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D. OSTRANDER

2,369,752

HAIR CURLER

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Fig. 1.

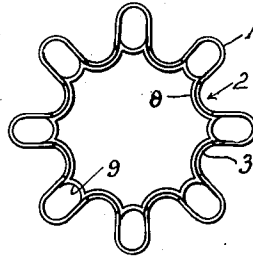


Fig. 2.

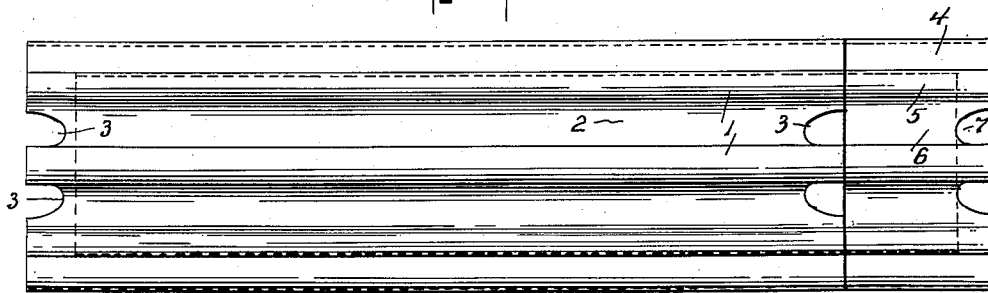


Fig. 3.

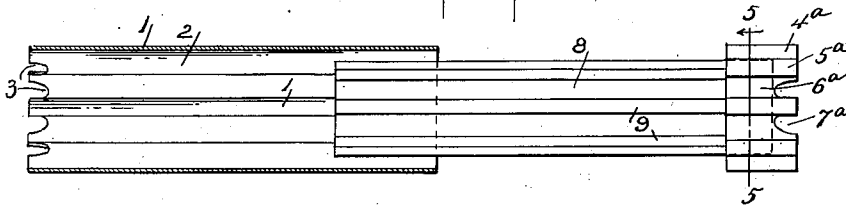


Fig. 4.

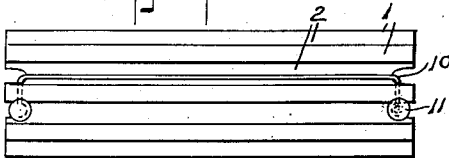


Fig. 5.

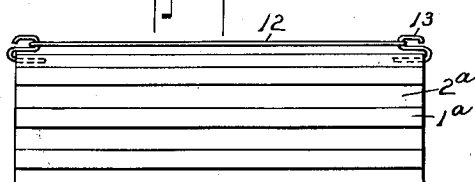


Fig. 6.

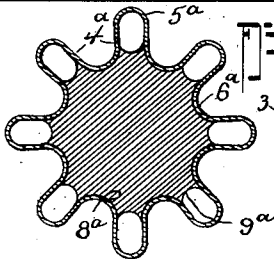
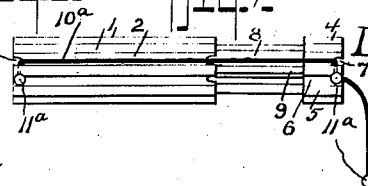


Fig. 7.



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UNITED STATES PATENT OFFICE

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HAIR CURLER

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Application December 7, 1943, Serial No. 513,267

7 Claims. (Cl. 132-42)

My invention relates to hair curlers and it primarily has for its object to provide an effective hair curler that can be manufactured so cheaply that users can afford to make replacements frequently in case of loss, or to increase the number in use.

A further object is to provide a curler that can be worn with comfort and one that can be concealed in use.

Other objects will in part be obvious and in part be pointed out hereinafter.

To the attainment of the aforesaid objects and ends the invention still further resides in the novel details of construction, combination and arrangement of parts, all of which will be first described in the following detailed description, and then be pointed out in the appended claims, reference being had to the accompanying drawing, in which:

Fig. 1 is an end view of a curler proper, and a turning key, the view being taken looking from left to right in Fig. 2.

Fig. 2 is a side elevation of the curler proper and key.

Fig. 3 is a central vertical longitudinal section, on a smaller scale, of the curler proper with a winding or turning key drawn out to its operating position, the key being shown in elevation.

Fig. 4 is a side elevation of the curler proper showing how a tie or fastening member may be anchored to the same.

Fig. 5 is a cross section on the line 5-5 of Fig. 3.

Fig. 6 is a view similar to Fig. 4 showing a modification.

Fig. 7 is a view similar to Fig. 3 showing a modified tie or fastening member.

In the drawing in which like numerals of reference indicate like parts in all the figures, 1 designates the peaks and 2 the valleys of the longitudinal corrugations of a tube which forms the curler proper. This tube 1, 2, is preferably provided at its ends with notches 3 to receive a tie or securing member. The tie or securing member preferably comprises an elastic 10 having buttons, beads or the like at its ends and it is held on the curler proper 1, 2, as indicated in Fig. 4, or it may consist of an elastic band 12 held in place by hooks 13 hooked over the ends of the tube 1^a, 2^a, as shown in Fig. 6. The latter means of anchoring the tie or securing member is preferably used when the notches 10 are omitted from the ends of the tube. If desired a longer tie member 10^a may be employed

having buttons, beads 11^a or the like fastened to it at proper intervals, so that the end of a lock of hair may be secured in place on the curler and then when the hair has been wound around the curler other portions of the tie member can be woven back and forth over the hair and secured by the buttons or beads etc. to the ends of the curler tube. If desired one end of the tie member may be permanently anchored to the curler tube 1, 2, by cementing the same or in any other desired manner. The tie member may be made as long as desired and as many buttons or beads used thereon as desired.

The winding or turning key which may or may not be left assembled with the curler tube in use, comprises a corrugated tube composed of alternate peaks 9 and valleys 8 so as to fit within the curler tube 1, 2, with a sliding fit. The tube 8, 9, is provided with a head 4, that may conform in dimensions and shape to the curler tube 1, 2, and into which head the key tube 8, 9, is inserted and secured, by cementing it in place or by any other suitable means. The head 4 has peaks 5 and valleys 6 corresponding to the peaks 1 and valleys 2 of the curler tube and it is also provided with notches 7 in its free end, corresponding to the notches 3 and for the same purpose.

If desired the key member may be composed of a solid rod (Fig. 5) having the peaks 9^a and valleys 8^a to fit within the peaks and valleys of the curler tube and be projected into the head 4^a to which it may be secured in any approved way.

The parts of my curler may be made of transparent material, preferably plastic, so as to be light in weight and be substantially invisible when worn in the hair.

Several curlers may be coupled together lengthwise by forcing the end of the one over the end of the other, thus enabling the curlers proper to be coupled together, the corrugations having sufficient give to permit this.

From the foregoing it will be seen that I have provided a curler of a simple construction, one that is light in weight, and one which will readily serve its intended purpose.

While I prefer to make the curler, especially the curler tube, of plastic composition it may be made of any other suitable material, as for example, compressed paper.

If desired one end of the tie member may be permanently secured to the curler tube by cementing the same in place or by securing it in any other approved way.

Other modifications than those above mentioned can be made without departing from the spirit of the invention and within the scope of the appended claims.

From the foregoing description taken in connection with the accompanying drawing it is thought the complete construction, and manner of using the device will be clear to those skilled in the art.

What I claim is:

1. A curler proper which comprises a longitudinally corrugated tube having alternately disposed peaks and valleys, the peaks being formed with parallel sides defining structures U-shaped in cross section, and a member insertable into said tube and having portions projecting into said U-shaped structures forming therewith a series of longitudinally disposed tubular members open at their ends.

2. A curler proper which comprises a longitudinally corrugated tube, and a tie member anchored over the ends of said tube, and a key having a longitudinally corrugated body whose corrugations conform to and fit those of said tube to slidably fit into the said tube and a head on one end of said body.

3. A curler proper comprising a longitudinally corrugated tube having alternately disposed peaks and valleys, the tube in its valleys being notched at its ends, and a key having a longitudinally corrugated body whose corrugations conform to and fit those of said tube to slidably fit into the said tube and a head on one end of said body.

4. A curler proper which comprises a longitudinally corrugated tube, and a tie member anchored over the ends of said tube, and a key having a longitudinally corrugated body to slid-

ably fit into the said tube and a head on one end of said body, said head conforming in shape to the cross section of said tube and forming an extension of the same.

5. A curler proper comprising a longitudinally corrugated tube having alternately disposed peaks and valleys, the tube in its valleys being notched at its ends, and a key having a longitudinally corrugated body to slidably fit into the said tube and a head on one end of said body, said head conforming in shape to the cross section of said tube and forming an extension of the same.

6. A curler proper which comprises a longitudinally corrugated tube, and a tie member anchored over the ends of said tube, and a key having a longitudinally corrugated body to slidably fit into the said tube and a head on one end of said body, said head conforming in shape to the cross section of said tube, said head on its outer edge being notched.

7. A curler proper which comprises a thin tube of plastic, the wall of which is corrugated to provide a plurality of longitudinal U-shaped-in-cross-section peaks and valleys, the side portions of each peak being substantially parallel, thereby providing outwardly diverging walls for the valleys, and a member fitting within said tube, the outer surface of which member is longitudinally grooved to fit the valley portions of said tube, and including portions projecting into the peak corrugations of said tube to form therewith parallel tubular structures open only at each end of the curler, and a tie member engaging the ends of said tubular member and lying in a valley of the same for holding hair in the said valley.

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