Aug. 25, 1931 G. O. ROWLEY 1,820,498

HAIR CURLER

Filed March 7, 1929

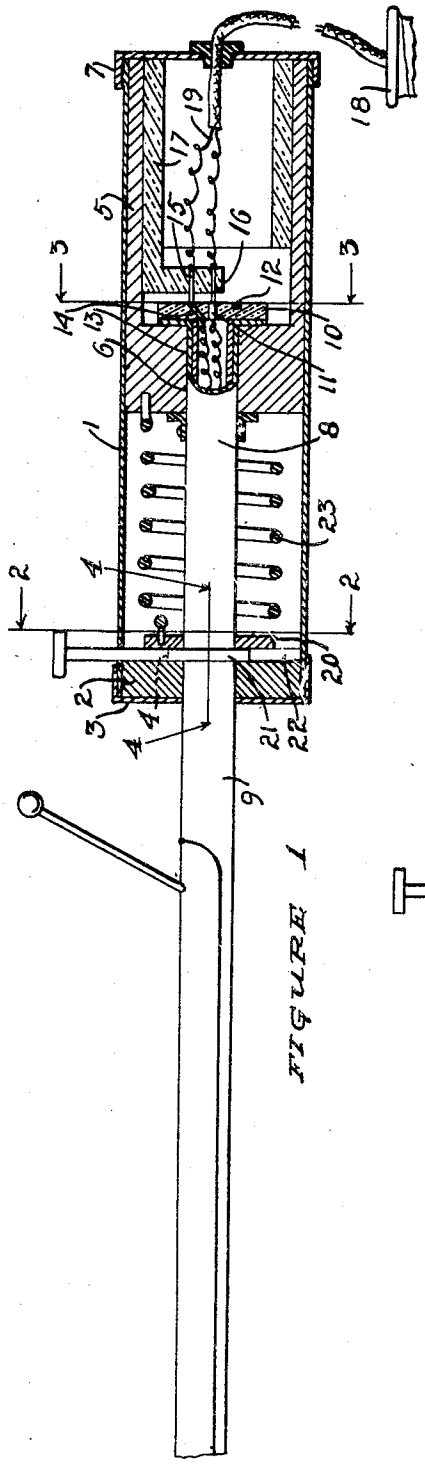


FIGURE 1

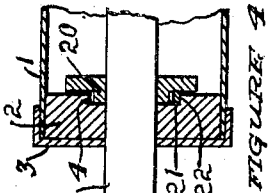


FIGURE 4

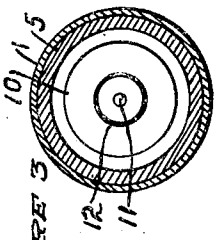


FIGURE 3

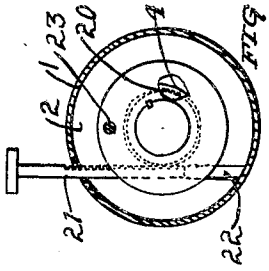


FIGURE 2

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UNITED STATES PATENT OFFICE

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HAIR CURLER

Application filed March 7, 1929. Serial No. 344,944.

It is the object of the present invention to provide a manually operated hair curling device so constructed and arranged that the electrically heated clamp can be rotated when clamped upon the hair without the necessity of rotating the handle at the same time, thereby eliminating the objectionable twisting and tangling of the cord by means of which the device is connected to the main electrical supply circuit.

It is also an object of the invention to provide a device of the character indicated that is economical to manufacture, simple in construction, strong, durable and highly efficient in its practical application.

In the drawings:

Figure 1 is a longitudinal section through a hair curler embodying my invention, partly in elevation with parts broken away.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a section on line 3—3 of Figure 1.

Figure 4 is a section on line 4—4 of Figure 1.

Referring now more particularly to the drawings, I show at 1 a hollow cylindrical handle member fitted with a bearing member 2 and a cap 3 at one end, the bearing member 2 having an annular recess 4 formed concentrically in its inner side as shown.

At 5 is shown a sleeve having a bearing 6 formed therein, the said sleeve being fitted in the end of the cylinder 1 opposite to bearing 2 and held against rotation relative to the cylinder in any suitable manner such as by the tightness of its fit therein. A cap 7 is screwed on to the end of the cylinder to prevent the sleeve from being forced out of the cylinder.

Revolubly mounted in the bearings 2 and 6 is the shank 8 of the electrically heated clamp 9. The shank 8 is provided with a head 10 on its inner end as shown, the head being of electricity insulating material, and mounted to rotate as a unitary part of the said shank. A central pin of electricity conducting material is mounted in head 10 to pass therethrough as at 11, and a collector ring 12 is fixedly mounted in the outer surface of head 10 in concentric relation to the pin 11 as shown. The heating wire 13 is connected to the pin 11 at one end and to the collector ring 12 through the medium of a pin 14 at the other end. The two brushes 15 and 16 are mounted in a member 17 in sleeve 5 and are connected to a suitable plug 18 by wires 19 whereby the device may be operatively connected to an electrical circuit in the usual manner.

The rotation of the shank 8 and clamp 9 is effected in the following manner. Keyed to the shank 8 is a pinion 20, the said pinion being seated in the recess 4 in bearing member 2. A rack 21 engages the pinion 20 and slides in the guideway 22 formed in the bearing member 2. A spring is shown at 23 connected to the pinion 20 at one end and to the bearing member 6 at the other end, the spring being so arranged as to urge the shank to turn in one direction and so normally maintain the rack 21 in an extended position relative to the cylinder.

It may now be easily seen that when the device is in use it may be held in the hand in the one position during the process of curling the hair, the clamp 9 being rotated in one direction to wind the hair up thereon by pressing downwardly upon the rack 21 and causing the shank to rotate in the direction opposite to the urge of the spring. When the clamp has been held in the one position for a sufficient length of time the rack is released and the spring permitted to rotate the clamp back to its normal position. When in operation the brush 16, being centrally disposed, remains in constant contact with pin 11, and brush 15 maintains a constant sliding contact with the rotating ring 12.

It is to be understood, of course, that while I have herein shown and described but one specific embodiment of the invention, changes in form, construction, and method of operation may be made within the scope of the appended claims.

I claim:

1. A hair curler comprising a tubular handle, an electrically heated curling clamp revolubly mounted in the handle, resilient means for urging the clamp to rotate in one

direction, means for actuating the clamp in the opposite direction and operative from the exterior of the handle, and means for effecting an electrical connection between the revoluble clamp and an electrical current supply disposed within the handle.

2. A hair curler comprising a tubular handle, spaced bearings mounted therein, an electrically heated curling clamp revolubly mounted in the bearings, a pinion mounted on the clamp within the handle, a rack mounted in the handle in operative relation to the pinion and extending outwardly therefrom whereby an inward movement of the rack will cause a rotation of the clamp in one direction, spring means mounted within the handle and connected to the clamp whereby to urge rotation of the clamp in the opposite direction, and electricity conducting terminals fixedly mounted within the handle in operative relation to the electrically heated clamp.

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