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HAIR CURLING DEVICE

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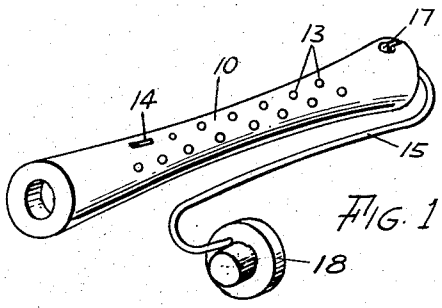


FIG. 1

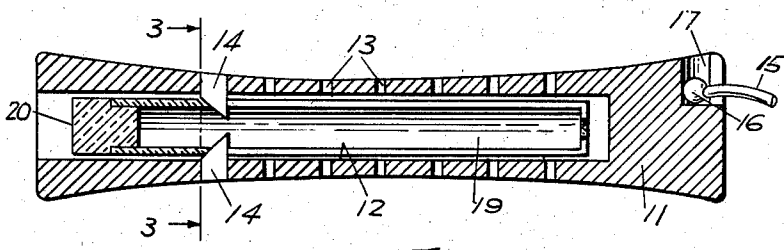


FIG. 2

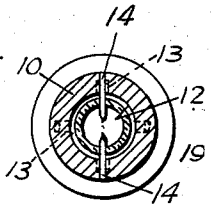


FIG. 3

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HAIR CURLING DEVICE

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7 Claims. (Cl. 132—42)

This invention relates to curling devices and more particularly to devices for curling women's hair.

In curling a woman's hair, it is necessary for the operator, after forming multitudinous individual curls and fastening them in place, to apply thereto a setting fluid. Heretofore, this has been accomplished by treating each curl individually, usually employing a wad of cotton soaked with the setting fluid to daub each curl with an appropriate quantity of such fluid. Obviously, this is a laborious and messy task and does not produce uniform results.

It is, therefore, the main object of the present invention to provide a curling device which eliminates the unsatisfactory procedure of applying the curl setting fluid as above described. By means of the present invention, not only is the time consuming and untidy handling of the setting fluid avoided, but each curl is assured similar treatment so as to result in neater overall appearance.

The foregoing is accomplished by providing a curling device which incorporates a means for uniformly distributing a measured quantity of setting fluid throughout each individual curl without the necessity for an operator coming into contact with the fluid at all. The device includes a generally tubular perforate body member about which the hair to be curled is wound and a means associated with this body member for retaining the curl wound about it in place. After each curl is thus formed, a capsule, containing the measured quantity of the setting fluid, is inserted into the body member, said capsule being automatically punctured during such insertion to permit the fluid to flow out of the same and become uniformly distributed throughout and absorbed by the curl wound about the body member.

In the following specification there is described and in the accompanying drawing shown an illustrative embodiment of the present invention. It is, however, to be clearly understood that the present invention is not limited to the exact details of construction herein shown and described for purposes of illustration only, inasmuch as changes may be made therein without the exercise of invention and within the true spirit and scope of the claims hereto appended.

In said drawing:

Fig. 1 is a perspective view of the curling device of the present invention;

Fig. 2 is an enlarged longitudinal sectional view taken through the center of said device; and

Fig. 3 is a transverse sectional view taken along line 3—3 of Fig. 2.

Referring now more in detail to the aforesaid illustrative embodiment of the curling devices of the present invention, the numeral **10** designates a tubular body member made, for example, of a suitable plastic material. The member **10** is closed at one end, as at **11**, and open at the other, to provide a capsule-receiving socket or bore **12** of substantially uniform diameter throughout its length. The outer diameter of the member **10** may increase from the center toward both ends, as shown, so as to aid in retaining the curl in place after it is wound thereabout.

The body member **10** is provided with a plurality of openings **13** communicating with the socket **12** and arranged in alternately staggered rows, and is further provided with a capsule-puncturing means, such as a pair of oppositely disposed blades **14** which extend into the socket **13** near the open end thereof.

The body member **10** is completed by a cord or other curl-fastening means **15**, one end **16** of which is knotted and engaged in a slot **17** formed in the member **10** and the other end of which is affixed to a plug **18** adapted to close the open end of the socket **12** after the curl has been wound on said member and the capsule hereinafter described is inserted into said member **10**.

The socket **12** is adapted to receive a capsule **19** preferably made of a thin plastic material which is easily severed or punctured, one end of the capsule being closed as made and the other end being closed by a plug **20** after the capsule is filled with any appropriate standard curl-setting fluid.

This completes the description of the aforesaid illustrative embodiment of the curling devices of the present invention and its manner of use may be described as follows.

Hair to be curled is wound about the body member **10** in the usual manner. The capsule **19** containing curl-setting fluid is inserted into the socket **12**, the capsule becoming engaged and cut by the blades **14** as it is being inserted. As soon as the capsule is completely inserted into the socket, the open end of the socket is closed by the plug **18** which brings the cord **15** into contact with the wound curl and prevents the same from unwinding.

The curl-setting fluid flows out of the punctured capsule and by virtue of the openings **13** in the body member **10**, into contact with the curl wound about said member **10**. By reason of the arrangement or pattern of these openings **13**, the fluid becomes substantially uniformly distributed throughout the curl. As in the case of conventional curl setting, the curling device of the present invention is allowed to stay in place for an appropriate time and thereafter is removed by disengaging the plug **18** from the socket **12** and sliding the body member **10** out of the curl. The used capsule **19** is slid out of the member **10** and the latter is ready for further use.

This completes the description of the mode of operation of the curling device of the present invention.

It will be noted from all of the foregoing that a simple, inexpensive curling device has been provided which permits the curling of a woman's hair with the expenditure of considerably less labor than has heretofore been the case and without the necessity for the operator coming into messy contact with the setting fluid. It will also be noted that by virtue of the use of a measured quantity of the setting fluid with each curl, more uniform results are obtained.

Other objects and advantages of the present invention will readily occur to those skilled in the art to which the present invention relates.

What is claimed is:

1. A hair curling device comprising: a foraminous body member about which hair is adapted to be wound to form a curl; a capsule, containing a curl-setting fluid, adapted to be inserted into said body member; and means, carried by said body member, for puncturing said capsule, along substantially the entire length thereof, as it is being inserted into said body member, whereby said fluid can flow out of said capsule and into contact with said curl.

2. A hair curling device comprising: a perforated tubular body member about which hair is adapted to be wound

to form a curl; said body member being closed at one end and open at the other to provide a capsule-receiving socket; a capsule, containing a curl-setting fluid, adapted to be inserted into said socket; and means, carried by said body member, for puncturing said capsule, along substantially the entire length thereof, as it is being inserted into said socket, whereby said fluid can flow out of said capsule and into contact with said curl.

3. A hair curling device comprising: a foraminous body member about which hair is adapted to be wound to form a curl; a capsule, containing a curl-setting fluid, adapted to be inserted into said body member; and a blade carried by said body member and extending therein in the path of said capsule for cutting said capsule as it is being inserted into said body member, whereby said fluid can flow out of said capsule and into contact with said curl.

4. A hair curling device comprising: a perforated tubular body member about which hair is adapted to be wound to form a curl; said body member being closed at one end and open at the other to provide a capsule-receiving socket; a capsule, containing a curl-setting fluid, adapted to be inserted into said socket; and a blade carried by said body member and extending into said socket in the path of said capsule for cutting said capsule as it is being inserted into said socket, whereby said fluid can flow out of said capsule and into contact with said curl.

5. A hair curling device comprising: a foraminous body member about which hair is adapted to be wound to form a curl; a capsule, containing a curl-setting fluid, adapted to be inserted into said body member; means, carried by said body member, for puncturing said capsule, along substantially the entire length thereof, as it is being inserted into said body member, whereby said fluid can flow out

of said capsule and into contact with said curl; and means carried by said body member for retaining said curl wound thereabout.

6. A hair curling device comprising: a perforated tubular body member about which hair is adapted to be wound to form a curl; said body member being closed at one end and open at the other to provide a capsule-receiving socket; a capsule, containing a curl-setting fluid, adapted to be inserted into said socket; means, carried by said body member, for puncturing said capsule, along substantially the entire length thereof, as it is being inserted into said socket, whereby said fluid can flow out of said capsule and into contact with said curl; and means carried by said body member for retaining said curl wound thereabout.

7. A hair curling device comprising: a perforated tubular body member about which hair is adapted to be wound to form a curl; said body member being closed at one end and open at the other to provide a capsule-receiving socket; a capsule, containing a curl-setting fluid, adapted to be inserted into said socket; a blade carried by said body member and extending into said socket in the path of said capsule for cutting said capsule as it is being inserted into said socket, whereby said fluid can flow out of said capsule and into contact with said curl, and means carried by said body member for retaining said curl wound thereabout.

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