April 26, 1927. 1,626,254

A. H. SEXTON

HAIR CURLING AND WAVING DEVICE

Filed Feb. 18, 1926

Fig. 1.

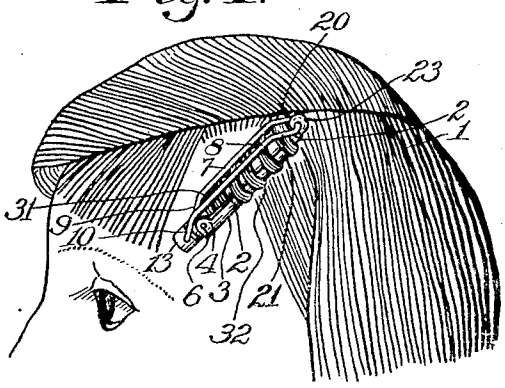


Fig. 7.

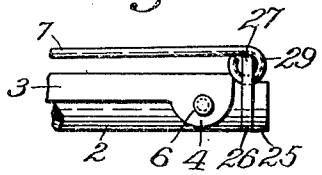


Fig. 8.

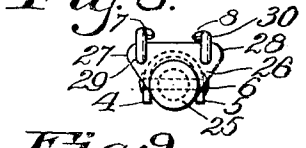


Fig. 9.

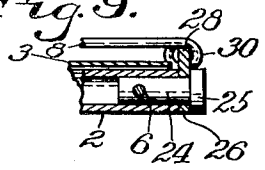


Fig. 2.

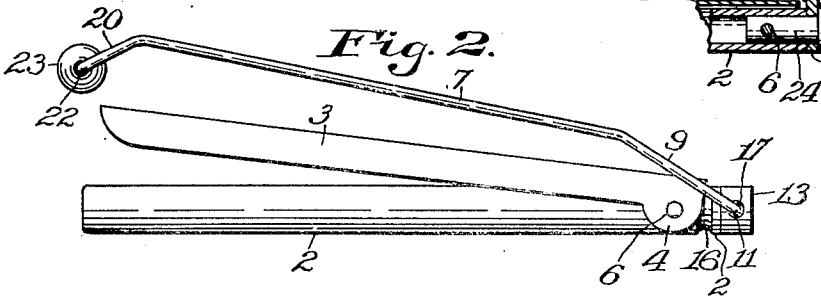


Fig. 3.

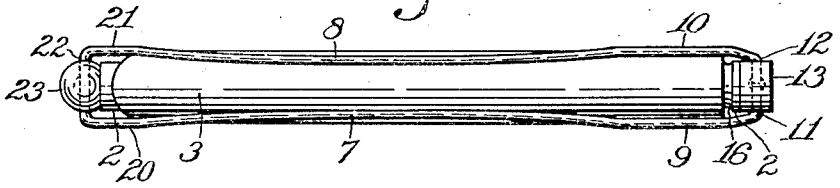


Fig. 4.

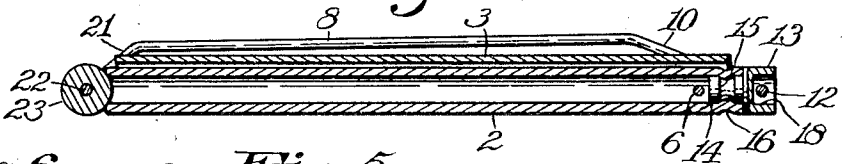


Fig. 6.

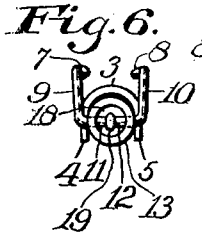
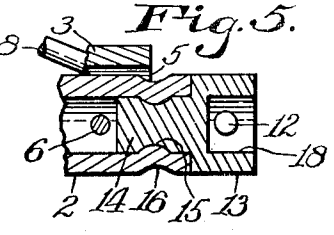


Fig. 5.



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UNITED STATES PATENT OFFICE.

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HAIR CURLING AND WAVING DEVICE.

Application filed February 18, 1926. Serial No. 89,099.

This invention relates to a device that is designed to be used to hold human hair and operate as an instrument to cause curling and waving of the hair, the invention relating more particularly to a curling device that is adapted to be placed with the hair wrapped thereon in a heater to accelerate the curling operations, and which is adapted to be repeatedly used indefinitely.

An object of the invention is to provide an improved hair curler of such construction as to permit a strand of hair to be wrapped upon the device and held so that the wrapping close to the head may be effected, in order to obtain the waving effect closely to the head of the person having the hair.

Another object is to provide an improved hair curling and waving device which shall not be costly, and shall be capable of conveniently holding hair to be curled, and also capable of withstanding heat that may be imposed upon it when inserted with hair wrapped thereon into a hollow heater to hasten the curling process.

A further object is to provide an improved hair curling and waving device that shall be adapted to clamp the complete strand of hair when wound thereon, and which may be readily removed from the hair windings without disarrangement thereof and in a rapid and convenient manner, which device shall be durable and economical in use.

With the above-mentioned and other objects in view, the invention consists in novel clamping apparatus and constructed to permit a strand of hair to be completely wound thereon and held in place during the process of curling, and permitting quick removal of the apparatus from the hair following the curling and waving process, the invention consisting further in the novel parts and combinations and arrangements of parts as hereinafter particularly described and further more definitely claimed.

Referring to the drawings,—Figure 1 is perspective view of the curling and waving device with a strand of hair thereon as when in operation; Fig. 2 is a side view of the curling and waving device with the several principal parts thereof standing apart to permit application of the device to a strand of hair; Fig. 3 is a front view of the device in which the principal parts thereof are connected as when in operation; Fig. 4 is a longitudinal central section of the device as preferably constructed; Fig. 5 is a fragmentary sectional reproduction of a portion of Fig. 4 on an enlarged scale; Fig. 6 is an end view of the preferred form of construction of the device; Fig. 7 is a fragmentary side view showing a slight modification as to details of the device; Fig. 8 is an end view of Fig. 7, and Fig. 9 is a longitudinal central section of the parts illustrating details of the modification.

Similar reference characters indicate like elements or features of construction throughout the different figures of the drawings and herein referred to in detail.

In the drawings the numeral 1 indicates a head of hair cut short so as to permit it to be curled and waved according to a popular style, long hair requiring a relatively longer curling and waving device than for short hair.

The improved hair curling and waving device, as preferably constructed, comprises a straight and smooth curler rod 2 which preferably is hollow and composed of tubing so as to avoid operations of boring into the ends of the rod. A clamp bar 3 is provided which is composed of thin sheet metal and is curved so as to be semicircular in cross-section to partially receive the rod 2, the clamp bar being of any suitable length, and it has hinge ears 4 and 5 on its edge adjacent to one end of the bar, the ears being arranged to loosely embrace the rod adjacent to one end thereof and being connected to the rod by means of a hinge pin 6 permitting the bar to swing towards or from the side of the rod. Two retaining rods are provided which are composed of spring-wire and comprise main portions 7 and 8 having obtuse-angled hinge portions 9 and 10 respectively that are provided with hinge pins 11 and 12 respectively. The curler rod is provided with a rotatively adjustable head 13 which has a stem 14 inserted into the end of the rod 2 adjacent to the hinge pin 6, the stem being cylindrical and having a peripheral groove 15 therein which receives a retaining rib 16 formed by pressing the metal of the rod 2 into the groove, the head to be turned relatively to the rod body. The head has pivot holes 17 in its side that extend to a counterbore 18 which preferably is made in the end of the head, and the pins

11 and 12 are inserted in the holes and preferably secured together by means of solder 19. The opposite ends of the retaining rods have obtuse-angled latch portions 20 and 21 respectively that extend beyond the opposite end of the rod 2 and are connected with an axle 22 which preferably is integral with the rods, a spherical roller 23 being arranged on the axle to be drawn over the adjacent end of the rod 2 and become seated in the open end of the rod, the relatively angular portions of the retaining rods permitting effective elongation of the rods to permit the roller to be forced over the edge of the rod 2.

In some cases the swiveled or rotatively adjustable head of the curler rod is slightly modified, a cylindrical stem 24 being tightly pressed into the end of the curler rod in lieu of the stem 14 and preferably is secured in place by means of the hinge pin 6, the stem 24 having a head 25 arranged slightly away from the end of the rod 2. A head 26 is arranged to turn on the stem 24 and it has ears 27 and 28 thereon to which rings 29 and 30 are connected respectively that are formed integrally with the retaining rods, so that the rods are hingedly connected to the adjacent head.

In practical use, preparatory to curling operations the retaining rods are swung away from the clamp bar and the curler rod, after which a strand of hair is partially wrapped on the rod 2, beginning with the end of the strand adjacent to the ears of the clamp bar, so that a suitable number of coils 31 are first made on the curler rod, the coils being closely arranged to result in hair curls, after which the clamp bar 3 is brought down onto the coils to hold them in place while the wrapping is continued so as to form coils 32 that extend about the clamp bar as the bar is approximately as long as the curler rod, the latter coils being open or separated coils which will result in waving of the hair. In some cases the retaining rods, if swung down over the clamp bar 3 would not bind the last coil 32 and it becomes necessary to turn the swivel head so as to permit the retaining rods to bind the complete coil to the curler rod, as appearing in Fig. 1, permitting the roller 23 to be forced into place to latch the rods to the curler rod 2, thus insuring the formation of coils of hair close to the head of the person. The hair may be retained on the apparatus during the night time to accomplish the purpose, but may be placed with the apparatus in a hollow or tubular electrical heater when immediate accomplishment of the hair curling is desired. The curling device may be quickly removed from the curled hair after first releasing the retaining rods and then pulling the curler rod and the clamp bar out of the coils while holding the coils by hand. The final result is waving hair close and in proximity to the head and the curling of the remaining end portions of the hairs.

What is claimed as new is:

1. A hair curling and waving device including a curler rod, a head rotatively connected to one end of the rod, a clamp bar hinged to the rod adjacent to the head, and a pair of retaining rods hingedly connected to the head and provided with a latch device to rotatively engage the opposite end of the curler rod.

2. A hair curling and waving device including a curler rod having a rotatable head on one end thereof, a clamp bar hinged to the rod adjacent to the head, and a retaining rod hingedly connected at one end to the head and having a rounded latch device on its opposite end adapted to rotatively engage the opposite end of the curler rod.

3. A hair curling and waving device including a curler rod having a head rotatively connected to one end thereof, the opposite end of the rod having a depression therein, a clamp bar hinged to the curler rod adjacent to the head, a pair of retaining rods hingedly connected to the head and having an axle connected thereto, and a roller on the axle to be entered in the depression in the rod.

4. A hair curling and waving device comprising a hollow curler rod, a clamp bar having two ears on opposite edges adjacent to one end thereof, the ears being pivotally connected to the rod adjacent to one end thereof, a head rotatively connected to the curler rod adjacent to said ears, two retaining rods hingedly connected to the head and having an axle connected thereto, and a spherical roller arranged on the axle to be carried thereby into the opposite end of the hollow curler rod.

5. A hair curler device comprising a tubular member having a swivel head at one end thereof, a semi-tubular clamping means adjacent to said tubular member and hinged at one end thereto, a keeper member supported at one end by said swivel head, and means for connecting the free end of the keeper member rotatively to the free end of the tubular member.

6. A hair curler having a rod provided with a rotatable head at one end of the rod, clamping means adjacent to said rod, securing means supported at one end by said rotatable head, and means for latching the opposite end of the securing means and rotatively relatively to the opposite end of said rod.

In testimony whereof, I affix my signature on the 9th day of February, 1926.

AUGUSTUS H. SEXTON.