July 7, 1925. 1,544,713

C. S. ACKLEY

METHOD AND APPARATUS FOR WAVING HAIR

Filed March 10, 1922

Fig. 1.

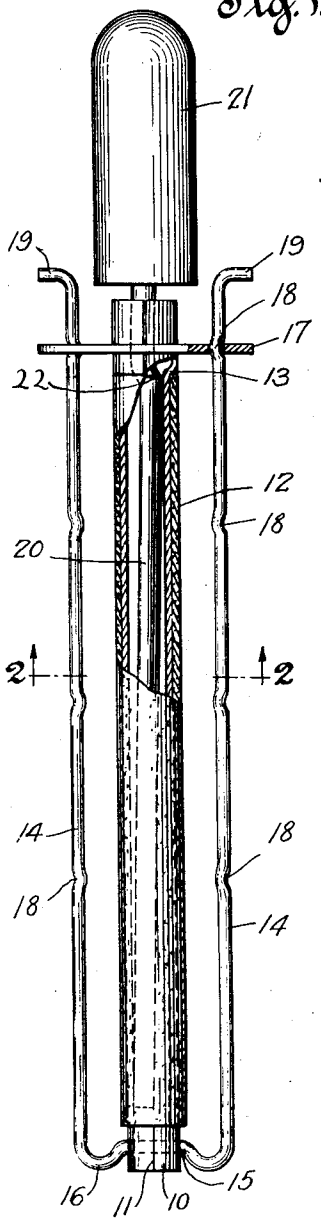


Fig. 2.

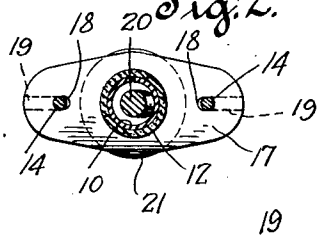


Fig. 3.

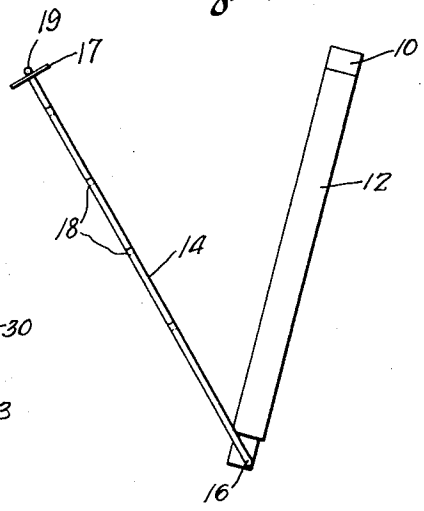


Fig. 4.

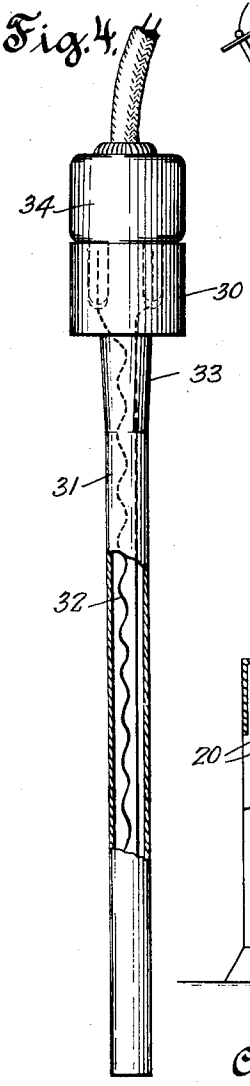
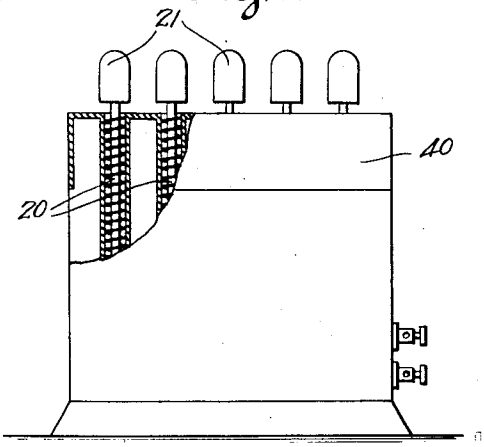


Fig. 5.



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UNITED STATES PATENT OFFICE.

CHARLES S. ACKLEY, OF NEW YORK, N. Y.

METHOD AND APPARATUS FOR WAVING HAIR.

Application filed March 10, 1922. Serial No. 542,692.

To all whom it may concern:

Be it known that I, CHARLES S. ACKLEY, a citizen of the United States, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Methods of and Apparatus for Waving Hair, of which the following is a specification.

This invention relates to devices for curling or waving hair.

One of the objects of the invention is to provide a hair waving device that is simple in construction, comprises few parts and may be economically manufactured.

Another object of the invention is to provide a device for making waves in the hair of such a character that the waves will have a superior lasting quality.

Another object of the invention is to provide a device of the character described that may be used without injury to the hair.

Another object of the invention is to provide a device of the character described having means for retaining a heating element in the curling or waving element.

Another object of the invention is to provide a method of producing waves in hair that will consume a minimum amount of time for its use.

Further objects of the invention will appear from the following description taken in connection with the drawings which form a part of this application and in which

Fig. 1 is an elevational view, partly in section, showing one form of curling device constructed in accordance with the invention.

Fig. 2 is a transverse sectional elevation taken substantially on line 2—2 of Fig. 1.

Fig. 3 is an elevational view on a smaller scale showing the curling tube and hair holding member swung apart.

Fig. 4 is an elevational view, partly in section, showing another form of the invention, this form being adapted for electrical heating and

Fig. 5 is an elevational view, partly broken away and partly in section, showing a heating device that may be used in connection with the form of heating element shown in Figs. 1 and 2.

The invention may be briefly described as consisting of a method of and apparatus for producing waves in hair, comprising a curling tube, a hair holding member pivoted thereto and a heating element adapted to be inserted in the tube. The tube has a covering of absorbent material and the heating element has a portion adapted to frictionally engage the tube whereby the elements will be held in the tube when desired.

Referring to the drawings, I have shown a curling tube 10 preferably formed of metallic tubing of resilient character and having a longitudinal slit 11 therein. The slit 11 may extend throughout the length of the tube if desired or inwardly from the free end for only a portion of the length.

A covering 12 of absorbent material such as asbestos is placed on the tube and as shown at 13 the portion of the tube having the covering thereon is of smaller diameter than the remaining portion so that the covered portion of the tube and the free end will have substantially the same overall dimension or lie in substantially the same cylindrical surface. A U-shaped hair holding member 14 is pivoted as shown at 15 to one end of the tube, the member 14 being offset as shown at 16 to retain the tube and member in the desired relative positions. A plate 17 is mounted adjacent the free ends of the legs of the U-shaped holder and a plurality of depressions or offset portions 18 are formed in the legs to engage the plate and retain it in the desired position of adjustment. In order to prevent the separation of the plate from the legs the free ends of the legs are bent laterally as shown at 19.

The heating element shown in Figs. 1 and 2 consists of a rod 20 having an insulating handle 21 at one end thereof and having a shoulder 22 formed therein adjacent the end on which the handle is secured. From the showing in Fig. 1 it will be noted that the shoulder will have a gripping action against the inner wall of the tube and will retain the rod in position therein by reason of the fact that the tube is slit longitudinally and therefore has a gripping action. It should be understood, however, that the slit in the tube may be omitted if desired since the resiliency of the rod is sufficient to take up the distortion thereof and will therefore effect sufficient gripping action to retain the rod in position. When, however, the tube is slit the spreading of the tube will cause its outer walls to engage the plate and assist in retaining the plate in adjusted position thereon.

The rod shown in Fig. 1 may be heated by gas or in any other desired manner, as by placing it in an electric heater such as is shown at 40 in Fig. 5.

In Fig. 4 an electrically heated heating element is shown. As illustrated the socket portion 30 of a plug and socket is secured to and forms the handle for the rod 31 which in this instance is hollow and encloses the heating wire 32. The portion of the rod 31 adjacent the socket 30 is tapered as shown at 33 and this tapered portion serves to spread the curling tube and the rod and tube are thereby held against accidental separation. The plug 34 which coacts with the socket 30 may be connected to any electric lighting fixture.

The operation and method of using the hair curling or waving device may be briefly described as follows. In the first place, the plate 17 is raised and the tube is swung away from the holder 14. The tube is then dipped in any desired form of moistening solution and the hair is wound around the tube and the absorbent covering thereof. The tube is then swung to a position between the legs of the holder 14 and the plate 17 is moved longitudinally on the legs of the holder to a position in which it engages the hair on the tube. If, for instance, the hair is wound on the full length of the covered portion of the tube the plate will be adjusted to the position shown in Fig. 1. If the hair is wound on only a portion of the tube, it being understood that the hair is wound from the pivoted end of the tube toward the free end, the plate will be adjusted to another position and caught and held in a pair of the depressions 18. When this has been done the heating element or rod which has been previously heated in the case of the form shown in Fig. 1, is inserted in the tube and because of its gripping action, it will be retained therein without the necessity of holding the rod. The heat from the rod will cause the moisture from the absorbent material to pass into the hair in the form of steam. This process is repeated with the form of the device shown in Fig. 1 by reheating and reinserting the rod until the hair is dry, thereby setting the wave. When the electrically heated element is used, the reheating or removal and reinsertion of the element is not, of course, necessary since the rod will be heated as long as the electrical connection is maintained.

From the foregoing description it will be seen that a simple, practical and effective device has been designed for accomplishing the objects of the invention and in actual tests it has been found that a wave having superior lasting qualities can be made within a comparatively short space of time.

Although certain specific embodiments of the invention have been shown and described, it will be understood that the invention is capable of further modification and that changes in the construction and in the arrangement of the various cooperating parts may be made without departing from the spirit or scope of the invention as expressed in the following claims.

What I claim is:

1. A device of the character described including a curling tube having a longitudinal slit and a heating rod adapted to enter the tube and having a portion adapted to spread the slitted portion of the tube to retain the rod therein.

2. A device of the character described including a curling tube having a longitudinal slit and a heating rod adapted to enter the tube and having an offset portion adapted to spread the slitted portion of the tube to retain the rod therein.

3. A device of the character described including a curling tube of resilient material and having a longitudinal slit and a heating rod adapted to enter the tube and having an inclined portion adapted to spread the slitted portion of the tube to retain the rod therein.

4. A device of the character described comprising a curling tube, a U-shaped holder pivoted thereon, a plate slidably mounted on the holder and having an opening to receive the tube, a heating rod adapted to be inserted in the tube and means for locking the rod to the tube and the plate to the tube.

5. A device of the character described comprising a curling tube having a slitted end, a U-shaped holder pivoted thereon, a plate slidably mounted on the holder and having an opening to receive the tube, a heating rod adapted to be inserted in the tube and means for spreading the slitted end of the tube to lock the rod to the tube and the plate to the tube.

6. A device of the character described comprising a tube having a covering of absorbent material and a heating element adapted to enter the tube to thereby impart heat to the tube and tube covering.

7. A device of the character described comprising a tube having a covering of absorbent material, a heating element adapted to enter the tube to thereby impart heat to the tube and tube covering, and means for holding hair in close engagement with the tube.

8. A device of the character described comprising a tube having a covering of asbestos material and a heating element adapted to enter the tube to thereby impart heat to the tube and tube covering.

9. A method of curling or waving hair which consists in winding the hair around a tube having a covering of moistened absorbent material and applying heat to the

tube from within the tube thereby steaming and subsequently drying the hair and setting the wave.

10. A device of the character described comprising a curling tube, a U-shaped holder pivoted thereon, a plate slidably mounted on the holder and having an opening to receive the tube, means for retaining the plate in a plurality of positions of adjustment on the holder and a heating element adapted to coact with the tube.

11. A device of the character described comprising a curling tube, a U-shaped holder pivoted thereon, a plate slidably mounted on the holder and having an opening to receive the tube, means on the holder for retaining the plate in a plurality of positions of adjustment on the holder and a heating element adapted to coact with the tube.

12. A device of the character described comprising a tube having a covering of absorbent material and a heating element for imparting heat to said tube and tube covering.

13. A device of the character described comprising a tube having a covering of absorbent material, a heating element for imparting heat to the tube and covering and means for holding hair in close engagement with the tube.

14. A device of the character described comprising a tube having a covering of asbestos material and means for heating the tube and covering.

15. A method of curling or waving hair which consists in placing the hair in contact with a tube having a covering of moistened absorbent material and applying heat to the tube from within the tube, thereby steaming and subsequently drying the hair and setting the wave.

In witness whereof, I have hereunto set my hand this 9th day of March, 1922.

CHARLES S. ACKLEY.