June 24, 1930. E. A. McGINNIS 1,765,379

HAIR DRIER

Filed Dec. 1, 1928

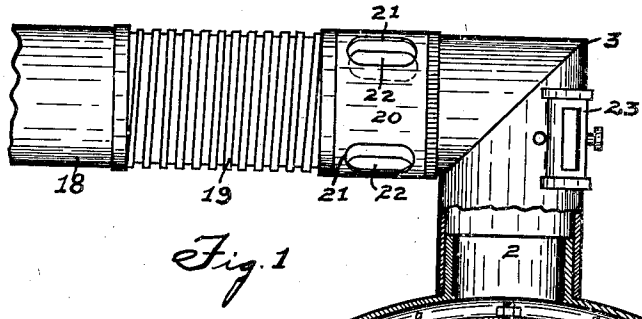


Fig. 1

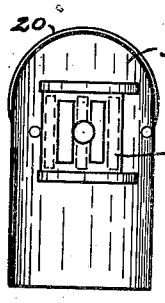


Fig. 2

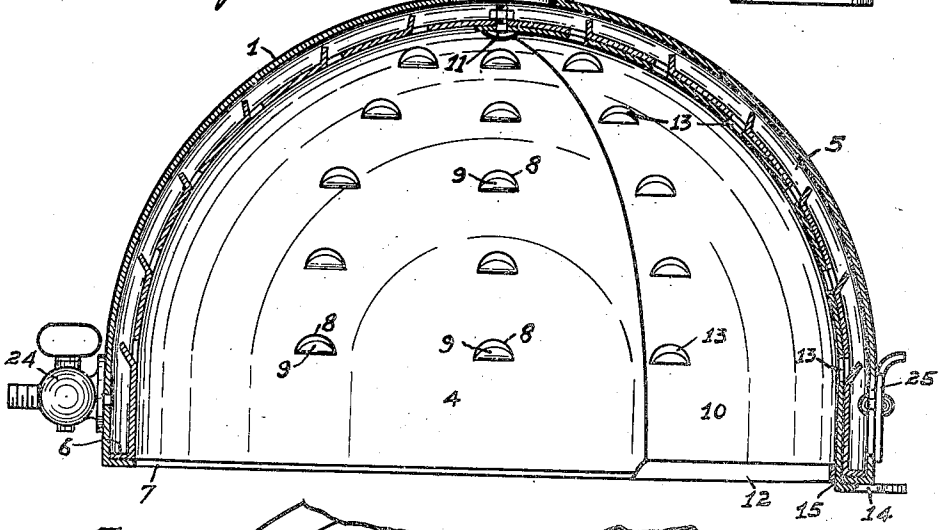
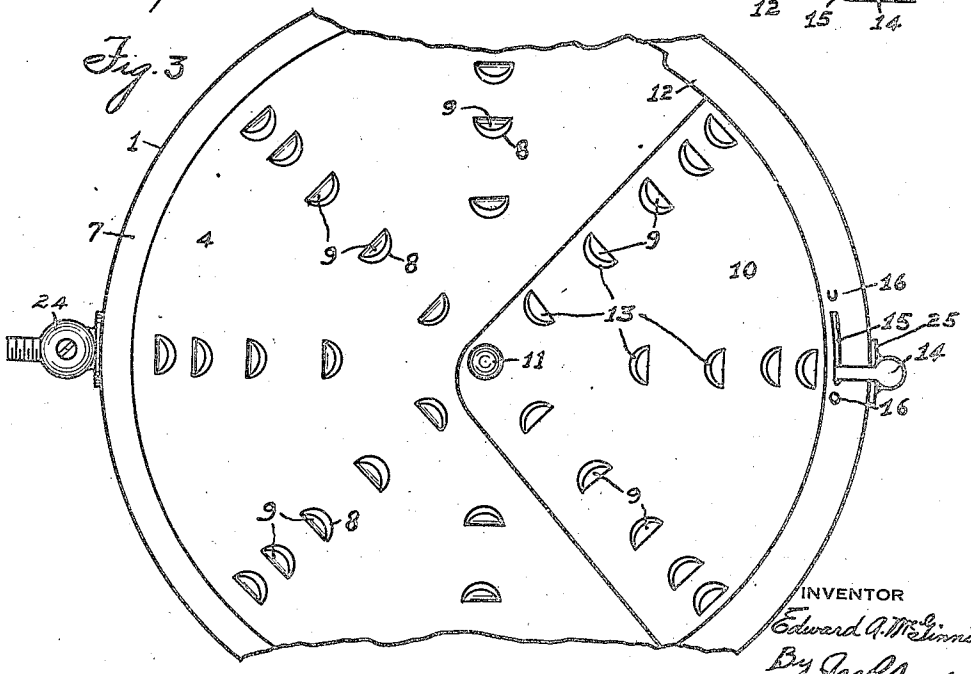


Fig. 3



INVENTOR
Edward A. McGinnis
By Jack Dwyer
Attorney

Patented June 24, 1930

1,765,379

UNITED STATES PATENT OFFICE

EDWARD A. McGINNIS, OF PITTSBURGH, PENNSYLVANIA

HAIR DRIER

Application filed December 1, 1928. Serial No. 323,171.

My invention relates to hair driers, particularly of the heated air type disclosed in my co-pending application for Letters Patent of the United States bearing filing date the 10th day of November, 1928, and Serial No. 318,332.

While embodying all of the objects and advantages of the co-pending application, above mentioned, the present invention has for its further object to provide a still more efficient device of its kind, which will dry the hair uniformly, and expedite the hair drying operation.

To the accomplishment of these and such other objects as may hereinafter appear the invention consists of the novel construction, combination and arrangement of parts hereinafter specifically described, and illustrated in the accompanying drawing, but it is to be understood that the device shown is merely illustrative of an embodiment thereof, and that various changes in the form, proportions and details of construction may be resorted to without departing from the spirit of the invention or sacrificing any advantages which come within the scope of the claims hereunto appended.

In the drawing wherein like numerals of reference designate corresponding parts throughout the several views:—

Figure 1 is a vertical cross sectional view of a hair drier constructed in accordance with the invention.

Figure 2 is a front view of the heat supply conduit.

Figure 3 is a bottom plan view of the device.

Referring in detail to the drawing 1 denotes a heat confining dome, which is substantially semi-spherical in contour and adapted to be positioned on the head of the patron to completely cover the hair. The top of the confining dome is provided with an open heat inlet neck 2, which detachably engages the heated air supply conduit 3.

A heat distributor 4 is mounted on the inner side of the confining dome 1, and is spaced from the latter to provide a heat circulating chamber 5 therebetween. The heat distributor 4 conforms to the contour of the confining dome 1 and extends parallel to and throughout the inner side of the latter. The lower edge margins of the confining dome 1 and of the heat distributor 4 are formed with overlapping flanges, respectively indicated at 6 and 7, whereby the heat distributor 4 is maintained in proper spaced position within the confining dome 1, and further whereby the lower end of the heat circulating chamber 5 is closed to prevent the passage of heat therethrough.

The heat distributor 4 is formed with a plurality of apertures 8, which are arranged in any suitable manner to best provide for the passage and distribution of heated air during the hair drying operation. Each of the apertures 8 is preferably half round and when the same is punched the material that is removed therefrom is left attached at its straight side and forced outwardly to provide a heat deflecting lip 9. The latter extends upwardly at an angle and serves to direct the heated air through the associated aperture 8 and thereby augment the efficiency of the drier.

A segmental regulating plate 10 extends parallel to and frictionally engages the inner side of the heat distributor 4. The apex of the regulating plate 10 is pivotally attached to the top center of the heat distributor 4 by means of a bolt 11. The lower edge margin of the regulating plate 10 is slidably mounted in a retaining guide 12, which is formed by upturning a projecting edge portion of the confining dome flange 6.

The regulating plate 10 is formed with a plurality of perforations 13, which are arranged in exact registration with the apertures 8 of that portion of the heat distributor 4 against which it is positioned. By shifting the regulating plate 10 laterally in either direction the registering apertures 8, of the heat distributor 4, may be respectively, opened partially or completely or closed entirely.

The segmental regulating plate 10 is preferably disposed in the forward side of the heat distributor 4 to regulate the heat supply to the front of the head, as less hair is

at the front than at the top and back thereof.

The regulating plate 10 carries a fixed operating arm 14, which projects through a slot 15 formed in the bottom of the retaining guide 12 and extends laterally outward beyond the lower periphery of the confining dome 1. The length of the slot 15 is such that when the operating arm 14 is disposed against one end wall thereof the regulating plate 10 is in the open position, as shown in the drawing. When the operating arm 10 is shifted against the other end wall of the slot 15 the regulating plate 10 will shift to the closed position. Any position of the operating arm 14, intermediate of the ends of the slot 15, will position the regulating plate 10 in the partially open position. Indicia 16 may be provided adjacent to respective ends of the slot 15 for indicating the relative positions of the operating arm 14 therein to effect the opening and closing positions of the associated regulating plate 10.

The horizontal portion 18, of the heated air supply conduit 3, is provided with a flexible conduit section 19, which is provided to facilitate the adjustment of the drier to the head.

The horizontal conduit portion 18 further carries a sleeve 20, which is mounted for frictional rotatable adjustment on the former. The sleeve 20 is provided with a plurality of apertures 21, which are adapted for registration with corresponding apertures 22 formed in the horizontal conduit portion 18. The manual adjustment of the sleeve 20 upon the conduit portion 18, respectively opens or closes the conduit portion apertures 22, which when open admit cold air to the drier to prevent excessive heating and establish proper drying temperature.

The front of the heated air supply conduit 3 is provided with a suitable regulating shutter element 23 through which excessively heated air may be dissipated if the volume of same is greater than required to best effect the hair drying operation.

A hair drier, constructed in accordance with the present invention, provides a most efficient device for distributing heated air to all parts of the hair to dry same uniformly and to expedite the drying operation.

It will here be noted that while the present invention is primarily intended and designed for drying hair, the same is also admirably adaptable for steaming the latter. The confining dome 1 is provided with a steam inlet valve 24 and with a steam venting member 25. The valve 24 and venting member 25 are preferably diametrically opposed to each other and positioned adjacent to the lower end of confining dome 1.

What I claim is:

In a hair drier, the combination of a confining dome, a distributor fixedly mounted in said confining dome and spaced from the latter to provide a heat circulating chamber between said confining dome and said distributor, said distributor being provided with a plurality of apertures for the passage of the heat, a segmental regulating plate pivotally mounted against inner surface of said distributor at the forward side of the latter, said regulating plate being provided with a plurality of perforations which are positioned therein for registration with the apertures at the forward side of said distributor, a retaining guide formed at the lower forward edge of said confining dome and engaging said regulating plate, said retaining guide provided with a slot, and an operating arm carried at the lower end of said regulating plate for adjusting said regulating plate in said distributor, said operating arm projecting through said slot and being limited in its movement by the length of the latter substantially as described and for the purpose set forth.

In testimony whereof I affix my signature.

EDWARD A. McGINNIS.