O. E. VANDAMARK.

CURLER.

APPLICATION FILED JULY 6, 1916.

1,345,040. Patented June 29, 1920.

Fig. 1.

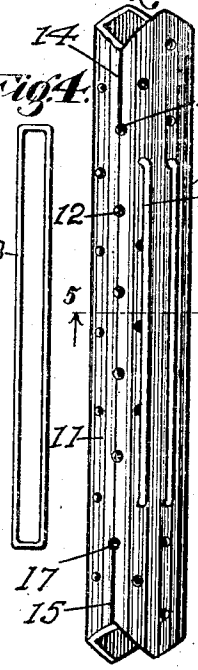


Fig. 4.

Fig. 2.

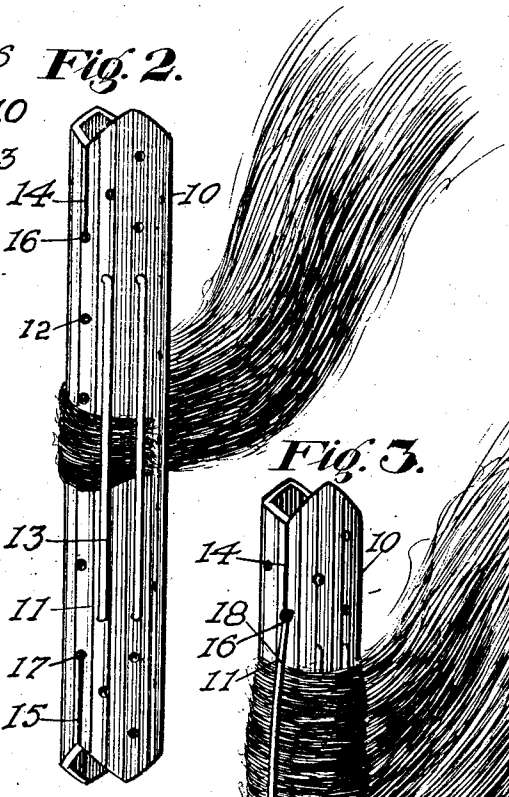


Fig. 6.

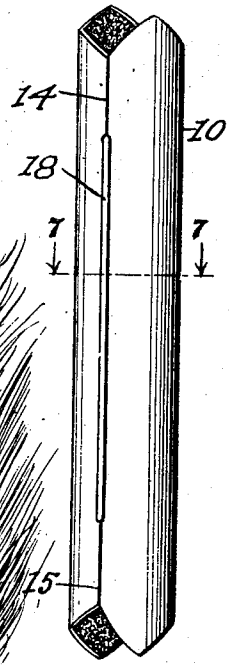


Fig. 3.

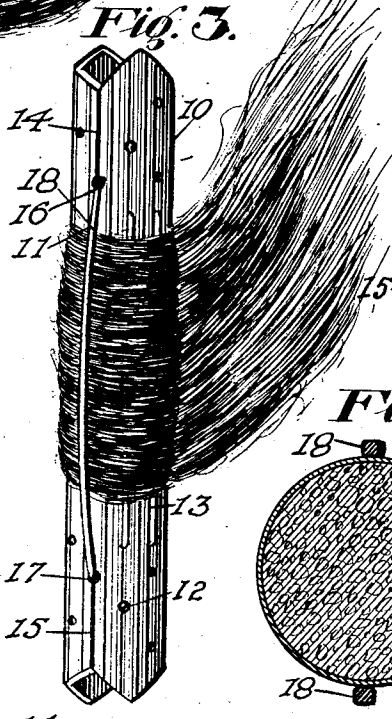


Fig. 5.

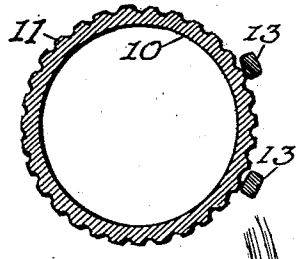
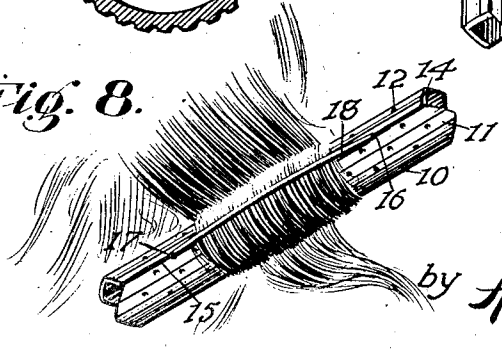


Fig. 7.

Fig. 8.



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CURLER.

1,345,040. Specification of Letters Patent. Patented June 29, 1920.

Application filed July 6, 1916. Serial No. 107,771.

To all whom it may concern:

Be it known that I, OLIVE E. VANDAMARK, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Curlers, of which the following is a specification.

This invention relates to a hair curler.

It is an object of this invention to provide a flexible device for curling hair adapted to be easily applied and which will, when in its operative position, retain the hair curled thereupon.

Another object is to provide a hair curler constructed of a non-metallic material and which insures that inconvenience will not be experienced by the wearer when in a reclining position.

Another object is to provide a curler with means for insuring ventilation throughout the portion of hair being curled and thus acting to completely and readily dry the hair.

Another object is to provide a curler which provides simple fastening means for holding the hair, said means being readily replaced without the necessity of discarding the entire device for a new one.

It is a further object to provide a hair curler which is decidedly simple in construction and may be applied and removed without difficulty and which is inexpensive to manufacture.

Other objects will appear hereinafter.

The invention is illustrated in the accompanying drawings in which:

Figure 1 is a view in side elevation of the body of the curler.

Fig. 2 is a view in side elevation of the body of the curler and illustrates the initial step in applying it to the hair.

Fig. 3 is a view similar to the preceding ones and illustrates the curler as in its final secured position upon the lock of hair as assumed while the hair is being curled.

Fig. 4 is a view in side elevation of the fastening member by which the device is held upon the hair.

Fig. 5 is a view in horizontal section as seen on the line 5—5 of Fig. 1 and illustrates the tubular construction of the body member as well as its corrugated outer surface.

Fig. 6 is a view in side elevation of a modified form of the body member in which the member is shown as formed of a solid element.

Fig. 7 is a view in horizontal section as seen on the line 7—7 of Fig. 6.

Fig. 8 is a view in perspective illustrating the application of the curler when used to wave the hair.

Referring to the drawings more particularly, 10 indicates a tubular body which forms the main element of the curler and which has extending throughout its length and entirely around its outer surface a series of corrugations 11. Formed through the wall of the body at equal intervals along its length are perforations 12 which afford a free circulation of air to the hair wrapped upon the curler. These curler bodies 10 are flexible and are preferably made of rubber which renders them impervious to moisture and which makes it possible for them to be freely bent, twisted, stretched, and folded upon themselves, and susceptible to being permanently colored to match various shades of hair.

The hair is adapted to be initially held upon the body member by a pair of fixed fasteners 13 which are made of a resilient material and which are preferably formed of rubber. The fixed fasteners are composed of strands of rubber which extend through perforations adjacent both ends of the body 10 and which lie parallel the length of the curler body. While I have shown the device as fitted with but a single pair of fixed fasteners, it is evident that a series of them could be disposed around the perimeter of the curler if necessary.

The curler body is formed at its ends with longitudinally extending slots 14 and 15 which terminate within perforations 16 and 17 similar to the perforations 12 and which prevent the slots from tearing out at their ends as well as act to hold the parted end portions in shape. The terminating ends of the curler body are cut V-shaped to form guide notches so that a removable fastener 18 may readily be drawn through the slots 14 and 15 and into the perforations at their ends.

The removable fastener is formed of rubber and resembles in all particulars an ordinary rubber band, by which it may be replaced in case of loss or breakage. This fastener, when in position upon the curler body, extends through and is engaged by the perforations at the ends of the slots and lies parallel upon diametrically opposite sides of the body and thus engages the lock of

hair upon both sides of the curler to securely prevent its becoming unwound and entangled. When thus positioned against shoulders formed by the perforations at the inner ends of the slits, the fastener is securely held against accidental disengagement on bending or twisting the curler body and insures the curler being retained in position on the head of the wearer during sleep.

In the modified form of the invention as disclosed in Figs. 6 and 7 of the drawings, the curler body is formed of a solid cylindrical piece of sponge rubber. The outer configuration of the modified curler body is the same as the preferred form except for the longitudinally extending corrugations which have been removed.

When the hair is to be curled upon one of these curlers, the lock is combed smooth and the end thereof positioned beneath the fixed fasteners 13 which tend to hold it upon the curler body while being wound. It has been found that where the ends of the locks have been trimmed off square, the fixed fastener is quite essential. However, where the lock is in its natural condition and the end gradually tapers, the hair will readily bind itself upon the curler body without the need of fasteners. After the hair has been suitably bound at its end so that it will not slip, the curler is turned until the desired length of hair has been wound thereupon. The lock thus wound upon the curler body is then secured by means of the removable fastener which is stretched over the ends of the body and into the slots 14 and 15 where it will remain due to its stretched condition until removed. When the hair is so positioned, it will be noted that a free circulation of air will be maintained through it by means of the tubular body construction and the perforations 12 which are distributed throughout the length and circumference of the curler body. This circulation insures that the hair will readily dry if it has been moistened and that the end of the lock will be as well curled as the outer exposed portion. It will further be noted that due to the flexible nature of the curler body the curlers will freely bend, twist, stretch, and fold upon themselves, and by reason of their soft, yieldable character occasion no discomfort to the wearer while the wearer is in a reclining position and that they will immediately straighten out upon being relieved because of their resilient character.

When the curler is used in waving the hair, the fixed fasteners are not employed and the curler is held close to the scalp while the remaining hair is wrapped around it. When the entire lock has been wrapped upon the curler body it is held as previously described by means of the removable fastener.

It will thus be seen that the hair curler here provided is decidedly simple in its construction and in the manner in which it may be applied to the hair and that it will perform its function without inconvenience to the wearer.

I claim:

1. A hair curler, comprising a flexible tubular body, a series of ventilating perforations formed throughout the length and circumference of said tubular body, resilient fixed fasteners secured to and extending lengthwise of the tubular body and adapted to hold the end of a lock of hair to be wound upon the body, longitudinally extending slots formed in the ends of the tubular body, and a removable flexible fastener adapted to be positioned within said slots to hold the lock of hair upon the tubular body and in its wound position.

2. A hair curler, comprising a flexible tubular non-metallic body, longitudinal corrugations extending throughout the length of said tubular body, a series of perforations formed through the wall of said body, fixed flexible fasteners extending lengthwise of the tubular body and parallel to each other, and a flexible detachable fastener adapted to engage the opposite ends of the tubular body and extend lengthwise and upon opposite sides thereof.

3. A hair curler comprising a cylindrical elastic body soft and yieldable throughout formed with V-cuts at its ends and having open ended longitudinal slits opening to the V-cuts, and an elastic band adapted to encircle the body longitudinally and be engaged in the slits.

4. A hair curler comprising a resilient and elastic tubular body capable of being doubled upon itself and formed with a series of ventilating perforations and corrugated longitudinally, said body being provided with slits at its ends terminating in perforations, and a removable flexible fastener adapted to be positioned within said last named perforations to hold a lock of hair wound on the body.

5. A hair curler comprising a resilient and elastic tubular body capable of being doubled upon itself and having a series of ventilating perforations formed therein and having open ended slits at its ends terminating in perforations, and a removable flexible fastener adapted to be positioned within said last named perforations to hold a lock of hair wound on the body.

6. A hair curler comprising a resilient and elastic tubular body capable of being doubled upon itself and having open ended slits at its opposite ends terminating in perforations, said perforations forming shoulders at the inner ends of the slits and a flexible fastener insertible through the slits and engageable in the perforations for retaining hair wound on the body.

7. A hair curler comprising a resilient and elastic tubular body capable of being doubled upon itself and having an open ended slit in its end terminating in a perforation forming shoulders at the inner end of the slit, and a flexible fastener engageable in the perforation and slit for holding hair wound on the body.

8. A hair curler comprising a resilient and elastic tubular body capable of being doubled upon itself and having open ended slits at its opposite ends terminating in perforations, said perforations forming shoulders at the inner ends of the slits, the outer ends of the slits opening to V-shaped guide notches, and a flexible fastener insertible through the slits and engageable in the perforations for retaining hair wound on the body.

In testimony whereof I have signed my name to this specification.

OLIVE E. VANDAMARK.