March 1, 1932. N. MASCOLO 1,847,619

HAIR AND SCALP TREATING APPARATUS

Filed Jan. 5, 1928 2 Sheets-Sheet 1

Fig. 1.

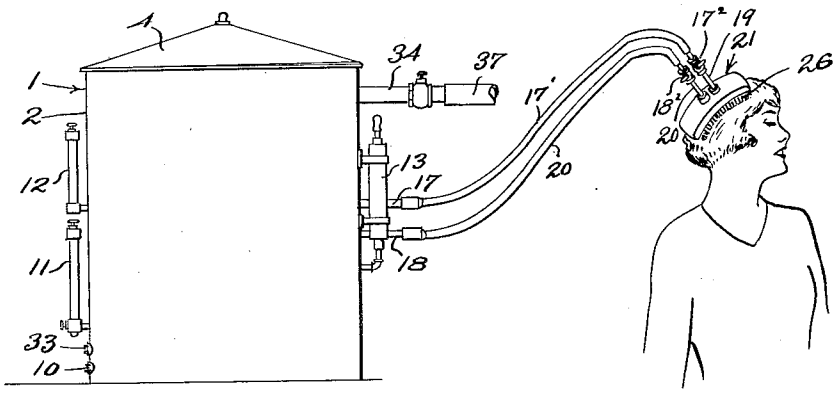
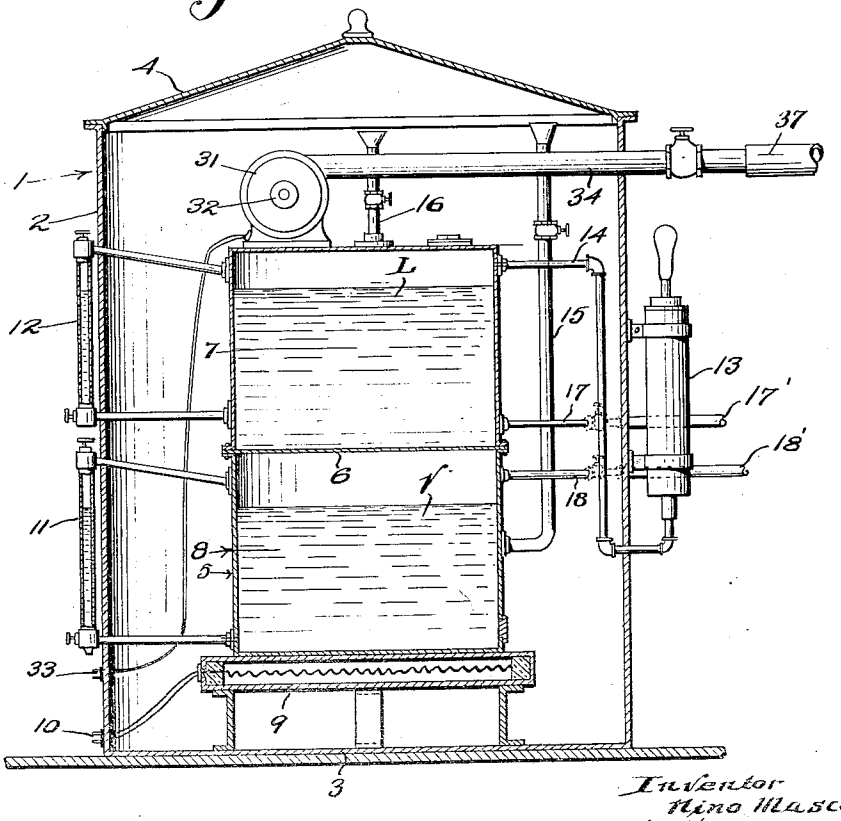


Fig. 2.



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Fig. 3.

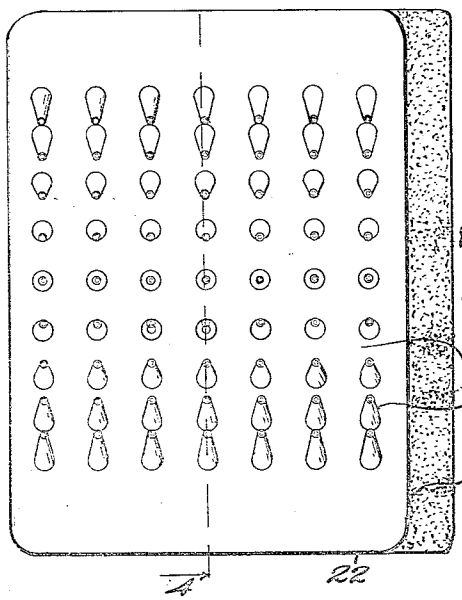


Fig. 4.

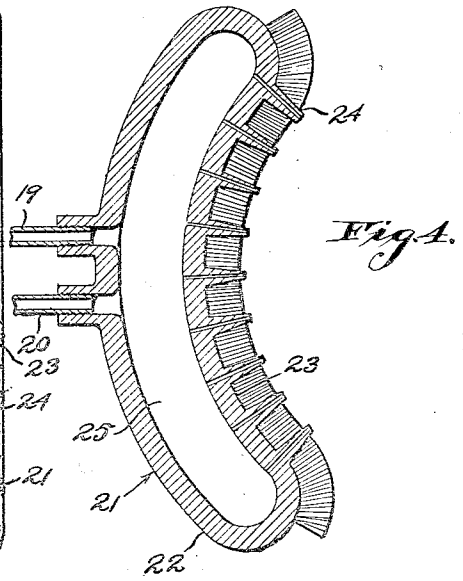


Fig. 6.

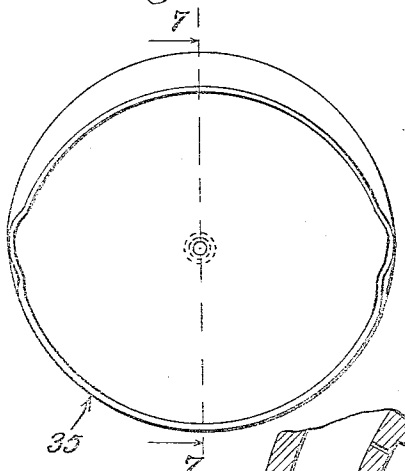
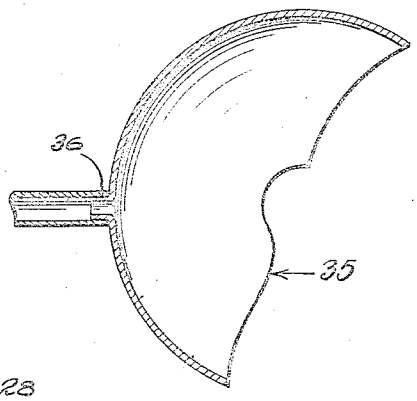


Fig. 7.



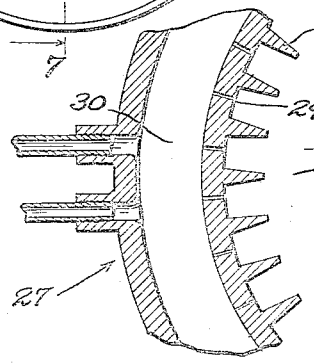


Fig. 5.

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UNITED STATES PATENT OFFICE

NINO MASCOLO, OF LOS ANGELES, CALIFORNIA

HAIR AND SCALP TREATING APPARATUS

Application filed January 5, 1928. Serial No. 244,632.

My invention relates to a hair and scalp treating apparatus.

It is an object of this invention to provide a simple and compact apparatus in which there is a vessel enclosed in the housing, said vessel being divided by a horizontal partition to form an upper and a lower chamber, one of which is used for generating a medicated vapor, and the other a medicated solution suitable for the treatment of the hair and scalp. Controllable means for heating the chambers are provided; also means for placing the liquid under pressure. Conduits lead from the chambers to the hair and scalp treating device provided with ports for applying the vapor and liquid to the hair and scalp.

Other objects will appear hereafter.

My invention consists of the construction and arrangement of parts hereinafter described and claimed.

In the accompanying drawings which form a part of the specification, I have illustrated a concrete embodiment of my invention, and in which

Figure 1 is an elevation of the apparatus showing its use in the treatment of the hair and scalp of a patron.

Figure 2 is a vertical central cross section of the apparatus shown in Figure 1, omitting the hair and scalp treating device.

Figure 3 is a front elevation of the hair and scalp treating device.

Figure 4 is a section taken on the line 4—4 of Figure 3.

Figure 5 is a fractional section of a view similar to Figure 4, showing a slightly modified form of the device.

Figure 6 is a front elevation of a hair drying device.

Figure 7 is a section on the line 7—7 of Figure 6.

Referring to the drawings, 1 represents a housing preferably cylindrical in shape, consisting of a side wall 2 and a bottom 3. It is covered by a removable lid 4. Centrally disposed within the housing 1 is a closed vessel indicated generally by the numeral 5, which is divided by a horizontal partition 6 into an upper liquid heating chamber 7 and a lower vapor generating chamber 8. An electric heater 9 of any preferred construction is disposed under the chamber 8 and is controlled by a switch 10 on the outside of the housing 1. 11 and 12 indicate gauges disposed on the outside of the housing 1 and connected to chambers 8 and 7 respectively, to indicate the volume of the liquid therein. A manually operated air pump 13 is disposed on the outside of the side wall 2, and communicates by means of a pipe 14 with the upper part of chamber 7. Valve controlled filling tubes 15 and 16 are connected to chambers 8 and 7 respectively, and access to the filling chambers 15 and 16 may be had by lifting the lid 4 off the housing 1. A conduit 17 leads from the lower part of chamber 7, and another conduit 18 leads from the upper part of chamber 8. Said conduits pass through the side wall 2 of the housing 1 and are connected to flexible tubes 17′ and 18′ respectively, the outer ends of which are connected respectively, to tubes 19 and 20 which are connected in turn, to the hair and scalp treating device indicated generally by the numeral 21. Any suitable device may be used, but I prefer to use the device shown in Figures 3 and 4. The same consists of an arcuate hollow body 22, the concave side 23 thereof being of a general contour to fit the shape of the head. The concave side 23 is provided with a plurality of conical nozzles 24 communicating with the chamber 25 of the device 21. A brush 26 may be attached to one end of the device 21.

In Figure 5 I have illustrated a slightly modified form of the device indicated by the numeral 27, which, in all respects, is like the device 21 with the exception that in place of hollow nozzles 24, finger-like projections 28 are provided on the concave side thereof; and outlet ports 29 communicating with the hollow space 30 are disposed between the projections 28.

The operation is as follows:

Chamber 8 is filled with a medicated solution V, suitable to generate a vapor for the treatment of the scalp and hair through the filling tube 14; care being taken to not entirely fill the chamber 8, but to leave a vapor space above the liquid L. Chamber 7

is filled with a medicated liquid L through the filling pipe 16. The electric heater 9 is set in operation, which will generate vapor in chamber 8. The vapor will heat the liquid L in the chamber 7 immediately above, to a somewhat lower temperature. The liquid L is placed under pressure by the operation of the hand air pump 13 and by means of conduits 17 and 18 and the flexible conduits 17′ and 18′ are conveyed to the chamber 25 of the hair and scalp treating device 21. The vapor in chamber 8 and the liquid L in chamber 7, may be alternately used as desired in the device 21. Valves 17^2 and 18^2 are provided in flexible conduits 17′ and 18′ respectively, to control the admission of the liquid or the vapor to the device 21. The fluid from the outer chamber passes through the nozzles 24 to the hair and scalp. The brush 26 may be used in connection with the device 21, the operator manipulating the device 21 by holding the tubes 19 and 20 and moving the device over the hair and scalp.

After the treatment described, I dry the hair and scalp by means of a dryer which is provided as follows:

A blower 31 operated by means of a built-in motor 32 which is controlled by a switch 33 in the side wall 2 of the housing, forces the air through the valve controlled conduit 34 to a drying cap 35 shown in Figures 6 and 7. The drying cap 35 consists of a metal shell conforming to the shape of a head, and is provided with a nipple 36 to which a flexible conduit 37 leading from the conduit 34, is attached.

Various changes may be made in the construction and arrangement of parts by those skilled in the art, without departing from the spirit of the invention as claimed.

I claim:

1. A hair and scalp treating apparatus comprising a housing, a movable lid therefor, a closed vessel within said housing, a horizontal partition in said vessel dividing the same into a lower vapor generating chamber and an upper liquid heating chamber, means for heating the lower chamber, an air pump connected to the upper end of said upper chamber, a valve controlled filling pipe for each of said chambers and disposed within the housing, valve controlled conduits leading from said chambers, the valve controlled conduit for the lower chamber leading from adjacent the top thereof so as to be above the liquid level therein and the valve controlled conduit for the upper chamber leading from adjacent the bottom thereof so as to be below the liquid level therein, and a scalp and hair treating device connected to both of said conduits.

2. A hair and scalp treating apparatus comprising a housing, a movable lid therefor, a closed vessel within said housing, a horizontal partition in said vessel dividing the same into a lower vapor generating chamber and an upper heating chamber, means for heating the lower chamber, an air pump connected to the upper end of said upper chamber, a valve controlled conduit leading from adjacent the top of one of said chambers so as to be above the liquid level therein, a second valve controlled conduit leading from adjacent the bottom of the other chamber so as to be below the liquid level therein, and a scalp and hair treating device connected to both of said conduits.

3. A hair and scalp treating apparatus comprising a housing, a closed vessel within said housing, a partition in said vessel dividing the same into a vapor generating chamber and a liquid heating chamber, means for heating the vapor generating chamber, means for placing the liquid heating chamber under pressure, a valve controlled conduit leading from adjacent the top of one chamber so as to be above the liquid level therein, a second valve controlled conduit leading from adjacent the bottom of the other chamber so as to be below the liquid level therein, and a scalp and hair treating device connected to both of said conduits.

4. A hair and scalp treating apparatus comprising a closed vessel, a partition in said vessel dividing the same into a vapor generating chamber and a liquid heating chamber, means for heating both chambers, means for placing the liquid heating chamber under pressure, a valve controlled conduit leading from adjacent the bottom of the liquid heating chamber so as to be below the liquid level therein, a second valve controlled conduit leading from the top of the vapor generating chamber so as to be above the liquid level therein, and a scalp and hair treating device connected to both conduits.

5. A hair and scalp treating apparatus comprising a closed vessel, a partition dividing the same into a generating chamber and a liquid heating chamber, means for heating the vapor generating chamber, a valve controlled conduit leading from adjacent the top of the vapor generating chamber so as to be above the liquid level therein, a second valve controlled conduit leading from adjacent the bottom of the liquid heating chamber so as to be below the liquid level therein, and a scalp and hair treating device connected to both of said conduits.

6. A hair and scalp treating apparatus comprising a closed vessel, a partition dividing the same into a vapor generating chamber and a liquid heating chamber, means for heating the vapor generating chamber, a valve controlled conduit leading from adjacent the top of the vapor generating chamber so as to be above the liquid level therein, a second valve controlled conduit leading from adjacent the bottom of the liquid heating chamber so as to be below the liquid level therein,

and a scalp and hair treating device connected to both of said conduits, said device including an arcuate hollow body adapted to fit the head and provided with outlet ports on its concave side.

7. A hair and scalp treating apparatus comprising a closed vessel, a partition dividing the same into a vapor generating chamber and a liquid heating chamber, means for heating the vapor generating chamber, a valve controlled conduit leading from the vapor generating chamber adjacent the top thereof so as to be above the liquid level therein, a second valve controlled conduit leading from the liquid heating chamber adjacent the bottom thereof so as to be below the liquid level therein, and a scalp and hair treating device connected to both of said conduits, said device including an arcuate hollow body shaped to fit the head and provided with finger shaped nozzles projecting from the concave side of the body.

8. A hair and scalp treating device comprising two chambers, means for heating the contents of both chambers, and an applicator connected to one chamber adjacent its top so as to be above the liquid level therein and to the other chamber adjacent its bottom so as to be below the liquid level therein so as to be capable of simultaneously discharging vapor from one chamber and liquid from the other chamber.

9. A hair and scalp treating device comprising two chambers, means for heating both chambers, there being an outlet from each chamber, the outlet from one chamber being arranged near the bottom thereof so that liquid may be withdrawn therefrom, the outlet from the other chamber being arranged near the top thereof so that only a vapor will be withdrawn therefrom, and an applicator connected to both outlets so that vapor and liquid may be simultaneously or selectively discharged through the applicator.

10. A heating construction for hair and scalp treating devices comprising means providing two chambers one arranged above the other, the lower chamber being adapted to be partially filled with liquid and the upper chamber being adapted to contain liquid, a heater arranged to heat the contents of the lower chamber, and an outlet from the lower chamber arranged near the top thereof so that only vapor will be withdrawn therefrom, the upper chamber having an outlet arranged near the bottom thereof so that only liquid will be withdrawn therefrom.

11. A heating construction for hair and scalp treating devices comprising means providing two chambers one arranged above the other, the lower chamber being adapted to be partially filled with liquid and the upper chamber being adapted to contain liquid, a heater arranged to heat the contents of the lower chamber, an outlet from the lower chamber arranged near the top thereof so that only vapor will be withdrawn therefrom, the upper chamber having an outlet arranged near the bottom thereof so that only liquid will be withdrawn therefrom, and means for supplying the upper chamber with fluid under pressure so as to maintain the contents of the upper chamber under pressure.

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

NINO MASCOLO.