Oct. 2, 1962 J. A. UNGER, JR 3,056,413

HAIR CURLER ROD

Filed April 25, 1960

Fig. 1.

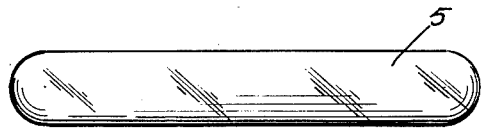


Fig. 2.

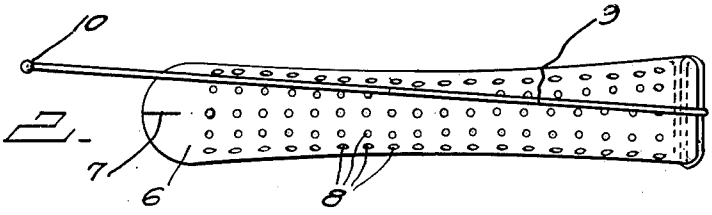


Fig. 3.

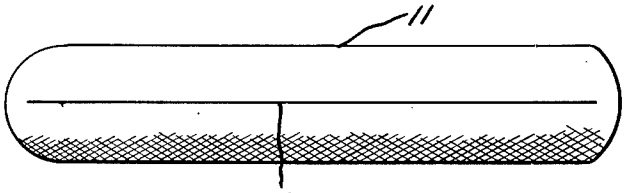


Fig. 4.

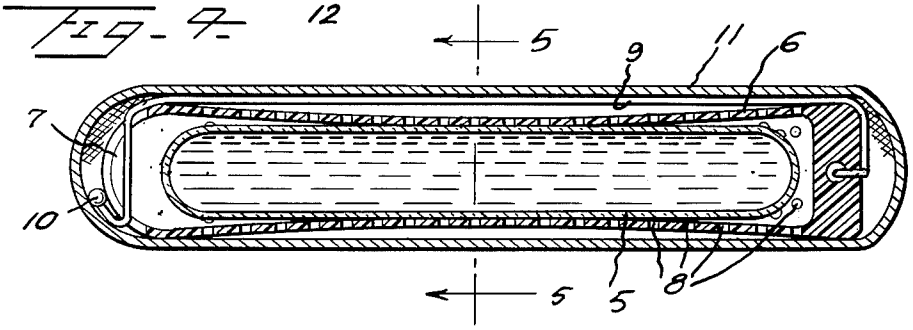


Fig. 5.

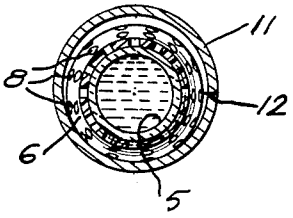
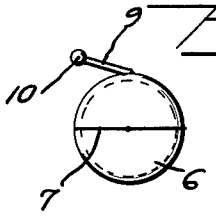


Fig. 6.



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HAIR CURLER ROD

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1 Claim. (Cl. 132—42)

This invention relates to hair curlers, and particularly to the type of hair curlers designed for permanently waving the hair by the application of waving solution in producing the wave, by what is commonly known as the cold wave process.

An important object of the invention is to provide means for applying the waving solution to the hair curlers approximately simultaneously, after the hair has been wound on the wave rods in forming the curls or waves, resulting in an even process in the formation of waves with all permanent wave rods, the waves lasting for approximately the same period of time.

A further object of the invention is to provide a method of applying waving solution which may be accomplished without the usual waste and mess incident to the application of waving solution according to the well known and accepted methods.

Still another object of the invention is the application of a measured quantity of waving solution with the formation of each wave or curl, insuring a more lasting and perfect wave.

Still other objects reside in the combinations of elements, arrangement of parts, and features of construction, all as will be more fully pointed out hereinafter and disclosed in the accompanying drawing wherein there is shown a preferred embodiment of this inventive concept.

Referring to the drawing:

FIGURE 1 is an elevational view of a glass vial in which permanent waving solution is contained.

FIGURE 2 is an elevational view of a flexible plastic perforated case in which the vial is positioned.

FIGURE 3 is an elevational view of a nylon or Dacron slip cover designed to encase the vial containing plastic case.

FIGURE 4 is a longitudinal sectional view through the permanent wave rod constructed in accordance with the invention, illustrating the various elements of the rod as assembled.

FIGURE 5 is a transverse sectional view taken on line 5—5 of FIGURE 4.

FIGURE 6 is an end elevational view of the plastic perforated case on which the hair is wound in forming the curl wave.

Referring to the drawing in detail, the glass or vial in which the waving lotion is contained and sealed, is indicated by the reference character 5.

The reference character 6 indicates a flexible plastic case in which the vial 5 is positioned by passing the vial through the slit 7 disposed in one end of the case 6.

The wall of the flexible case 6 is substantially thin, and provided with a plurality of perforations 8 through which the solution contained in the vial 5 may pass when the vial has been crushed to release the solution contained therein.

Secured at one of its ends to one end of the case 6, is a cord 9, the other end of the cord being provided with a knob 10 that is adapted to be positioned within the slit 7 to hold the cord taut after the hair has been wound

on the case, the case acting as the waving rod commonly used in carrying out the permanent waving process in the formation of what is commonly known as the cold wave.

The reference character 11 indicates a woven fabric slip cover which is cylindrical in cross section and elongated to receive the case 6 and vial 5, in a manner as shown by FIGURE 4 of the drawing.

The slip cover 11 is formed with a slit 12 which is disposed longitudinally in the wall thereof and affords means whereby the slip cover may be opened to insert the case 6 containing the vial 5.

While FIGURE 5 shows the various elements of the hair waving rod, it is to be understood that the component parts are here illustrated to show how they are held within the slip cover, the hair which is usually wound on the case 6 having been omitted to avoid confusion in reading the drawing.

In the use of applicant's device, the portions of hair to be formed into waves or curls are wound over the flexible case 6 after the vial 5 containing the waving solution has been positioned therein.

The cord 9 is then fastened in the slip 7 at the end of the case 6 to hold the hair in its curled position around the case. The slip cover is now applied over the complete wave, and after all the various waves have been formed, the operator will by directing pressure to the various rods by squeezing the rods with such force as to crush the vial 5, forcing the solution therein to pass through the openings 8 of the case 6, saturating the hair wound therearound.

It will of course be understood that the slip cover 11 will protect the hands of the operator against injury by the crushing of the vial 5, and that by applicant's apparatus, all of the waves may be formed substantially simultaneously with the result that the waves will last for approximately the same period of time.

From the foregoing detailed disclosure and description, it is believed that the operation of applicant's solution applying rod for the purpose of forming permanent waves in hair, will be obvious, and that further description is unnecessary.

Having thus described the invention, what is claimed is:

A hair curler assembly comprising a generally elongated flexible tubular member having wall portions defining a plurality of perforations therein, said tubular member further including opposite end walls, one of said end walls having portions defining a slit therein, a frangible waving solution containing vial insertable into said tubular member through the slit in said one end wall, a flexible cord secured to the end wall of said tubular member opposite said slit containing end wall, said cord adapted to extend longitudinally of said tubular member to retain hair wound thereon in place, a portion of the free end of said cord pinched between the portions of the end wall defining the slit therein, and a generally tubular woven fabric cover for said tubular member including closed end wall portions, portions of the side wall defining a longitudinally extending slot through which said tubular member is adapted to be inserted.

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