

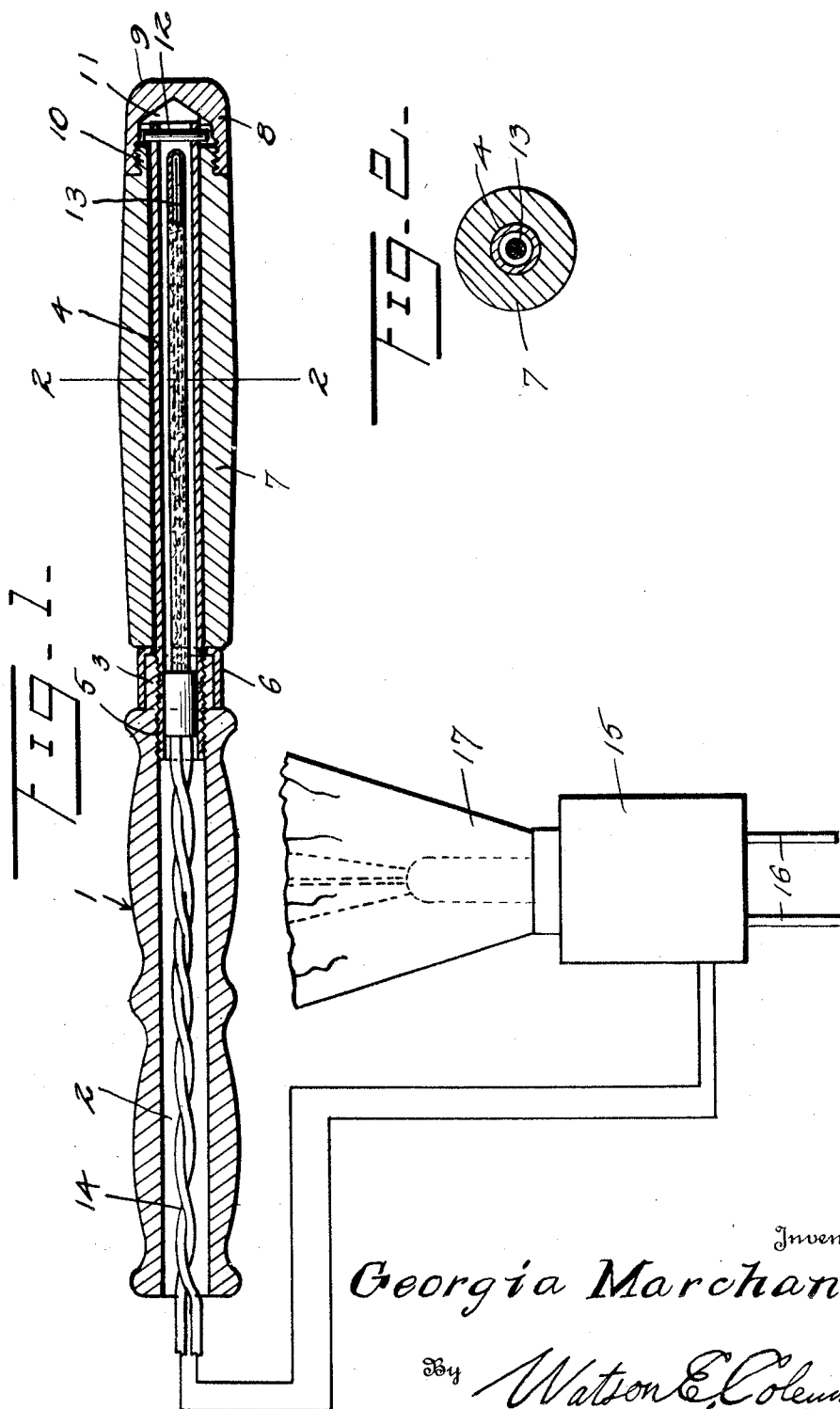
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HEATED ROLLER DEVICE FOR FACIAL TREATMENT

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## UNITED STATES PATENT OFFICE

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HEATED ROLLER DEVICE FOR FACIAL TREATMENT

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This invention relates to improvements in implements for use in beauty culture and pertains particularly to an electrically heated rolling massaging device.

5 The primary object of the present invention is to provide a roller for facial treatment, which is novelly supported upon a handle so that the device may be used in any position without difficulty.

10 Another object of the invention is to provide a rolling face treating implement of elongated design, having a rounded free end portion by means of which better results may be obtained than with devices of the character at present in use.

15 A still further object of the invention is to provide a rolling massage device for facial treatment, which is electrically heated and mounted for free rotation so that it may be employed for heating and massaging the skin.

20 The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawing forming part of this specification, with the understanding, however, that the invention is not confined to any strict conformity with the showing of the drawing but may be changed or modified so long as such changes or modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

25 In the drawing:  
Figure 1 is a view in longitudinal section through the device embodying the present invention.

Figure 2 is a sectional view taken on the line 2-2 of Figure 1.

40 Referring more particularly to the drawing, wherein like numerals of reference indicate corresponding parts throughout the several views, the numeral 1 indicates generally the handle of the present implement which has a passage 2 longitudinally through the center thereof and which is reduced to form the tip extension 3 at one end. The extension 3 is at the forward end of the handle and there is inserted into this end of the passage 2 one end of a metal tube 4, the connec-

tion between the tube and the handle being made by screw threads 5, or any other suitable means. Surrounding the extension 3 is a metal ferrule 6 which acts to prevent the splitting of the reduced end and also acts as a bearing for the roller of the implement, as will be described.

55 Mounted upon the tube 4 is a roller 7 which is preferably formed of aluminum metal. This roller has, at its forward end, a removable tip 8, the outer surface of which forms a smooth continuation of the roller body so that the joint between the main portion of the body and the tip is smooth and will not interfere in any manner with the use of the device. The free end of the tip is rounded, as indicated at 9, so that it may be worked over surfaces against which the side of the roller could not be conveniently placed. As shown, the complete roller, which includes the tip 8, is of substantially barrel-shaped formation, that is, it is of greatest width midway between its ends and tapers slightly to each end.

75 The tip 8 of the roller is secured to the main body portion by a threaded reduced extension 10 which projects into the chamber 11 formed in the tip. The tube 4 extends into the chamber 11 of the tip and has passed transversely therethrough the pin 12, the ends of which project beyond the outer surface of the tube and bear against the reduced extension 10 thus holding the roller against longitudinal movement, but permitting it to rotate.

80 Within the tube 4 is a heater in the form of an electric resistance 13 which is connected with the cord 14 which passes through the passage 2 and out of the rear end of the handle 1.

85 In use the current flowing to the heater may be passed through any suitable form of resistance so as to prevent the device from heating to too high a degree.

90 As an example there is shown a resistance in the form of a socket 15 having at one end the usual prongs 16 to facilitate its connection with a source of current and receiving in its other end the base of an incandescent bulb 17 through the filament of which the cur-

rent passes before entering the resistance 13 of the heater, the filament of the bulb serving as an additional resistance to cut down the quantity of current flowing to the implement.

5 It will, of course, be understood that other types of resistance units may be employed if desired.

From the foregoing it will be readily apparent that the device herein described may be easily used in any position as the roller 10 body 7 is mounted in such a manner that there are no parts which would interfere with its use in any position. In addition to this, the particular formation of the roller is such 15 that better results are obtained than with flat rollers or rollers of other shapes, and also the provision of the rounded free end gives advantages to the present implement which are not had by other implements.

20 Having thus described my invention, what I claim is:

1. A therapeutic device of the character described, comprising a handle, a tube secured at one end in the handle, said handle 25 having an electric wire extending there-through from the other end and into the tube, an electric resistance heater in the tube having connection with said wire, an elongated roller having a longitudinal passage formed 30 therein from one end to receive said tube, said roller having its other end formed to provide a detachable rounded tip having a recess therein receiving the forward end of the tube, and a pin member extending trans- 35 versely through the forward end of the tube and having its ends engaging an adjacent portion of the roller and acting to prevent longitudinal movement of the roller on the tube but permitting rotary movement there- 40 of.

2. In a therapeutic device of the character described, a handle, a tube issuing from the handle, an electric resistance heater in the tube, a roller including an elongated body 45 portion and a rounded tip portion, the body portion having an axial bore from end to end thereof to receive the tube, said tube forming a journal for the body portion, said body portion being formed at its end oppo- 50 site said handle with an externally threaded boss, the end of said boss forming an annular shoulder, means mounted on the tube and forming an abutment for said shoulder and normally limiting the endwise movement of 55 said body portion on the tube in a direction away from said handle, said means being adapted to be manipulated to permit the endwise removal of said body portion from said tube, said tip portion being threaded on said 60 boss and constituting normally a continuation of the body portion, turning therewith in the use of the device, and being removable therefrom to give access to said abutment means.

65 3. In a therapeutic device of the character

described, a handle, a tube issuing from the handle, an electric resistance heater in the tube, said handle having an annular abutment portion encircling the tube, a roller including an elongated body portion and a 70 rounded tip portion, the body portion having an axial bore from end to end thereof to receive the tube, said tube forming a journal for the body portion, said abutment portion on the handle limiting endwise movement of 75 the roller body portion in the direction of the handle, said body portion being formed at its end opposite said handle with an externally threaded boss, the end of said boss forming an annular shoulder, means mounted on the 80 tube and forming an abutment for said annular shoulder normally limiting endwise movement of said body portion, on the tube, in a direction away from said handle, said means being adapted to be shifted to avoid 85 engagement with said shoulder and thereby permit of the endwise removal of said body portion from said tube, said tip portion being formed with a recess therein and thread- 90 ed on said boss and constituting normally a continuation of the body portion, turning therewith in the use of the device, but being removable therefrom to give access to said abutment means for said body portion, the 95 recess in the tip portion, in the normal relation of said portion, receiving a part at least of the abutment means.

In testimony whereof I hereunto affix my signature.

GEORGIA MARCHAND. 100

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