March 1, 1927. 1,619,794

J. MAYER

PERMANENT HAIR WAVING APPLIANCE

Filed March 19, 1925

Fig. 1

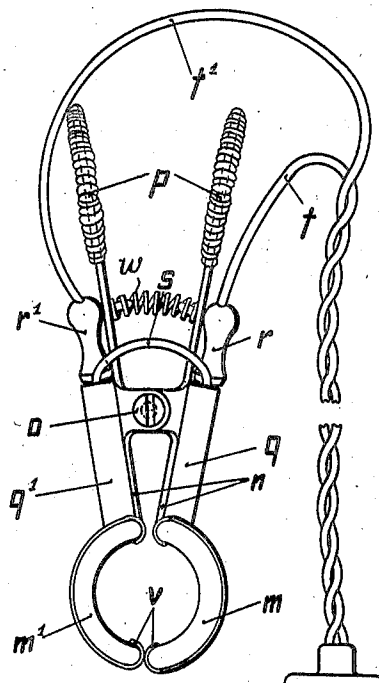
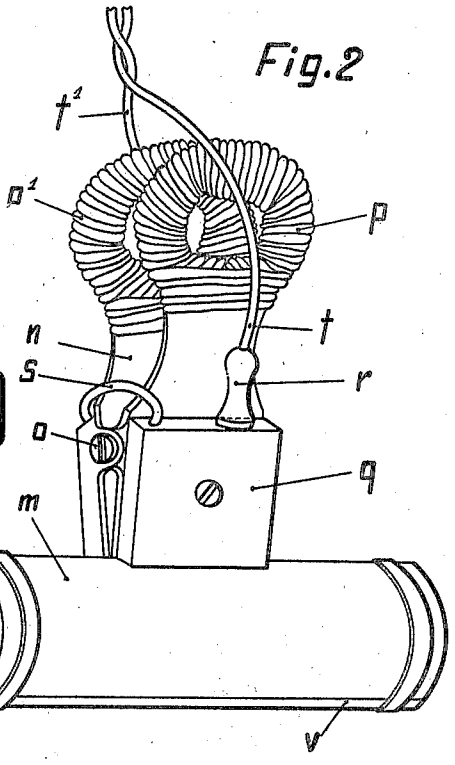


Fig. 2



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UNITED STATES PATENT OFFICE.

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PERMANENT-HAIR-WAVING APPLIANCE. REISSUED

Application filed March 19, 1925, Serial No. 16,784, and in Czechoslovakia April 3, 1924.

There are at present two styles of permanent hair curling or waving in use. In one a strand of hair is coiled from the root helically upon a curling rod, whilst in the other the hair strands are wound from their free end, turn upon turn, upon a curler, the hair in the former case being bunched together to form a substantially round strand and in the latter case spread out more or less in the same plane to form a flat strand. After winding upon the curler the hair is in both cases subjected to the action of a suitable heating device to impart permanency to the "curl" in the case of the first process and to the "wave" in the second case.

The heating device for permanent curling generally consists of a sleeve like heating body, adapted to be passed over the curler when wound with hair and either left open or closed at its ends during the heating process. Such a sleeve like heating device can, however, not be used in the case of the waving of a flat hair strand inasmuch as the hair extending between the curler and the head along the length of the curler prevents its application to the curler. The present invention has for its object to provide a new or improved heating device for use in the waving of flat strands of hair and to this end the heating device consists of two semi-cylindrical heating bodies mounted on scissor-like handles, so that the cylinder can be opened or closed as desired to be applied laterally over the curler instead of longitudinally thereof as in the case of permanent curling of the hair. To protect the head the edges of the heating bodies are provided with heat insulating cover pieces, which are preferably removable so that only dry cover pieces serving as efficient heat insulators need be employed.

With the foregoing and other objects in view the invention consists of the combination of parts hereinafter set out in the appended claims, and by way of example for illustrative purposes only, an embodiment of the invention will now be described with reference to the accompanying drawings, in which:—

Figure 1 is an end elevation of the heating device with parts removed, and

Figure 2 is a perspective view of same.

The hair strand after being wound on the curler, and suitably wrapped up and preferably enclosed in a perforated metal sheath and treated with lotions, is surrounded by an electric heating apparatus such as illustrated by the drawings. This apparatus should be so made as to act over the whole length of the hair strand equally, in order to carry the process through uniformly. For this purpose the heating device consists, as shown, of semi-cylindrical heating bodies which can be opened sufficiently by means of scissor-like handles to enable the heating device to be passed laterally over the wrapped up and enclosed hair strands.

The heating device is so arranged that the same hand that applies the device is also able to switch the current on or off, thus releasing the second hand for any other service.

The resistance wires are wound between mica sheets, or the like, in two casings m and m' of semi-circular shape, made of aluminium or other suitable material. These casings are attached to handle portions n pivoted together at o like a pair of scissors and provided at their other ends with insulating handles p. A spring w is arranged between the handles n to force them from each other and thereby hold the heating members in closed position. The current for the resistance wires in the casings m, m' passes through wires enclosed completely in the insulating casings q, q'. These casings q, q' are provided with sockets for plugs r, one socket being provided in each casing, so that the two plugs connected with the current supply wires are separated from each other. The other terminals of the casings q, q' are connected together by means of a wire s.

The current thus passes through the wire t, plug r and casing q to the heating body m and then through the wire s to the heating body m'; thence to the plug r' on passing q' and by wire t' back to the source of supply. The resistances in the casings m and m' are of such a value and arranged in any known manner so as to produce an amount of heat suitable for waving the hair.

The current supply wires t and t' may terminate in a pin plug u, and the metal casings m and m' are covered along the edges by protecting strips v of insulating material (suitably glazed cardboard), which can be easily removed. These strips are suitably bent to shape and are fixed at both ends by means of clamps or other means. This protecting means requires to be renewable in order to preclude any harmful in-

fluence from the electric current; the edges of the casings *m* and *m'* must always be completely dry, which can be effected by always using dry and interchangeable cover bars.

In use the heating appliance should remain for some 12 to 15 minutes on the wrapped-up hair strands, and any uncomfortable warmth for the head may be dispelled by a current of air.

After removal of the heating appliance, the hair strands are moistened with a solution consisting of 900 grams of water, 100 grams acetic acid, 2 grams of tartaric acid and a few drops of nitro-benzole. After such moistening the hair may be washed in the usual way, but this is not necessary for the production of permanent hair waves.

A number of heating appliances are required and they are best placed on a stand, from which they may hang by cables serving also to conduct the current, in such a way as to be adjustable in height.

What I claim is:—

1. Permanent hair waving apparatus, including a heating apparatus comprising two semi-cylindrical electrically heated side members, spring means for pressing said members towards each other, arms carrying said side members and pivoted together, said arms having insulated handles, and insulating casings on the arms and having sockets for the plugs of the current supply wires.

2. Permanent hair waving apparatus, including a heating apparatus comprising two semi-cylindrical electrically heated side members, spring means for pressing said members towards each other, arms carrying said side members and pivoted together, and plug sockets for the connecting plugs of a current supply circuit disposed on said arms.

3. Permanent hair waving apparatus, including a heating apparatus comprising two semi-cylindrical electrically heated side members, spring means for pressing said members towards each other, arms carrying said side members and pivoted together, bent strips of insulating material for application to the edges of the side members, and means for fixing said strips to said side members in a detachable manner.

In testimony whereof I have signed my name to this specification.

JOSEF MAYER.