Oct. 8, 1935. F. J. VERDI 2,016,915

HAIR DRIER

Filed Jan. 2, 1935

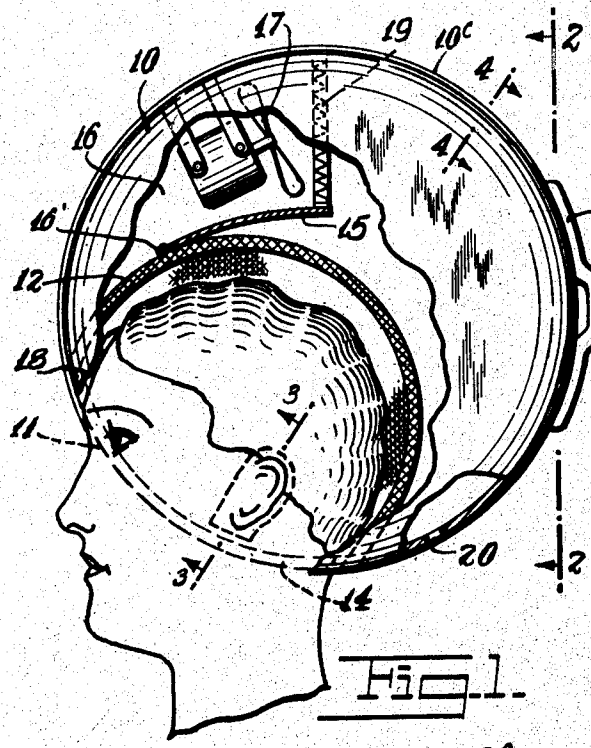


Fig. 1.

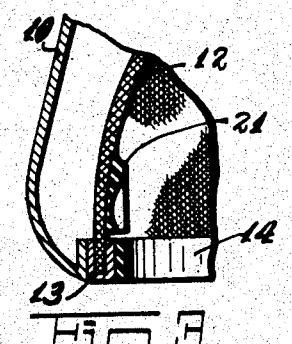


Fig. 8.

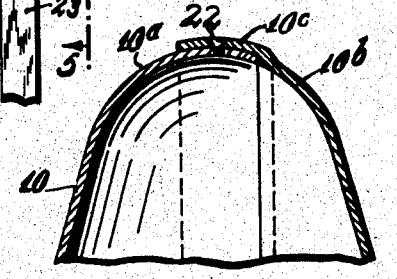


Fig. 4.

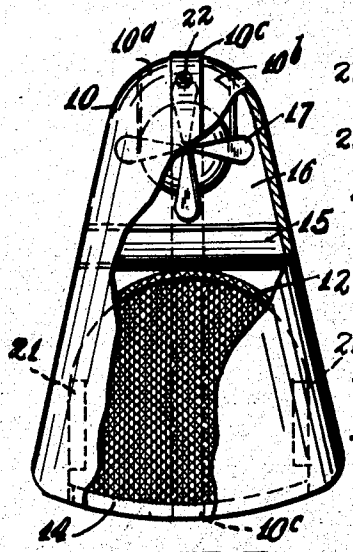


Fig. 2.

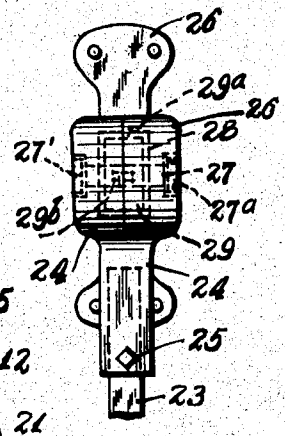


Fig. 5.

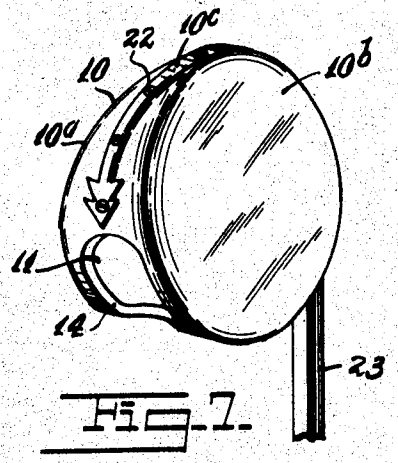


Fig. 7.

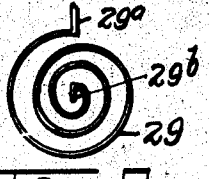


Fig. 6.

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HAIR DRIER

Fred J. Verdi, Jackson Heights, N. Y.

Application January 2, 1935, Serial No. 2

4 Claims. (Cl. 34—26)

This invention relates to new and useful improvements in a hair drying device.

The invention has for an object the construction of a hair drying device which is characterized by a shell with an opening through which the head of a person using the device may be inserted, a hemispherical screen within the shell for encasing one's hair and having its edges extending around the edges of the opening, and mechanism for directing heated air within the shell and around the head.

The invention has for a further object a novel method of supporting the shell so that it may be pivoted to various positions for the convenience of the user of the device.

Still further the invention contemplates a construction wherein the pivotal supporting of the shell is supplemented with a resilient action.

A further object of the invention is the provision of ear protectors within the hemispherical screen located so as to protect the ears from the heat of the device.

Another object of the invention is the construction of a device as mentioned which is simple and durable and which can be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a side elevational view of a device constructed according to this invention, portions thereof being broken away to illustrate interior parts.

Fig. 2 is an elevational view looking in the direction of the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary enlarged sectional view taken on the line 3—3 of Fig. 1.

Fig. 4 is a fragmentary sectional view taken on the line 4—4 of Fig. 1.

Fig. 5 is a fragmentary elevational view looking in the direction of the line 5—5 of Fig. 1.

Fig. 6 is a side elevational view of the spring shown in Fig. 5.

Fig. 7 is a perspective view of the device.

The hair drying device, according to this invention, comprises a shell 10 with an opening 11 through which the head may be inserted. A hemispherical screen 12 is mounted within the shell for engaging one's hair and has its edges extending around the edges of the opening 11. The edge of the screen 12 is finished with metallic binding material 13. A resilient strip of material 14, such as rubber, is attached along the edge of the binding material 13 to protect one's face and head from direct contact with the metallic parts when the device is in use.

A baffle plate 15 is arranged transversely in the shell 10 and divides off a tubular portion 16 located immediately above the screen 12. This baffle extends from an area 16' above the head and in intimate contact with the screen 12 rearwards and upwards substantially parallel with the outer contour of the shell 10. The shell, is of circular form in side elevational view and of inverted trapezoidal form in edge view. The bottom side of the casing 10 is curved downwards, and the top side is curved upwards as clearly shown in Fig. 2.

A motor driven fan 17 is mounted within the tubular portion 16 and is adapted to draw in air through a front opening 18 in the shell and is arranged immediately above the forehead. The motor driven fan 17 is capable of forcing this air through a heater 19, preferably electrical, mounted transversely across the end of the tubular passage 16. The arrangement is such that cool atmospheric air is caused to pass across the forehead of the user of the device, in its travel into the shell, and when heated, caused to come in intimate contact with the hair to aid in quickly drying the hair. The air may discharge through openings 20 formed in the bottom of the shell immediately to the back of the head.

On diametrically opposite sides of the screen 12 ear protector pieces 21 are illustrated. These pieces may be directly mounted upon the screen, which is inherently bendable and resilient, so that they may be engaged over the ears of a person and protect the ears from the heated air.

The ear protector pieces 21 may be of any desired shape and size and may also be removed.

The shell 10 is composed of two shell sections 10^a and 10^b secured together with screws 21. These screws have their heads sunk into a flange portion 22 of the shell section 10^b and threadedly engage into the shell sections 10^a. The edges of the shell sections overlap, as shown in Fig. 4, so as to interengage and securely hold the parts together. The shell section 10^b is in the form of a cover, while shell section 10^a in the form of a body. The operative parts of the device are mounted within the shell section 10^a; to wit, the screen 12, the baffle 15, the motor driven fan 17, and the heating coil 19. The

arrangement is such that the shell cover 10b may be removed to expose the interior parts which are fixed upon the shell section 10a.

The hair drying device is provided with a support adapted to be adjusted to various heights and adapted to hold the shell at various inclined positions for the convenience of a user of the device. More particularly, there is a vertical support rod 23 which has its upper end adjustably engaging into an opening in a bracket 24. A set screw 25, mounted through the bracket, a second bracket 26 is mounted upon the rear side of the shell section 10a. The brackets 24 and 26 are pivotally connected by a screw 27. This screw has a square head 27' engaged in a corresponding opening in the side of the bracket 24 so as to be non-rotatively connected with said latter-mentioned bracket. The outer end of the screw 27 is equipped with a nut 27a holding the brackets together. The brackets pivotally engage upon the screw. Each of the brackets are formed with an interior cavity 28 in which a spiral spring 29 is mounted. The outer end 29a of the spiral spring connects with the bracket 26 and the inner end 29b connects with the screw 27. The construction is such that the spring 29 resiliently holds the shell 10 in a neutral raised position. The shell may be manually forced down and engaged over one's head when desired.

This arrangement will provide cool air at the forehead, heated air at the back of the head to quickly dry the hair and a lower heat at the sides of the head to keep the face and ears comfortable.

While I have illustrated and described the preferred embodiment of my invention it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

1. A hair drying device, comprising a shell with an opening through which the head of a person using the device may be inserted, a hemispherical screen within the shell for engaging one's hair and having its edges extending around the edges of said opening, a baffle at the top of said screen and spaced in from the front edge thereof and transversely in said shell for dividing off a tubular portion above the head whereby cool air is admitted to the front end of said tubular portion, and a motor driven fan and heater within said tubular portion the fan reducing the pressure in the front part of the casing over the part of the screen between the front wall of the casing and the baffle.

2. A hair drying device, comprising a shell with an opening through which the head of a person using the device may be inserted, a hemispherical screen within the shell for engaging one's hair and having its edges extending around the edges of said opening, a baffle at the top of said screen and spaced in from the front edge thereof and transversely in said shell from side to side for dividing off a tubular portion above the head whereby cool air is admitted to the front end of said tubular portion, and a motor driven fan and heater within said tubular portion, the fan reducing the pressure in the front part of the casing over the part of the screen between the front wall of the casing and the baffle, said shell being circular in side elevation, and of inverted trapezoidal shape in edge elevation so that the air leaving the tubular portion is capable of expanding.

3. A hair drying device, comprising a shell with an opening through which the head of a person using the device may be inserted, a hemispherical screen within the shell for engaging one's hair and having its edges extending around the edges of said opening, a baffle at the top of said screen and spaced in from the front edge thereof and transversely in said shell for dividing off a tubular portion above the head whereby cool air is admitted to the front end of said tubular portion, and a motor driven fan and heater within said tubular portion the fan reducing the pressure in the front part of the casing over the part of the screen between the front wall of the casing and the baffle, said baffle extends from an area slightly above the forehead and on the screen and upwards and backwards.

4. A hair drying device, comprising a shell with an opening through which the head of a person using the device may be inserted, a hemispherical screen within the shell for engaging one's hair and having its edges extending around the edges of said opening, a baffle at the top of said screen and spaced in from the front edge thereof and transversely in said shell for dividing off a tubular portion above the head whereby cool air is admitted to the front end of said tubular portion, and a motor driven fan and heater within said tubular portion the fan reducing the pressure in the front part of the casing over the part of the screen between the front wall of the casing and the baffle, said baffle extends from an area slightly above the forehead and on the screen and upwards and backwards, and said shell being formed with an air inlet passage for said tubular portion in the vicinity of the forehead of a user of the device.

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