Dec. 24, 1940. O. L. LA RUE 2,225,873

FACE PROTECTOR

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Fig. 1.

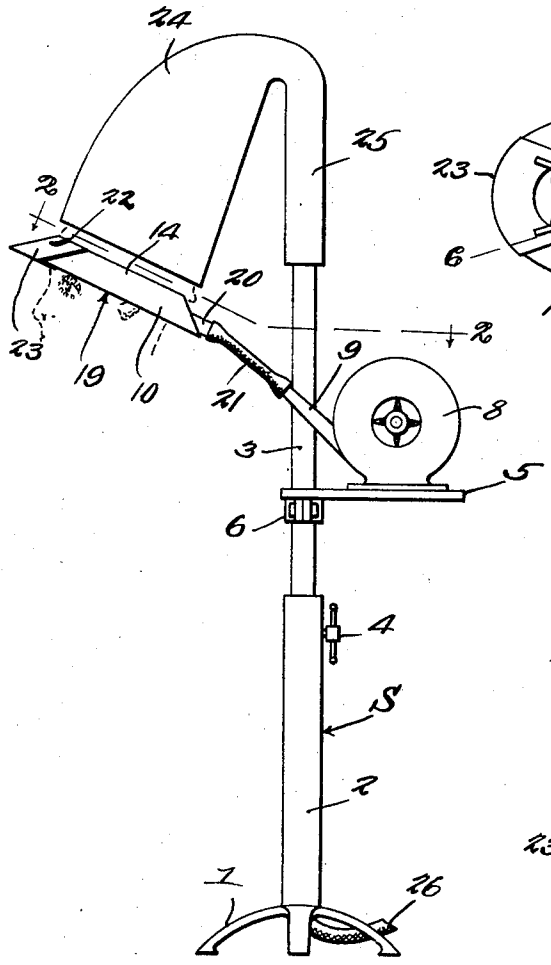


Fig. 2.

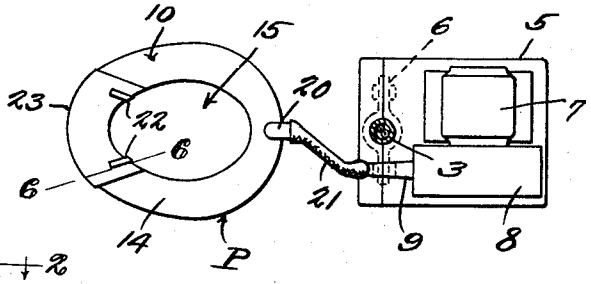


Fig. 6.

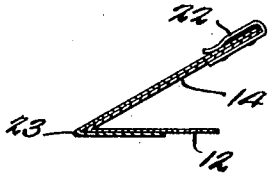
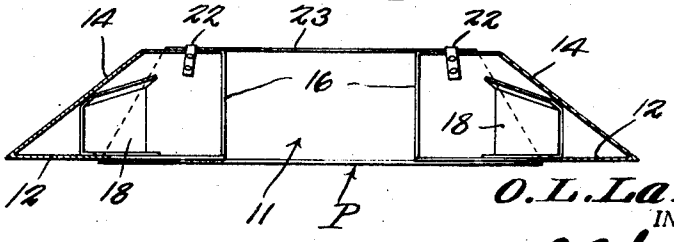


Fig. 5.



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Fig. 3.

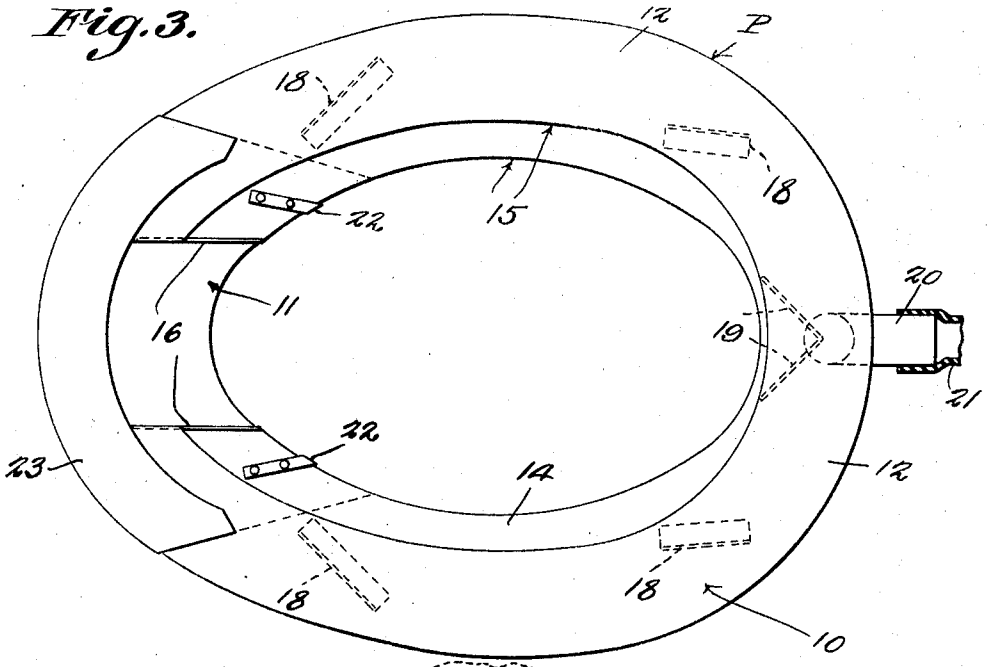
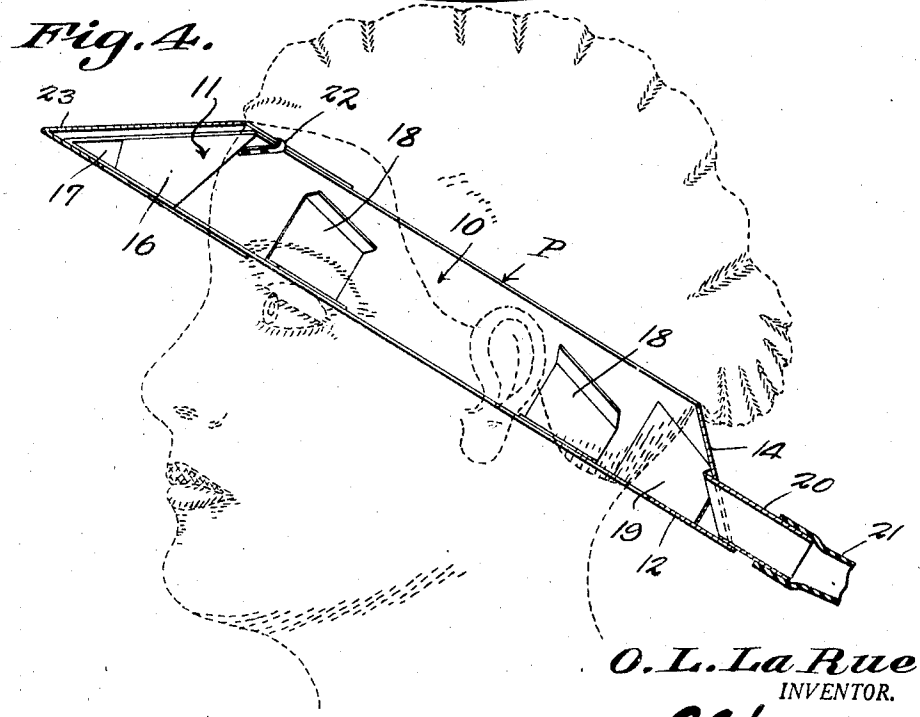


Fig. 4.



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FACE PROTECTOR

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Application September 7, 1939, Serial No. 293,836

4 Claims. (Cl. 132—9)

This invention aims to provide a device for protecting and keeping cool, a person's face, whilst the hair of the head is being subjected to any of the heat treatments well known to hairdressers.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings:

Fig. 1 shows in side elevation, a protector constructed in accordance with the invention, assembled with the parts wherewith it coacts;

Fig. 2 is a section on the line 2—2 of Fig. 1;

Fig. 3 is a bottom plan of the protector;

Fig. 4 is a longitudinal section of the protector;

Fig. 5 is a cross section of the protector;

Fig. 6 is a fragmental section on the line 6—6 of Fig. 2.

In carrying out the invention, there is provided a support S, including a foot 1, to which is secured a vertical, tubular, lower pedestal section 2, into which a similar upper section 3 is telescoped for vertical adjustment, the section 3 being held at varied heights by a set screw 4, threaded into the lower pedestal section 2.

A horizontal support or shelf 5 is provided, and is held on the pedestal section 3, for vertical adjustment, through the instrumentality of a clamp 6. An electric motor 7 is secured to the support 5 and drives a blower 8, also secured to the shelf or support, the blower having an upwardly inclined discharge neck 9.

A protector P is provided, and is made of any material that will not transmit heat readily. Figure 2 shows that the protector P includes a body 10, having an opening 11 at the front, as shown in Fig. 3. The body 10 of the protector P includes a base 12 and an upwardly and inwardly inclined rim 14, having its lower edge connected to the periphery of the base, the parts 12 and 14 being arranged at an acute angle to each other. The body 10 of the protector has slight flexibility, so that it can be placed readily around the head of a wearer, the body having an opening 15 which is large enough to accommodate the head of the wearer. The reason for having two lead lines to the opening 15 in Fig. 3, is that at this point the applicant is discussing the body 10, considered as a whole, one of the lead lines in Fig. 3 designating the "top" of the opening and the other of the lead lines designating the "bottom" of the opening.

The body 10 of the protector P is reenforced, on each side of the opening 11, by end walls 16, which connect the base 12 with the rim 14, as shown in Fig. 4 wherein it is shown that the end walls extend unbrokenly between the base and the rim. The end walls 16 (Fig. 4) terminate short of the forward angle of the body 10, to form openings 17 within the protector, at the forward part thereof. Inclined baffles 18 connect the base 12 and the rim 14 of the body 10 of the protector, at the sides thereof, as shown in Fig. 4. The baffles 18 are not so high as the body 10, and the rim 14 has an outward and downward slant. These circumstances, however, do not indicate that the baffles 18 lie free from the rim. It is shown in Fig. 4 that the baffles 18 have angularly disposed feet 18a. It is through the instrumentality of the feet 18a that the baffles 18 are secured to the rim 14 and the base 12. The constituent material of the baffles has been set forth hereinbefore, in that they form part of the body, designated as a whole by the numeral 10, the physical characteristics of the body having been stated. A spreader 19, which is V-shaped in top plan, connects the base 12 and the rim 14 of the protector body, at the back end of the body. An inlet tube 20 is secured to the rim 14, at the back part of the protector P and the axis of the inlet tube 20 coincides with the angle of the spreader 19. A flexible conduit 21, of any desired length, joins the inlet tube 20 to the discharge neck 9 of the blower 8.

U-shaped clips 22 are secured to the rim 14 of the body 10, on opposite sides of the opening 11, and overlie the outer surface of the rim, as Fig. 6 shows. The opening 11 is bridged by a closure 23 which is V-shaped in cross section. The closure 23 is held in place, detachably, since its upper wall, corresponding to the part 14 of the body 10 of the protector, is engaged by the clips 22.

The numeral 24 marks a heater or dryer of well known construction, disposed above the protector P. The heater or dryer 24 has a neck 25, mounted on the upper end of the pedestal section 3. Various means may be employed for

raising the temperature of the heater or dryer **24**. In some constructions, a heating conduit **26**, extended upwardly through the pedestal **2—3**, is employed for the purpose mentioned.

The blower **8**, actuated by the motor **7**, forces cold air through the neck **9**, the conduit **21** and the tube **20**, into the back part of the protector P. As the blast of cold air leaves the tube **20**, the blast is split, by the V-shaped spreader **19**, and is caused to travel forwardly, within the protector P, and at both sides thereof. Baffles **18** direct the cold air downwardly about the face of the wearer. It may here be noted, referring to Fig. 3, that the opening **15** through the protector is larger at the bottom than at the top. Consequently, although the rim **14** is engaged somewhat closely about the wearer's head, the base **12** is spaced from the head and there is ample downward outlet for air.

The air travels forwardly, and can circulate through the closure **23**, because there is an opening at **17** (Fig. 4) between the end walls **16** of the body **10** and the adjacent part of the closure **23**. Since the rim **14** of the protector P, and the corresponding part of the closure **23** slant downwardly and outwardly, heat from the heater **24** is carried outwardly and laterally, outside of the cold air which moves downwardly through the base **12** of the protector P.

The device is simple in construction and easy to operate. It will function efficiently to protect the face of a person whose hair is being heat-treated.

Having thus described the invention, what is claimed is:

1. In a device for use with a hair-heater, to protect the human face from heat, a hollow protector comprising a downwardly and outwardly inclined rim, and an inwardly extended base, the protector being open at its inner side, the upper edge of the rim forming an upper opening receiving the human head closely, the inner edge of the base forming a lower, head-receiving opening, and means for forcing air into the protector, between the base and the rim: there being an annular, downwardly discharging air outlet between the inner edge of the base and the head of the wearer, the width of the rim considered relatively to the width of the base, the aforesaid inclination of the rim, and the relative sizes of the upper and lower openings all being such as to provide the aforesaid outlet.

2. A device for use with a hair-heater, to protect the human face from heat, constructed as set forth in claim 1, the protector having an air inlet communicating with said means, and an approximately V-shaped spreader located between the rim and the base, closely adjacent to the inlet, the spreader having its apex disposed toward the inlet, to direct air in opposite directions, around and between the rim and the base, for exit through the air outlet.

3. A device for use with a hair-heater, to protect the human face from heat, constructed in accordance with claim 1, the protector having an air inlet at the back, communicating with said means, an approximately V-shaped spreader located between the rim and the base, closely adjacent to the inlet, the spreader having its apex disposed toward the inlet, to direct air in opposite directions, around and within the protector, for exit through the air outlet, and baffles located between the rim and the base, at the sides thereof, the baffles having an inward inclination, toward the edge of the lower opening.

4. In a device for use with a hair-heater, to protect the human face from heat, a hollow protector including a roughly U-shaped body and a closure constituting a detachable bridge for the ends of the body, the body comprising a downwardly and outwardly inclined rim, and an inwardly extended base, the protector being open at its inner side, the upper edge of the rim forming an upper opening receiving the human head closely, the inner edge of the base forming a lower, head-receiving opening, the body having an air inlet at the back, means for forcing air through the inlet and into the protector, between the base and the rim: there being an annular, downwardly-discharging air outlet between the inner edge of the base and the head of the wearer, the width of the rim considered relatively to the width of the base, the aforesaid inclination of the rim, and the relative sizes of the upper and lower openings all being such as to provide the aforesaid outlet, an approximately V-shaped spreader located between the rim and the base, closely adjacent to the inlet, the spreader having its apex disposed toward the inlet, to direct air in opposite directions, around and within the protector, for exit through the air outlet, and baffles located between the rim and the base, at the sides thereof, the baffles having an inward inclination, toward the edge of the lower opening, the outer ends of the baffles being spaced from the rim, whereby air can move circumferentially of the protector, at the outer edge thereof, between the base and the rim.

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