

Feb. 7, 1933.

P. ANASTASI

1,896,933

HAIR AND SCALP TREATING APPARATUS

Filed Nov. 7, 1931

2 Sheets-Sheet 1

Fig. 5.

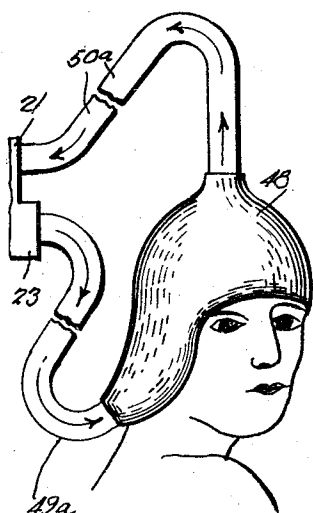


Fig. 4.

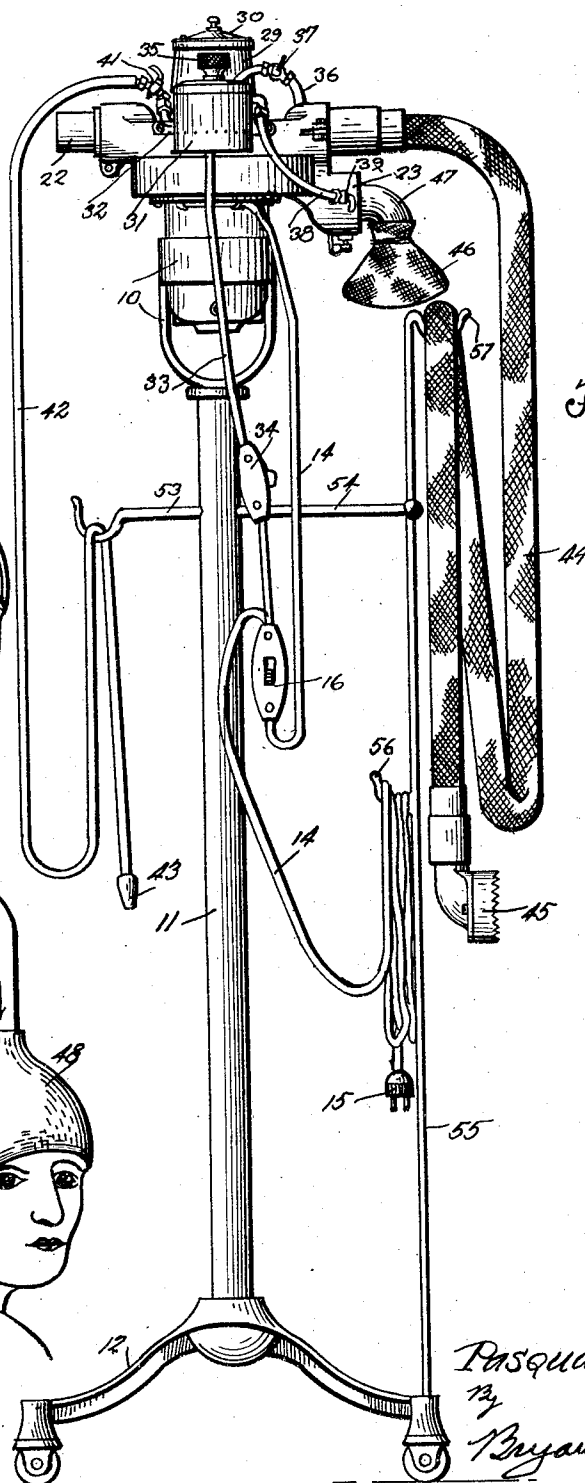
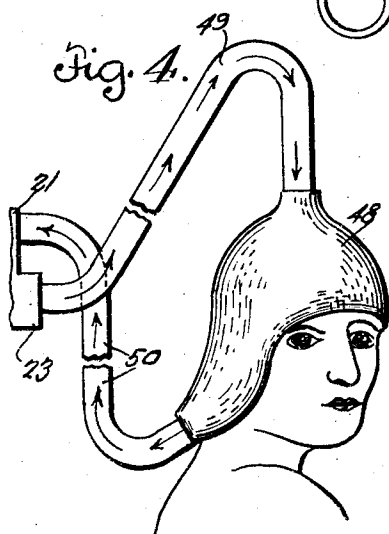


Fig. 1.

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2 Sheets-Sheet 2

Fig. 2.

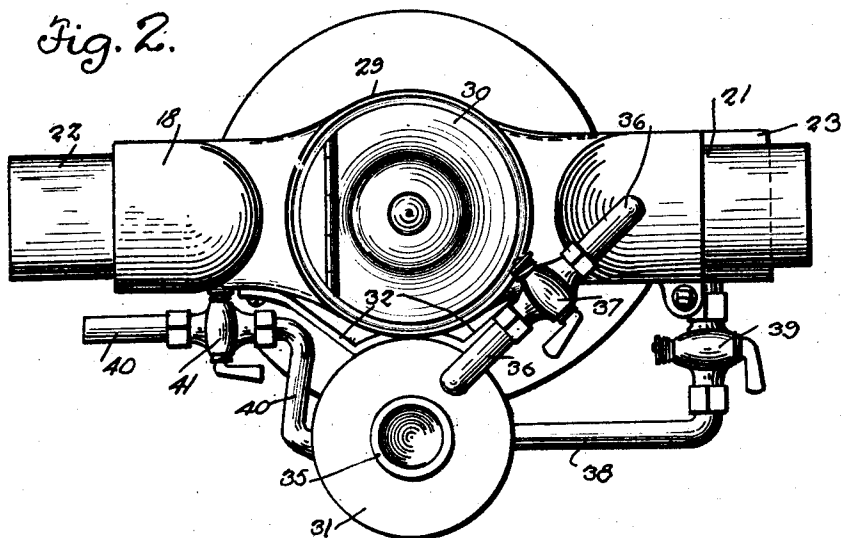
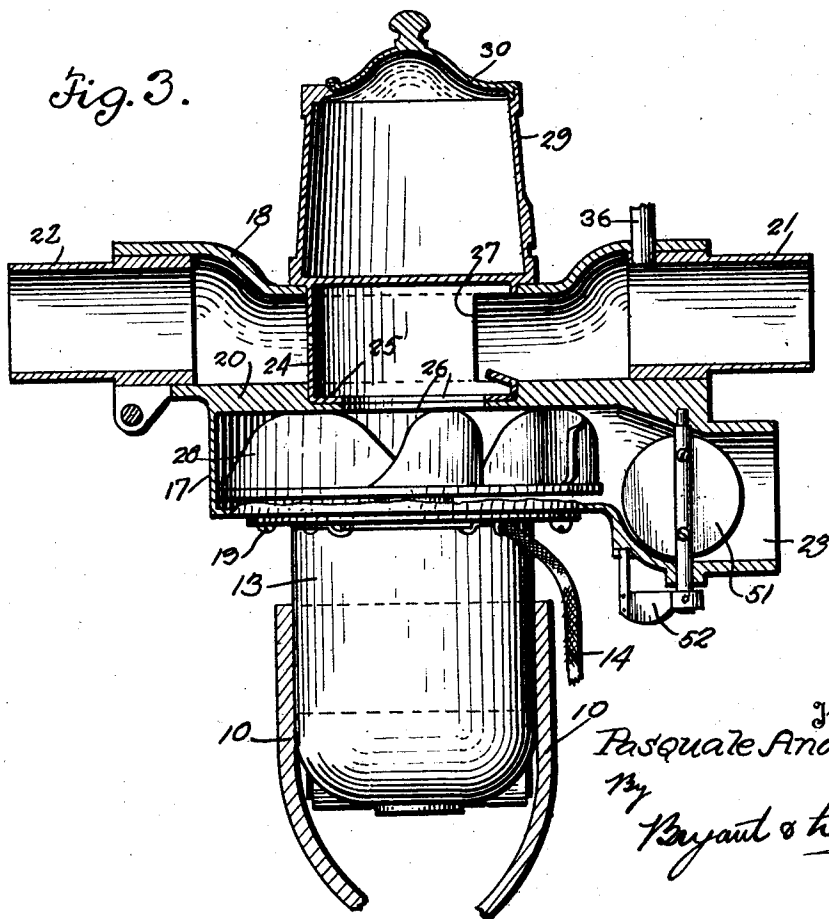


Fig. 3.



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UNITED STATES PATENT OFFICE

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HAIR AND SCALP TREATING APPARATUS.

Application filed November 7, 1931. Serial No. 573,696.

This invention relates to certain new and useful improvements in hair and scalp treating apparatus.

The primary object of the invention is to provide hair and scalp treating apparatus wherein motor operated air circulating devices are adapted to be associated with a cap or hood that is placed over the hair or scalp of a person for circulating air through the hood for a drying treatment after a shampoo operation and having a heater device for heating the air currents.

Another object of the invention is to provide hair and scalp treating apparatus of the foregoing character embodying motor operated air circulating devices and a heater receptacle to contain hair or scalp treating fluid of any preferred character with means forming communication with the air circulating devices to promote the flow of air into the heater casing and the discharge therefrom of the fluid in a heated condition through a valve controlled conduit for hair and scalp treatment.

The invention further embodies means in combination with air circulating devices of the foregoing character for removing dandruff and for similar scalp treatments.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists of the novel construction, combination and arrangement of parts to be hereinafter more fully described and then claimed.

In the accompanying drawings forming a part of this application and to which reference is had by like characters designating corresponding parts throughout the several views,

Figure 1 is a side elevational view of hair and scalp treating apparatus constructed in accordance with the present invention showing motor operated air circulating devices and a heater element in communication therewith;

Figure 2 is a top plan view showing the valve controlled connections between the air circulating devices and heater and the fluid outlet for the heater;

Figure 3 is a vertical longitudinal sectional

view of the motor operated air circulating devices showing a superposed sterilization receptacle;

Figure 4 is a schematic view showing the air circulating devices in communication with a cap or hood with the air entering the upper end of the hood and discharged from the lower end thereof, and

Figure 5 is a similar schematic view showing the air inlet at the lower end of the hood and the air discharge at the upper end.

Referring more in detail to the accompanying drawings, there is illustrated portable hair and scalp treating apparatus comprising a motor supporting frame 10 rotatably mounted upon the upper end of a standard 11 rising from a footed base frame 12 having casters to facilitate shifting movements of the apparatus.

An electric motor 13 is fixedly mounted in the frame 10 and has a conductor 14 in communication therewith, the conductor carrying a connector plug 15 for attachment to an electric socket from a source of potential. A manually operated switch 16 is set into the conductor 14.

As shown more clearly in Figure 3, a housing is secured to the upper end of the electric motor 13 and includes a lower fan casing 17 and an upper air chamber 18, the housing being secured as at 19 to the motor 13 while the fan casing and air chamber are separated by a partition wall 20. Diametrically opposite inlets 21 and 22 are provided in the air chamber 18 while a single outlet 23 is provided for the fan casing 17 below the inlet 21. A tubular valve 24 is rotatably mounted in the air chamber 18 and has a bottom disk wall 25 resting upon an annular pocket in the upper face of the partition wall 20, the bottom wall 25 and partition 20 being provided with registering openings 26 to form communication between the air chamber and fan casing. The closed side of the tubular valve 24 is preferably disposed adjacent the inlet 22 and the open side 27 of said valve places the inlet 21 in communication with the outlet 23 of the fan casing. An air impeller or fan wheel 28 is rotatably mounted

in the fan casing 17 and is fixed to the shaft of the electric motor 13. A sterilization receptacle 29 is carried by the upper end of the tubular valve 24 above the chamber 18 and is provided with a hinged cover 30, this receptacle being for the sterilization of tools and other devices used in the treatment of the hair and scalp.

A heater receptacle is associated with the air circulating devices for supplying heated air to said devices and for the separate delivery of heated oils or other fluids for scalp and hair treatments, the heater receptacle 31 as shown in Figures 1 and 2 being secured exteriorly to the air chamber 18 by the bracket 32 and containing electric resistance or heater units in communication with the conductor 14 by means of the conductor 33 having a control switch 34 set therein. The upper end of the heater casing 31 is provided with a filler opening for oils or other fluids used in hair and scalp treatments, the filler opening being closed by the screw plug 35.

The heater casing and housing have means associated therewith for heating the circulated air and for forcing heated fluid from the heater casing through a conduit or tube, such means including a pipe 36 forming communication between the upper side of the heater casing 31 and the upper side of the air inlet 21 of the air chamber 18, said pipe 36 having a manually operable valve 37 therein. Another pipe 38 forms communication between the upper side of the heater casing 31 and one side of the outlet 23 of the fan casing 17, this pipe 38 having a manually operable valve 39 set therein. An upwardly directed pipe 40 is in communication with the heater receptacle 31 at a point below normal liquid level therein, said pipe carrying a manually operated valve 41, while a flexible tube 42 attached to the outer end of the pipe 41 carries a spray nozzle 43 at its outer end.

When it is desired to use the apparatus for the treatment and removal of dandruff as well as scalp massage, a suction tube 44 has one end thereof engaged with the inlet 21 and the other end of the tube 44 carries a scalp tool 45 that may be of any character desired as well as being formed of any preferred materials, such as hard rubber or aluminum, the tool 45 being preferably provided with serrated edges or teeth for the effective removal of dandruff and dead skin from the scalp to be drawn through the tube 44 into the air chamber 18 and discharged by way of the valve openings under influence of the impeller 28 through the outlet 23 and into a filter bag 46 carried by the elbow 47 that is removably mounted in the outlet 23 as shown in Figure 1.

In treating the hair and scalp with heated air, the suction tube 44 and filter bag 46 are disengaged from the air circulating devices

and the elements shown in Figures 4 and 5 substituted therefor. As shown in Figure 4, the cap or hood 48 has a tube 49 connected to its upper end for the inlet of air, said tube 49 being in communication with the outlet 23 of the fan casing while a tube 50 extends between the lower end of the hood 48 and the inlet 21 of the air chamber, the air circulating through the hood 48 in a downward direction. When it is desired to heat the air being circulated through the hood 48, the valves 37 and 39 in the pipes 36 and 38 are opened, the switch 34 being operated for heating the casing 31, air drawn into the inlet 21 and flowing through the air chamber to the outlet 23 sucking heated air through the pipe 36 for discharge through the tube 49, a portion of the heated air at the outlet 23 being delivered by the pipe 38 to the heater casing 31 created by suction through the pipe 36. If desired, as shown in Figure 5, the tubes 49 and 50 may be reversed as indicated at 49^a and 50^a to cause the heated air to flow in an upward direction through the hood 48.

When it is desired to use the oil or fluid treatment, the inlet 21 is free of all attachments and the outlet 23 is closed by the butterfly valve 51 and operating handle 52, the valve 37 and pipe 36 closed, while the valves 39 and 41 in pipes 38 and 40 are opened, the air entering the inlet 21 being delivered by the pipe 38 to the upper end of the heater casing 31 for forcing the heated fluid therefrom and through the tube 42 to the spray nozzle 43.

A rack structure is provided for the conductor and suction tubes and as illustrated in Figure 1 comprises the cross arm having end sections 53 and 54, the arm 53 being for the support of the tube 42 while the outer end of the arm 54 is connected to a perpendicular rod 55 supported at its lower end on the footed frame and carrying a hook 36 intermediate its ends for the support of the conduit 15 and a hook 57 at its upper end for the support of the suction tube 44 or the hood devices.

From the above detailed description of the invention, it is believed that the construction and operation thereof will at once be apparent and while there are herein shown and described the preferred embodiments of the invention, it is to be understood that minor changes may be made therein, such as will fall within the scope of the invention as claimed.

I claim:

Hair and scalp treating apparatus comprising air circulating means including an inlet and an outlet, a motor for operating the air circulating means, a heater element adapted to be placed in communication with the air circulating means, an electric conduit from a source of energy in communication with the motor and heater element and separate switches controlling operation of the motor

and heater element, the heater element including a receptacle, a valve controlled pipe connection between the top wall of the heater receptacle and the air inlet for directing air
5 into the receptacle, a valve controlled pipe connection between the side of the heater receptacle adjacent the upper end and the air outlet, said heater element adapted to contain a fluid for hair and scalp treatment and
10 a spray nozzle in communication with the heater receptacle at a point adjacent the bottom thereof and below liquid level therein.

In testimony whereof I affix my signature.

15 PASQUALE ANASTASI.

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