

Sept. 7, 1937.

H. G. NICOL

2,092,703

HAIR CURLER

Filed March 15, 1937

2 Sheets-Sheet 1

Fig. 1.

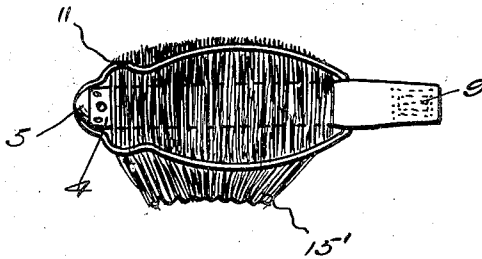


Fig. 2.

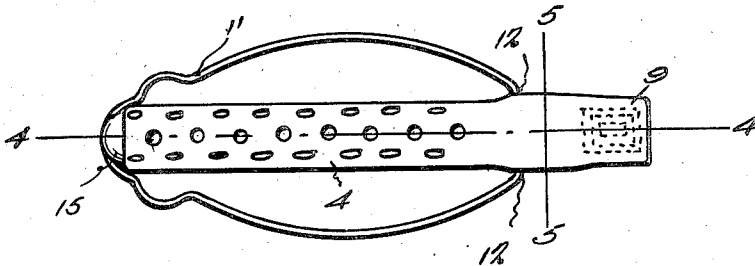
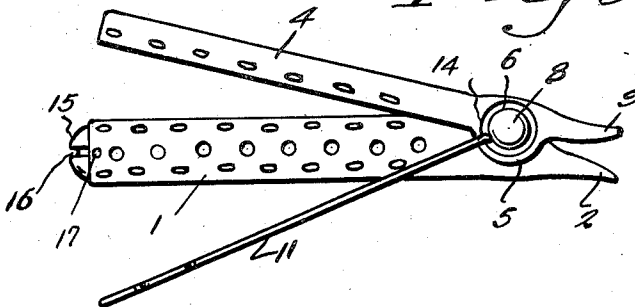


Fig. 3.



Inventor

Helen G. Nicol

By *Clarence A. O'Brien*
Hyman Berman

Attorneys

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Fig. 4.

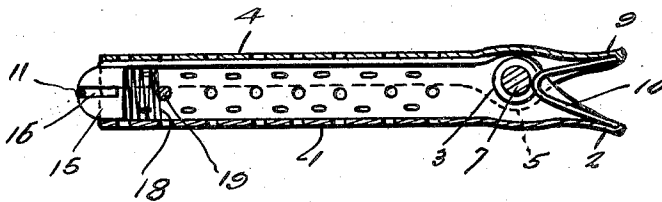


Fig. 6.

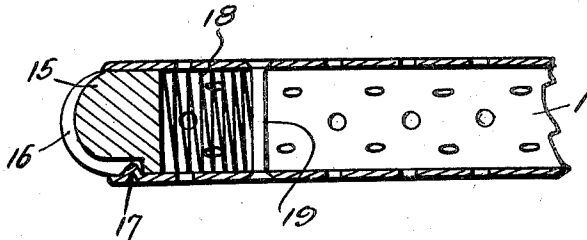


Fig. 5.

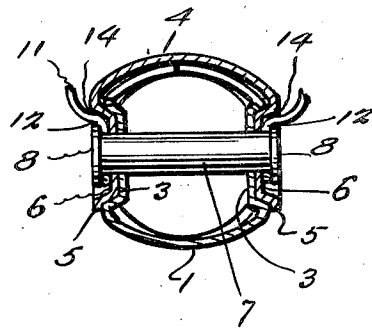


Fig. 8.

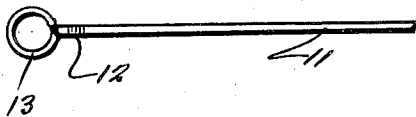
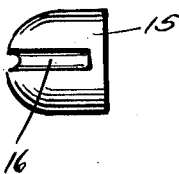


Fig. 7.



Inventor

Helen G. Nicol

By *Clarence A. O'Brien*
Hyman Berman

Attorneys

UNITED STATES PATENT OFFICE

2,092,703

HAIR CURLER

Helen G. Nicol, Oak Park, Ill.

Application March 15, 1937, Serial No. 131,041

10 Claims. (Cl. 132-41)

The present invention relates to new and useful improvements in hair curlers and has for its primary object to provide, in a manner as herein-after set forth, a device of this character embodying a novel construction and arrangement whereby catching of the hair thereon and consequent pulling of said hair when the curler is removed will be prevented.

Another very important object of the invention is to provide, in a hair curler of the type including a perforated tube on which the hair is wound and a pivoted wire guard or retainer for the hair, novel means for releasably securing said guard in operative position.

Other objects of the invention are to provide a hair curler of the aforementioned character which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, light in weight and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is an elevational view of a hair curler constructed in accordance with the present invention with a tress of hair wound thereon.

Figure 2 is an elevational view of the invention on an enlarged scale.

Figure 3 is an elevational view taken at right angles to Fig. 2 and showing the clamp and guard in open position.

Figure 4 is a view in longitudinal section through the invention, taken substantially on the line 4-4 of Fig. 2.

Figure 5 is a cross sectional view, taken substantially on the line 5-5 of Fig. 2.

Figure 6 is a view in longitudinal section through a portion of the perforated tube, showing the spring pressed latch for the wire guard mounted therein.

Figure 7 is a detail view in elevation of the latch.

Figure 8 is a detail view in elevation of an end portion of the wire guard.

Referring now to the drawings in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a perforated tube 1 of suitable metal which terminates, at its inner end, in a handle 2. In its inner end portion, the perforated tube 1 has sockets 3 pressed there-

into. This is illustrated to advantage in Fig. 5 of the drawings.

The reference numeral 4 designates a perforated metallic clamp of arcuate cross section which is pivotally mounted on the inner end portion of the tube 1. The pivoted end portion of the clamp 4 includes integral ears 5 having sockets 6 pressed thereinto and rotatably engaged in the sockets 3. The ears 5 are journaled on a headed pin or rivet 7 which extends between the sockets 3, the sockets 6 accommodating the heads 8 of said pin. It will thus be seen that the heads 8 are substantially flush with the ears 5. Projecting from the pivoted end of the clamp 4 is an integral handle 9. A spring 10 (see Fig. 4) is mounted between the handles 2 and 9 for yieldingly urging the clamp 4 toward closed position on the perforated tube 1.

Mounted for swinging movement on the pin 7 is a substantially U-shaped resilient wire guard 11. The guard 11 includes inturned end portions 12 terminating in eyes 13 which are journaled on the pin 7 in the sockets 6 beneath the heads 8 of said pin. The construction and arrangement is such that the inturned end portions 12 of the guard 11 wipe against the annular shoulders 14 which are formed by the sockets 6 in a manner to prevent the hair, as at 15', from catching on the countersunk or recessed headed ends 8 of the pin 7. This constitutes a most important feature of the invention.

Slidably mounted in the outer end portion of the perforated tube 1 is a latch 15 for releasably securing the resilient wire guard 11 in closed or operative position. The latch 15 includes a substantially rounded outer end having a groove 16 therein for the reception of the bight portion of the guard 11. The groove 16 extends longitudinally along one side of the latch 15 to a point adjacent the inner end of said latch for receiving an inwardly pressed detent 17 in the tube 1 for preventing said latch from being ejected from said tube. A coil spring 18 in the tube 1 yieldingly urges the latch 15 outwardly. The inner end of the coil spring 18 bears against a supporting pin 19 which is mounted transversely in the tube 1.

It is thought that the manner of using the curler will be readily apparent. The end of the tress of hair to be curled is secured to the perforated tube 1 through the medium of the clamp 4, after which the hair is wound around said tube and clamp in the usual manner. The wire guard 11 is then closed on the hair substantially as shown in Fig. 1 of the drawings and secured by 55

the latch 15. The yieldingly mounted slidable latch 15 permits the wire guard 11 to be readily engaged in the groove 16 and disengaged therefrom without distorting said guard. This, also, constitutes an important feature of the invention. As hereinbefore stated, when the curling operation has been completed and the hair is unwound preparatory to removing the device, the inturned end portions 12 of the resilient wire guard 11, bearing against the annular shoulders 14 formed by the sockets 6, prevent the hair from catching on the ends of the pin or rivet 7. The fact that the heads of the pin 8 are countersunk assists in preventing the hair from catching thereon.

It is believed that the many advantages of a hair curler constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

1. A hair curler comprising a winding member, a clamp for securing the hair to said member, and a pin pivotally connecting said clamp to the member, the ends of the pin being countersunk in the clamp.
2. A hair curler comprising a winding member, a clamp for securing the hair to said member, and a pin pivotally connecting the clamp to the member, said pin including retaining heads on its ends countersunk in the clamp.
3. A hair curler comprising a winding member, a clamp for securing the hair to said member, a pin for pivotally connecting the clamp to the member, said pin including retaining heads on its ends, the clamp having sockets therein accommodating the heads.
4. A hair curler comprising a winding member, a clamp for securing the hair to said member, sockets in one end portion of the clamp, said sockets providing annular shoulders on the clamp, a pin extending through said sockets and the member for pivotally mounting the clamp on said member, and a guard journaled on the end portions of the pin in the sockets, said guard being engaged with the shoulders for preventing the hair from contacting the pin.
5. A hair curler comprising a winding member, a pin extending through said member, a clamp journaled on the pin for securing the hair to said member, retaining heads on the ends of the pin, the clamp having sockets therein accommodating said heads and providing annular shoulders, a guard mounted for swinging movement on the pin, said guard including inturned end portions bearing against the shoulders for preventing the hair from contacting the pin and terminating in eyes journaled on said pin.
6. A hair curler comprising a substantially

tubular winding member having sockets in one end portion thereof, a clamp for securing the hair to said member, a pin pivotally connecting the clamp to the member, said pin extending through said member and projecting outwardly in the sockets therein, retaining heads on the ends of the pin, the clamp including sockets rotatably engaged in the first named sockets and accommodating the heads, the second named sockets providing annular shoulders on the clamp, and a substantially U-shaped, resilient wire guard mounted for swinging movement on the pin, said guard including inturned end portions terminating in eyes journaled on the pin in the second named sockets, said inturned end portions bearing against the shoulders for preventing the hair from contacting the pin.

7. A hair curler comprising a substantially tubular winding member, a substantially U-shaped guard mounted for swinging movement on said member, and a latch slidably mounted in the member and projecting from one end thereof for releasably securing the guard in operative position, said latch having a groove therein for the reception of the bight portion of the guard.

8. A hair curler comprising a substantially tubular winding member, a substantially U-shaped guard mounted for swinging movement on said member, a latch slidably mounted in one end portion of the member and projecting therefrom for engagement with the bight portion of the guard for releasably securing said guard in operative position, said latch having a groove therein for the reception of the guard, and a spring mounted in the member and engaged with the latch for yieldingly urging said latch outwardly.

9. A hair curler comprising a substantially tubular winding member, a substantially U-shaped, resilient guard mounted for swinging movement on said member, a latch slidably mounted in one end portion of the member and projecting therefrom for engagement with the bight portion of the guard for releasably securing said guard in operative position, a coil spring mounted in the member and engaged with the latch for yieldingly urging said latch outwardly, the latch having a groove in its outer end for the reception of the guard, said groove extending longitudinally along one side of the latch and terminating in spaced relation to the inner end of said latch, and a detent in the member engaged in the groove for limiting the outward movement of the latch.

10. A hair curler comprising a winding member, a clamp pivotally mounted on said member, said clamp having sockets therein providing shoulders, and a guard having its end portions pivotally secured in said sockets, portions of said guard being engaged with the shoulders for keeping the hair out of the sockets.

HELEN G. NICOL.