

Jan. 19, 1932.

L. ZAINFELD

1,842,001

HAIR DRYING DEVICE

Filed June 26, 1931

2 Sheets-Sheet 1

Fig. 1.

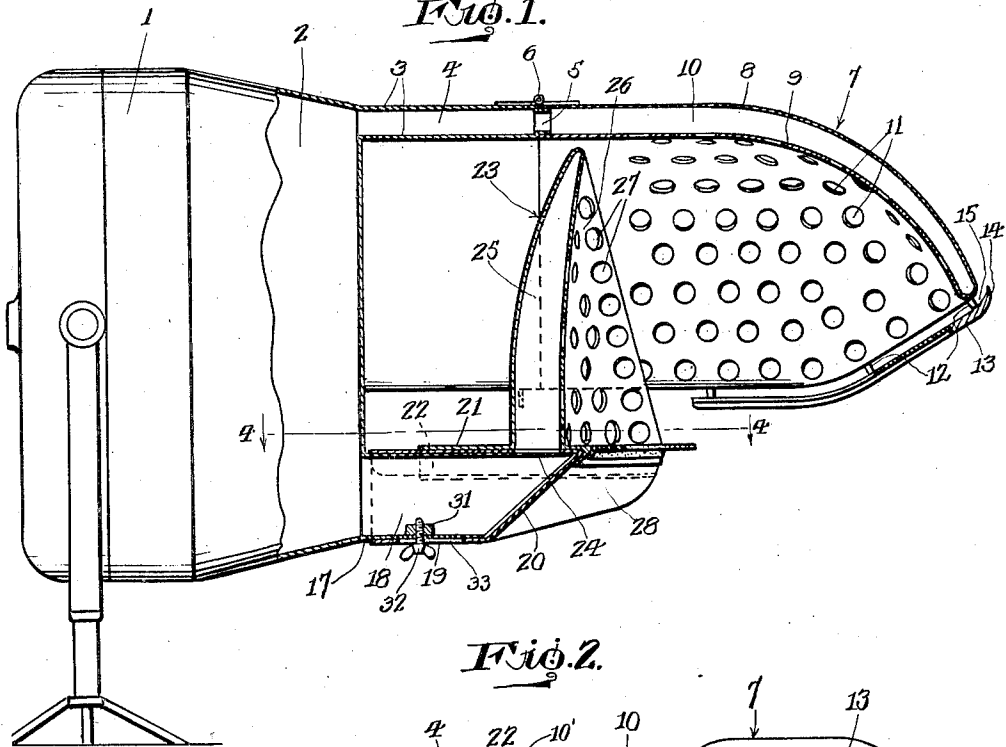
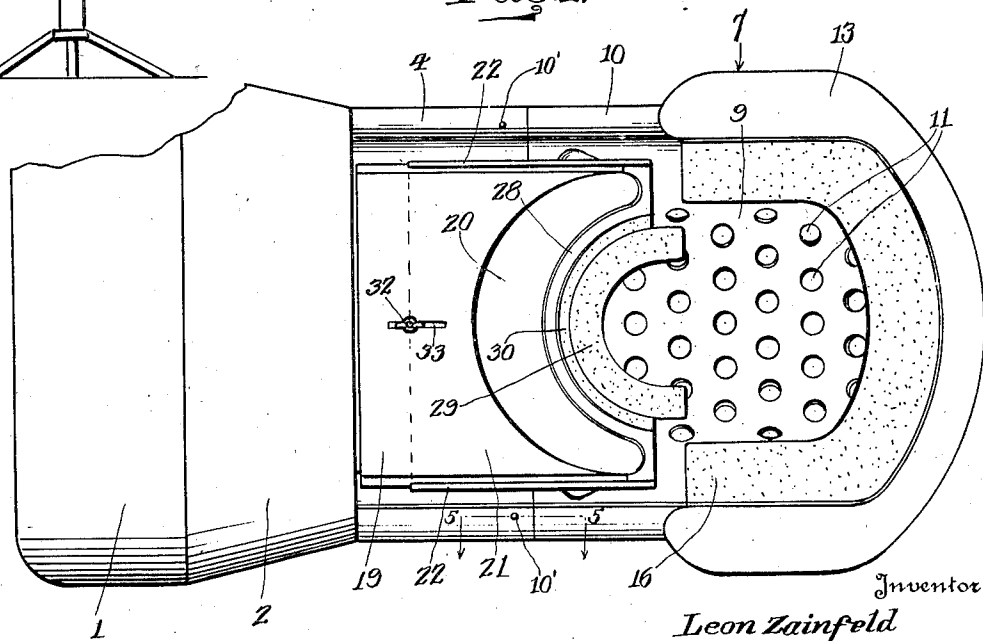


Fig. 2.



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Fig. 3.

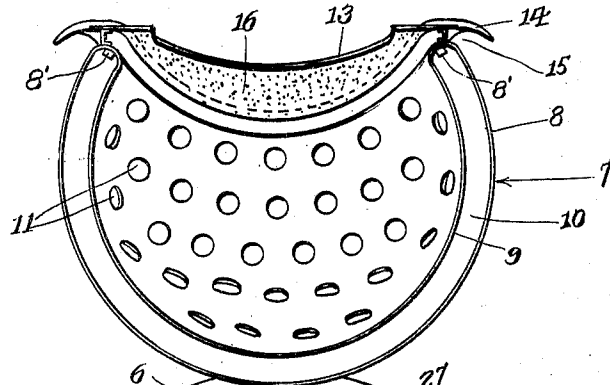


Fig. 4.

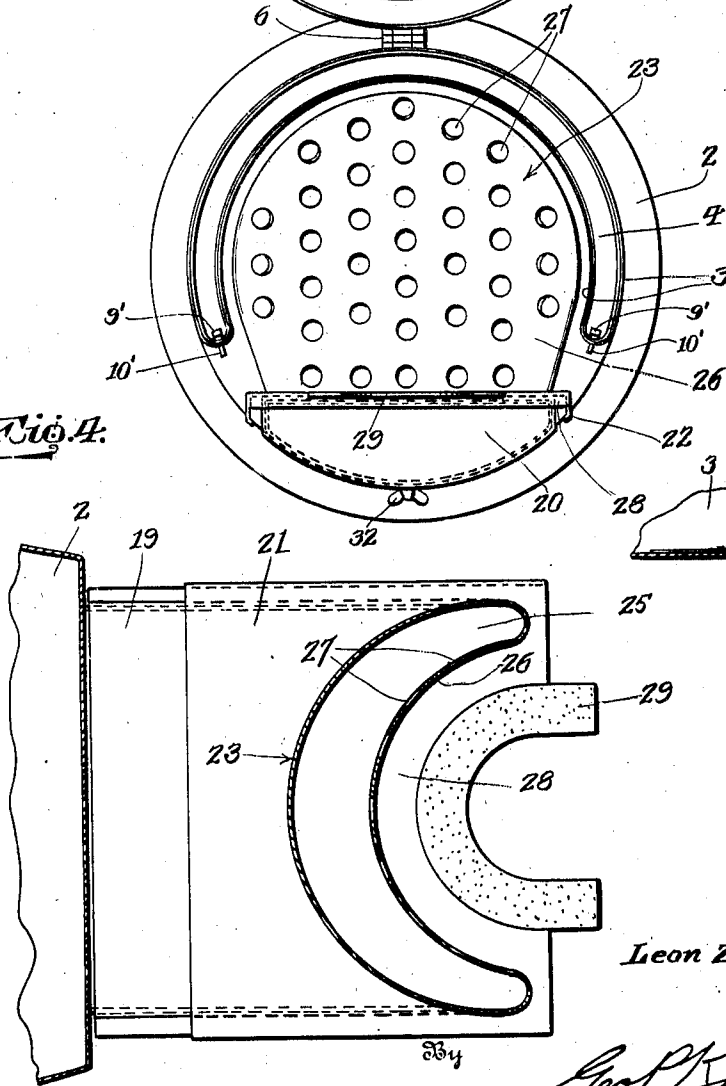
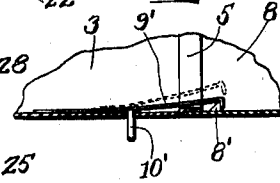


Fig. 5.



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UNITED STATES PATENT OFFICE

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HAIR DRYING DEVICE

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This invention relates to a hair drying device and has for its primary object to provide, in a manner as hereinafter set forth, a device of such character by means of which hair may be dried in a shorter time than is possible with similar devices now in common use.

A further object of the invention is to provide a device of the character aforesaid by means of which air may be uniformly distributed to all parts of the hair simultaneously, and which includes means for preventing the air from being discharged onto the face of the person whose hair is being dried.

A further object of the invention is to provide a device of the character aforesaid which includes a pair of relatively adjustable air discharging members disposed substantially at right angles to each other.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more particularly described, and as illustrated in the accompanying drawings wherein is shown an embodiment of the invention, but it is to be understood that the description and drawings are to be considered as illustrative rather than limitative.

In the accompanying drawings in which like numerals are employed to designate like parts throughout the several views:

Figure 1 is a sectional elevation of a hair drying device in accordance with this invention.

Figure 2 is a bottom plan thereof.

Figure 3 is a front elevation thereof with the head piece swung about its pivot to open position.

Figure 4 is a fragmentary section taken at a point indicated by the line 4—4 of Figure 1.

Figure 5 is a fragmentary section taken on the line 5—5 of Figure 2.

Referring to the drawings in detail, the numeral 1 indicates a fan housing which is formed at its front with a tapered air chamber 2. Formed integrally with the walls of the air chamber 2, at the top and sides of the latter, are a pair of spaced walls 3 which provide an air passage 4 which is substantially in

the shape of an inverted U. Adjacent the forward edge thereof the passage 4 is of reduced width as indicated at 5.

Secured to the outer wall 3, by means of a hinge 6, is a substantially semi-cup shaped head piece 7 having spaced peripheral walls 8 and 9 which provide therebetween an air discharging chamber 10 which is in communication with the air passage 4 when the head piece 7 is in its lowered position as shown in Figure 1. When the head piece 7 is in its lowered position, rearward edge portions of the walls 8 and 9 overlap the walls of the reduced portion 5 of the air passage 4. The inner wall 9 of the head piece 7 is provided with a plurality of openings 11 to permit the escape of the air from the chamber 10.

The head piece 7 is normally maintained in its lowered position by means of a pair of beveled lugs 8' disposed within the chamber 10 at the lines of joinder between the walls 8 and 9, which engages the hooked free ends of a pair of resilient latches 9' disposed within the passage 4 at the lines of joinder between the walls 3. Each latch 9' may be disengaged from its lug 8' by means of a pin 10' carried by the latch 9' and extending through the wall of the passage 4.

Secured to the head piece 7, by means of a plurality of brackets 12, is a substantially horseshoe shaped shield 13 which extends along the front and sides of the head piece 7 in spaced relation to the lower edge of the latter. The shield 13 is formed with a curved peripheral portion 14 which projects beyond the walls of the chamber 10 and coacts with such walls to provide a passageway 15 to permit the escape of the air which is discharged through the openings 11 from the chamber 10. Secured to the inner peripheral face of the shield 13 is a pad 16 which is preferably formed of rubber and which is adapted to snugly engage the forehead of the user of the device when the head piece 7 is in its lowered position.

Formed integrally with the walls of the air chamber 2 at the bottoms of the latter is a forwardly projecting wall forming member 17 providing an air passage 18. The member 17 is open at its front and also at its

top adjacent the front. Slidably mounted on the member 17 is an extension 19 which is formed with a curved front wall 20 which extends at a forward and upward inclination from the forward edge of the member 17 at the bottom of the latter. Fixedly mounted on the extension 19 is a plate 21 having side portions thereof downturned to provide flanges 22 embracing the outer side faces of the extension 19. Formed integrally with the plate 21 is a substantially semi-cup shaped neck piece 23, the bottom of which opens through the plate 21 in registry with an opening 24 in the top wall of the extension 19, the opening 24 conforming in contour to the open bottom of the neck piece 23. The neck piece 23 provides an air discharge chamber 25 in communication with the air passage 18, the inner wall 26 of the neck piece having a plurality of openings 27 for the discharge of air from the chamber 25.

The plate 21 projects forwardly of the inner wall 26 of the neck piece and is formed at its forward edge with a downwardly and rearwardly inclined flange 28 which is curved to conform in contour with the wall 26. Fitting snugly against the forward edge of the plate 21 is a substantially semi-annular pad 29 preferably formed of rubber and having a depending skirt portion 30 extended beneath and fixedly secured to the flange 28. The pad 29 is adapted to snugly engage the neck of the wearer of the device for preventing the escape of air discharged through the openings 27 along the neck of the wearer.

In order that the neck piece 23 may be maintained in proper relation to the head piece 7, a nut 31 is secured to the bottom wall of the member 17, within the passage 18. Threadedly engaging the nut 31 is a set screw 32 which extends through an elongated slot 33 formed in the bottom wall of the extension 19.

In the use of the device, the head piece 7 is swung about the hinge 6 to its open position as shown in Figure 3, and the device is positioned with the pad 29 in engagement with the back of the neck of the wearer. The head piece 7 is then swung to the position shown in Figure 1 and is adjusted with the pad 16 engaging the forehead and temples of the wearer. If such adjusting of the head piece 7 causes the pad 29 to move out of engagement with the neck of the wearer, the extension 19 is slid forwardly along the member 17 until the pad 29 is again brought into engagement with the neck of the wearer. The fan is then started which causes air to pass from the chamber 2 through the passage 4 into the chamber 10 to be discharged through the openings 11, and also causes air to pass from the chamber 2 through the passage 18, from which it is deflected by the wall 20 into the chamber 25 for discharge through the openings 27. Owing to the engagement of

the pads 16 and 29 with the forehead and neck respectively of the wearer, the air discharged through the openings 11 and 27 is prevented from passing downwardly along the face and neck of the wearer and escapes in an upward and outward direction through the passage 15 between the shield 13 and the lower edge of the head piece 7.

It is thought that the many advantages of a hair drying device in accordance with this invention will be readily apparent, and although the preferred embodiment of the invention is as illustrated and described, it is to be understood that changes in the size, shape and arrangement of parts may be made, so long as such changes fall within the scope of the invention as defined in the appended claims.

What I claim is:—

1. A hair drying device comprising, a substantially semi-cup shaped head piece providing an air discharge chamber, a substantially horseshoe shaped shield secured to the head piece in spaced relation to the lower edge of the wall of said chamber, a pad carried by said shield for engagement with the forehead and temples of a wearer, a substantially semi-cup shaped neck piece providing an air discharge chamber, and a substantially semi-annular pad carried by said neck piece for engagement with the neck of the wearer.

2. A hair drying device comprising, a substantially semi-cup shaped head piece providing an air discharge chamber, a substantially horseshoe shaped shield secured to the head piece in spaced relation to the lower edge of the wall of said chamber, a pad carried by said shield for engagement with the forehead and temples of a wearer, a substantially semi-cup shaped neck piece providing an air discharge chamber, and a substantially semi-annular pad carried by said neck piece for engagement with the neck of the wearer, said neck piece and head piece being relatively movable to adjust said pads with respect to each other.

3. A hair drying device comprising, means to provide a substantially inverted U-shaped air passage, a substantially semi-cup shaped head piece providing an air discharge chamber in communication with said air passage, a substantially horseshoe shaped shield secured to the head piece in spaced relation to the lower edge of the wall of said discharge chamber, a pad carried by said shield for engagement with the forehead and temples of a wearer, a horizontally disposed air passage beneath the inverted U-shaped passage, a substantially semi-cup shaped neck piece providing an air discharge chamber in communication with said horizontally disposed passage, and a substantially semi-annular pad carried by said neck piece for engagement with the neck of the wearer.

4. A hair drying device comprising, means to provide a substantially inverted U-shaped air passage, a substantially semi-cup shaped head piece providing an air discharge chamber in communication with said air passage, a substantially horseshoe shaped shield secured to the head piece in spaced relation to the lower edge of the wall of said discharge chamber, a pad carried by said shield for engagement with the forehead and temples of a wearer, a horizontally disposed air passage beneath the inverted U-shaped passage, a substantially semi-cup shaped neck piece providing an air discharge chamber in communication with said horizontally disposed passage, and a substantially semi-annular pad carried by said neck piece for engagement with the neck of the wearer, said head piece being hingedly connected with the wall of said inverted U-shaped passage, said shield extending at a forward and upward inclination from the wall of the air chamber of the head piece.

5. A hair drying device comprising, a substantially inverted U-shaped air passage, a substantially semi-cup shaped head piece providing an air discharge chamber in communication with said passage, a wall forming member providing a horizontally disposed air passage beneath the inverted U-shaped air passage, said wall forming member being open at its front and at its top adjacent the front, an extension slidably mounted on said member, and a substantially semi-cup shaped neck piece carried by said extension and providing an air discharge chamber in communication with said horizontally disposed passage, said extension having an inclined wall closing the open front of said wall forming member.

6. A hair drying device comprising, a substantially semi-cup shaped head piece providing an air discharge chamber, a wall forming member open at its front and top adjacent the front and providing a horizontally disposed air passage, an extension slidably mounted on said wall forming member, a plate fixedly mounted on said extension and formed with a substantially semi-cup shaped neck piece providing an air discharge chamber in communication with said passage, said extension having a forwardly and upwardly inclined front wall secured to said plate forwardly of the air chamber in the neck piece, said plate having a downturned flange adjacent the upper edge of said forwardly and upwardly inclined front wall, and a substantially semi-annular pad secured to said flange.

In testimony whereof, I affix my signature hereto.

LEON ZAINFELD.