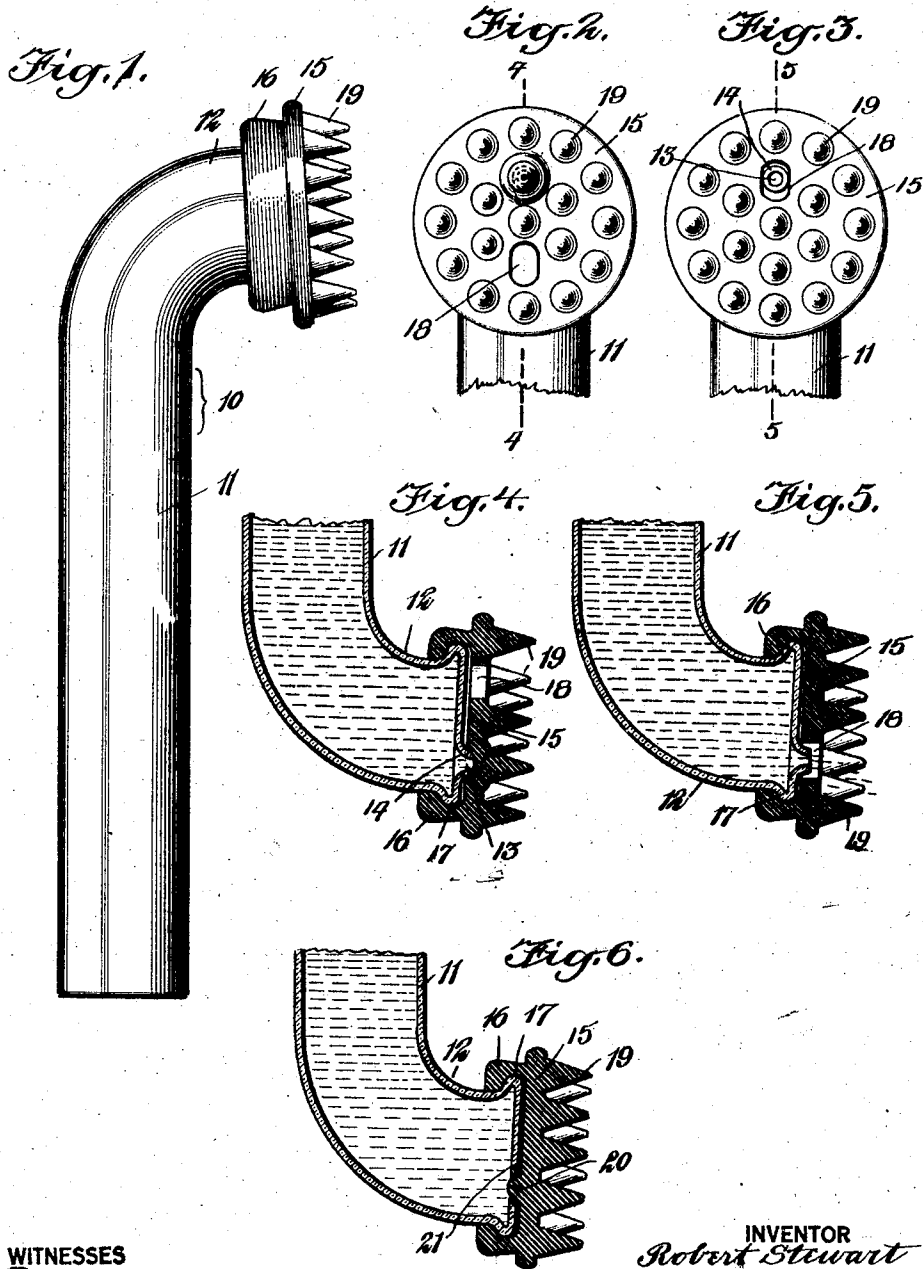
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LIQUID DISPENSER AND APPLICATOR

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WITNESSES
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LIQUID DISPENSER AND APPLICATOR.

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The present invention is concerned with the provision of a device for dispensing and applying liquids. In its broader aspects, the invention contemplates the provision of a device which may have a wide and varied range of utility, but which finds its preferred embodiment in a dispenser and applicator for hair oils, shoe polishes and similar classes of material which are applied in small quantities and then rubbed in.

The device is an improvement over the dispensing container disclosed in my copending application Serial No. 96,006, filed March 19, 1926, in that it associates the applying means with the dispensing means and results in a material economy in manufacturing cost; the device of the present invention, consisting only of two elements which may be rapidly individually produced and expeditiously assembled.

Other and more general objects of the invention, are to provide a dispenser and applicator of simple, practical construction which will be rugged, durable and efficient in use, neat and attractive in appearance, and convenient to manipulate.

With the above noted and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter set forth and pointed out in the claims. The invention may be more fully understood from the following description in connection with the accompanying drawings, wherein—

Fig. 1 is a view in side elevation of a liquid dispenser and applicator embodying the present invention.

Fig. 2 is a fragmentary view taken at right angles to Fig. 1, and showing the cap in position to seal the outlet opening.

Fig. 3 is a view similar to Fig. 2, but showing the position of the parts when the cap has been rotated through 180° to uncover the outlet opening.

Fig. 4 is a sectional view on the line 4—4 of Fig. 2, but with the container reverted.

Fig. 5 is a similar view on the line 5—5 of Fig. 3.

Fig. 6 is a view similar to Fig. 4, but illustrating a modification.

In the drawings I have used the reference character 10 to designate as a whole, an approximately L-shaped container including a relatively long arm 11 and a relatively short

arm 12, both ends of the container being closed, except for a dispensing and filling opening 13 in the end face of the shorter arm. Preferably, although not necessarily, the container is of glass and the opening 13 is defined by a nipple 14 integral with the end face of the container. The exterior surfaces of this nipple, taper, so that the nipple is approximately frustro-conical, the outer surface serving as a cam for coaction with the cover cap which I shall now describe.

The cover cap 15 is preferably of rubber including a contractile flange portion 16 snapping under a flange or lip 17 formed at the discharge end of the container 10. Container 10, or in any event, the shorter arm 12 thereof, is preferably circular in cross section, and the nipple 14 disposed eccentrically of the center of the end face. Cap 15 is provided with a slot or opening 18 at a point eccentric of the cap center which is adapted to be aligned with the nipple 14 when the cap has been rotated to the proper position as indicated in Figs. 3 and 5.

The material of the cap is readily distortable, and when the cap is rotated from the position of Figs. 3 and 5 to the position of Figs. 2 and 4, the walls of the cap slot 18 ride up over the tapered outer walls of the nipple 14, and the nipple 14 sinks into the soft rubber of the cap. The resilient cap is not forced bodily away from the end surface of the container due to the inter-engaging flanges 16 and 17 which tend to retain the cap pressed against such surface.

The circumferential gripping action of the flange 16 is sufficient to permit ready rotation of the cap without danger of displacing the same from the container. The nipple by partially embedding itself in the soft rubber cap, effectively seals the outlet opening 13.

Preferably the cap is surfaced in some manner to facilitate the application of the particular liquid to be dispensed. Where hair tonic for instance is to be dispensed, the cap may be formed with a staggered series of integral massaging tits 19 projecting from its outer face. The user grasping the elongated portion 11 of the container as a handle, rotates the cap 15 to align the slot 18 with the outlet opening 13. The container is then shaken to dispense the contents in small quantities through the outlet openings, and the cap may be rubbed against

the head of the user to work the tonic in, and to massage the scalp as the tonic is being applied.

In Fig. 6 I have illustrated a slight modification in which the nipple 14 is omitted, and a tit 20 on the inner face of the cap 15 is adapted to enter and seal an outlet opening 21 in the container.

Obviously, various changes and alterations might be made in the general form and arrangement of parts described without departing from the invention. Hence I do not wish to limit myself to the details set forth, but shall consider myself to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. A liquid dispenser including a container having an outlet opening in one end thereof, a rubber cap rotatable on said end, normally sealing the outlet opening and having a slot therein adapted to be optionally aligned with said outlet opening as the cap is rotated, said distortable cap including means interfitting with the outlet opening to positively seal the outlet.

2. A liquid dispenser including a container having an outlet opening in one end thereof, a rubber cap rotatable on said end,

normally sealing the outlet opening and having a slot therein adapted to be optionally aligned with said outlet opening as the cap is rotated, a nipple projecting from the end face of the container and defining said outlet opening, said nipple normally pressing into the distortable cap.

3. A liquid dispenser including a container having an outlet opening in one end thereof, a rubber cap rotatable on said end, normally sealing the outlet opening and having a slot therein adapted to be optionally aligned with said outlet opening as the cap is rotated, a nipple projecting from the end face of the container and defining said outlet opening, said nipple normally pressing into the distortable cap, and having tapered outer walls over which the wall of the slot is adapted to cam as the cap is shifted from open to closed position.

4. A liquid dispenser including a container having an outlet opening in one end thereof, a rubber cap rotatable on said end, normally sealing the outlet opening and having a slot therein adapted to be optionally aligned with said outlet opening as the cap is rotated, said cap including a sealing tit entering the outlet opening.

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