July 30, 1946. C. J. SIMONS ET AL 2,404,867

HAIR CURLER

Filed May 17, 1945

Fig. 1.

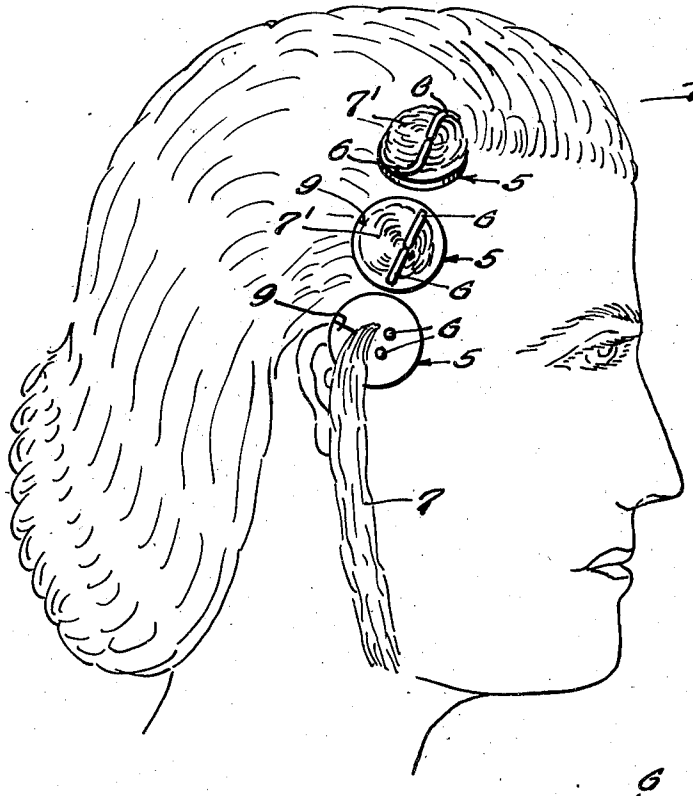


Fig. 4.

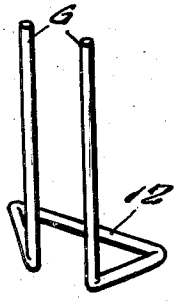


Fig. 3.

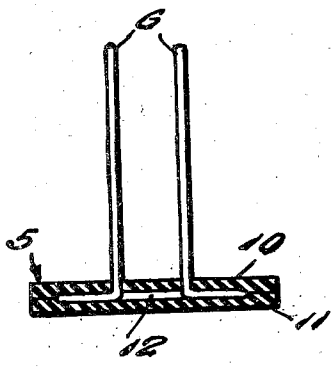
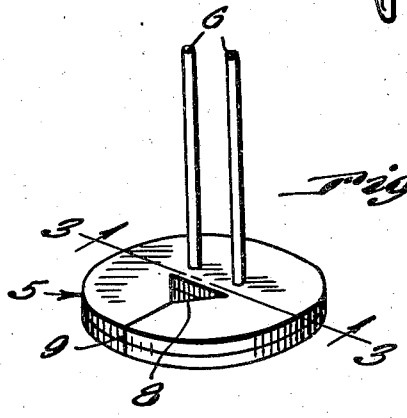


Fig. 2.



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HAIR CURLER

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2 Claims. (Cl. 132—40)

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This invention relates to improvements in hair curlers of that type embodying bendable elements to confine the wound lock of hair and prevent it from unwinding until the curl has set.

The primary object of the present invention is to provide a hair curler of the above kind which is of simple construction, efficient in use, and comfortable to the user.

Another object of the invention is to provide a hair curler of the above kind in which the lock of hair is wound upon the bendable elements, and in which said bendable elements are of sufficient length to provide a curler of variable capacity.

More specifically, the present invention contemplates the provision of a hair curler including a base plate adapted to be placed against the scalp and provided with outstanding flexible pins about the inner portions of which the lock of hair is wound from the inner end of the lock, or that end thereof adjacent the scalp, to the free or outer end thereof to form a curl, the projecting outer or free end portions of the pins being bendable to confine the wound lock of hair against the base plate and prevent it from unwinding from the pins until the curl has set.

In order to facilitate positioning of the pins adjacent the inner end of the lock of hair, the base plate has an opening adjacent the pins, and an entrance slit is provided in the base plate so as to lead from one side of the opening to the edge of the base plate. The base plate is preferably in the form of a two-layer laminated disc, preferably formed of soft flexible material, and the pins are preferably similar end portions of a single centrally return bent length of wire whose intermediate or bight portion is spread to form a large base member bent at a right angle to the end portions and secured between the laminations of the disc, said end portions projecting through one of said laminations.

The exact nature of the present invention will be clearly apparent from the following description when considered in connection with the accompanying drawing.

In the drawing:

Figure 1 is a side view illustrating two of the present hair curlers in use and a third hair curler applied to a lock of hair which has not yet been wound to form the curl.

Figure 2 is a perspective view of the hair curler.

Figure 3 is a section taken on line 3—3 of Figure 2.

Figure 4 is a perspective view of the wire member forming part of the curler shown in Figure 2.

Referring in detail to the drawing, the present

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hair curler includes a base plate 5 provided with outstanding flexible pins 6 about the inner portions of which the lock of hair 7 is wound from the inner end of the lock, or that end thereof adjacent the scalp, to the free or outer end thereof to form a curl. The projecting outer or free end portions of the pins 6 are bendable to confine the wound lock of hair 7' against the base plate 5 and prevent it from unwinding from the pins 6 until the curl has set.

In order to facilitate positioning of the pins 6 adjacent the inner end of the lock of hair, the base plate 5 has an opening 8 adjacent the pins 6, and an entrance slit 9 leading from one side of the opening 8 to the edge of the base plate.

The base plate is preferably in the form of a laminated disc composed of two layers 10 and 11 that are preferably formed of soft flexible material. The pins 6 are preferably similar end portions of a single length of wire that is centrally return bent and whose intermediate or bight portion is spread to form a large base member 12 bent at a right angle to the end portions or pins 6 and secured between the laminations of the disc. The end portions or pins 6 project through the lamination 10, and said laminations are securely joined together on their adjacent surfaces by cementing, vulcanizing or the like. The bendable nature of the wire member is such that the portions or pins 6 can be bent and straightened repeatedly so that the curler can be used many times without injury to the curler.

In using a curler of the present kind, a lock of hair of the desired quantity is combed free from the mass of hair on the head of the user, and the base plate 5 is disposed against the scalp and then moved toward the lock of hair, the inner end of the latter passing into the opening 8 adjacent the pins 6 through the slit 9. The lock of hair is then wound from the inner end thereof to the free or outer end thereof upon the inner portions of the pins 6, whereupon the outer projecting end portions of the pins are bent to confine the wound lock of hair against the base plate 5 so as to prevent the lock of hair from unwinding from the pins until the curl has set. After the lock of hair has taken the set of the curl surrounding the pins, the outer ends of the latter are bent outward to a substantially straight parallel condition and the curler is withdrawn from the hair by moving the base plate laterally with respect to the inner end of the lock of hair so that the latter passes outwardly from the opening 8 through the slit 9.

What we claim is:

1. A hair curler comprising a base plate, and outstanding flexible pins carried by the base plate and about the inner portions of which the lock of hair is wound from the inner end of the lock to the outer end thereof to form a curl, the outer end portions of the pins being bendable to confine the wound lock of hair against the base plate and prevent it from unwinding from the pins until the curl is set, the base plate comprising two laminations secured together, the pins comprising similar end portions of a single centrally return bent length of wire having an intermediate portion bent at right angles to the end portions and secured between the laminations of the base plate, said end portions projecting through one of said laminations.

2. A hair curler comprising a base plate, and outstanding flexible pins carried by the base plate and about the inner portions of which the lock of hair is wound from the inner end of the lock to the outer end thereof to form a curl, the outer end portions of the pins being bendable to confine the wound lock of hair against the base plate and prevent it from unwinding from the pins until the curl is set, the pins comprising similar end portions of a single centrally return bent length of wire having an intermediate portion bent at right angles to the end portions and embedded in the base plate, said end portions projecting from the base plate.

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