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HAIR WAVING AND CURLING DEVICE

Filed Aug. 16, 1930

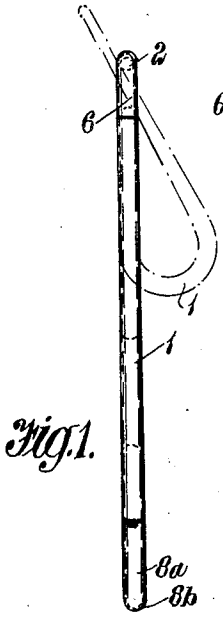


Fig. 1.

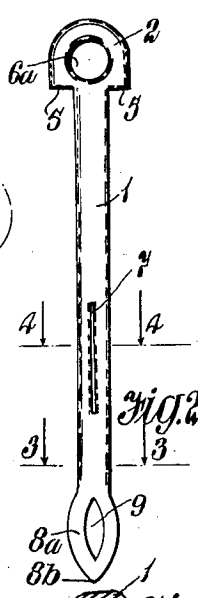


Fig. 2.

Fig. 3.




Fig. 4.

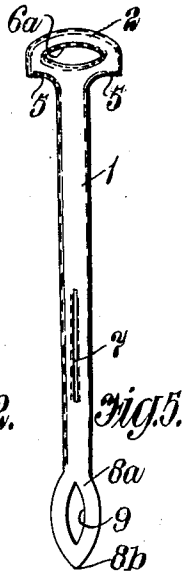


Fig. 5.

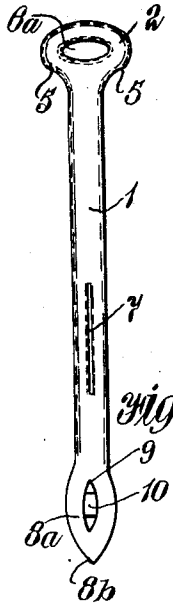


Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

Fig. 10.

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# UNITED STATES PATENT OFFICE

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## HAIR WAVING AND CURLING DEVICE

Application filed August 16, 1930, Serial No. 475,822, and in Great Britain August 28, 1929.

This invention relates to rubber or like hair wavers or curlers of the kind having an eye or equivalent at one end of a body portion through which the other end of said body portion is adapted to pass after flexing or bowing the device.

The chief object of the present invention is to provide an improved waver or curler of the kind aforesaid in which one end of the body portion can easily be passed, without forcing, through the eye or equivalent at the other end of the body portion, and when so passed is easily retained in this position.

By way of example some constructional forms of wavers or curlers embodying the beforementioned and other features of our invention are illustrated on the accompanying drawings to which reference will now be made and whereon:—

Figs. 1 to 4 illustrate one form, Fig. 1 being a side view of the device, Fig. 2 a face view, Fig. 3 a section on line 3—3 of Fig. 1 and Fig. 4 a section of line 4—4 of said figure;

Figs. 5 and 6 are face views of a second and third form respectively;

Fig. 7 is a perspective view of another construction;

Figs. 8 and 9 are respectively a face view and a side view of another form; and

Fig. 10 is a face view of still another form.

The same references indicate similar parts throughout the several figures.

Referring first more particularly to Figs. 1 to 4, the device there shown consists of a body portion or strip 1 of rubber or other flexible material having at one end an enlarged head 2 constituting a finger grip and shaped to provide shoulders 5, 5. Said head has an eye or aperture 6*a*. The other end of the strip 1 is bulged laterally to form an enlarged substantially elliptical tongue-piece 8*a* of the same thickness as the body portion, this tongue-piece having an elliptical opening 9 to make it of cross section smaller than the area of the aperture 6*a*, and readily contractile to a width at least as small as that of the aperture 6*a*; so that it can be easily passed through the eye 6*a* in the head 2 when the strip is bowed, as indicated by dotted lines in Fig. 1. The pointed end 8*b* of the tongue-piece readily enters the eye and the whole of the tongue-piece can thereafter be pushed through the eye, the walls of the tongue-piece gradually contracting under the slight pressure that need be exerted. When this is done the enlarged tongue-piece expands to a width greater than that of the aperture 6*a*, exerts a yielding pressure on the side walls of the eye and together with the reflex action of the bowed strip locks the device in the doubled position, but so that it can be instantly unlocked at the will of the operator.

As shown in Figs. 3 and 4, the strip is elliptical in section and slitted, at 7, for a portion of its length to enable the device to be used as a curler as well as a waver, the walls of the slit being rounded off as indicated in Fig. 4.

To use the device as a waver it is held by the head or finger grip 2 against the person's head near the tress of hair to be waved and the tress is then coiled about the strip 1. The initial coil abuts against the shoulders 5, 5 which prevent it slipping off the device. When the tress has been coiled on the strip 1 the end 8*a* of the latter remote from the head 2 is doubled over and simply pushed through the eye 6*a* whereupon the strip is automatically retained.

To use the device as a curler the ends of the hairs to be curled are first threaded through the slit 7 which can be easily opened for the purpose, and, then, after winding up the device towards the person's head, the strip is bowed and locked as before.

The device represented by Fig. 5 is similar to that of Figs. 1 to 4 except that the head 2 is somewhat differently shaped and the aperture 6*a* therein is elliptical.

Likewise the device of Fig. 6 is similar to that of Fig. 5 but in this form the head 2 and its aperture 6*a* are both substantially elliptical, and the enlarged elliptical tongue-piece 8*a* is obtained by making a slit 9 in the plain end of the strip 1 and inserting a cushion 10 as shown.

Fig. 7 shows a construction having a ring 6 pivotally connected to the strip 1 at a dis-

tance from one end so as to leave a finger grip 2a beyond the ring. When the device is gripped in the fingers the ring can be retained in the position shown to serve as an abutment during the coiling of the hair. After coiling, the strip 1 is bowed and the tongue-piece 8a threaded through the ring whereupon it is locked in the manner already described.

In the construction according to Figs. 8 and 9, the ring 6 is pivoted at one extreme end of the strip 1 and it will be apparent that, during the application of the device said ring may be held in any of the three positions indicated in Fig. 9.

The device illustrated by Fig. 10 has an oval head 2, with an oval eye or aperture 6a to receive the enlarged elliptical tongue-piece 8a. In this form the two ends of the device are similar except that the tongue end is pointed as shown.

Manifestly, modifications may be made without departing from the scope of the invention. The strip 1 may, for example, be oblong, square, round, oval or otherwise shaped in section. In some cases the slit 7 may be omitted and the device sold simply as a waver. Again, when an eye or aperture is provided in the head itself said aperture may be reinforced with a metal eyelet or equivalent. Side fins (as shown in Fig. 3) may be provided on the strip to exert a frictional grip on the wall of the aperture in the ring or head.

We claim:—

1. A resilient hair waving or curling device comprising a strip like body portion, an enlarged head with an aperture at one end of said body portion, a substantially elliptical tongue piece at the other end of said body portion, said tongue piece being of the same thickness as said body portion and having an opening therein which enables it to be contracted to a width at least as small as that of said body portion, thereby enabling said tongue piece easily to be passed through said aperture for the head, but said tongue piece normally expanding itself to a width greater than that of the body portion.

2. A resilient hair waving or curling device comprising a strip like body portion, an enlarged head with an aperture at one end of said body portion, a substantially elliptical tongue piece at the other end of said body portion, said tongue piece being of the same thickness as said body portion and having an opening therein which gives it a cross section smaller than the area of said aperture in the head and enables it to be contracted to a width at least as small as that of the aperture, thereby enabling said tongue piece easily to be pushed through said aperture, said tongue piece normally expanding to a width greater than that of said aperture.

3. A resilient hair waving or curling device as claimed in claim 1, in which the opening in the tongue piece consists of a longitudinally extending slit having therein a cushion adapted to enlarge the tongue piece to elliptical shape.

4. A resilient hair waving or curling device as claimed in claim 2, in which the tongue piece terminates in a point to facilitate its passage through the aperture in the head, and the opening therein is substantially elliptical in shape.

5. A resilient hair waving or curling device comprising a strip like body portion, an enlarged head with an aperture at one end of said body portion, an apertured ring attached to said head, a substantially elliptical tongue piece at the other end of said body portion, said tongue piece terminating in a point to facilitate its passage through the aperture in the head and said tongue piece being of the same thickness as said body portion and having an opening therein which gives it a cross section smaller than the area of said aperture and enables it to be contracted to a width at least as small as that of the aperture, thereby enabling said tongue piece easily to be pushed through said aperture, said tongue piece normally expanding to a width greater than that of said aperture.

6. A resilient hair waving or curling device as claimed in claim 5, having a finger piece on the head at the end thereof remote from said tongue piece.

In testimony whereof we affix our signatures.

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