May 24, 1938. C. W. RENSTROM 2,118,737

HAIR CURLER

Filed Jan. 11, 1938

Fig. 1.

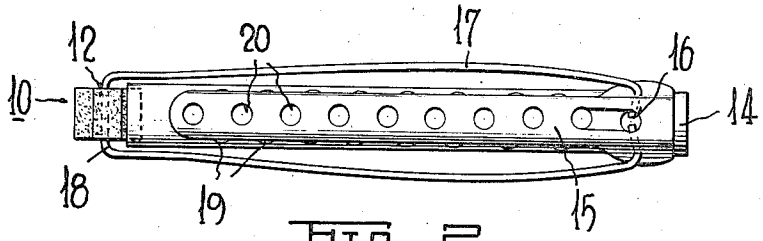


Fig. 2.

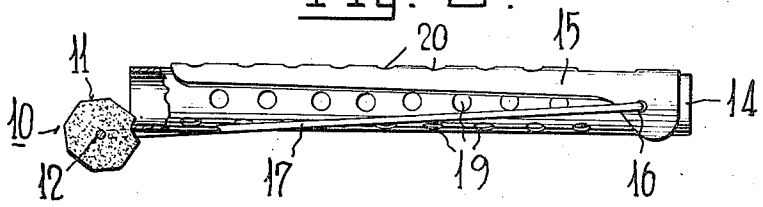


Fig. 3.

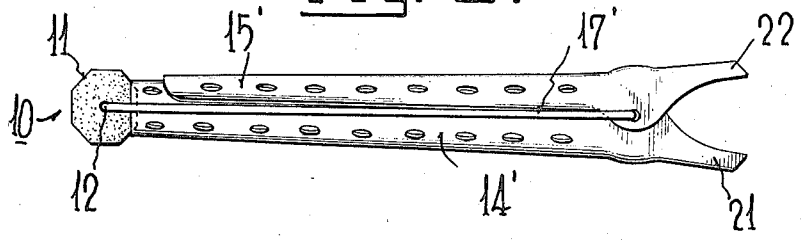
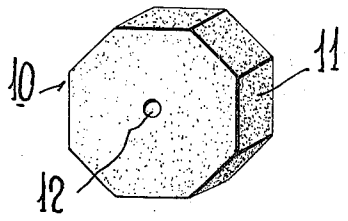


Fig. 4.



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HAIR CURLER

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6 Claims. (Cl. 132—41)

This invention relates to devices for treatment of the hair, and more particularly to hair curlers.

One of the objects of the invention is to provide a curler on which the hair may be wound and clamped with means for latching or locking the hair and curler together. Heretofore, curlers have consisted of a tubular body or mandrel on which the hair is wound, a clamp which may fit over the hair, and a locking means for locking the parts together, but this locking means has proven more or less unsatisfactory. Existing curlers of the type mentioned have proven unsatisfactory because in use the roller or latching means has a round peripheral surface which does not grip or sufficiently engage the end of the mandrel to prevent slippage of the roller and clamp. These objections have been overcome and an efficient clamping means provided by employing a roller or disk of polygonal form which cooperates with the tubular end of the mandrel. Such a polygonal or, to be more specific, octagonal roller readily snaps over the end of the mandrel and seats itself in position. Such an octagonal roller is further advantageous, since the various flat surfaces and angles facilitate engagement by the fingers when moving the roller to and from clamping position.

In the drawing:

Figure 1 is a plan view of one form of curler utilizing my improvement;

Figure 2 is a side elevation, of the curler shown in Figure 1, partly broken away to disclose details;

Figure 3 is a side elevation of another form of curler utilizing the invention, and

Figure 4 is a perspective view of the improved polygonal roller.

Referring to the drawing, the improved roller or one part of my improved latching means is shown at 10 and is made from any suitable elastic or resilient material, such as rubber. This roller is polygonal and preferably octagonal as shown, thereby providing a multiplicity of surfaces 11 about the periphery. An axial opening 12 is provided through the roller.

The roller 10 may be employed in the form of curler disclosed in Figures 1 and 2, which type of curler is disclosed merely by way of example, since the roller may be used in other forms of curlers of the present general character. This curler has a metallic tube or mandrel 14 to which a metallic jaw 15 is pivoted by means of inturned ends of a resilient wire or wire-like clamp or bail 17. The metallic wire clamp has a straight intermediate portion passing through the opening 12 of the roller and thereby pivotally mounting the roller on the bail. The sides of the bail are sloped toward the narrow portion 18 as clearly shown in the drawing. The roller is of greater diameter than the bore of the tube or mandrel, so that only a portion of the roller may enter the adjacent opened end of said tube to effect better coaction of the surfaces 11 with the wall of the tube 14. Said mandrel 14 and jaw 15 are preferably perforated, as at 19 and 20 respectively, to facilitate the passage of air through the device and hair.

In the use of my improved curler, while the jaw 15 is raised, the hair is wrapped about the mandrel 14 sufficiently to anchor the hair thereon, after which the jaw is clamped in closed position and the wrapping of the hair continued about the tube and jaw. When the wrapping is completed, the bail or clamp 17 is pressed toward the free end of the mandrel and the roller is cammed over the edge of the mandrel and slipped into the adjacent open end thereof, effectively clamping such bail or clamp securely and in an accurately centered position. The ridges formed by the intersection of the flat sides of the roller 10 tend to create sufficient leverage to permit the roller to clip or slip in the roller 10 is seated in the tube or mandrel, 14. When in locked position, one whole side of the roller 10 is seated in the tube or mandrel, the roller compressing slightly in riding over the edge of the tube.

Practically the same operation takes place when using the form of curler disclosed in Figure 3, and the roller 10 especially functions in a similar way. In this form, the tube or mandrel of the curler is shown at 14^1, preferably being tapered and having a finger grip 21 at its free end. The jaw is shown at 15^1 pivoted to the tube or mandrel 14^1 by a bail or clamp 17^1 substantially identical with that shown at 17. Said jaw 15^1 has a finger grip 22 at its end opposite to the grip 21, such grips 21 and 22 being operable to move the jaw and mandrel relatively.

Various changes may be resorted to, provided they fall within the spirit and scope of the invention.

What I claim is:

1. A roller for coacting with an end of a hair curler to secure clamp means thereof in hair-clamping position, the roller being polygonal.

2. A roller for coacting with an end of a hair curler to secure clamp means thereof in hair-clamping position, the roller being octagonal.

3. A roller for pivotal mounting and coacting with an end of a hair curler to secure clamp means thereof in hair-clamping position, the roller being resilient and having a polygonal periphery.

4. In a curler, tubular means about which hair is adapted to be wrapped, a clamping bail carried by said means, and a clamping roller mounted on the bail to clip into engagement with an end of the tubular means, said roller being polygonal.

5. In a curler, tubular means about which hair is adapted to be wrapped, a resilient clamping bail carried by said means, and a resilient roller mounted pivotally on the bail to clip into engagement with an end of the tubular means, said roller having a polygonal periphery.

6. In a curler, a mandrel, a clamp pivotally secured to one end of the mandrel, a clamping bail also pivotally secured to one end of the mandrel, and a clamping roller mounted on the bail for engagement with the other end of the mandrel, said clamping roller being octagonal in shape, with one whole side seated in the open end of the mandrel.

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