

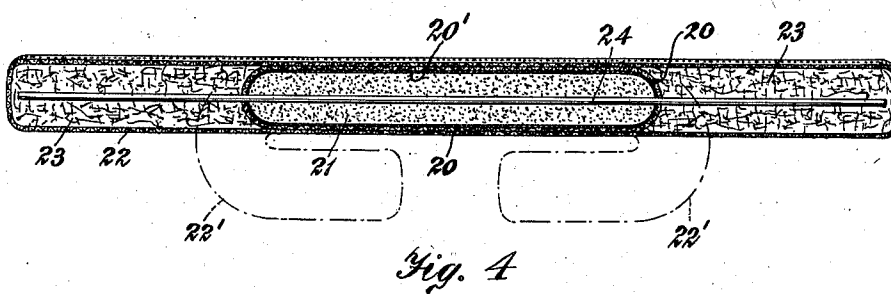
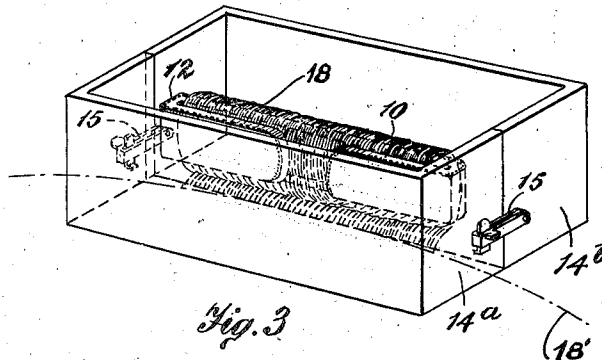
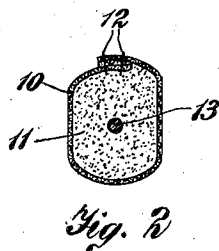
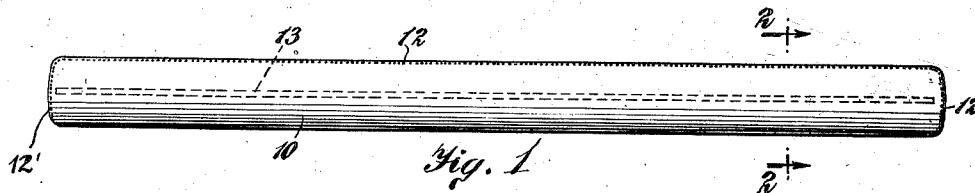
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HAIR WAVING DEVICE

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HAIR WAVING DEVICE

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6 Claims. (Cl. 132—31)

This invention relates to new and useful improvements in a hair waving device.

The invention has for an object the construction of a device as mentioned which is characterized by a longitudinal absorbent casing containing a chemical which when moistened will generate sufficient heat to impart a permanent wave to a tress of hair, and an arrangement for holding the tress wound upon the said longitudinal casing.

A feature of the invention resides in the fact that the heat is generated within the interior of the tress of hair.

It is old to roll tresses of hair upon core elements and to apply chemicals over the rolled tress which is capable of generating sufficient heat to impart a permanent wave to the hair. The disadvantage of the prior method resides in the fact that the heat is imparted to the exterior of the tress. It has been generally recognized that better waves are formed if the heat is applied inside of a roll of hair.

A further disadvantage of applying the chemical pads externally upon the roll of hair is that it requires quite complicated mechanism to hold it in position and makes it impractical for home use.

In accordance with the instant invention it is particularly simple for one to wind a tress of hair about the longitudinal casing without necessarily being skilled or trained in the art of permanent hair waving. Thus, with this invention it is now possible for women to give themselves a permanent wave at home.

A further object of the invention is to construct the longitudinal casing of a greater length than is necessary for the tress of hair wound thereon, and to provide an arrangement for holding the end portions of the longitudinal casing bent over the tress to hold it in position.

More specifically, in one form of the invention it is contemplated to use a pliable member disposed within the longitudinal casing which, when the end portions thereof are bent, is capable of maintaining the casing upon the hair.

As a further object of this invention it is proposed to confine the chemical material within a central portion of the absorbent casing so that the end portions which are bent around the roll of hair do not generate heat.

A further object of the invention is the provision of a retarding agent to retard the generating of heat for a short period of time after the longitudinal casing has been moistened so that there is ample time to adjust it properly upon

the hair before too high a temperature of heat is generated.

Another object of the invention is to so construct the hair waving device that it may be used in conjunction with prior pads or protectors used to prevent steam from reaching the scalp during the waving process.

A further object is the construction of a device as described which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a side elevational view of a device constructed according to this invention.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the hair waving device engaged upon a coil of hair and shown in relation to a protector for preventing steam which is generated during the waving process from reaching the scalp.

Fig. 4 is a longitudinal sectional view of a hair waving device constructed according to another embodiment of this invention.

The hair waving device comprises a longitudinal absorbent casing 10 containing a chemical 11 which when moistened will generate sufficient heat to impart a permanent wave to a tress of hair. Preferably, the casing 10 should be of cloth material. It may be formed from a strip of cloth which is bent around into tubular shape and which is held closed by lines of stitches 12. The ends of the tubular shape are also closed by transverse lines of stitches 12'. The chemical 11, for example, may be powdered calcium oxide.

A means is associated with the absorbent casing and chemical material for holding the device upon a coil of hair. This means consists of a pliable member 13, such as a piece of pliable wire extending through the casing and embedded in the powdered chemical 11. When the tress of hair 18 from one's scalp, indicated by the dot and dash lines 18', is wound upon the center portion of the device the end portions may be bent over the hair, as clearly shown in Fig. 3, to maintain the hair in the coil. The pliable wire 13 will act to maintain the end portions in the bent positions.

The operation of the device is as follows:—

First, a conventional protector for preventing steam from reaching the scalp should be applied to a tress of hair at the scalp 18'. In Fig. 3 one form of such protector is shown. It comprises a pair of hollow members 14a and 14b which are detachably connected with each other in edge alignment by holding elements 15. These holding elements are adapted to firmly engage together the adjacent edges of the members 14a and 14b to prevent steam from passing between these parts and reaching the scalp. The members 14a and 14b, when engaged on the head form a receptacle with an open top into which the hair coil and hair waving device engage. Further details of this protector will not be given, as it forms no part of the invention and similar protectors are generally known.

The tress of hair 18 is moistened with a suitable waving solution, as for instance, an ammonium solution. The hair waving device is then moistened and quickly applied to the hair by engaging the outer end of the tress 18 upon the center of the waving device and rolling the waving device to form the curl. When the tress of hair has been completely rolled upon the device the ends are bent over, as shown in Fig. 3, to hold it in position. The moisture from the absorbent casing affects the chemical therein and the heating action begins. The heat itself reaching the moistened casing vaporizes the moisture and accelerates the chemical reaction. The device is permitted to remain upon the hair until it becomes cool and is then removed by first bending straight the end portions.

In Fig. 4 another embodiment of the invention is disclosed which distinguishes, primarily, from the prior form in an arrangement wherein the bent end portions of the hair waving device contain filling material instead of the chemical. Therefore, these end portions will not generate heat and all of the heated portions will be localized within the coiled tress 18.

More specifically, the device comprises a longitudinal absorbent casing 20 containing chemical material 21 which, when moistened, will generate sufficient heat to impart a permanent wave to a tress of hair. This casing 20 is disposed within another and longer absorbent casing 22. The end portions of the outer casing 22 are filled with inert filler material 23 such as cotton, hair, etc. A pliable member 24 engages through the interior casing 20 and has its end portions extending through the filler material 23. The inner casing 20 has the inner wall 20' thereof coated with a water-soluble material such as glue, etc. This water-soluble material initially prevents the moisture from reaching the chemical 21, but after a short period of time, dissolves and the heating chemical action commences. The dot and dash lines 22' indicate the end portions of the device bent inwards to show the shape of the device when applied to a coil of hair.

While I have illustrated and described my invention with some degree of particularity, I realize that in practice various alterations therein may be made. I therefore reserve the right and privilege of changing the form of the details of construction or otherwise altering the arrangement of the correlated parts without departing from the spirit or the scope of the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

1. A hair waving device comprising a longitudinal absorbent casing, a chemical within said casing acting as a filler for said casing and simultaneously adapted when moistened to generate sufficient heat to impart a permanent wave to a tress of hair wound on said casing, and a pliable member on the end portions of said casing whereby the end portions may be bent over for holding the device in position on the said tress of hair.

2. A hair waving device comprising a longitudinal absorbent casing, a chemical within said casing acting as a filler for said casing and simultaneously adapted when moistened to generate sufficient heat to impart a permanent wave to a tress of hair wound on said casing, and a pliable member on the end portions of said casing whereby the end portions may be bent over for holding the device in position on the said tress of hair, said chemical being in powdered form.

3. A hair waving device comprising a longitudinal absorbent casing, a chemical within said casing acting as a filler for said casing and simultaneously adapted when moistened to generate sufficient heat to impart a permanent wave to a tress of hair wound on said casing, and a pliable member on the end portions of said casing whereby the end portions may be bent over for holding the device in position on the said tress of hair, said casing being of flexible material adapted to bend and conform with said pliable member.

4. A hair waving device comprising a longitudinal absorbent casing, a chemical within said casing acting as a filler for said casing and simultaneously adapted when moistened to generate sufficient heat to impart a permanent wave to a tress of hair wound on said casing, and a pliable member on the end portions of said casing whereby the end portions may be bent over for holding the device in position on the said tress of hair, said pliable member comprising a pliable wire embedded in said chemical material.

5. A hair waving device comprising a longitudinal absorbent casing, a powdered chemical within said casing acting as a filler for said casing and simultaneously adapted when moistened to generate sufficient heat to impart a permanent wave to a tress of hair wound on said casing, an outer longitudinal casing of greater length than said casing and encasing said casing, inert filling material within the longitudinal casing forming a filler therefor, and a pliable member extending through said casing whereby when the end portions of the device are bent over they serve to maintain a fixed position on said rolled tress of hair.

6. A hair waving device comprising a longitudinal absorbent casing, a powdered chemical within said casing acting as a filler for said casing and simultaneously adapted when moistened to generate sufficient heat to impart a permanent wave to a tress of hair wound on said casing, an outer longitudinal casing of greater length than said casing and encasing said casing, inert filling material within the longitudinal casing forming a filler therefor, and a pliable member extending through said casing whereby when the end portions of the device are bent over they serve to maintain a fixed position on said rolled tress of hair, said pliable member comprising a pliable wire extended through the chemical in said inner container and the inert filling material in the outer container.

LILLIAN TROTTER.