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G. COMERFORD

1,856,692

WRAPPER FOR USE IN HAIR WAVING PROCESSES

Filed Oct. 7, 1931

FIG. 1.

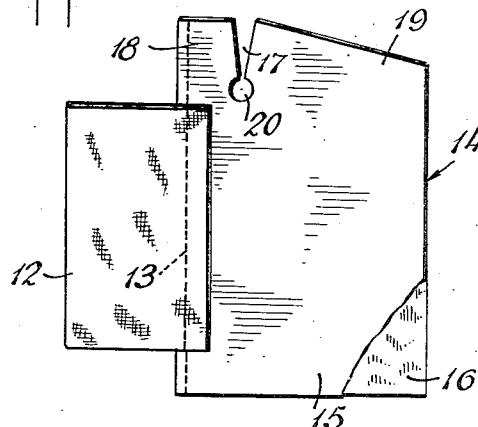


FIG. 2.

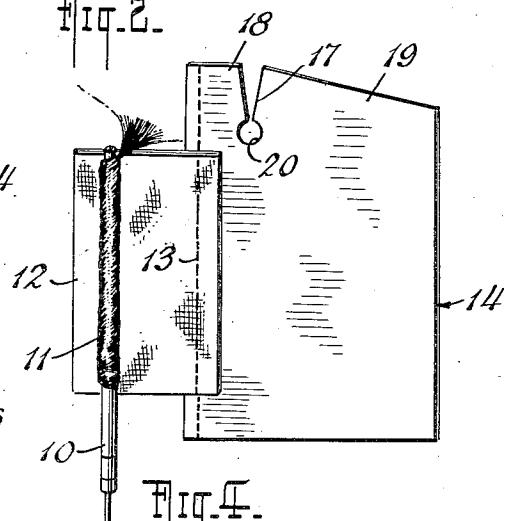


FIG. 3.

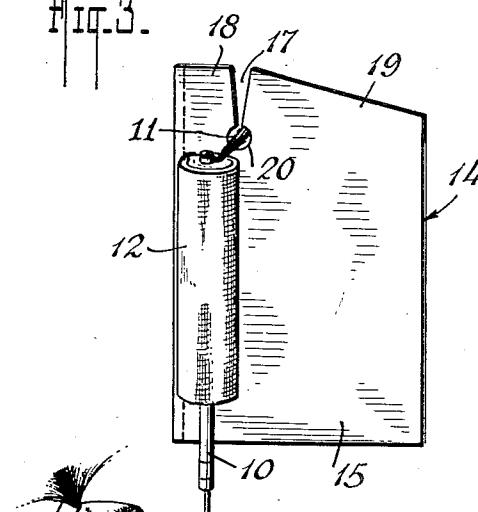


FIG. 4.

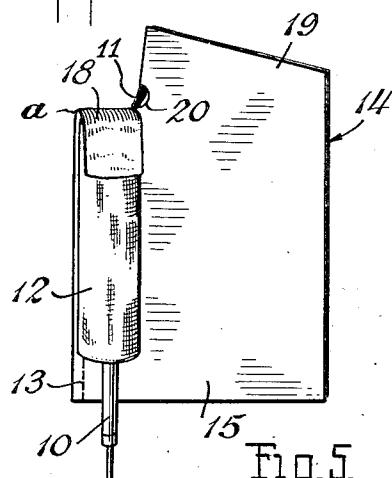


FIG. 5.

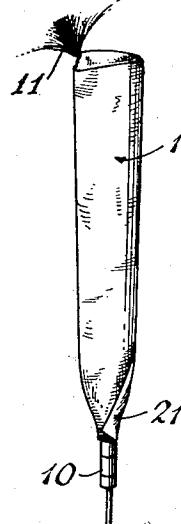
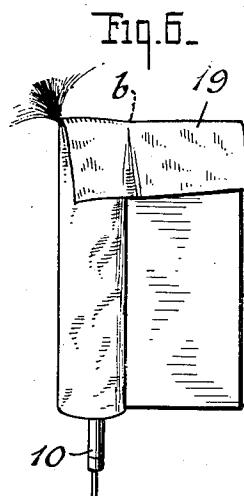


FIG. 7.



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UNITED STATES PATENT OFFICE

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WRAPPER FOR USE IN HAIR WAVING PROCESSES

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This invention relates to improvements in wrappers employed for enclosing strands of hair during the process of forming permanent waves therein.

It has been proposed heretofore to make a device embodying an absorbent strip secured to a sheet and to wrap a strand of hair, which has been previously wound upon a curler rod, within said strip and sheet. In such devices, both of the latter elements are provided with tabs adapted to be successively folded over upon the body portions of said elements and the strand of hair as the latter is wrapped therein so as to form an enclosure for one end of the curled part of the strand, an uncurled portion of which projects from said enclosure. This construction was designed for the purpose of preventing the escape of vapors created by the application of heat to the device, the absorbent strip of which has been impregnated with a suitable solution such as commonly used in the art of permanent hair waving. However, it has been found that, due to the arrangement of the tabs on the strip and sheet of the device and the consequent manner in which said tabs are folded when the hair strand is being wrapped, said tabs combine with the strip and sheet to form an opening, in addition to the one through which the strand projects, thus permitting the escape of vapors at two points of the enclosure with a consequent decrease in efficiency of the device.

An object of the present invention is to overcome the above-noted difficulty by providing a wrapper from which an enclosure for one end of the curled strand of hair may be formed which will effectively prevent the escape of vapors from the interior of the wrapper at all points except the one at which said strand projects therefrom.

Another object is to provide an improved wrapper of simple and practical construction, wherein the outer covering thereof is cut to form cooperating closure flaps between which a portion of a strand of hair is adapted to project from the covering, and which are foldable to enclosing positions around

a curled portion of said strand as the latter is being wrapped in said covering.

The above and other objects will appear more clearly from the following detailed description, when taken in connection with the accompanying drawings, which illustrate a preferred embodiment of the inventive idea.

In the drawings—

Figure 1 is a perspective view, partly broken away, of the improved wrapper constructed in accordance with the invention;

Figures 2 to 6 inclusive are perspective views showing successive steps in the act of wrapping a strand of hair in the wrapper, and

Figure 7 is a similar view of the wrapper in its completely wrapped or operative position.

Referring more particularly to the drawings, the numeral 10 indicates a curler rod of a type commonly employed in permanent hair waving and upon which a strand of hair 11 is adapted to be wound or curled and tied as a primary step in the waving process, with the end of the strand adjacent the scalp projecting from one end of the rod. The next step in the process is to wrap the curled strand within a wrapper, a portion of which has been treated with a solution which, upon application of heat in accordance with known methods, impregnates the strand of hair to facilitate the waving operation.

The wrapper for enclosing the strand of hair, as shown in the accompanying drawings, comprises a pad 12 made of any suitable material, such as flannel or the like, which is adapted to be impregnated with or dipped in the solution above referred to prior to the application of the wrapper to the strand of hair. This pad is cut from a rectangular sheet, preferably doubled upon itself and stitched, or otherwise secured, as by stapling as indicated at 13, to one longitudinal edge of the outer covering generally indicated by the numeral 14, with a major portion of the pad projecting beyond said longitudinal edge and being of less area than said covering.

The covering 14 is of substantially rectangular form and comprises an inner layer

of paper 15 and an outer sheet of aluminum foil 16. The layer and sheet are secured together in any suitable manner, as by an adhesive, with the layer 15 imparting body to the covering and constituting a wall which will surround the pad 12 when the wrapper is wrapped around the strand of hair, said layer being of such material as not to be chemically affected by the hair-treating solution in said pad. The outer sheet 16 which, as stated, is aluminum foil may be made of any other suitable material which will provide a pliable body which will retain any shape when deformed.

In order to constitute means for enclosing one end of the curled portion of the strand of hair which will minimize as much as possible the escape of vapors from the wrapper when the same is wrapped about said strand, the covering 14 is slit at one end thereof, as indicated at 17, adjacent the longitudinal edge to which the pad is secured to form the closure flaps 18 and 19, the latter of which extends from said slit to the edge of the covering opposite the first-mentioned edge, and which is tapered as shown so as to render the wrapper less bulky after being wrapped about the strand of hair. At the inner end of the slit 17 and between the closure flaps, there is provided in the covering an opening or space 20 disposed a slight distance outwardly of the adjacent transverse edge of the pad 12 so as to be capable of receiving therein the portion of the strand of hair projecting from the curler rod 10, this opening constituting the only possible means of escape of vapors from within the wrapper after the same has been wrapped about the strand of hair.

In the improved device, the two folding sealing flaps are located on the non-absorbent covering contiguous to each other, the flap 18, adjacent the pad, being narrow but of sufficient width to cover and close the end of the rolled pad, while the flap 19 is elongated and of sufficient width to more than cover the fold of the folded flap 18 and extend over and close the place where the edges of the rolled pad and folded flap 18 meet at a point opposite to where the hair strand protrudes from the rolled pad, which place is indicated at *a* in Figures 4 and 5, and at *b* in Figure 6. As the operator with slight tension pulls the flaps, in turn, into place, one being drawn in one direction and the other subsequently in the opposite direction, each flap is drawn snugly around the hair strand 11, where it protrudes from the rolled pad, and the hair strand is forced into the closed end of the slit 17. Thus, the flaps provide an effective seal around the protruding hair strand. The elongated flap 19, in the final wrapping of the cover, is rolled transversely on itself in a circumferential direction about the rolled pad 12 and the folded flap 18, thereby making

superimposed plies of material which combine to maintain the wrapper snugly about the strand of hair.

In practice, the wrapper is first applied to the strand of hair to be wrapped, as shown in Figure 2 wherein the free end of the pad is laid against said strand and then wrapped around the same until completely coiled thereabout, as indicated in Figure 3. In this position, the projecting portion of the strand is passed through the opening 20 and the closure flap 18 is then snugly folded over upon the pad 12 (see Figure 4) so as to partially enclose one end of the curled strand and cover the end of the coiled pad 12. From the position in Figure 4 the wrapper is given substantially a half revolution to bring the coiled pad 12 and adjacent edge of the covering 14 to the position shown in Figure 5, whereupon the closure flap 19 is folded over, as indicated in Figure 6, to form a complete enclosure for the adjacent end of the coiled pad, with the exception of the point at which said strand projects from the covering through the opening 20. The wrapping operation now continues until the entire covering is in encircling position relative to the strand of hair and the final operation of completely enclosing the entire strand within the covering is accomplished by twisting or crimping the end of the latter remote from the projecting portion of the strand of hair, as indicated at 21 in Figure 7. The wrapped strand of hair is now ready for the application of heat thereto and the waving process continues from this point in the customary manner.

What is claimed is:

1. A wrapper for enclosing a wound strand of hair during the application of heat thereto in a hair-waving process, said wrapper comprising a covering in which the strand is adapted to be wrapped with a part of the strand projecting therefrom, said covering being of a pliable non-absorbent material inherently capable of maintaining a deformed condition about said strand when wrapped therearound, and being provided with means for sealing the end of the strand adjacent the projecting portion thereof so as to completely enclose said end and prevent the escape of vapor from the covering at all points except that at which the strand projects from the wrapper.

2. A wrapper for enclosing a wound strand of hair during the process of waving the same, comprising a covering in which the strand is wrapped and from which a portion thereof projects, said covering being of a pliable non-absorbent material inherently capable of maintaining a deformed condition about said strand when wrapped therearound, and a closure flap on said covering having a portion foldable over upon one end of the wound strand as the covering is be-

ing rolled thereabout, said flap being elongated in the direction of the rolling operation so as to circumferentially embrace said end of the strand and be transversely wrapped upon itself and around said portion which is folded over said end.

3. A wrapper for enclosing a wound strand of hair during the process of waving the same, comprising a covering from which a portion 10 of said strand projects, a pad secured to one edge of said covering and in which the wound portion of said strand is rolled preparatory to being wrapped in said covering, and a closure flap on said covering elongated 15 in the direction of the edge thereof opposite that to which said pad is secured, said flap being foldable over one end of the wound strand and circumferentially encircling the same when the strand is fully wrapped in 20 said covering.

4. A wrapper for enclosing a wound strand of hair during the process of waving the same, comprising a covering in which the strand is wrapped and from which a portion 25 of said strand projects, said covering being slit to form closure flaps of unequal widths, one of which is foldable over upon one end portion of the wound strand and the other flap being rolled about said portion of 30 the strand in encircling relation to the first-named flap.

5. A wrapper for enclosing a wound strand of hair during the process of waving the same, comprising a non-absorbent covering 35 slit adjacent one edge to define closure flaps, one of which extends from said slit to the edge of said covering remote from the first-named edge, said flaps being foldable about an end of the strand to form an enclosure 40 therefor in which one of said flaps encircles the other, and an absorbent pad secured to the first-named edge of said covering and terminating short of said closure flaps.

6. In wrapping means for the purpose of 45 enclosing a wound hair strand in the process of waving growing hair on the head, a flexible non-absorbent exterior covering provided at one end with contiguous folding sealing flaps which, when the covering is 50 being rolled into position to form the enclosure, may be successively drawn inwardly around and in contact with the protruding hair strand in opposite directions so as to 55 embrace the same under tension to form a seal around the hair strand, the said folded sealing flaps being in turn engaged and bound in place by the covering as it is wrapped in final position.

7. A wrapper for enclosing and sealing a 60 strand of wound hair in the process of waving growing hair on the head, the same comprising a flexible absorbent pad adapted to be rolled directly around the hair strand, and a flexible non-absorbent covering adapted 65 to be wrapped around the rolled pad, one

end of said covering being provided with a narrow and a wide folding sealing flap contiguous to each other, the narrow flap being adjacent the said pad and of sufficient width to fold over and close the end of the rolled pad when it is positioned on the covering in alignment with the narrow flap and to bind around the hair strand protruding from the pad, the said wide flap being of sufficient width to fold over the folded narrow flap and subjacent rolled pad and bind around the protruding hair strand and fold upon the body of the covering and in the opposite direction from that in which the narrow flap is folded, so as to cover and close the place 70 where the edges of the narrow flap and the pad meet at a point opposite to where the hair strand protrudes from the pad, the folded wide flap being wrapped transversely 75 on itself and across the portion thereof 80 which is folded upon the rolled pad when the covering is wrapped in its final position.

8. A wrapper for enclosing and sealing a strand of wound hair in the process of waving growing hair on the head, the same comprising a flexible absorbent pad, and a flexible non-absorbent cover sheet attached by one side edge to one side edge of the pad, one end of the cover being extended beyond that of the pad and being formed with a longitudinal slit, thereby providing a narrow folding sealing flap at the attached side edge and an elongated folding sealing flap extending towards the opposite unattached side edge of the cover, so that when the pad has 90 been rolled around the hair strand and positioned above the narrow flap the latter may be folded inwardly over the end of the rolled pad to cover and close such end and the slit edge of the flap may be drawn snugly 95 around the protruding hair strand which then lies in the crotch or closed end of the slit, and when the cover has been partially wrapped about the rolled pad and the latter 100 is positioned above the elongated flap, the latter may then be folded inwardly, in the opposite direction from that in which the narrow flap is folded, over both the wrapped and unwrapped parts of the cover so as to 105 cover the fold of the narrow flap and cover 110 and close the place where the edges of the folded narrow flap and rolled pad meet opposite the point where the hair strand protrudes from the rolled pad, with the slit edge 115 of the folded elongated flap drawn snugly 120 around the hair strand, the continued and final wrapping of the cover serving to double and wrap the elongated flap transversely on itself and secure the wrapped parts in place.

In testimony whereof, I have affixed my 125 signature.

GRACE COMERFORD.