May 7, 1935. R. M. McFADDEN 2,000,894

CURLER

Filed July 10, 1934

Fig. 1

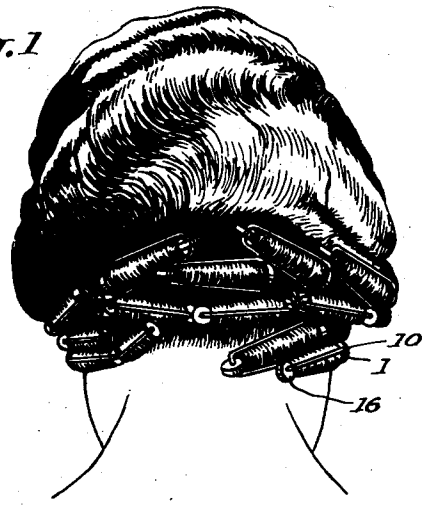



Fig. 2

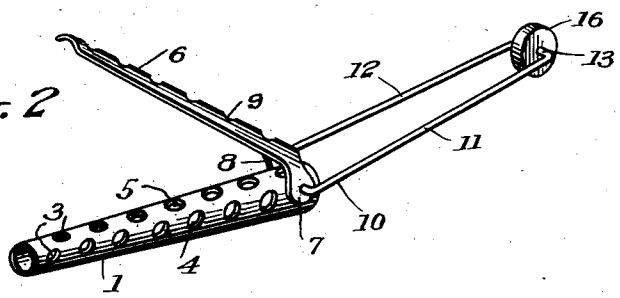



Fig. 3

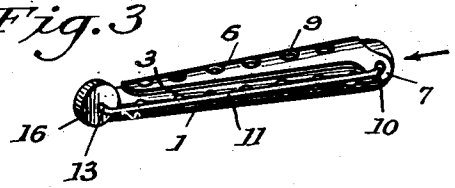



Fig. 4

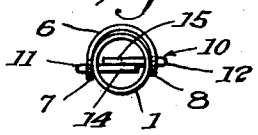
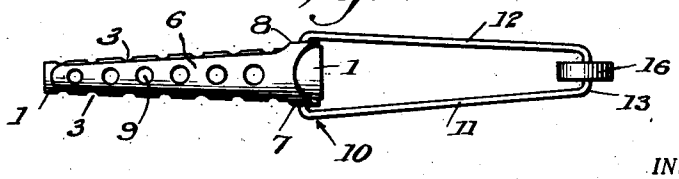



Fig. 5

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Patented May 7, 1935

2,000,894

# UNITED STATES PATENT OFFICE

2,000,894

## CURLER

Ross M. McFadden, Glendale, Calif.

Application July 10, 1934, Serial No. 734,485

8 Claims. (Cl. 132—41)

This invention relates to hair curlers of the type which may be applied to the hair for the purpose of curling the same and whether the hair be wet or dry.

The invention has for an object the provision of a hair curler of the type wherein the hair is dried by air contact.

A further object of the invention is the provision of a hair curler of the class defined adapted to form curls of different sizes, to the end that either a large curl or a small curl may be formed to suit the individual taste or requirement.

A further object is the provision of a hair curler wherein the hair after being curled may be easily removed from the curler.

A further object is the provision of a hair curler which is simple of construction, inexpensive, positive in its operation, and generally superior to hair curlers now known to the inventor.

Other objects of the invention will appear as the specification proceeds.

With the above and other objects in view, the invention consists in the novel and useful provision, formation, construction, association and relative arrangement of parts, members and features, all as shown in a certain embodiment in the accompanying drawing, described generally, and more particularly pointed out in the claims.

In the drawing:

Figure 1 is a rear elevation showing the improved curlers upon the head of a user,

Figure 2 is a perspective view of the improved curler, several elements thereof being in one position,

Figure 3 shows the several parts of the curler in a second position,

Figure 4 is an end elevation looking in the direction of the arrow from Figure 3, and,

Figure 5 is a top plan view of the invention.

Referring now to the drawing, the improved curler includes an elongated conical tubular body 1 provided with one or more perforations 3 extending throughout the length thereof, to the end that air circulation is permitted exteriorly and interiorly of the tube through said perforations. The perforations are preferably arranged in rows and in such a manner that the perforations of one row all lie in the same plane and in staggered relation to a second row in a further plane as, for instance, illustrated in the drawing at 4 and 5. Adapted to longitudinally overlie a portion of the body is a jaw 6. It will be observed that this jaw conforms in outline to the tube form, to-wit: the said jaw tapers. The jaw is semi-circular in cross section and provided with oppositely disposed ears 7 and 8 adjacent one end thereof. The said ears are perforated. The said jaw is provided with a series of spaced perforations 9, all lying in the same plane and which are adapted to overlie certain of the perforations 3, for instance, the perforations lying in the plane indicated at 5.

I provide an encircling resilient clamp 10 which includes two side members 11 and 12 interconnected by a piece 13, and ends of said side members terminate in two inwardly directed portions 14 and 15. The said portions 14 and 15 are adapted to be passed through the perforated ears 7 and 8 of the jaw 6 and through diametrically offset perforations in the body 1 for overlapping sliding relationship through the body, as best illustrated in Figure 4. The said clamp 10 carries on the interconnecting piece 13 a resilient rubber wheel 16, the said wheel being free to turn.

The operation, uses and advantages of the invention are as follows:

The jaw 6 is adapted to cooperate with the body 1 which would constitute a second jaw. The ends of the hair are placed between the jaw 6 and the periphery of the body, whereupon the jaw and body are held together to grip the hair ends and thereafter the hair rolled over the body and the top surface of the jaw 6. During this period of rolling, the clamp 10 is substantially in the position shown in Figure 2. After the hair has been rolled sufficiently upon the device, the clamp 10 is then rotated so that the resilient rubber wheel will engage the end wall bounding the open end 17 of the said body. Obviously, a portion of this wheel will be received in said open end and act as a yieldable latch for holding the clamp in position. This clamp, of course, engages the hair and prevents the hair from uncurling from the device.

I have assumed that one size of curl is desired and it is evident that after the curl has dried, assuming that the hair has first been moistened, the curl may be readily released from the device by swinging the clamp from its engagement with the body to, say, the position shown in Figure 2, whereupon due to the conical form of the tubular body, the tube may be easily withdrawn from the center of the hair curl.

If it is desired to form individual curls of different size, different sections of the tube may be utilized. For instance, one size curl might be formed by wrapping the hair about the curler adjacent the ears of the jaw. Another size curl could be formed by using that portion of the body adjacent the end 17, and so on.

It is evident that air is permitted to contact

both externally and internally of the curl. Air will flow within the tube and through the perforations 3. By aligning the perforations of the jaw with the perforations of the tube, air is permitted to pass through the perforations in this zone.

This application is a continuation in part as to all common subject matter of my application Serial No. 615,600, filed June 6, 1932.

I claim:

1. In a curling device, an elongated conical tube provided with a plurality of transverse perforations throughout its length, a clamp having end portions in overlapped sliding relation secured to said tube at one end thereof, the said clamp adapted to diametrically embrace the said tube, and a resilient rubber wheel carried by the clamp and adapted to in part be received within an end of the tube to maintain the clamp parallel to the longitudinal axis of the tube.

2. In a curling device, an elongated conical tubular member provided with a plurality of transverse perforations, a jaw swingingly mounted to said tubular member and between which member and the ends of the jaw hair is adapted to be received; a clamp pivotally mounted to said tubular member and laterally expansible at the pivot, a resilient rubber wheel carried at one end of said clamp and whereby when hair is rolled on said tubular member and over said jaw, said hair is maintained thereon when the clamp is swung to position the resilient rubber wheel in contact with an end of said tubular member.

3. In a curling device, a curler body, a clamp swingingly mounted on opposite sides at one end of the body and adapted to be swung to a position longitudinally thereof with its outer end overlying the outer extremity of the body, and a resilient latch carried by the outer end of said clamp having a positive latching engagement with the outer extremity of the body and compressible to facilitate movement of said clamp end to operative position.

4. In a curling device, a tubular curler body, a spring wire clamp swingingly mounted at opposite sides adjacent one end of the body and adapted to be swung to a position longitudinally thereof with its outer end overlying the outer end of said body, and a resilient rubber wheel carried by the outer end of said clamp and having a positive compressible engagement therewith.

5. In a curling device, a tubular curler body, a clamp engageable over the outer end thereof and extending longitudinally on opposite sides of the body to points adjacent the opposite end, and the ends of said clamp having an overlapping sliding relation through the body to permit lateral expansion of said clamp and pivotal connection with the body.

6. In a curling device, a tubular member provided with a plurality of transverse perforations throughout its length, a clamp swingingly mounted relative to said tubular member, and a resilient roller carried by one end of said clamp and adapted to contact with an end of said tube and not closing said end for maintaining said clamp in part paralleling said tube.

7. In a curling device, a clamp including two side members and an interconnecting piece, a resilient roller carried by the interconnecting piece, an elongated tube, and said side members being swingingly secured to said tube; said resilient roller being adapted to engage an end of said tube for releasably holding said side members substantially parallel to the longitudinal axis of the tube and diametrically disposed relative thereto.

8. In a curling device, a conical tubular body, a clamp pivoted to the larger end of said body and adapted to extend longitudinally on opposite sides thereof in parallel spaced relation and having a latching engagement over the smaller end of said body, and means whereby the clamp is laterally expansible at the pivoted end.

ROSS M. McFADDEN.