

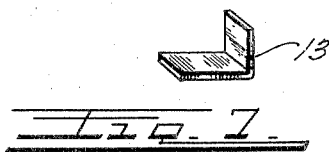
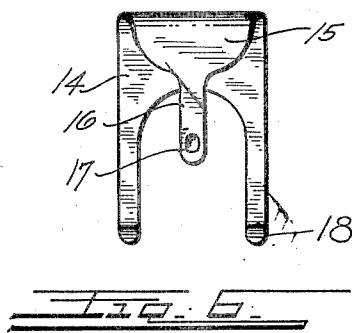
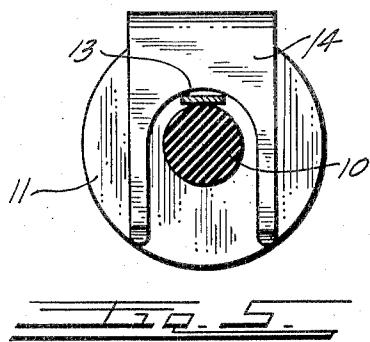
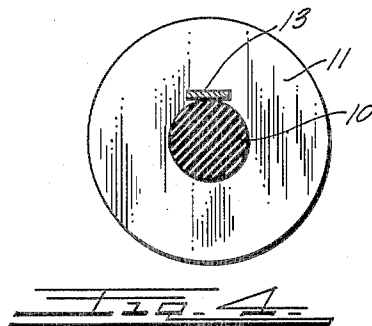
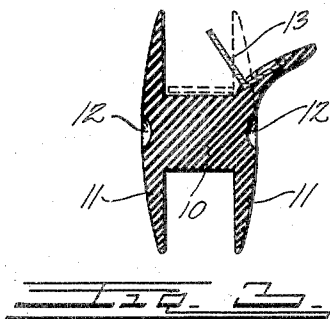
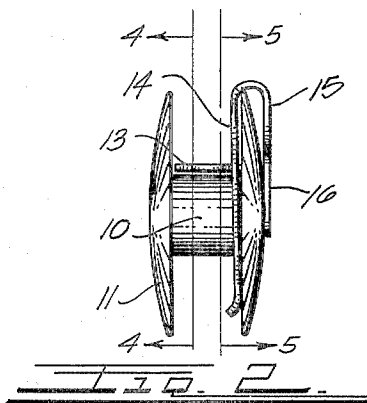
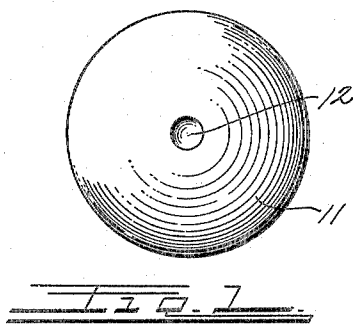
April 8, 1941.

Z. LEMLEY

2,237,942

RINGLET CURLER

Filed June 24, 1940



INVENTOR.

ZACK LEMLEY

BY

R. H. Palmer

UNITED STATES PATENT OFFICE

2,237,942

RINGLET CURLER

Zack Lemley, Denver, Colo.

Application June 24, 1940, Serial No. 342,088

9 Claims. (Cl. 132-40)

This invention relates to a hair curling device and has for its principal object the provision of a device which can be applied by the user, without expert assistance, to produce the flat, whirly-type ringlet curls which lie flat on the head.

The invention is designed more particularly as an improvement over the curler shown in applicant's prior Patent No. 2,212,569. The former device, while otherwise satisfactory was more expensive to manufacture and presented such a rigid member that it made it uncomfortable for the wearer to rest her head against a pillow.

Another object of this invention is to provide a ringlet curler which will require no assembling operations but which will be complete and ready to use when removed from the original forming mold so that it will be inexpensive to manufacture.

A further object is to provide a curler construction which will allow the entire body portion to be formed from comparatively soft resilient rubber or similar composition so that they can be worn in bed without inconvenience.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 is a face view of the spool portion of the improved curler, showing it approximately full size.

Fig. 2 is an edge view of the curler with an attachment clamp in place thereon.

Fig. 3 is an axial sectional view through the spool member illustrating it in the bent back or open position ready to receive the tip of a strand of hair.

Fig. 4 is a cross section therethrough, taken on the line 4-4, Fig. 2.

Fig. 5 is a similar cross section, taken on the line 5-5, Fig. 2.

Fig. 6 is a detail view of the attachment clamp removed from the spool.

Fig. 7 is a detail view of an angle clip used in the invention, as it would appear before being imbedded in the spool member.

The invention consists of but two separate units: a relatively flat, wide-flanged, spool mem-

ber, with an imbedded clamping member; and an attachment clamp member.

The spool member is molded from relatively soft resilient rubber or similar material and consists of a stem portion 10 having buttons 11 formed integrally therewith in each extremity thereof. The buttons are resilient so that they may be freely bent back outwardly; and are provided with indented sockets 12 at their middles.

One leg of an angle clip 13 is imbedded in one of the buttons, the other leg thereof extends inwardly along the stem portion 10 to form a clamping device for holding the tip extremity of a strand of hair against the stem portion.

The clip consists of a relatively stiff piece of sheet metal bent at right angles to form two legs as shown in Fig. 7. It is placed in the rubber mold at the time the spool is molded so that one leg becomes permanently imbedded in the rubber of one of the buttons while the other leg remains free.

The attachment clamp member is shown in detail in Fig. 6. It consists of a sheet 14 of metal or similar resilient material which is bent back on itself to form a clamping portion 15 from which a middle leg member 16 depends. The extremity of the leg is indented to form a rounded "dimple" 17. The sheet 14 is also extended downwardly to form two spaced-apart clamping legs 18 separated by a rounded notch. The relation of the rounded notch and the dimple 17 is such that when the clamp member is in place on the spool the notch will enclose the spool stem while the dimple engages in one of the indented sockets 12 as shown in Figs. 2 and 5.

In use, the head of hair is divided into a plurality of separated strands. The button of one of the curlers is bent back to raise the clip 13 from the stem 10. The tip of a strand is passed beneath the clip 13 and the clip is allowed to close therein under the natural resiliency of the rubber button.

The curler is now rotated in the fingers to wind the strand about the stem 10 between the two buttons 11. When the root portion of the strand is reached, the attachment clamp member is slipped thereover and over the button 11 which is nearest the scalp. This securely clamps the hair in the curler and prevents unrolling and also holds the curler flat against the scalp.

The hair is preferably dampened with water or with "wave setting" solution before being rolled on the curlers and the latter are left in place until the hair has been properly dried.

While a specific form of the improvement has

been described and illustrated herein, it is desired to be understood that the same may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having thus described the invention, what is claimed and desired secured by Letters Patent is:

1. A hair curler comprising; a relatively flat, wide-flanged spool of soft, elastic material; consisting of a stem portion with button-like extremities thereon, and means for clamping the tip extremity of a strand of hair against said stem portion.

2. A hair curler consisting of a spool having a stem portion; button-like extremities on said stem portion; a clamping member secured to one of said extremities and extending along said stem, said extremity being of resilient material, the resiliency of which urges said clip toward said stem portion.

3. A hair curler consisting of a relatively flat, wide-flanged spool of resilient material and an angle clip having one leg imbedded in the material of a flange of said spool and the other leg extending along the stem of said spool so that the material resiliency of said flange will urge said clip toward said stem portion.

4. A hair curler consisting of a relatively flat, wide-flanged spool of relatively soft, pliable, resilient material and clamping means extending inwardly from one of the flanges of said spool member along the stem thereof the natural resiliency of said flange acting to resiliently hold said clip against the stem of said spool to clamp a strand of hair thereagainst.

5. A hair curler consisting of a spool having a stem portion; a button-like extremity on said stem portion; there being an indentation at the axis of the outer face of said extremity; and a

hair clamping member overlapping one of the extremities and engaging in said indentation.

6. A hair curler consisting of a spool having a stem portion; a button-like extremity on said stem portion; a U-shaped clamping member slidably fitted over said extremity, the inner portion of said clamping member being bifurcated to pass on both sides of the stem portion.

7. A hair curler comprising; a stem; a button concentrically mounted on each extremity of said stem and a resilient attachment clip extending from the inner face of one button to the outer face of the same, the inner portion of said clip being bifurcated and of sufficient length to extend on each side of said stem, the outer portion of said clip having a resilient leg extending to an axial position on the outer face of said button.

8. A hair curler comprising; a stem; a button concentrically mounted on each extremity of said stem and a resilient attachment clip extending from the inner face of one button to the outer face of the same, the inner portion of said clip being bifurcated and of sufficient length to extend on each side of said stem, the outer portion of said clip having a resilient leg extending to an axial position on the outer face of said button, there being an indentation in said button at said axial position, and means on said leg for engaging in said indentation to hold said clip in place on said button.

9. A hair curler comprising; a stem; a button concentrically mounted on each extremity of said stem and a resilient attachment clip extending from the inner face of one button to the outer face of the same, the inner portion of said clip being bifurcated and of sufficient length to extend on each side of said stem, the outer portion of said clip having a resilient leg engaging the outer face of said button.

ZACK LEMLEY.