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HAIR DRIER

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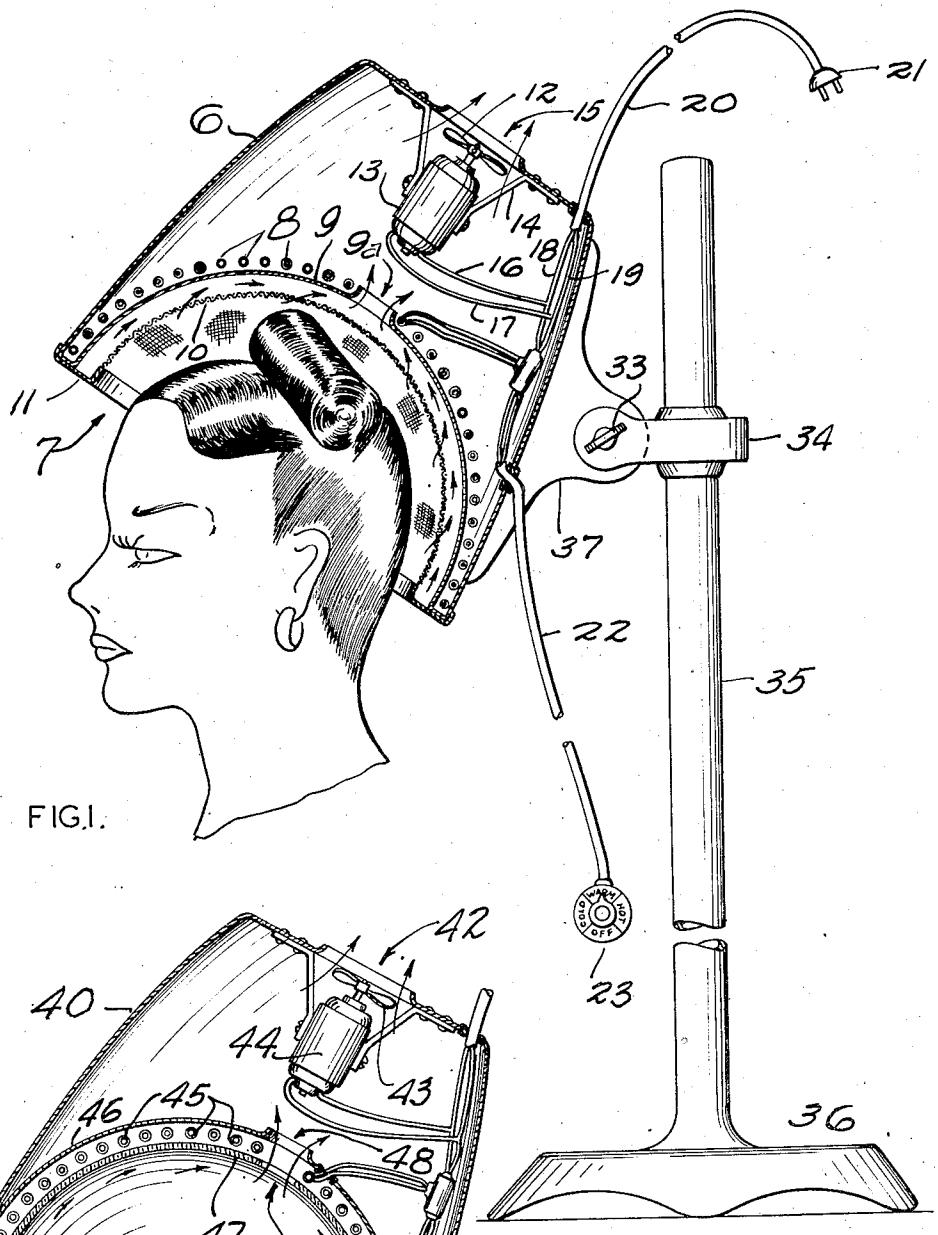


FIG.1.

FIG.2.

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HAIR DRIER

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2 Claims. (Cl. 34—99)

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The invention relates to hair drying apparatus and has as an object to utilize a radiant source of heat to dry the hair more rapidly and with less power consumption than driers utilizing a blast of hot air.

A more specific object is to dry the hair without discomfort to the person whose hair is being dried. The apparatus operates silently and does not raise the temperature of the room appreciably; the user is protected against burning of the hair, the wave set is not disturbed, and a gentle current of unheated air flows about the neck and head having a cooling and comforting effect upon the user.

These and other detail objects are attained by the structure described below and shown in the drawings, in which:

Figure 1 includes a vertical longitudinal sectional view of a hair drier constructed according to the invention, and also shows in elevation supporting structure and the head of a user.

Figure 2 is a vertical longitudinal sectional view of another embodiment of the invention.

The hair drier, shown in Figure 1, comprises a hood 6 substantially circular in cross-section having an open end 7 adapted to receive the head of a person whose hair is to be dried. An electric heating element 8 is arranged to heat a substantially semi-spherical radiator 9 positioned near open end 7 of hood 6. To protect the user against burns, a wire screen 10 is positioned between open end 7 of hood 6 and radiator 9. Electric heating element 8, radiator 9 and wire screen 10 are attached to hood 6 by a ring 11 at open end 7. Radiator 9 has an opening 9a positioned substantially centrally thereof. A relatively small fan 12 positioned adjacent a vent 15 in the end of hood 6 remote from open end 7 is driven by a motor 13 mounted on brackets 14 attached to hood 6. Fan 12 provides a gentle flow of unheated air upwardly about the neck and head of the user into open end 7 of hood 6, through opening 9a in radiator 9, and out through vent 15.

Motor 13 is connected by leads 16 and 17 to wires 18 and 19, respectively, of a cord 20 provided with a plug 21 for attachment to an electrical outlet. One end of heating element 8 is connected to wire 18 of cord 20 and the other end is connected to one end of a wire 22 having a rheostat 23 interposed between its ends, the other end of wire 22 being connected to wire 19 of cord 20. Rheostat 23 controls the temperature of heating element 8.

A support bracket 37 on hood 6 is mounted pivotally by a screw 33 to a bracket 34 slidable longitudinally on an upright 35 on a base 36.

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Hood 6 is adjustable to any convenient height and angular position on upright 35 and is locked in adjusted position by screw 33.

The hair drier is used and operates as follows: Hood 6 is adjusted to suitable position on upright 35 so that it fits over the head of the person whose hair is being dried when she is sitting in a comfortable position. Electrical heating element 8 heats radiator 9 which dries the hair by radiant heat. Screen 10 prevents the hair of head of the user from contacting radiating surface 9 and protects her from burns. The user may vary the temperature of radiator surface 9 by control 23. Fan 12 provides a gentle comforting flow of air about the neck and head of the user. At the time this air first strikes the user, it has not been heated by the drier nor has its moisture content been increased by absorption from the user's hair as would be the case in recirculating driers.

The hair drier shown in Figure 2 includes a hood 40 having one end 41 open and a vent 42 in the opposite end, with an exhaust fan 43 positioned adjacent vent 42 and driven by a motor 44, similar to the embodiment of Figure 1. However, the heat radiating source differs from that of Figure 1 and includes an electrical heating element 45 positioned between a reflector 46 and a cup shaped member 47 preferably of glass. Passages 48 and 49 are provided in reflector 46 and member 47, respectively, substantially centrally thereof, so that fan 43 provides a gentle current of unheated and unsaturated air flowing upwardly about the head and neck of the user into the open end 41 of the hood through passages 49 and 48, and out through vent 42. Heating element 45, reflector 46 and member 47 are attached to hood 40 by a ring 50 at open end 41. Electrical connections between a power source and motor 44 and heating element 45 are similar to those shown in Figure 1. The hair is dried by radiation, direct and reflected, from heating element 45. Member 47 prevents the hair or head of the user from contacting heater 45 and protects the user from burns.

The hair drying apparatus described herein, by utilizing a radiant source of heat, dries the hair more rapidly and with less power consumption than driers utilizing a blast of hot air driven by a relatively large high speed fan, and the wave set is not disturbed while the hair is drying, and the ambient temperature of the room is not raised appreciably because of the small volume of air passing through the hood, since the noise of a heavy motor and the roar of a large quantity

fan is eliminated and the apparatus operates silently. Also, the user's hair is protected from burning.

The person whose hair is being dried may sit in a comfortable position under the drier while a gentle current of unheated air flows about the neck and head, having a cooling and comforting effect. The current of air carries water vapor created in the hood by evaporation of moisture of the hair out of the hood through the vent therein, but, after being charged with water vapor, does not pass over the user's head.

In driers employing radiation from an incandenscent surface, the temperature of the hair upon completion of the drying operation tends to approach assymptotically the temperature of the radiating surface, whereas in the invention the temperature of the hair upon completion of drying can only approach the temperature of the non-incandescent surface between the heater and the user, thereby eliminating the possibility of overheating the hair and scalp.

The details of construction may be varied substantially without departing from the spirit of the invention and the exclusive use of such modifications as come within the scope of the claims is contemplated.

What is claimed is

1. In a hair drying apparatus, a hood having an open end to be positioned over the head of a person whose hair is to be dried, a vent spaced from said open end, a substantially semi-spherical source of radiant heat near the open end of said hood, a substantially semi-spherical reflector closely associated with said source to diffuse heat throughout the hood, a substantially semi-spherical guard positioned within said reflector, means to cause a flow of unheated air into the open end of said hood and towards said vent, there being passages through said reflector, said source and said guard to permit air to flow therethrough from said open end to said vent.

2. In a hair drying apparatus, a hood having an open end to receive the head of a person whose hair is to be dried, a vent spaced from said open end, a substantially bowl-shaped source of radiant heat opening towards said hood open end and positioned between the same and said vent and corresponding in diameter generally to the diameter of a human head, a similarly shaped shell substantially nested within said source to diffuse heat throughout the hood between said source and said open end, a guard substantially nested within said shell to prevent contact of the hair of the user with said shell, there being airways through said source, shell, and guard, and a fan directed to cause a flow of unheated air into the open end of said hood through said airways and towards said vent.

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