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A. ZACHARY

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HAIR CURLER

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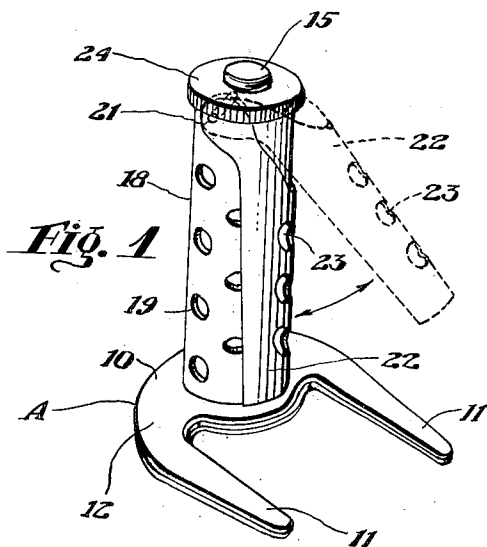
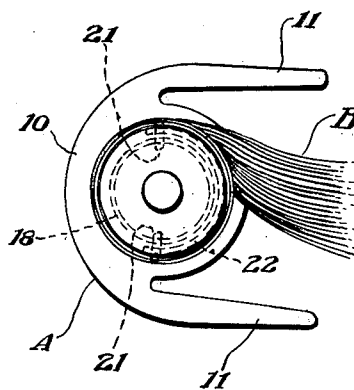
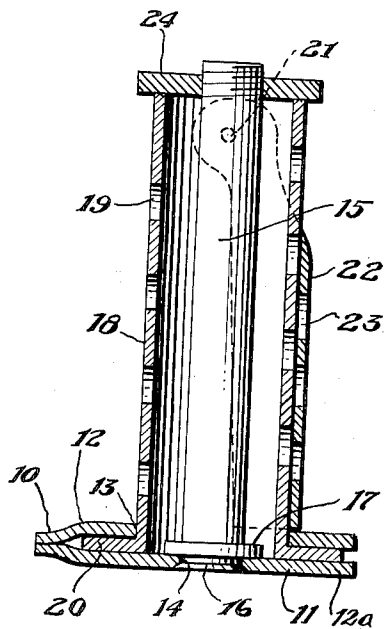
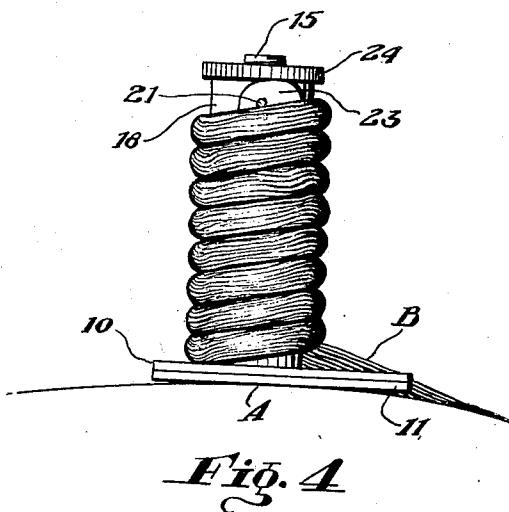


Fig. 3

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HAIR CURLER

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2 Claims. (Cl. 132-34)

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This invention relates to new and useful improvements in hair curlers for making ringlet curls in the process of permanent waving of the human hair.

In the present methods and with the present forms of curlers in use a limited number of curlers may be used on the head at one time and they are loosely related to the scalp so that they generally lie flat against the scalp along their length and take up much more room than is necessary and those already applied keep getting in the way of the operator who is trying to wind up adjacent curls to those already wound up. It is an object of this invention to permit the curlers to stand out perpendicularly to the scalp when the lock is wound up thereon so as to take up less room and so as to facilitate the treatment of the hair since the device is much more available and in this position is more easily affected by the drying air to speed up the process of drying.

Furthermore it is the object of this invention to provide means to speed up and facilitate the winding up of the lock on the device and then to quickly enable the device to be locked in wound-up position to hold the lock tightly curled up on the device.

Further and more specific objects, features, and advantages will more clearly appear from the specification hereinafter especially when taken in connection with the drawings which illustrate a present preferred form which the invention may assume and which form part of the specification.

Briefly and generally speaking, the invention includes a device which has a pedigerous base member, a stem projecting from and at right angles to the base member, a sleeve rotatable on the base member and around the stem, clamping means on the sleeve to grip the end of a lock of hair, and means on the stem to engage the sleeve and lock it in a predetermined wound position.

The present preferred form which the invention may assume is illustrated in the drawings, of which,

Figure 1 is a perspective view, showing the clamping member in closed position in full lines and in open position in dotted lines.

Figure 2 is a top plan view of the device with a lock of hair curled thereon.

Figure 3 is a vertical sectional view through the device.

Figure 4 is a side elevational view showing the lock of hair curled on the form and the device anchored in position upon the scalp.

The idea of this invention is to take a lock of hair at a time and roll it upon a rotatable sleeve

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supported around a stem projecting from a base member so that when the lock is entirely rolled thereon the base member is resting flat against the scalp and the stem is standing perpendicularly away from the scalp.

To this end the invention in its preferred form as shown comprises a base member A somewhat U-shaped having a main body portion 10, with spaced foot portions 11-11 extending from opposite ends of the body portion 10. The base member A is preferably made of upper and lower plates 12 and 12a which may be suitably connected together by any suitable method such as spot welding especially along the foot portions 11-11 but they are definitely spaced apart at the main body portion 10. See Figure 3. Also, the plates 12 and 12a may be formed from a single blank of material folded upon itself at the toe ends of the foot portions. The upper plate 12 is provided with a large aperture 13 therein and the lower plate 12a is provided with a smaller coaxial aperture 14.

A stem 15 is rigidly connected to the lower base plate 12a by preferably being swaged thereto in the opening 14 as at 16 and has a flange 17 thereon just above the lower plate to enhance its firm stand with respect to the base member. A sleeve 18 provided with perforations 19 has its lower end bent outwardly in the form of a circular flange 20 and this flange is adapted to be freely and rotatably swivelled between the upper and lower plates 12 and 12a of the base member A so that the sleeve can be turned by hand on the base member and around the stem 15.

At the upper end of the sleeve 18 there is pivoted on pins 21 a hair clamping member 22 which when swung inwardly against the outer surface of the sleeve 18 lies closely thereagainst and has a curved form to conform to the curvature of the surface of the sleeve 18 as shown. This clamping member 22 is also provided with perforations 23.

The top of the stem 15 is threaded to receive a nut 24 which when screwed down upon the stem will be forced against the upper end of the sleeve 18 and this engagement will prohibit further rotation of the sleeve with respect to the base or the stem 15.

In the use of the hair curler, a lock of hair B is gathered in the fingers of the operator and the free end of the lock is passed beneath the clamping member near its pivot point, after which the clamping member 22 is swung to clamping position. Next, the sleeve 18 is rotated to roll the lock of hair on the sleeve in a somewhat

3 spiral manner shown in Figure 4. The lock of hair is guided during the winding operation by the spaced apart feet 11—11, between which the lock passes. In this wind-up operation, when the roots of the lock of hair are reached, the base member bears against the scalp as shown in Figure 4, with the base of the lock of hair disposed between the feet 11. The nut 24 is then screwed down to clamp the sleeve 18 in position with the lock tightly curled thereon, and with the sleeve 18 and the stem 15 extending upright away from the scalp and substantially perpendicular thereto. Thus each curler as applied to its associated lock of hair will take up on the scalp or head of the person being treated a minimum of space and therefore many more curlers can be employed and more curls therefore formed. The hair is then treated in any desired and suitable manner and in the drying of it the perforations 19 and 23 in the sleeve and clamping member will facilitate the drying and expedite it.

It is obvious that the device is made of a few simple parts, that it can be cheaply manufactured, that it is simple and efficient, and very easy to operate.

While the invention has been described in detail and with respect to a present preferred form which the invention may assume, it is not to be limited to such details and form since many changes and modifications may be made in the invention without departing from the spirit and scope of the invention in its broadest aspects. Hence it is desired to cover any and all forms and modifications of the invention which may come within the language or scope of any one or more of the appended claims.

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

1. A hair curler comprising a base member including a main body portion and spaced feet

projecting therefrom, said base member formed of two superposed identical plates connected together except at the main body portion where they are spaced apart, said superposed plates having apertures therein, a stem extending through the aperture in the upper plate and connected to be seated in the aperture in the lower plate, a sleeve surrounding the stem and adapted to be rotated therearound, the lower end of the sleeve extending through the aperture in the upper superposed plate and being provided with a bent outwardly extending circular flange to lie between the spaced portions of the main body portion whereby the sleeve can be rotated around the stem.

2. A hair curler comprising a base member including a main body portion and spaced feet projecting therefrom, said base member formed of two superposed identical plates connected together at the free ends of the feet and spaced apart at the main body portion, a stem connected to the lower plate, a sleeve having a flange lying between the spaced portions of said base member and extending upwardly around the stem and adapted to be rotated, a pivoted clamping plate on the upper end of the sleeve, the upper end of the stem being threaded, and a nut on the upper end of the stem and movable to engage the upper end of the sleeve to hold it in a predetermined wound position.

ALEXIS ZACHARY.

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