Aug. 11, 1931. M. SOSS 1,818,282

DRYING AND CLEANING BRUSH

Filed July 21, 1930

Fig. 1

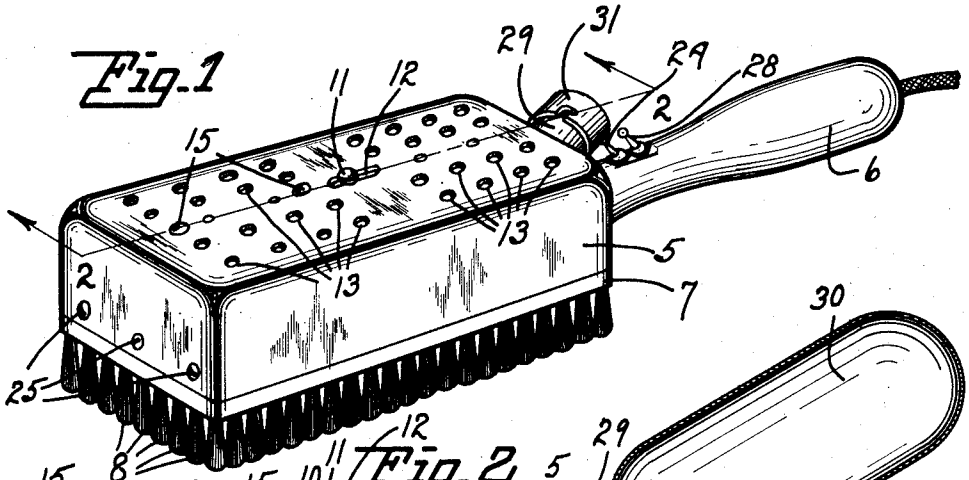


Fig. 2

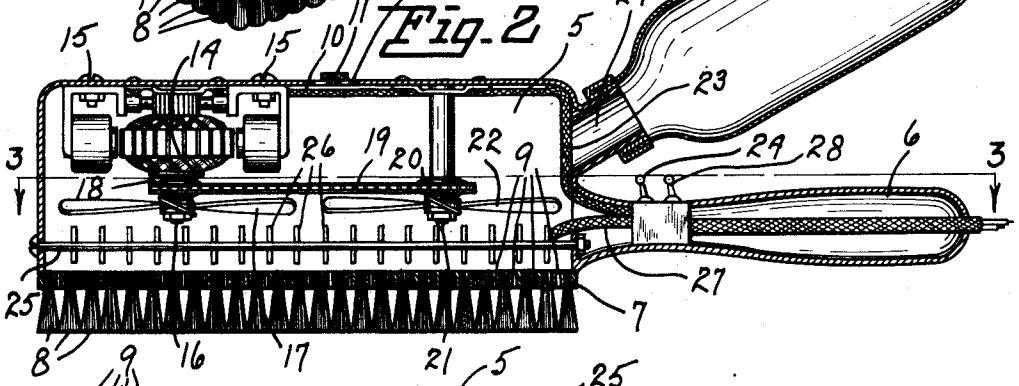


Fig. 3

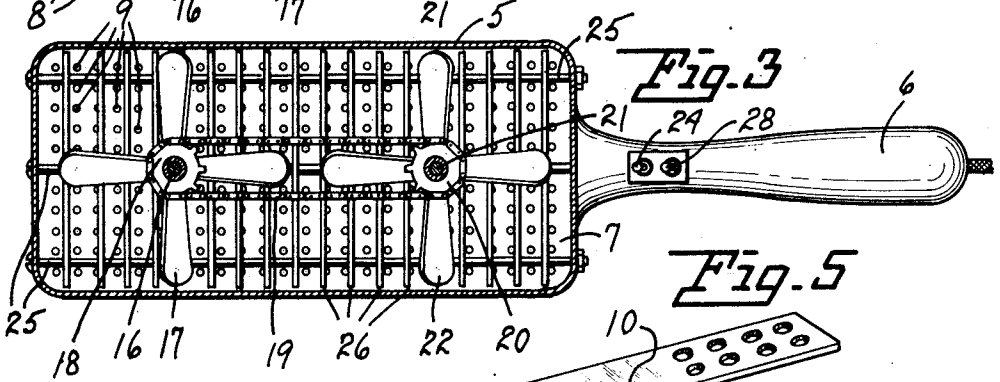


Fig. 4

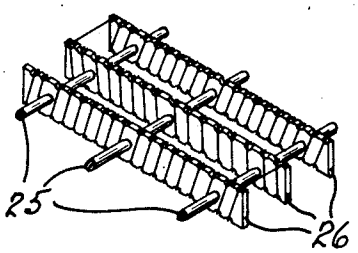
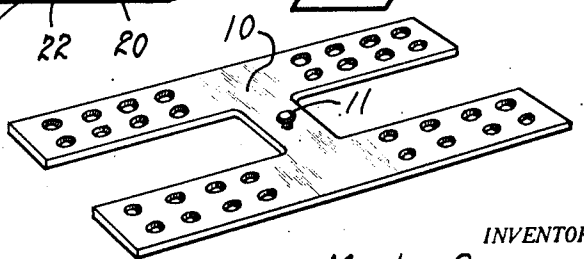


Fig. 5



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Patented Aug. 11, 1931 1,818,282

UNITED STATES PATENT OFFICE

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DRYING AND CLEANING BRUSH

Application filed July 21, 1930. Serial No. 469,357.

My invention relates to drying and cleaning brushes and certain objects of the invention are to provide an electrically operated brush with both suction and expulsion means whereby air may be either forcibly drawn thereinto or discharged therefrom. Further objects of the invention are to provide heating element means, means for controlling the passage of air through the brush and means for collecting the foreign matter for use when the brush is employed as a cleaning device.

With the above and other objects in view which will appear as the description proceeds, the invention consists of the novel construction, adaptation, combination and arrangement of parts hereinafter described and claimed. These objects are accomplished by devices illustrated in the accompanying drawings; wherein:—

Figure 1 is a view in perspective of the device;

Fig. 2 is a view in longitudinal vertical section taken substantially on a broken line 2, 2 of Fig. 1;

Fig. 3 is a view in horizontal section taken on a broken line 3, 3 of Fig. 2;

Fig. 4 is a detail view in perspective showing a portion of the heating element; and

Fig. 5 is a detail view in perspective of the valve plate for the upper wall of the brush casing.

Referring to the drawings throughout which like reference numerals indicate like parts, the numeral 5 designates the hollow brush casing as a whole having a hollow handle 6 connected to one end thereof. The bottom of said casing is closed by a bristle back member 7 secured thereto and having the usual bristles 8 with perforations 9 between the bristles for the passage of air as will be understood. On the upper interior wall of the brush casing a perforated valve plate 10, in the shape of the letter H as shown in detail in Fig. 5, is slidably mounted in any suitable manner. Said plate is centrally provided with a knob 11 that is arranged to project through a slot 12 in the top of said casing whereby the plate may be moved back and forth to bring its perforations into or out of registry with corresponding perforations 13 through the top wall of said brush casing.

An electric motor 14 is secured by screw bolts 15 to the top wall in the forward portion of the brush casing 5 and its depending shaft 16 has a fan 17 secured to the end thereof. A sprocket 18 is fixed on said shaft with a chain 19 leading therefrom to another sprocket 20 on a shaft 21 having a fan 22 secured to its end in the rear portion of said brush casing. An electric conduit 23, leading through the hollow handle 6, supplies current to said motor and is provided with a switch 24 connected to said handle.

A heating element is mounted in the bottom portion of the brush casing 5 between the bristle back member 7 and the fans 17 and 22. Said element comprises a plurality of spaced longitudinal rods 25 connected to the forward and rear end walls of said casing and with a plurality of spaced insulator bars 26 suspended transversely thereon. The usual resistance wire is coiled on said bars and a conduit 27 leads therefrom through the hollow handle 6 where it is provided with a switch 28 adjacent the motor switch 24.

The rear wall of the brush casing 5 is provided with a nozzle or outlet 29 to which a sack or dust separator 30 may be connected when the brush is being used as a cleaning device, and which nozzle may be closed by a cap 31, as shown in Fig. 1, when the brush is used as a drying apparatus. It will be understood that the motor 14 is of the reversible type and when the brush is used for drying purposes said motor rotates the fans 17 and 22 in a direction to blow air outwardly through the perforations 9, the perforations 13 in the top of the casing are opened by slidably moving the valve plate 10, and current is supplied to the heating element by means of the switch 28. When the apparatus is being used for cleaning purposes said perforations are closed with the nozzle or outlet 29 open and the bag or dust remover 30 installed thereon, the motor 14 is reversed and the heat is turned off.

As one illustration of the utility of my device, using same as a cleaning or vacuum

means the scalp may be thoroughly scrubbed with the bristles 8 to loosen the dandruff which will be sucked into the bag 30, the scalp may then be washed or shampooed after which the device may be used to dry the hair and scalp as will be understood. Having thus described my invention, it being understood that minor changes may be resorted to in its construction and arrangement without departing from the scope and spirit of the invention.

What I claim and desire to secure by Letters Patent of the United States is:—

1. A drying and cleaning brush having in combination a brush casing comprising a perforated top wall, an outlet for said casing, a dust separator connected to said outlet, a valve plate slidably mounted within the casing whereby said perforations may be opened and closed, a perforated bristle carrying member for the bottom of the casing, a reversible motor mounted within the top portion of the casing, and one or more fans mounted within the casing and arranged to be driven by said motor.

2. A drying and cleaning brush having in combination a brush casing comprising a perforated top wall, a valve plate slidably mounted within the casing whereby said perforations may be opened and closed, a perforated bristle carrying member for the bottom of the casing, a reversible motor mounted within the top portion of the casing, one or more fans mounted within the casing arranged to be driven by said motor, a heating element mounted within the casing, a conduit and switch for the motor and a separate conduit and switch for the heating element, an outlet for the casing, and a sack adapted to be connected to said outlet.

In testimony whereof I affix my signature.

MARK SOSS.