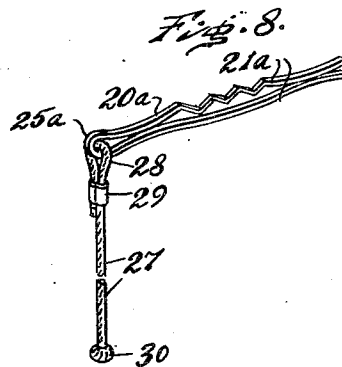
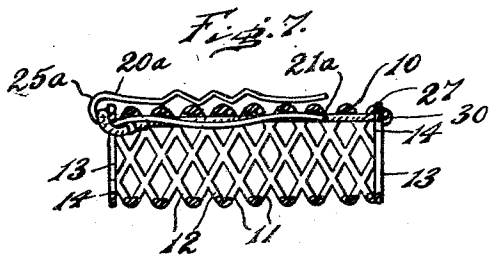
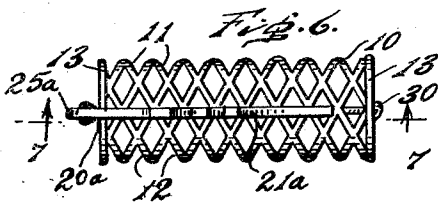
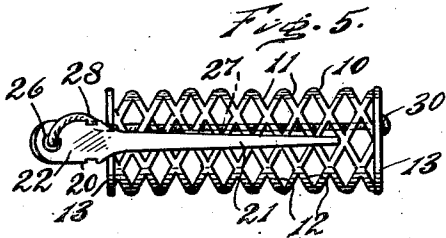
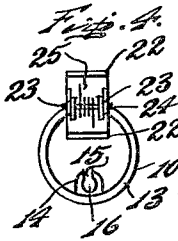
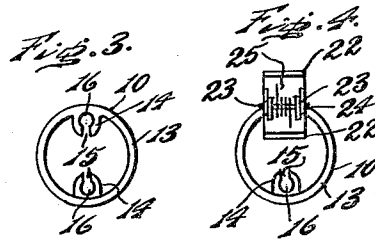
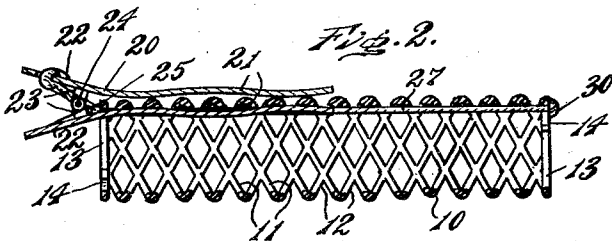
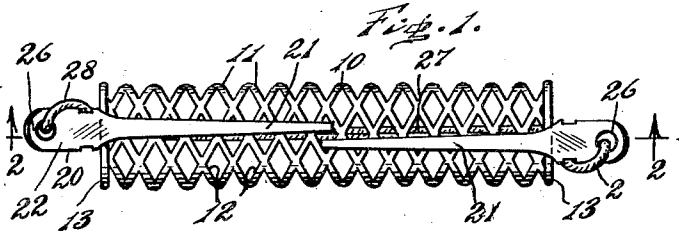


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HAIR FORMERS AND RETAINERS

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HAIR FORMERS AND RETAINERS

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6 Claims. (Cl. 132—37)

This invention relates to hair formers and retainers for human hair.

It has heretofore been proposed to employ cylindrical mandrels on which the hair is wound for curling, permanent waving and other treatments, and to employ a clip, resilient bifurcated pin, or the like, for holding the hair wound on the mandrel.

The loss of hair holding devices, or damage thereto after falling onto the floor, may run as high as ten percent over a short period of time.

It is the principal object of the present invention to provide a hair former and retainer which is simple in construction and which has a wide range of usefulness in various hair forming operations.

It is a further object of the present invention to provide a hair former and retainer with which the hair can be wound onto a mandrel without the use of tissue paper, lamb's wool, or the like, for initially gripping and holding the tips of the strands to be wound onto a mandrel.

It is a further object of the present invention to provide a hair former and retainer with which the hair can be initially gripped, then rolled or curled upon the mandrel, and then gripped and held for further treating operations with a holding device which is readily available.

It is a further object of the present invention to provide a hair former and retainer which can be made in a variety of lengths to accommodate various hair treating operations and with which holding devices of known type can be employed.

It is a further object of the present invention to provide a hair former and retainer in which the mandrel with hair coiled or wrapped thereon can be bent between its ends to accommodate itself to the shape of the head on which the same is used and held in such condition.

It is a further object of the present invention to provide a hair former and retainer having an improved character of liquid and gas or air circulation therethrough.

It is a further object of the present invention to provide a hair former and retainer with which objectionable cross depressions or the like will not be formed on the hair.

It is a further object of the present invention to provide a hair former and retainer having one or more holding devices resiliently attached thereto and ready for use as desired.

It is a further object of the present invention to provide a hair former and retainer which is particularly suitable for home use.

Other objects and advantageous features of the invention will be apparent from the specification and claims.

The nature and characteristic features of the invention will be more readily understood from the following description, taken in connection with the accompanying drawings forming part thereof, in which:

Figure 1 is a view in elevation of a preferred form of hair retainer in accordance with the present invention;

Fig. 2 is a longitudinal sectional view taken approxi-

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mately on the line 2—2 of Fig. 1, one of the holding devices being omitted;

Fig. 3 is an end elevational view of the structure shown in Fig. 1 as seen from the right, parts being omitted in the interest of clarity;

Fig. 4 is an end elevational view as seen from the left of Fig. 2, parts being omitted in the interest of clarity;

Fig. 5 is a view in elevation of a simplified form of the hair former and retainer in accordance with the invention;

Fig. 6 is a view similar to Fig. 5 showing a different form of holding device;

Fig. 7 is a vertical central sectional view of a hair former and retainer in accordance with the invention taken approximately on the line 7—7 of Fig. 6; and

Fig. 8 is a view in perspective of the holding device and retaining cord removed from Fig. 7.

It should, of course, be understood that the description and drawings herein are illustrative merely, and that various modifications and changes can be made in the structure disclosed without departing from the spirit of the invention.

Like numerals refer to like parts throughout the several views.

Referring now more particularly to the drawings the hair former and retainer in accordance with the invention preferably includes a hollow cylindrical mandrel 10, of any desired construction and material.

One suitable form of mandrel 10 is made of molded synthetic plastic material, papier mache or paper board, with a plurality of helical bands or strips 11 of one hand intersecting and integrally connected to a plurality of helical bands or strips 12 of the opposite hand to provide an open mesh construction which is flexible and can be bent or bowed along its longitudinal axis. The bands or strips 11 and 12 preferably terminate at and integrally merge into end rings 13 at each end.

One or both of the end rings 13 is provided with a radially inwardly extending tab 14 having a slot 15 extending outwardly therein with the inner end 16 of the slot enlarged.

A holding or clamping device 20 of any suitable and conventional type can be employed, such as a well known type of spring clamp having a pair of parallel arms 21 with enlarged diverging outer ends 22 and with side lugs 23 through which a pivot pin 24 extends, a coil spring 25 being provided on the pivot pin 24 for urging the arms 21 to clamped position, but permitting the separation of the arms 21 upon manual application of pressure to the ends 22. The ends 22 have suitable openings 26 there-through.

A retaining cord 27, of resilient and extensible material, such as rubber, is provided which is secured to the clamping device 20 at one of the openings 26 and in any desired manner, can have a loop or bight 28 held by any suitable fastening such as a clamp 29, or a knot or the like. The cord 27 preferably extends along the interior of the tube and at its opposite end is held in the end 16 of the slot 15. The cord 27 can have a knot or other terminal enlargement 30 to prevent its terminal end from moving along the interior of the mandrel 10 when the cord 27 is tensioned.

While the holding device 20 illustrated in Figs. 1, 2, 4 and 5 is suitable for certain purposes it is equally or more advantageous to employ a hair holding device of well known type, such as that shown at 20a, having a pair of arms 21a connected at one end by a resilient loop 25a which permits the separation, to a limited extent, of the arms 21a. With such a holding device 20a, the cord 27 preferably has an open loop or bight 28 provided therein to permit the free movement and turning of the holding device 20a, as desired.

As illustrated in Figs. 1 and 2, the mandrel 10 can be of a length greater than the length of the conventional holding devices 20 or 20a, and of the order of three inches, in which case a plurality of clamps 20 or 20a are employed, one of which can extend inwardly in each direction and with the retaining cords 27 extending to holding tabs 14 at the opposite or remote end rings 13 of the mandrel 10, as illustrated in Figs. 1 and 2.

With one or more clamping devices 20 or 20a, having their cords 27 extending lengthwise within the mandrel 10 and with their terminal enlargements 30 at the opposite ends of the mandrel 10 from the ends 22 or 25a, if desired, the clamping devices 20 or 20a can be disposed in the interior of the mandrel 10 and the mandrel 10 employed for simple rolling of a coil of hair thereon.

If desired, the one or more of the holding devices 20 or 20a can be used for initially clamping the ends of a strand of hair onto the mandrel 10 with one arm 21 or 21a interiorly disposed in the mandrel 10 and the other arm 21 or 21a holding such ends against the outer face of the mandrel 10. The cord 27 will permit the retraction of the holding device 20 or 20a for this purpose but will prevent the loss or distant movement of the holding device 20 or 20a.

With the ends of the strand thus held, the strand of hair can then, without the ends of the strand coming loose, be wound onto the mandrel 10 to the desired extent.

One or more of the holding devices 20 or 20a can then be retracted longitudinally axially of the mandrel 10 and replaced with one of its arms 21 or 21a interiorly disposed, as before and the other of its arms 21 or 21a in engagement with the exterior of the coiled or wound strand to hold the same for liquid or other treatment. If desired, the initially applied holding device or devices 20 or 20a can be left in the initial position referred to, and a holding device 20 or 20a or a plurality of holding devices 20 or 20a can be applied to the coiled or wound strand with their inner arms 21 or 21a in engagement with the interior of the mandrel 10 and with their outer arms 21 or 21a in engagement with the exterior of the coiled or wound strand.

With a coiled or wound strand on the mandrel 10, also, if desired, and particularly with a longer mandrel 10, if a plurality of holding devices 20 or 20a are disposed on the same side of the mandrel 10, the mandrel 10 can be

slightly bowed along its longitudinal axis and between its end rings 13 to conform to the shape of the head. The cords 27 by their tension will then aid in maintaining the bowed shape.

Other uses will readily occur to those familiar with coiffure formation.

What is claimed is:

1. A hair former and retainer comprising a hollow tubular mandrel, a holding device having a pair of parallel gripping arms having corresponding free ends and being connected at their opposite ends exteriorly of the mandrel, said holding device having one of said arms for engagement with the interior of the mandrel and the other of said arms for exterior gripping engagement, a resilient cord connected to said holding member at said connected ends and interiorly disposed in said mandrel and connected thereto at the end of the mandrel opposite to that at which said connected ends are disposed.

2. A hair former and retainer as defined in claim 1 in which a plurality of holding devices are provided with their arms extending inwardly from opposite ends of said mandrel.

3. A hair former and retainer as defined in claim 1 in which said mandrel has a cord engaging member at one end thereof.

4. A hair former and retainer as defined in claim 1 in which said mandrel has a radially inwardly extending cord engaging tab at one end thereof.

5. A hair former and retainer as defined in claim 1 in which said mandrel has a radially inwardly extending cord engaging tab at each end thereof.

6. A hair former and retainer as defined in claim 1 in which said mandrel has a radially inwardly extending cord engaging tab at each end thereof, and a plurality of holding devices are provided extending inwardly from opposite ends of said mandrel, the cords for each of said holding devices extending to a tab at the opposite end.

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