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2,749,920

HAIR SETTING DEVICE

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Fig. 1

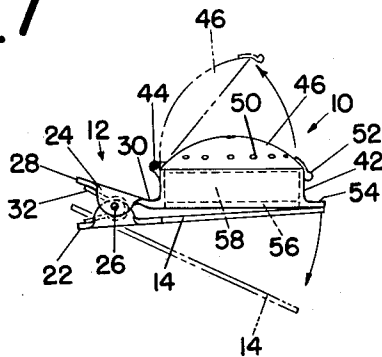


Fig. 2

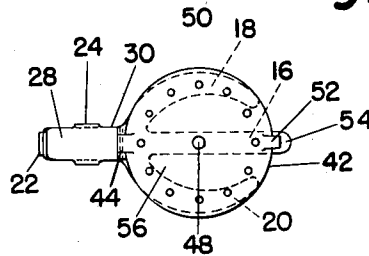


Fig. 3

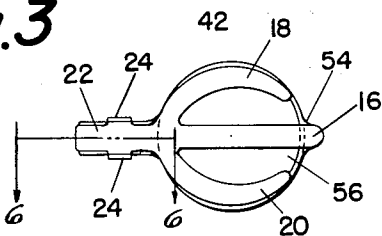


Fig. 4

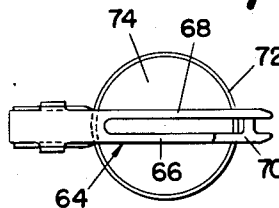


Fig. 5

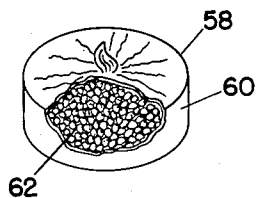


Fig. 6

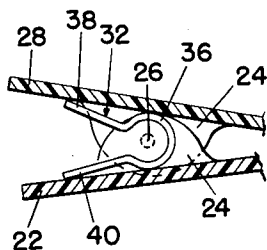
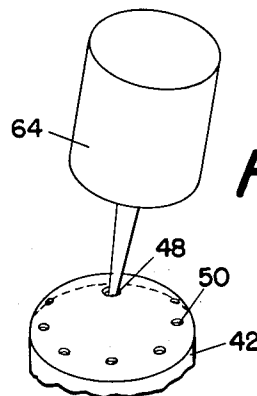


Fig. 7



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1

2,749,920

HAIR SETTING DEVICE

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6 Claims. (Cl. 132—31)

This invention relates to a hair setting device and a method of setting hair dry.

Heretofore, hair setting was a long and tedious process requiring first wetting the hair with water or a wave set, finger setting curls or waves in the hair while it was wet, clamping the molded tresses and then thoroughly drying the hair before removing the clamps and combing out the hair. The drying was accomplished either by hot air blowers for upwards of an hour or by allowing the hair to dry naturally for a longer period of time.

The primary object of the present invention is to provide a device and a method of setting hair dry which will overcome the disadvantages of and considerably reduce the length of the time normally required in the conventional wet hair setting method.

Another object of the present invention is to provide a simple, inexpensive, attractive and easily manipulated device for use in setting hair dry comprising a spring-tensioned clamp to hold the molded tress and means mounted on the clamp whereby dry heat may be generated by the interaction of chemicals.

A further object of the invention is to provide a device for use in setting hair dry comprising a spring-tensioned clamp adapted to hold a molded tress of hair, a container having a perforated hinged lid mounted on the clamp, an absorbent chemical-containing packet removably retained in the container and a chemical in liquid form adapted to be dropped onto the packet through the perforated lid whereby interaction of the chemicals generates heat sufficient to set the molded tress in but a few minutes. To prevent burning of the fingers when handling the clip, the same is preferably made of a plastic and a means may be associated with the bottom of the container to conduct the generated heat to the tress.

Another object of the invention is to provide a method of setting hair dry employing chemical heat generating clamps in which the setting of the molded tresses can be accomplished in so short a time that one can begin successively to remove the clamps immediately after the last clamp was applied to a tress.

Another object of the invention is to provide a device for and a method of setting hair dry which will permit a woman completely and effectively to set her hair within a short time just prior to an engagement.

And yet another object of the invention is to provide a device for and a method of setting hair dry which can be carried out safely and quickly by women who, for health reasons, may not subject themselves to hot air dryers.

These and other objects of the invention will become more apparent as the following description proceeds in connection with the accompanying drawing, wherein;

Figure 1 is a side elevational view of the hair setting device;

Figure 2 is a top plan view thereof;

Figure 3 is a bottom plan view thereof;

Figure 4 is a bottom plan view of a modified form of the device, with a portion of one of the arms broken away;

Figure 5 is a perspective view of the chemical-retaining

2

packet used in the device, parts being broken away to show further details;

Figure 6 is a sectional view taken on the line 6—6 of Figure 3;

Figure 7 is a fragmentary enlarged perspective view of the container portion of the device and illustrating the manner of applying an additional chemical therein.

Specific reference will now be made to the drawings wherein similar reference characters are used for corresponding elements throughout.

The present hair setting device is generally indicated at 10 and in its broadest aspect comprises a clamp adapted to hold a molded tress of hair, the clamp having mounted thereon a container having a chemical therein to which may be added an additional chemical.

The interaction between the chemicals generates heat which is conducted to the molded tress of hair.

The clamp portion of the device is indicated at 12 and may be any suitable mechanism consisting of a pair of arms which can be opened against spring-tension to engage a molded tress of hair. The clamp preferably comprises a lower jaw 14 which is trifurcated thereby including a central arm 15 integral with outer curved arms 18 and 20.

The end of the jaw 14 constitutes one portion of the handle 22 which is pivoted by means of cooperating ears 24 and detents 26 to the handle portion 28 of an upper cooperating jaw 30. An arcuate spring 32 is provided having a web portion 36 embracing the pivotal axis between the detents 26 and legs 38 and 40 which bear against the handle portions 22 and 28 of the jaws, as shown clearly in Figure 6.

Thus the jaws are urged into a closed position, as shown in solid lines in Figure 1, and can be urged into an open position by depressing the handle portions 22 and 28, as shown in dotted lines in Figure 1.

Molded or otherwise secured to the upper jaw 30 beyond its handle portion is a container 42 which is preferably circular and has an outer margin substantially contiguous with the outer margins of the curved arms 18 and 20 of the lower jaw 14. Hinged as at 44 to the rear portion of the container is a dome-like cover or lid 46 having a central perforation 48 and circumferentially spaced perforations 50. The forward portion of the cover 46 is provided with a lip 52 adapted to engage a portion of the forward edge of the container 42 to releasably hold the cover in a closed position as shown in solid lines in Figure 1. It will be noted that the forward end of the upper jaw 30 includes a portion 54 which is adapted to bear against the forward end portion of the lower jaw 14.

Although the present device may be fabricated of metals and other suitable materials, to prevent burning of the fingers when operating the clamp, it is preferred that the clamp, container and hinged cover be fabricated of a non-heat conductive material, such as any suitable plastic.

Because the container will carry a chemical packet for the generation of heat, when the clamp and container are fabricated of a plastic material, a means is provided in association with the container for conducting the generated heat to the molded tress of hair held between the jaws of the clamp. This means is preferably a metallic disc 56 which is frictionally retained within the open bottom end of the container 42. The disk may be made of aluminum, tin or similar metals.

When the lid is in an open position as shown in dotted lines in Figure 1, a packet 58 is insertable in the container to rest upon the metallic disk 56.

As shown in Figure 5, the packet comprises a porous envelope 60, such as paper or cloth mesh, containing a chemical compound or compounds 62. This compound may be potassium or magnesium permanganate. To

generate heat in the container for conduction through the metallic disk 56 to the clamped tress of hair, an additional chemical in liquid form can be dropped onto the packet 58 through the perforation 48 of the lid 46 by means of a dropper or a flexible squeeze bottle 64. Said chemical in liquid form may be glycerol which will cause an exothermic reaction to occur with the permanganate in the packet as set forth in Bonat Patent No. 2,239,410, dated April 22, 1941. It will be understood that the contents of the packet and the nature of the chemical in liquid form to be added thereto is not limited to those chemicals as set forth in said Bonat patent. Any combination of chemicals may be employed provided they are safe, will not react with the materials from which the present device are fabricated and will react exothermally.

The modified form of the device as shown in Figure 4 is identical in every respect with the device described hereabove except that the lower jaw 64 is bifurcated thereby including two integral spaced arms 66 and 68. The upper jaw 70 of the clamp is also bifurcated and is resiliently pivoted to the lower jaw in the same manner as the previously described clamp. The packet-retaining container 72 with its metallic bottom disk 74 are mounted upon or molded with the upper jaw 70.

The present invention also comprises a novel method of setting hair dry using the principles of the above described device.

In its broadest aspects, the method comprises setting the hair dry in the desired waves and curls, clamping the individual tresses of hair and applying generated heat locally on the tress.

More specifically, the method comprises clamping a dry molded tress of hair, retaining a chemical-containing absorbent packet on the tress and applying another chemical in liquid form on the packet whereby the chemicals react to generate heat and conduct the same in sufficient quantities and for a sufficient time to set the tress.

The method is most efficiently carried out with the above described device as follows. The lid 46 is hinged to the open position and the packet 58 is inserted therein. The lid is then closed and the second chemical in liquid form is dropped onto the packet through the central hole 48 of the lid.

A tress of hair is then molded as desired, for example in a pin curl with the finger, and the tress is then retained between the jaws of the clamp. This procedure is repeated for the entire head of hair. The heat generated in the container on the clamp will be conducted to each individual tress through the metallic bottom thereof and after a short time, the clamps are removed and the head is combed out.

It has been found that the use of the present device and the present method will permit one to begin to remove the first and subsequent clamps immediately after the last clamp has been applied to the hair. In other words, the heat generated in the clamp is sufficient to set the molded tress in approximately five to ten minutes.

While preferred embodiments of the invention have been shown and described hereabove, minor variations thereof may be made by one skilled in the art without departing from the spirit of the invention and the scope of the appended claims.

We claim:

1. A hair setting device consisting of a clamp having a pair of pivoted spring-tensioned arms adapted to receive a tress of hair between their inner faces, a container mounted on the outer face of one of said arms having a perforated portion and a chemical in said container, said container being adapted to receive through its perforated

portion an additional chemical in liquid form to react with said first-named chemical to generate heat.

2. A hair setting device consisting of a clamp having a pair of pivoted spring-tensioned arms adapted to receive a tress of hair between their inner faces, a container mounted on the outer face of one of said arms and including a perforated lid hinged thereon and a chemical-containing packet removably retained in said container, said container being adapted to receive through its perforated lid an additional chemical in liquid form to react with the chemical in the packet to generate heat.

3. The combination of claim 2 wherein said clamp and container are made of a non-heat conductive material and the bottom of said container is made of a heat conductive material.

4. A hair setting device consisting of a clamp having a pair of jaws pivoted adjacent one of their ends and including spring tension means to urge the jaws into a closed position to engage a tress of hair between their inner faces, said one end of said jaws constituting a handle whereby said jaws can be urged to an open position against the action of said spring tension means, a container fixedly mounted on the outer face of one of said jaws beyond said handle and a chemical in said container, said container being adapted to receive an additional chemical in liquid form to react with said first-named chemical to generate heat, said container including a perforated lid hinged to the top thereof, said lid serving when open to admit the entrance of said first-named chemical into said container and when closed to admit the entrance of said chemical in liquid form.

5. A hair setting device consisting of a clamp having a pair of jaws pivoted adjacent one of their ends and including spring tension means to urge the jaws into a closed position to engage a tress of hair between their inner faces, said one end of said jaws constituting a handle whereby said jaws can be urged to an open position against the action of said spring tension means, a container fixedly mounted on the outer face of one of said jaws beyond said handle and a chemical in said container, said container being adapted to receive an additional chemical in liquid form to react with said first-named chemical to generate heat, the clamp and container being made of a plastic and the bottom of said container including a metallic member.

6. A hair setting device consisting of a clamp having a pair of jaws pivoted adjacent one of their ends and including spring tension means to urge the jaws into a closed position to engage a tress of hair between their inner faces, said one end of said jaws constituting a handle whereby said jaws can be urged to an open position against the action of said spring tension means, a container fixedly mounted on the outer face of one of said jaws beyond said handle and a chemical in said container, said container being adapted to receive an additional chemical in liquid form to react with said first-named chemical to generate heat, said jaws being trifurcated, the outer furcations extending to the marginal edge of said container.

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