July 23, 1940. J. C. KEANEY 2,208,675

APPLIANCE FOR USE WITH HEATED HAIR-WAVING APPARATUS

Filed Jan. 31, 1940

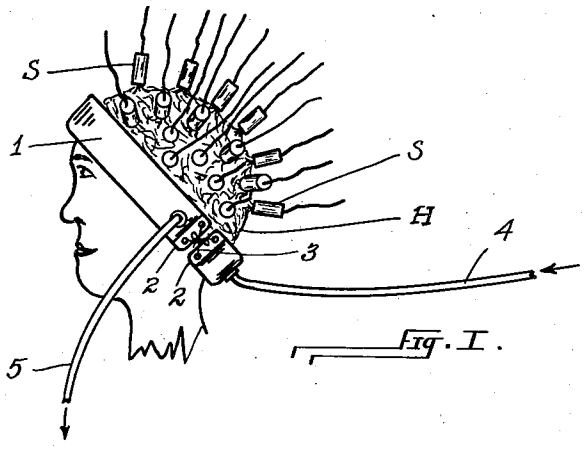


Fig. I.

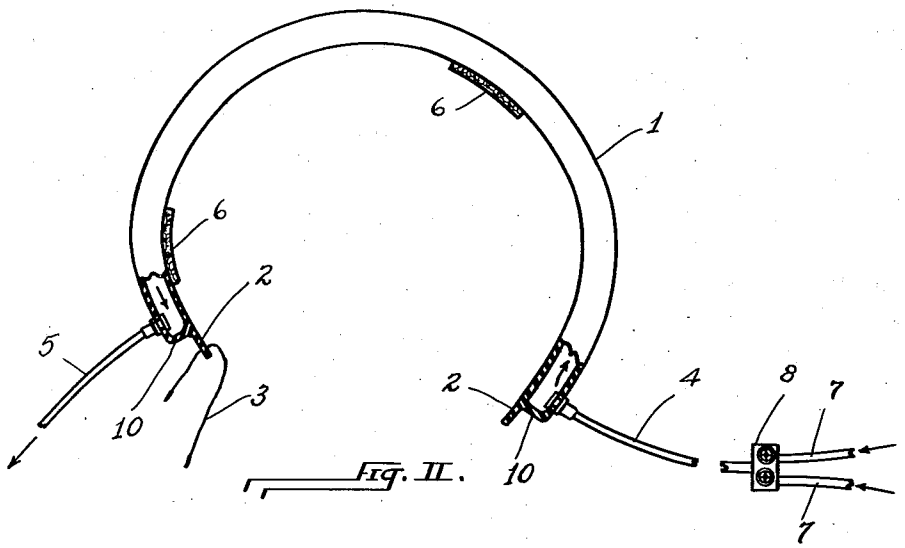


Fig. II.

INVENTOR

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Patented July 23, 1940

2,208,675

UNITED STATES PATENT OFFICE

2,208,675

APPLIANCE FOR USE WITH HEATED HAIR-WAVING APPARATUS

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Application January 31, 1940, Serial No. 316,576

4 Claims. (Cl. 132—9)

My invention relates to hair dressing, more particularly to the permanent waving of hair.

In the permanent waving of hair according to a widely used technique, the hair on the subject's head is separated into tufts or locks; and each lock is coiled or wound (usually upon a metal stem) into a tight curl and the curl is heated and steamed within an electrically heated device known as a stove. Several locks of hair are usually treated at the same time, and it has been found that the hot stoves, positioned close to the head of the subject, are uncomfortable, and frequently cause severe headaches. The object of my invention is to eliminate, so far as may be, these discomforting circumstances, and the invention consists in a simplified and particularly effective device to such end.

An embodiment of the invention is illustrated in the accompanying drawing, in which Fig. I is a view in side elevation of the head of a woman whose hair is undergoing waving treatment, with the device of the invention in position of service upon the woman's head. Fig. II is a view to larger scale, showing the device partly in plan and partly in section.

The device of the invention consists in a hollow, flexible band or ring 1 adapted snugly to embrace the head H of the subject. Advantageously, the hollow ring is of interrupted continuity (to adapt it to heads of various sizes); the ring is closed at the two ends 10, and provided with perforate tongues 2, with the consequence and effect that the ends of the ring, with the ring snugly engaged upon the head, may be united, as by means of a lace 3. In service the ring will ordinarily be positioned as shown in Fig. I, extending across the forehead, at the hair line, down to and around the nape of the neck.

Essentially, the inner wall of the ring is formed of a soft, flexible, heat-conducting material, and preferably the entire body of the ring may be constructed of such material. An elastic rubber provides an excellent material, and in this case the entire body of the tubular ring is integrally formed of rubber. Means are provided for establishing and maintaining a circulating body of heat-dissipating fluid in the chamber within the ring, and such means may comprise an inlet conduit 4 and an outlet conduit 5 that severally communicate with such internal chamber at points adjacent to the opposite ends of the ring. (Note Fig. II.) Water will ordinarily be the fluid used, and in the usual case the water will be drawn from a faucet to which the rubber conduit may in manifest way be connected. The outlet conduit 5 may be led into a lavatory basin or other suitable drain. By adjustment of the faucet valve such flow of cool water may be maintained within the ring as to achieve the desired removal of heat from the head of the subject. In refinement I may provide upon the inner wall of the ring two pads 6, 6 of felt, or the like, which in service cover the ears of the subject, and protect them from the chilling effect of the cool or cold water. The device described operates to dissipate the heat radiated by the hot hair-waving stoves S, and keeps the head of the subject cool and comfortable.

In practice I propose to use a band of linen, or of absorbent paper, between the head of the subject and the cooling device, such interposed band serving to absorb perspiration from the head and atmospheric condensate that may tend to collect upon the cool external surfaces of the device. The band may be used just once and discarded, and in this way the best conditions of sanitation are maintained.

It has developed that the device of this invention proves serviceable (apart from the hair-waving apparatus) in curing headaches, and in some cases the curative effects are augmented by interrupting the heat-dissipating action of the device from time to time and applying heat to the head and neck of the user. To gain this end the inlet conduit may be branched, as indicated in Fig. II; that is, it may be provided with two branches 7, 7, one for connection to the hot-water spigot and the other to the cold-water spigot of the usual water supply system of the shop or home. A double control valve 8 is included in the assembly, readily to establish flow of either hot or cold water to the hollow head-piece or ring 1.

Various modifications are, within the ken of the artisan, permissible without departing from the invention covered in the appended claims.

I claim as my invention:

1. A thermal appliance particularly designed for use with heated hair-waving apparatus, said appliance comprising a flexible-walled, hollow, heat-conducting band of light weight adapted to be applied and circumferentially adjusted to the head of the subject, said band being borne in snug contact upon the forehead of the subject and extending in head-embracing position into snug contact with the nape of the subject's neck, and flexible inlet and outlet ducts for fluid communicating with the interior of such hollow band, whereby a circulation of cooling fluid may be established and maintained in the band.

2. A thermal appliance particularly designed for use with heated hair-waving apparatus, said appliance comprising a flexible-walled, hollow, heat-conducting band of light weight adapted to be applied and circumferentially adjusted to the head of the subject, said band being borne in snug contact upon the forehead of the subject and extending in head-embracing position into snug contact with the nape of the subject's neck, and flexible inlet and outlet ducts for fluid communicating with the interior of such hollow band, whereby a circulation of cooling fluid may be established and maintained in the band, the head-contacting surface of said band carrying insulating pads adapted to protect the ears of the subject from the thermal effects of said circulating fluid.

3. A thermal appliance particularly designed for use with heated hair-waving apparatus, said appliance comprising a flexible-walled, hollow, heat-conducting, circular band of interrupted continuity adapted to be applied and circumferentially adjusted to the head of the subject, said band being borne in snug contact upon the forehead of the subject and extending in head-embracing position into snug contact with the nape of the subject's neck, means for securing the ends of such band together substantially to complete the circumferential continuity of the band in such position upon the subject's head and neck, and flexible inlet and outlet ducts for liquid communicating with the interior of such band severally adjacent to the ends thereof at said interruption in the circumferential continuity, whereby a circulation of liquid may be established and maintained in the band.

4. The structure of the next-preceding claim, in which said inlet duct includes two branches, one for hot liquid and one for cold liquid, whereby the body of liquid circulated in the hollow band may be alternately hot and cold.

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