March 11, 1930. P. EMMRICH 1,750,094

HAND AND FACE DRYING DEVICE

Filed Feb. 23, 1929

Fig. 1.

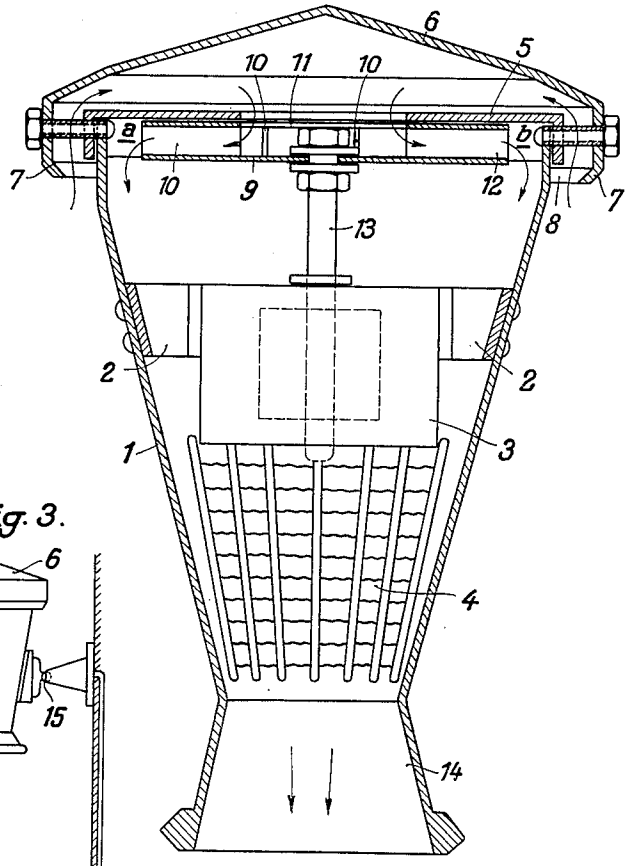


Fig. 3.

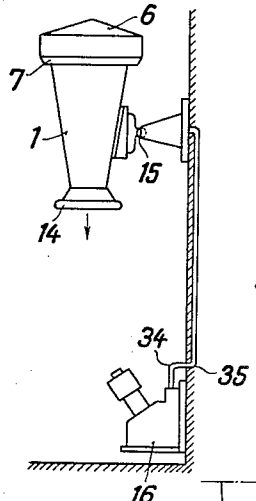
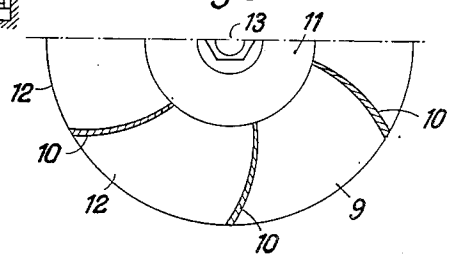


Fig. 2.



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UNITED STATES PATENT OFFICE

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HAND AND FACE DRYING DEVICE

Application filed February 23, 1929, Serial No. 342,247, and in Germany November 12, 1928.

The present invention relates to a hand and face drying device, and consists in providing a case attached to a wall and containing a motor-driven turbine wheel, the funnel-shaped discharge opening of the case holding a heating appliance of a shape resembling that of the discharge opening and hugging the inner wall tightly so that all the air sucked up by the turbine wheel will be pressed through the heater, while simultaneously the device is actuated by a treadle arranged on the wall above the floor. The drying device is secured to the wall preferably by means of a universal joint.

Further features of the invention will be set forth in the following description and pointed out in the appended claims.

One embodiment of the invention is illustrated in the accompanying drawings, in which Figure 1 is a vertical section of the drying device; Fig. 2, a horizontal section of the turbine wheel on the line *a*—*b*; Fig. 3, a total view of the drying device with the treadle.

Referring to the drawings, 1 is the case, in which the carrier 2 supports the motor 3 provided at its lower end with the heater 4, the entrance opening of the device being covered by the annular disc 5 and the protective cap 6, the edge 7 of which extends below the top edge of the case 1, so that an annular entrance opening 8 is provided for the admission of air. Immediately below the annular disc 5 the turbine wheel 9 is provided and fitted with the arcuate blades 10. The turbine wheel possesses further the axial inlet opening 11 and the radial outlet opening 12 and is arranged directly on the shaft 13 of the motor 3. When the motor is started, the air is sucked in through the annular opening 8 and passes in the direction of the arrows under the protective cap 6 whence it enters, through the axial opening 11, the turbine wheel and is pressed out radially by the blades 10. Finally, it passes the motor 3 and flows through the heater 4 towards the outlet opening 14 of the drying device, and, as the heater 4 is shaped like outlet opening and closely hugs the inner wall, the air sucked up by the turbine wheel is pressed completely through the heater. The drying device 1 is secured to the wall preferably by means of the universal joint 15 and operated by a treadle or foot switch 16. Within the case 16 a switch is slidingly arranged and occupies an inclined position. The wires 34 and 35 connect the switch with the drying device.

I claim:—

1. Hand and face drying device with a heater, a turbine wheel and a motor comprising in combination a case attached to a wall and possessing a conical outlet opening, an annular covering disc within the upper part of the case adapted to cover the inlet opening of the device, the said turbine wheel being arranged slightly below the said annular covering disc and adapted to suck in air in an axial direction and possessing a plurality of arcuate blades adapted to radially press out the sucked-up air, the said motor being arranged behind the said turbine wheel, a heater provided within the outlet opening of the said case behind the motor and being of the same shape as the opening so as to hug the inner wall.

2. In a hand and face drying device with a heater, a turbine wheel and a motor, an annular disc adapted to cover the inlet opening of the device, a protective cap arranged on top of the said disc and extending over the top edge of the device, the said turbine wheel being arranged slightly below the said annular covering disc with an annular inlet and adapted to suck in air in an axial direction, and a plurality of arcuate blades forming part of the said turbine wheel and adapted to radially press out the sucked-up air.

In testimony whereof I have affixed my signature.

PAUL EMMRICH.