

Aug. 10, 1926.

1,595,272

E. W. WEATHERS
HAIR WAVING APPARATUS

Filed Nov. 6, 1924

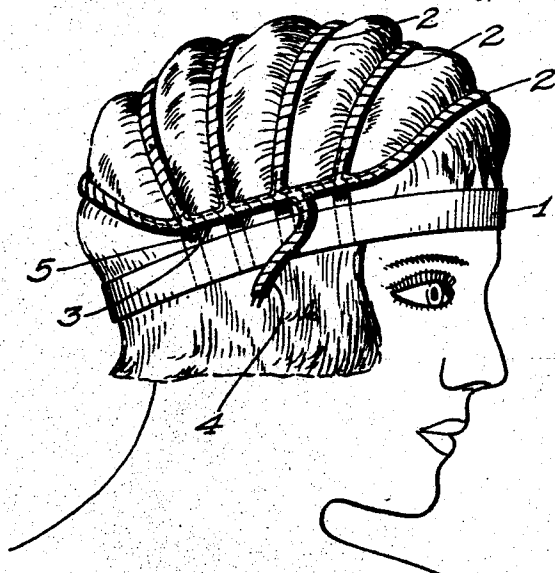


FIG. 1.

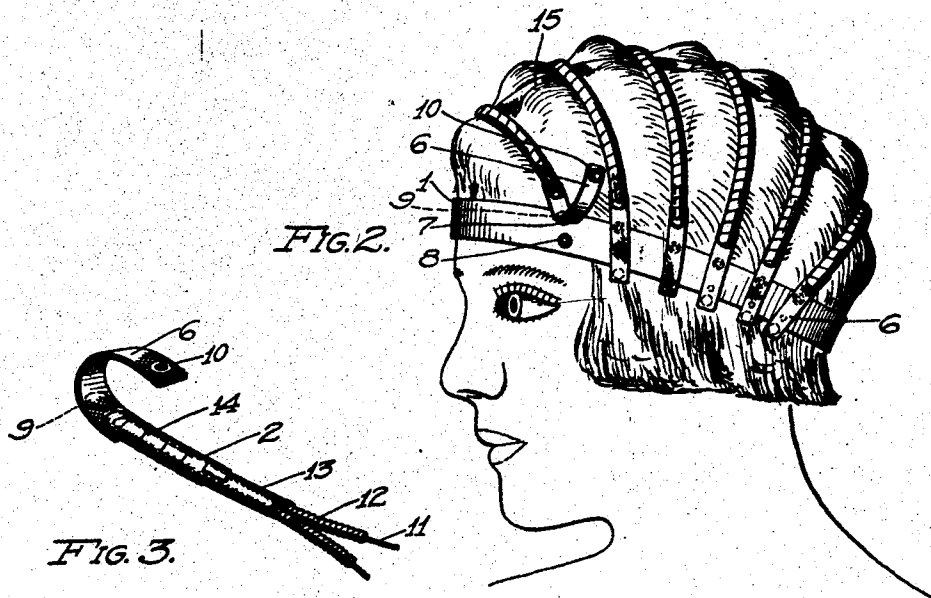


FIG. 2.

FIG. 3.

Inventor

EATHELBERT W. WEATHERS.

By

A. B. Borman

Attorney

UNITED STATES PATENT OFFICE.

EATHELBERT W. WEATHERS, OF SAN DIEGO, CALIFORNIA, ASSIGNOR OF FORTY PER CENT TO WALTER S. GRAHAM, OF SAN DIEGO, CALIFORNIA.

HAIR-WAVING APPARATUS.

Application filed November 6, 1924. Serial No. 748,062.

My invention relates to a hair waving apparatus, more particularly to an electrically heated apparatus of this class, and the objects of my invention are: First, to provide a hair waving apparatus which may be easily slipped over the head in any position desired for waving the hair in either longitudinal, transverse or angular waves; second, to provide an apparatus of this class which is applicable for most any size of head and style of hair; third, to provide a hair waving apparatus whereby the hair is beautifully and efficiently waved or curled by the application of moderate heat without the application of moisture or destructive hair waving or curling chemicals; fourth, to provide a hair waving apparatus having a plurality of separate electrically heated bands adapted to variously extend over the hair of the head, depending upon the direction and kind of wave desired; fifth, to provide a hair waving apparatus of this class consisting of a retaining band adapted to extend around the head and a plurality of electrically heated hair waving and curling bands secured at one side thereof and detachably secured to the first mentioned band at its opposite side; sixth, to provide an electrically heated apparatus of this class having a continuous electric heating wire, electrically insulated from its outer casing but adapted to efficiently transmit heat thereto; seventh, to provide as a whole a novelly constructed hair waving apparatus; eighth, to provide a novelly constructed electrically insulated and heat transmitting electric heating wire or band and one which is simple and economical of construction and durable, and ninth, to provide a hair waving apparatus of this class which is simple and economical of construction, durable, efficient, and which will not readily deteriorate or get out of order.

With these and other objects in view, as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions, as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon, which form a part of this application, in which:

Figure 1 is a profile view of the head of a woman, showing my hair waving apparatus

secured around the head and over the hair thereof; Fig. 2 is another profile of the head shown in Fig. 1, but taken from the opposite side, showing particularly the means and method of detachably and variously securing the free ends of the heating bands to the retaining or supporting band extending around the head, and Fig. 3 is an enlarged fragmentary perspective view of the free end of one of the electrical heating bands.

Like characters of reference refer to similar parts and portions throughout the several views of the drawings.

The elastic retaining band 1, electrical heating bands or cords 2, connecting and energy distributing cord 3, electrical energy supply cord 4, elastic securing members 5 and 6, snap members 7, 8, 9 and 10, heating wires 11, insulating beads 12, sleeves 13 and the covering 14, constitute the principal parts and portions of my hair waving apparatus.

The retaining member 1 of my hair waving apparatus consists of a substantially wide elastic band adapted to extend around the head in various positions relatively to the forehead and back head to retain the hair waving members 2 in certain fixed positions relatively to the hair. These hair waving members 2 are electrically heated bands or cords which extend across the top of the head in engagement with the hair of the user and each is secured at one end to the connecting and electrical energy distributing cord 3, the end heating bands or cords 2 preferably merging into the ends of the cord 3, substantially as shown in Fig. 1. To this cord 3 is electrically connected the electrical energy supply cord 4. This cord 3 is secured by means of elastic members or strips 5, at the terminations therewith of the intermediate heating cords 2, to the elastic retaining band 1. To the opposite ends of the cords 2 are secured other elastic securing members or strips 6 which are adapted to be variously secured to the opposite side of the band 1 by means of snaps or other suitable means. To provide the greatest variation of adjustment of the free ends of the heating cords 2 relatively to the band 1, I have provided a plurality of pairs, depending upon the number of heating cords 2 employed, of ball snap members 7 and 8 secured to the outer side

of the band 1 transversely therewith, and to the inner sides of the elastic strips 6, pairs of socket snap members 9 and 10 adapted to receive the ball portions of the snap members 7 and 8. The spacing of the snap members 9 and 10 on the elastic strips 6 is considerably greater than that between the snap members 7 and 8 but less than twice the spacing between the latter, so that four different adjustments may be made.

The hair waving members or heating cords 2 are preferably spaced relatively to each other intermediate their ends by means of an elastic strip 15 secured to each of said members, as shown best in Fig. 2.

The heating element in the heating bands or cords 2 consists of a continuous heating or resistance wire 11 extending in series through each of the heating cords 2 and distributed by the cord 3, substantially as shown by dotted lines at the ends of the members 2 in all of the views of the drawings.

Each of the hair waving members or heating bands or cords 2 and the connecting cord 3 are provided with double heating or resistance wires 11, which are covered by or strung with electric insulating beads 12, preferably made of glass or other similar material to readily transmit heat. The two wires covered by beads are enclosed in a flexible sleeve 13, such as cotton fabric, which does not give a relatively great resistance to the penetration of heat therethrough. Around the sleeve 13 is wrapped a covering of cotton tape 14 to protect the cord.

It will be noted that a heating cord of this type may be made with only a single strand wire, if desired.

It is obvious from this construction, as illustrated in the drawings and disclosed in the foregoing specification, that there is provided a hair waving apparatus as aimed at and set forth in the objects of the invention and throughout the specification, and though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of my invention the construction, combination and arrangement substantially as set forth in the appended claims.

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

1. In an apparatus of the class described, a band adapted to extend around the head, and a plurality of electrically heated hair waving cords adapted to extend over the top of the head from one side of said band to the other.

2. In an apparatus of the class described,

a band adapted to extend around the head, a plurality of electrically heated hair waving cords adapted to extend over the top of the head from one side of said band to the other, and elastic means at the opposite ends of said cords for yieldably connecting the same to said band.

3. In an apparatus of the class described, a band adapted to extend around the head, a plurality of electrically heated hair waving cords adapted to extend over the top of the head from one side of said band to the other, and interchangeable interlocking securing means at one end of each of said cords for variously connecting the same to the one side of said band.

4. In an apparatus of the class described, a band adapted to extend around the head, a plurality of electrically heated hair waving cords adapted to extend over the top of the head from one side of said band to the other, elastic means at the opposite ends of said cords for yieldably connecting the same to said band, and interchanging interlocking securing means on said elastic means at one end of each of said cords for variously detachably securing the same to the one side of said band.

5. In an apparatus of the class described, a band adapted to extend around the head, a plurality of electrically heated hair waving cords adapted to extend over the top of the head from one side of said band to the other, elastic means at the opposite ends of said cords for yieldably connecting the same to said band, and elastic means connecting said cords with each other intermediate their ends.

6. In an apparatus of the class described, a band adapted to extend around the head, a plurality of electrically heated hair waving members electrically connected in series with each other at their corresponding ends and yieldably secured at said ends to the one side of said band, and securing means at the opposite free ends of said hair waving members for variously securing said free ends to the opposite side of said band.

7. In an apparatus of the class described, an elastic band adapted to extend around the head, a plurality of electrically heated hair waving members adapted to extend over the head between opposite sides of said elastic band, a connecting and energy distributing cord serially connecting one end of each of said hair waving members with each other, and an elastic means connecting said ends of said hair waving members to the one side of said band.

8. In an apparatus of the class described, an elastic band adapted to extend around the head, a plurality of electrically heated hair waving members adapted to extend over the head between opposite sides of said elastic band, a connecting and energy dis-

tributing cord serially connecting one end of each of said hair waving members with each other, an elastic means connecting said ends of said hair waving members to the one side of said band, and securing means for variously securing the opposite free ends of said hair waving members to the opposite side of said band. 15

9. In an apparatus of the class described,
10 a band adapted to be extended around the

head, and a plurality of electrically heated flexible hair waving members secured at their similar ends to the one side of said band and adapted to be secured at their opposite ends to the other side of said band.

In testimony whereof, I have hereunto set my hand at San Diego, California, this 23rd day of October, 1924.

EATHELBERT W. WEATHERS.