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E. K. HUSSEY
HAIR CURLING IRON
Filed April 26, 1926

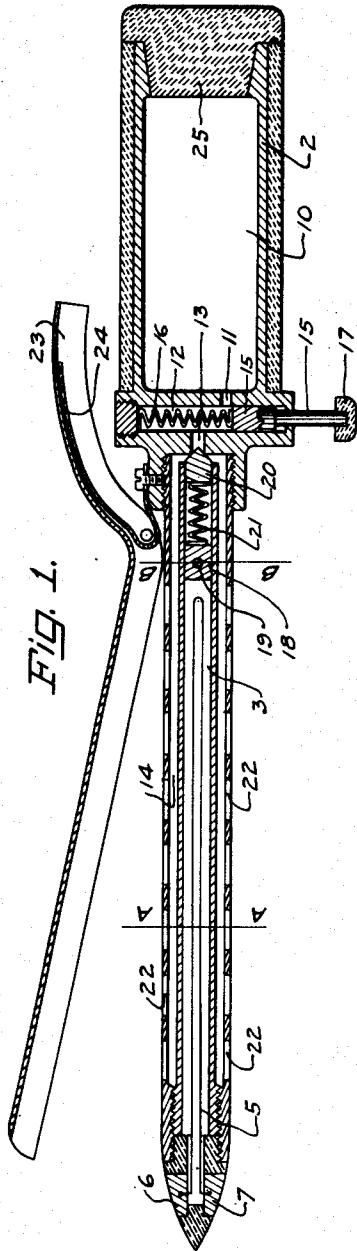


Fig. 1.

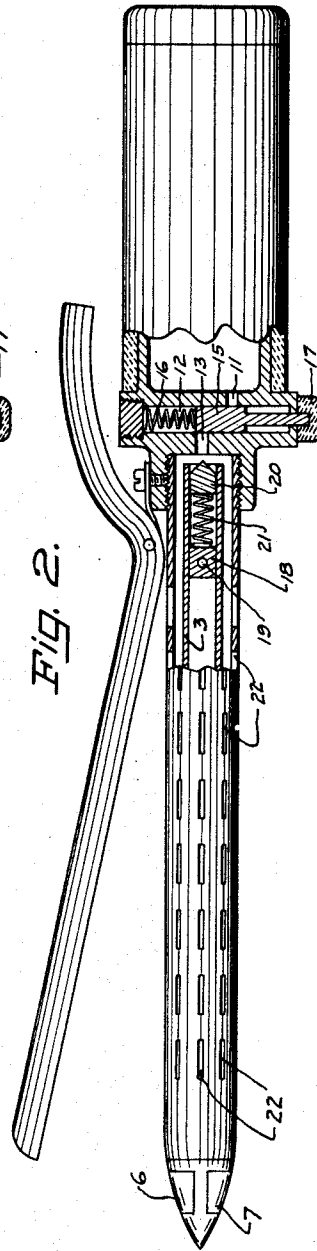


Fig. 2.



Fig. 5.



Fig. 4.

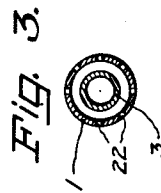


Fig. 3.

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HAIR-CURLING IRON.

Application filed April 26, 1926 Serial No. 104,687.

This invention relates to hair curling and marcelling irons used by women for curling their hair or otherwise forming same into the various shapes desired.

5 An object of the invention is to provide a curling iron with means, the use of which will form a better curl that will hold its shape for a greater length of time and to also eliminate the possibility of injuring the hair by
10 burning or over drying.

In other words, it is an object of the invention to provide for a curling iron a liquid container and a heating cavity and means for allowing a small amount of the liquid to
15 enter the said heating cavity and thereby vaporize, provision being further made for allowing the said vapor to escape the heating cavity and surround the body of the curler, producing moisture thereon, and thus enter
20 the particular portion of the hair that is being curled.

The invention possesses other objects and features of advantage, some of which, with the foregoing, will be made manifest in the
25 following description of the preferred form of the invention which is illustrated in the drawings accompanying and forming part of the specification.

It is to be understood that it is not intended
30 to limit the invention to the embodiment shown by said drawings and descriptions, as variations may be adopted within the scope of the invention as set forth in the claim.

In the accompanying drawings:

35 Figure 1 is a central longitudinal sectional view of one type of curling iron involving the invention.

Figure 2 is a side elevation and broken sectional view showing the opening and closing
40 movement of the valves.

Figure 3 is a sectional view through line A—A of Figure 1 looking in direction of the
45 arrows.

Figure 4 is a sectional view through line
45 B—B of Figure 1.

Figure 5 represents a longitudinal sectional view of a fabric cover that may be
50 used in the invention.

The improvements may be embodied in
50 any type of curling iron or marcelling device, which obviously may be built up in any suitable manner, the present illustration not being utilized as indicating the only form of
55 device into which the parts may be mounted.

According to the construction shown the numeral 1 designates the body of an ordinary

curling iron and the numeral 2 a handle secured thereon. An inner heating tube 3 with an outer diameter considerably smaller than the inner diameter of the body 1 is provided, and mounted in said body preferably
60 as illustrated in Figures 1 and 4. An electric conductor or heating coil 5, composed of high resistance fuse wire and preferably insulated, is mounted in the tube 3, and connected to
65 metal contact points 6 and 7 that are also insulated from the body by being fastened into an insulated piece 8 which fastens in the body 1 as shown in Figure 1. An electric circuit is thereby formed for heating the inner
70 chamber and the body 1 when said metal points 6 and 7 are supplied with electrical energy. The method of supplying electrical energy to points 6 and 7 is not considered a
75 part of this invention and is, therefore, not shown. Any simple device that will fasten into an electric lamp socket and have contact with points 6 and 7 and form an electric circuit with conductor 5, when the curling iron
80 is applied to the said device, can be provided, or any standard method may be used for heating.

As hereinbefore stated, the object of this invention is to provide means for applying
85 moisture to the hair while the hair is being curled. A preferred type of such means consists in providing a device having a liquid container 10 in the handle 2, the said container being provided with an opening 11 that leads into a valve chamber 12 that has
90 an opening 13 leading to a heating cavity 14. A plunger 15 is provided which is operative in chamber 12 and a spring 16 is mounted in said chamber to keep said plunger in its outermost position unless pressure is applied to the
95 plunger handle 17.

The heating tube 3 is provided with a liquid tight partition 18 that is substantially fastened therein by a pin 19 which projects
100 therethrough and into the main body 1, securing the tube 3 to the body 1, and forming a unit therewith as shown in Figures 1, 2 and 4. A cone shaped plunger 20 is mounted into the innermost end of the heating tube 3, the cone shaped end thereof being adapted
105 to fit snugly into the opening 13 and to be held in place by a spring 21 as shown in Figure 1.

It will thus be observed that if liquid is placed in the container 10 and the plungers
110 are in position as shown in Figure 1, the said liquid will fill chamber 12 through the open-

ing 11; and also, if plunger 15 is then pressed into the position as shown in Figure 2, the liquid in said chamber 12 will force plunger 20 to move inwardly as shown in Figure 2, allowing said liquid to be displaced through the opening 13 and into the cavity 14 and against the heating tube 3, thus causing the liquid to vaporize. Openings 22 are provided in the periphery of the body 1, and the hot vapor or steam produced in the cavity 14 is of a volume large enough to create sufficient pressure to enable some of the vapor to pass out of said openings 22 and surround the outer periphery of body 1 and enter that portion of the hair that is being curled.

It has been found in actual practice that applying hot moisture to the hair in this manner at the particular moment it is being curled improves the curl and makes it hold its shape for a much greater length of time. A very small quantity of liquid is required to perform the desired results and it is, therefore, to be noted that the proportions of the chambers and other parts of the device shown in the accompanying drawings are considerably exaggerated to better illustrate the principle involved in the invention.

A fabric cover adapted to cover the body 1 and illustrated in Figure 5 is provided in the invention, as it is sometimes desired to dampen the cover, putting same on the body

1, then placing the hair thereon and shaping in the usual way.

Having thus illustrated and described a certain form of construction and arrangement of parts pertaining to the invention, it is desired to include in this application for Letters Patent all that comes within the range of the invention as set forth in the claim hereinafter mentioned.

What is claimed is:

A hair curling or marcelling device having in combination a hair-shaping structure; a liquid-tight heating container mounted therein; an insulated electric heating conductor provided within the container; said conductor being provided with an electrical connection and adapted to be supplied with electrical energy; a handle provided on said hair-shaping structure; means in the handle for containing liquid; means for forcing the liquid against the heating container to form vapor; and a plurality of holes provided into and around the hair-shaping structure for permitting vapor to pass out of and completely around the hair-shaping structure while the hair is being shaped.

In testimony that I claim the foregoing I have hereto set my hand this 21st day of April, 1926.

EDWARD K. HUSSEY.