Jan. 7, 1941. L. M. HILLSBERRY 2,228,213

HAIR DYE APPLICATOR

Filed May 16, 1940

Fig. 1.

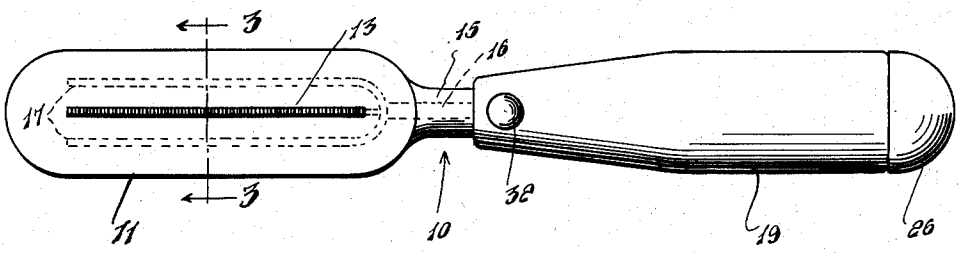


Fig. 2.

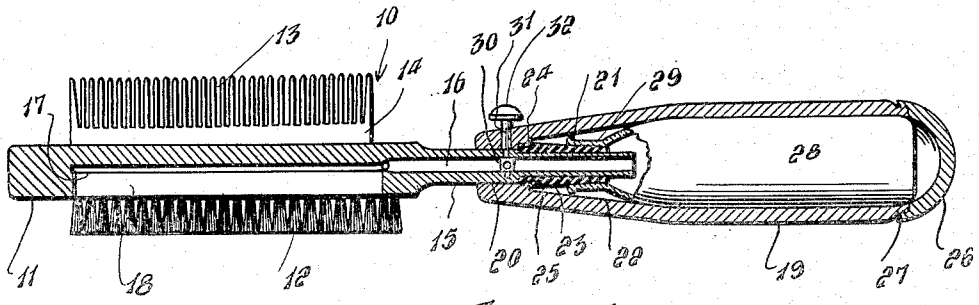
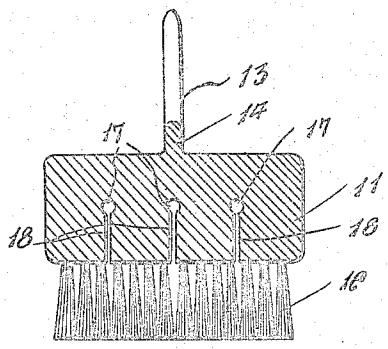


Fig. 3.



Inventor

Lillie M. Hillsberry

By L. F. Randolph

Attorney

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HAIR DYE APPLICATOR

Lillie M. Hillsberry, Sterling, Kans.

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4 Claims. (Cl. 132—9)

This invention relates to an improved fountain type applicator especially adapted for applying hair dye, including means whereby the dye may be dispensed as required to the applicating surface of the device to thereby eliminate the danger of the hair dye dripping onto the shouders, face or clothing of a person being treated which frequently results when the dye is applied to a brush by dipping.

Still another aim of the invention is to provide an improved hair dye applicator, the applicating portion of which is provided with a comb for parting the hair and bristles into which the dye is dispensed for applying the dye to the root portions of the hair adjacent the scalp.

Still a further aim of the invention is to provide an improved fountain applicator having a hollow handle provided with a removable end to permit the insertion and removal of a bottle containing hair dye, and a passage communicating with the applicator head at one end, and having its opposite end extending into the bottle or container to thereby provide a conduit from the container to the applicating bristles, and a stopper mounted in the handle and surrounding said passage for closing and sealing the open end of the container or bottle, around the passage.

Other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawing, which illustrates a preferred embodiment of the invention, and wherein;

Figure 1 is a top plan view of a hair dye applicator,

Figure 2 is a longitudinal, substantially central vertical sectional view, partly in elevation of the same, and

Figure 3 is an enlarged transverse vertical sectional view taken substantially along the plane of the line 3—3 of Figure 1.

Referring more particularly to the drawing, wherein like reference characters designate like or corresponding parts throughout the different views, 10 designates generally a hair dye applicator, which includes an elongated head 11, provided on one side thereof with bristles 12 which project outwardly therefrom. A hair comb 13 has the back edge of its head portion 14 secured to or formed integral with the brush head 11. The comb 13 is disposed longitudinally of the brush head 11 and projects therefrom perpendicular to the side opposite to which the bristles 12 are secured.

The head 11 is provided with an integral tubular shank 15, which extends from one end thereof and which is provided with a passage 16 which communicates at one end with a plurality of restricted branch passages 17 which extend longitudinally of the head 11 to points adjacent the forward, free end thereof. The passages 17, as best seen in Figure 3, are disposed in spaced apart substantially parallel relationship to each other and are provided with elongated narrow slots 18 forming ports which open into the bristles 12.

A hollow handle 19 is provided with a restricted shank end 20 which is connected to the shank 15, intermediate of its end. The free end 21 of the shank 15 extends into the recess or concavity 22 of the handle 19. The diameter of the portion 21 is reduced relatively to the diameter of the opposite end of the shank 15 to engage the longitudinal bore of a tapered stopper 23 which is disposed in the recess 22 and which is fixed to the shank end 20 of the handle 19 by means of an annular shoulder 24, on the handle 19 which engages an annular groove 25 in the stopper 23. The handle 19, at its opposite free end, is provided with a removable cap or end portion 26 which is detachably connected to the body portion of the handle 19 by a threaded connection 27. The cap 26 is removable to permit a bottle or container 28 of dye to be inserted in the cavity 22. The open neck end 29 of the bottle or container 28 is inserted foremost in the recess 22 while the bottle or container is being held in an upright position, and is moved inwardly of the handle 19 until the open neck 29 is in tight engagement with and sealed by the stopper 23. When thus positioned, as seen in Figure 2, the free end of the portion 21 extends beyond the stopper 23 and into the bottle or container 28 to form, with the remainder of the shank 15, a conduit to the passages 17.

A valve 30 is mounted in the portion of the shank 15 which is connected to the shank portion 20 of the handle 19 for opening and closing the passage 16. The valve 30 is provided with a stem 31 which extends outwardly through the shank portion 20 which is provided with an operating knob 32, at its outer end.

From the foregoing description of the drawing, it will be obvious that the applicator 10 is well adapted to be used in applying dye to the hair from the bottle or container 28 in which the dye is disposed. By opening the valve 30, the dye will flow from the container or bottle 28 through the passage 16 and into the branch passages 17 from where the dye will flow downwardly through the ports 18 and be dispensed therefrom into the

bristles 12 and be applied to the hair. The flow of dye to the bristles 12 may be controlled by the operator by opening and closing the valve 30 or by varying its open position to dispense the dye to the bristles 12, as required. By thus providing a fountain type hair dye applicator the danger of the dye dripping onto the person or clothing of the person being treated is avoided due to the fact that the applicator is not removed from hair to be dipped into a container of dye for replenishing the dye on the applicator, as in the conventional manner. The comb 13 forms a part of the applicator and is adapted to be used for parting the hair so that the bristles 12 may be positioned close to the scalp for applying the dye to the roots of the hair. By providing the comb 13, it is not necessary to lay the applicator 10 aside in order to change the part of the hair. When the head portion 11 is inverted for use of the comb, the hair dye in the ports 18 will flow back to the branch passages 17, so that the bristles 12 will not be over supplied during the period that the hair is being parted. By providing an applicator having means for receiving a bottle or container of dye, it is not necessary to remove the hair dye from the container in which it is disposed, and the danger of spilling the dye is thereby avoided.

When the bottle or jar 28 has been emptied it may readily be removed and replaced with a full bottle by removing the cap 26 and withdrawing the empty bottle 28 from the recess 22.

Various modifications and changes are contemplated and may obviously be resorted to as only a preferred embodiment of the invention has been illustrated and described.

I claim as my invention:

1. A device of the class described comprising an elongated brush head having a plurality of longitudinal passages formed therein and opening outwardly of one side thereof, a tubular shank projecting from one end of said head with which each of said passages connect, a hollow handle mounted on said tubular shank and provided with a removable outer end, and valve means for closing the passage of said tubular shank, said valve means projecting outwardly from said handle, one end of said tubular shank extending into the handle and being provided with a tapered stopper extending into and engaging the neck of a bottle disposed in the handle for sealing the space between the tubular shank and the bottle neck, and bristles projecting from the aforementioned side of said head.

2. An applicator for hair dye comprising an elongated brush head having bristles projecting from one side thereof, said brush head having a plurality of spaced longitudinal passages provided with restricted portions opening into the bristles, a tubular shank at one end of said brush head, the bore of said shank being in communication with said passages, a hollow handle having one end connected to said tubular shank, intermediate of its ends, the free end of said shank projecting into said handle, said tubular shank being provided with valve means for opening and closing the passage therethrough, said handle, at its free end, being provided with a removable portion, and a bottle of hair dye removably mounted in the recess of the handle for receiving the free end of the tubular shank.

3. A hair dye applicator comprising a brush head having bristles projecting from one side thereof, a tubular shank extending from one end of said brush head, said brush head having a plurality of longitudinal passages forming branches from the passage of said tubular shank, said branches having restricted outlet ports opening into the bristles, a hollow handle mounted at one end of said tubular shank, intermediate of its ends, and into which the free end of said tubular shank extends, said tubular shank having valve means for opening and closing its passage, said valve means including a stem projecting outwardly through said handle and provided with a head, a tapered stopper mounted on said tubular shank and disposed in and secured to said handle, and said handle including a removable cap at its outer free end to provide means whereby a bottle of dye can be inserted into, or removed from, a cavity of the handle, the free end of the tubular shank being adapted to project into the container and said tapered stopper being adapted to close and seal the open end thereof around the tubular shank.

4. A fountain brush comprising a brush head having passages formed therein and opening outwardly of one side thereof, a tubular shank projecting from one end of the brush head and communicating with the passages, valve means for controlling the passage of the shank, a hollow handle having one end mounted on the shank, the opposite end of the handle being removable to form a detachable cap, the free end of the shank extending into the cavity of the handle, said handle being adapted to contain a bottle containing a liquid, the free end of the shank extending and opening into the bottle, and a stopper mounted on the free end of the shank for sealing the space between the shank and the neck of the bottle.

LILLIE M. HILLSBERRY.