Dec. 25, 1956 M. PETITTA 2,775,244

DEVICES FOR DYEING, BLEACHING AND COOL WAVE PERMANENT CURLING OF HAIR

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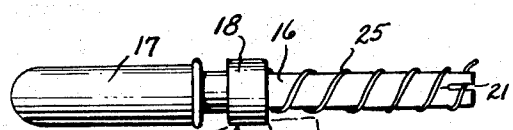


Fig. 6.



Fig. 7.

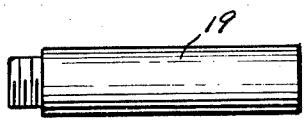
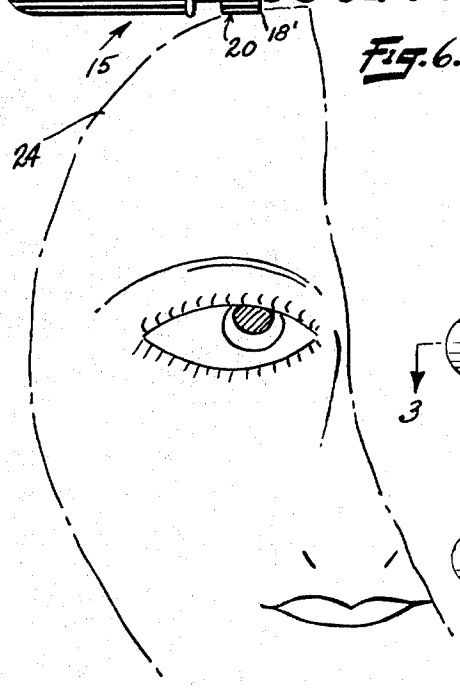


Fig. 8.



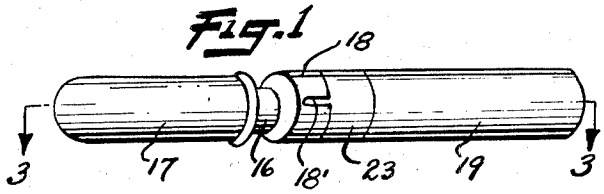


Fig. 1.

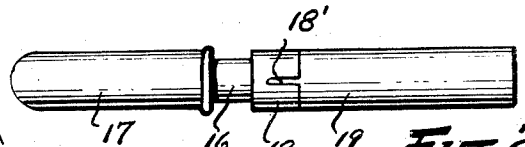


Fig. 2.

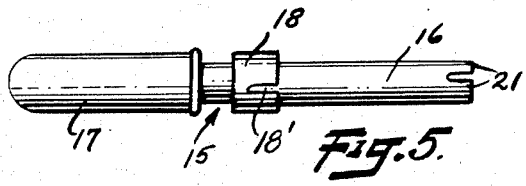


Fig. 5.



Fig. 9.

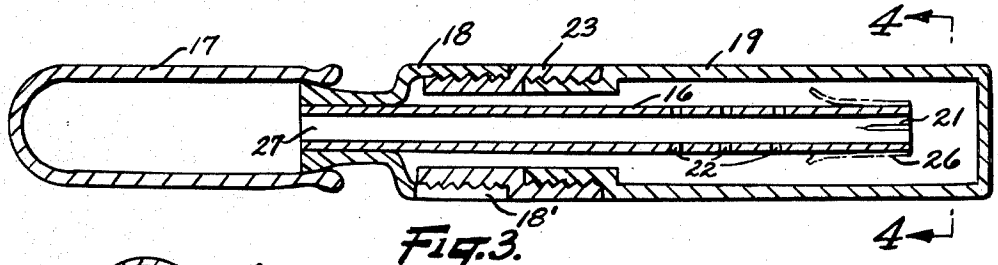


Fig. 3.

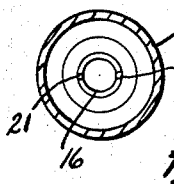


Fig. 4.

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DEVICES FOR DYEING, BLEACHING, AND COOL WAVE PERMANENT CURLING OF HAIR

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4 Claims. (Cl. 132—33)

The present invention relates to a device for use in dyeing, bleaching or cool wave permanent curling of hair on a scalp.

The principal object of this invention is to provide a novel and improved device for dyeing or bleaching a few strands of hair and is particularly adapted for use where it is desired to have a lock of hair, usually at the front of the head, dyed or bleached to a color which is in contrast with the rest of the hair and also adaptable for use in processes of cool wave permanent curling utilizing solutions to effect the setting of curl formations.

Another object hereof is to provide a novel and improved tool of the character described which carries a supply of dye, bleach or curling solution out of contact from the hair strands to be treated, and such solution is then applied to such strands after the latter is suitably mounted and encased by said tool.

A further object hereof is to provide a novel and improved appliance of the kind set forth, which is simple in construction, cheap to manufacture, easy to use and efficient in carrying out the purposes for which it is designed.

Other objects and advantages will become apparent as this disclosure proceeds.

In the accompanying drawings forming part of this specification, similar characters of reference indicate corresponding parts in all the views.

Figs. 1 is a perspective view showing a device embodying the teachings of this invention.

Fig. 2 is a longitudinal view of said device of slightly modified construction.

Fig. 3 is an enlarged section taken at lines 3—3 in Fig. 1.

Fig. 4 is a section taken at lines 4—4 in Fig. 3.

Fig. 5 shows a part of this device which is common to both embodiments illustrated. This part includes a syringe on whose tubular member the hair to be treated is mounted.

Fig. 6 shows said part of Fig. 5, associated with strands of hair on a lady's scalp.

Fig. 7 shows a part which is used in the assembly when the device is to be used for a curling operation.

Fig. 8 shows a part which is a vial or bottle member.

Fig. 9 is a perspective view showing a means used to curl hair ends of strands would as a curl on the said tubular member of the syringe part of the device.

In the drawings, the numeral **15** designates generally any suitable syringe structure including an elongated tube **16** at one end of which is any suitable means as for instance the manually collapsible resilient rubber bulb cap **17** for drawing a liquid into said tube and for ejecting same therefrom when desired. Said tube **16** carries any suitable closure means as for instance the cap **18** for a vial **19**. Said tubular member **16** also carries any suitable means for securing hair strands **20**. Such means may be provided by having opposite longitudinal slits **21**. If desired, said tube may be perforated as at **22**. For curling operations, the vial or bottle member **19** is preferably provided with a detachable member on its mouth as an extension thereof, as for instance the nipple **23**, to serve as a means to secure the hair **20** at bottle cap region. In the embodiments illustrated, the closure cap **18** screws either onto the mouth of the vial **19** or its extension piece **23**. So that the entire length of the hair strands **20** from practically their roots shall be within the vial member **19**, or **19** plus its extension **23**, as the case may be, the cap **18** is provided with a notch at **18'** for said strands to lie through.

To practice this invention for the dyeing or bleaching of strands of hair **20**, the device shown in Fig. 2 is used as follows. After removing the vial **19**, the proper dyeing or bleaching solution is drawn into the syringe and if desired, the outer surface of tube **16** may be wiped dry. Protective rubber sheeting is placed on the scalp **24** as is well known in beauty parlor procedure. The hair strands **20** to be treated, are placed through the notch **18'** and the syringe is moved so that cap **18** is on the scalp at the roots of said hairs. Now the hair strands are mounted on the tube **16** in any suitable fashion, but it is convenient to do so by winding same thereon as a curl whose ends are secured in the slits **21** as shown in Fig. 6. The tube **16** with the hair thereon is now placed into the vial **19** and the latter is then closed by the cap **18** which is screwed tightly thereon to pinch the hairs where they enter the said cap and effect a watertight closure. Now bulb **17** is pressed whereupon the housed solution is ejected into the vial. The vial is now swung vigorously in oscillatory movement about the axis offered by the hairs at root region. It is obvious that the hair strands **20** will be acted on by the solution in the vial **19**. Such shaking of the vial is continued for a period of time as experience dictates as necessary to effect the dyeing or bleaching operation. The vial **19** with its contained liquid therein remaining, is now removed from the syringe whereupon a dryer may be applied before detaching the treated hair strands. Adjacent hair strands are now similarly treated until the whole lock of hair intended is dyed or bleached as the case may be. If the size of such lock permits, a plurality of these devices may be applied simultaneously.

To practice this invention for cool wave permanent curling, it is preferred to use the device as shown in Fig. 1, which includes the use of the nipple **23** which acts as a stay for one end of the curl **25**. After removing the vial **19** and said nipple and separating them, the nipple is mounted either before or after the hair is curled about the tube **16**, if before, the hair strands are laced through the nipple. Since it is desired in this instance to curl all of the strands including their very ends, such ends are not put through the slits **21**, but are wound up and retained in wound up condition by use of the element **26** which is a tube fitting about the end of the long tube **16** and rotatable thereon and removable therefrom. The fingers **26'** engage the strands of hair and wind up the very ends of same and hold them so. The manipulations are the same as described for dyeing, except that proper curl-setting solution is used in the syringe, and only the vial **19** is removed to permit rinsing the treated curl with water; the nipple **23** continuing to serve as an anchor for scalp-end of the curl **25**.

In the embodiments illustrated, all components except the bulb **17**, may be of plastic, Bakelite, glass or other suitable material which is not effected by the solutions employed and dimensions are preferably such that there is a minimum of clearance within the vial when the device is in use.

If desired, bulb **17** may be omitted and the vial **19** filled through opening **27** with the required solution by use of an eye dropper or larger syringe device.

This invention is capable of various forms and nu-

merous applications without departing from the essential features herein disclosed. It is therefore intended and desired that the embodiments herein be deemed illustrative and not restrictive and that the patent shall cover all patentable novelty herein set forth; reference being had to the following claims rather than the specific description herein to indicate the scope of this invention.

I claim:

1. In a hair treating device a casing having an open end, an elongated open ended tubular member for mounting selected strands of hair for treatment and enterable into the casing for a portion of its length, the unentered end thereof being accessible for the introduction therethrough and into said casing of a treatment liquid, a closure member mounted on the periphery of said tubular member, means at the entered end of said tubular member for securing the free ends of hair strands leading from the scalp of a person being treated, a notch in said closure member into which the aforesaid strands of hair at the scalp region may be entered, said hair strands at the zone of the closure member notch being frictionally locked between the closure member and the open end of the casing when the same are in juxtaposition whereby

the device as assembled may be suspended from the scalp by such locked strands of hair.

2. A hair treating device in accordance with claim 1 wherein the closure member is mounted on said tubular member intermediate the length of the latter.

3. A hair treating device in accordance with claim 1, wherein the securing means on the tubular member is rotatable for winding the hair strands on the periphery of said tubular member.

4. A hair treating device in accordance with claim 1, wherein liquid for discharge into the tubular member and the casing is disposed in a flexible reservoir mounted on the tubular member at the unentered end thereof.

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