

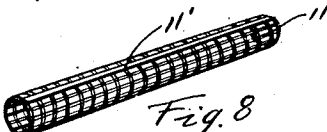
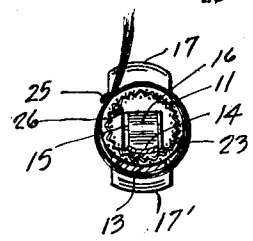
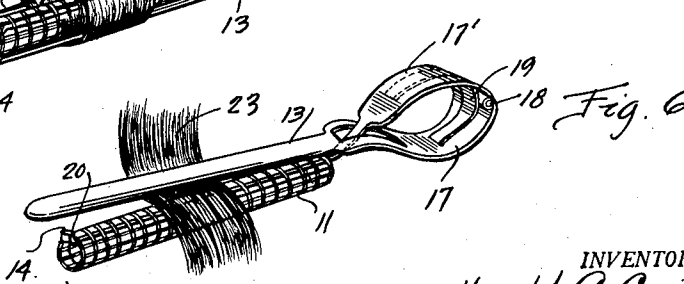
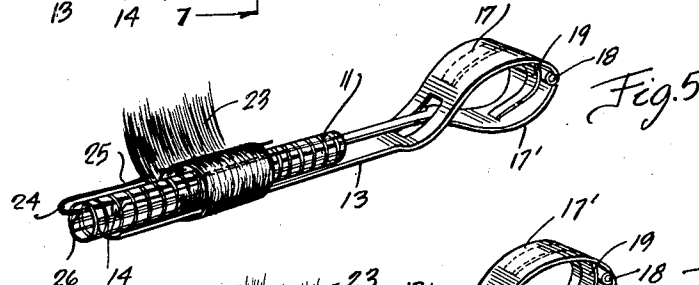
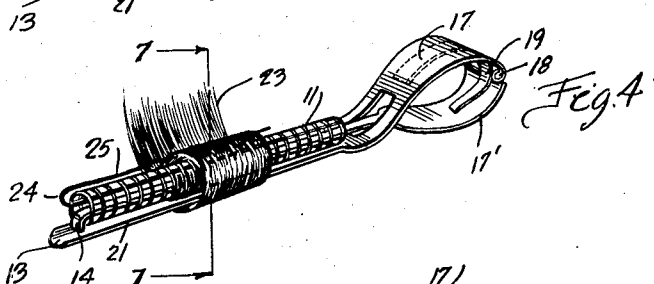
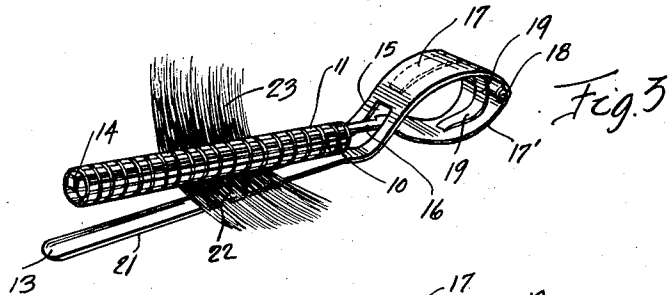
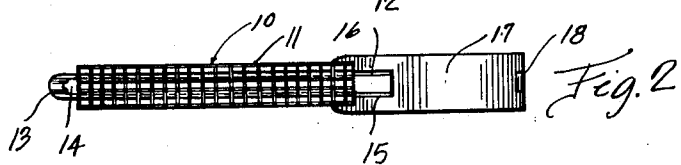
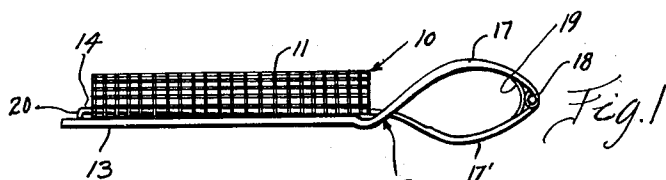
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HAIR CURLER

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HAIR CURLER

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1 Claim. (Cl. 132-41)

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This invention relates to certain new and useful improvements in hair curlers and an object of the invention is to provide a hair curler which will be highly efficient in use and economical in manufacture.

Among the several objects of the invention is to provide a hair curler having a core formed of such material, and in such a way as will be relatively light, thereby affording the maximum comfort to the user while wearing the core with the hair wound thereon.

A still further and equally important object of the invention is the provision of a hair curler which will afford ready mounting in curling position and easy, quick removal of the combined roller and clamp.

A still further and equally important object of the invention is to provide a curler which will reduce to a minimum the breakage of the hair due otherwise to excessive pressure or bearing action of the clamp upon the core during the rolling operation.

Yet another object of the invention is found in the provision of a combined roller and clamp which may be removed from the curl core without expanding the rolled hair or breaking or dragging the strands of hair during the removal of the clamp.

Another object of the invention is the provision of a curler which comprises the minimum number of parts and has the minimum of weight and one which can be manufactured in any size and finished to match the tint or color of the hair.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings showing the preferred form of construction, and in which:

Fig. 1 is a side elevational view of the hair curler embodying my invention;

Fig. 2 is a plan view of the same;

Fig. 3 is a perspective view of the same showing the first application of a bunch of hair upon the curl core;

Fig. 4 is a perspective view of the curler embodying the invention, showing the curl completed;

Fig. 5 is a perspective view similar to Fig. 4, showing the combined clamp and roller partially removed;

Fig. 6 is a perspective view of the hair curler

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showing the same in a position reversed from that shown in Fig. 3;

Fig. 7 is a cross sectional detail view to slightly enlarged scale taken substantially on line 7-7 of Fig. 4; and

Fig. 8 is a perspective view of the curl core.

In these drawings, my improved curler is indicated generally at 10. It comprises a curl core 11. This core 11 is preferably formed tubular in cross section and of a foraminated material which will assure the maximum degree of lightness. This material may be of finely woven wire mesh or it may be what is known as "plastic screen." The principal advantages resulting from the use of this material are the maximum of comfort, lightness, and quick drying of the hair. In addition, by making the core of foraminated material, when applied within the hair it will not be readily detected and therefore by reason thereof will be substantially concealed from view. This is an important factor of my invention, when it is considered that it is nothing unusual for the user of hair curlers to go about with the head uncovered during the curling process. The shade or color of the core may be such as will match the hair of the user, thereby increasing the concealment of the core when applied to the hair.

To complete the curler, there is provided what I term a combined clamp and roller, indicated generally at 12. This combined clamp and roller includes an elongated outer jaw 13 and an elongated inner jaw 14, the other jaw 13 having an elongated slot 15 formed therein through which an end portion 16 of the inner jaw 14 projects.

Corresponding end portions of these jaws 13 and 14 are reversely bowed as at 17 to provide finger gripping portions, and these finger gripping portions are hinged together as at 18. The jaws are biased into clamping engagement with respect to each other by means of a leaf spring 19, in the manner shown in Fig. 3.

To complete the invention, the inner jaw 14 has a right-angularly extending finger 20 which engages the adjacent end portion 21 of the jaw 13 to slightly space the jaws 13 and 14 from each other to reduce to a minimum pressure applied to the end 22 of a bunch of hair 23 disposed between the outer jaw 13 and the core 23.

Fig. 3 illustrates the first step in applying a bunch of hair 23 to the curler. In this view, it will be seen that the jaws 13 and 14 have been pivoted to open position, this being accomplished by holding the bowed portion 17 between the thumb and the index finger and applying pres-

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sure thereto, with the result that the jaws 13 and 14 are pivoted to the position shown in Fig. 3, to receive between the core 11 and the jaw 13 the end portion 22 of a bunch of hair 23, whereupon, after receipt of this bunch of hair, the jaws 13 and 14 are permitted to be biased by the spring 19 to the position shown in Fig. 4, in which position of the jaws the end portion 22 of the hair is lightly held, the finger 20 preventing undue pressure being transmitted to the hair between the core 11 and the jaw 13. After this has been accomplished, the core 11 is rotated by rotation of the combined roller and clamp, and the bunch of hair 23 is wound upon the roller and the jaw 13 as shown in Fig. 5.

At this stage of the operation, a hair pin or bobby pin 24 of any approved construction is inserted upon the core 11, with the outer limb portion 25 thereof disposed on the outer roll of the bunch of hair 23 and the inner limb 26 within the core 11. This hair pin or bobby pin 24, as before stated, may be of any approved construction. However, for best results, it is desirable that the limb 25 may be undulated a portion of its length so that the pin will be held more securely in place. The limb 26 may be a trifle shorter than the limb 25, this to facilitate insertion of the hair pin or bobby pin in the manner hereinbefore stated. It is, however, to be understood that any type of hair pin or bobby pin may be used, as I do not wish to limit my invention to any particular form of construction of hair pin or bobby pin.

To remove the combined roller and clamp, the operator exerts the greater pressure on the bowed portion 17 of the jaw 14. This is done to pivot the jaw 14 relative to the jaw 13 and to retain as stationary as possible the jaw 13. This operation will prevent the jaw 13 from pulling the bunch of hair 23 as rolled thereon and on the core 11, away from the core 11 and will dispose the jaws 13 and 14 in a position relative to each other whereby by gently sliding the jaws relative to the core 11, the roller may be removed from the core without disturbing the rolled bunch of hair thereon.

As before stated, the core 11 may be formed of any approved material, and if it is made from a sheet of foraminated material such as wire mesh or the like, the adjoining ends thereof may be secured together in any suitable manner, as by a connecting strip 11', as shown in Fig. 8.

When the hair curler is held in the position shown in Fig. 6 the finger 20 serves the function

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of preventing the core 11 from sliding off the jaw 14.

From the foregoing description taken in connection with the accompanying drawings, it is manifest that I have provided a hair curler relatively simple in construction, expeditious in operation and application to the hair, and one which can be manufactured economically. The hair curler as described assures maximum comfort to the wearer, the parts thereof being relatively light in weight.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

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

A hair curler comprising a curl core and co-operating jaw elements, said jaw elements having corresponding end portions bowed to provide finger grips, hinge means for connecting the corresponding end portions of said bowed portions together, and means for biasing said jaw elements into clamping position with respect to each other, one of said jaw elements being projected through said core and being provided with a right-angularly extending finger to limit the movement of the jaw elements into clamping position with respect to each other and to retain upon said one jaw said curl core when said jaws are in open position with respect to each other.

HAROLD C. CURTIS.

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