

G. SIEGFRIED.
HAIR DRYING DEVICE.
APPLICATION FILED NOV. 9, 1907.

900,434.

Patented Oct. 6, 1908.

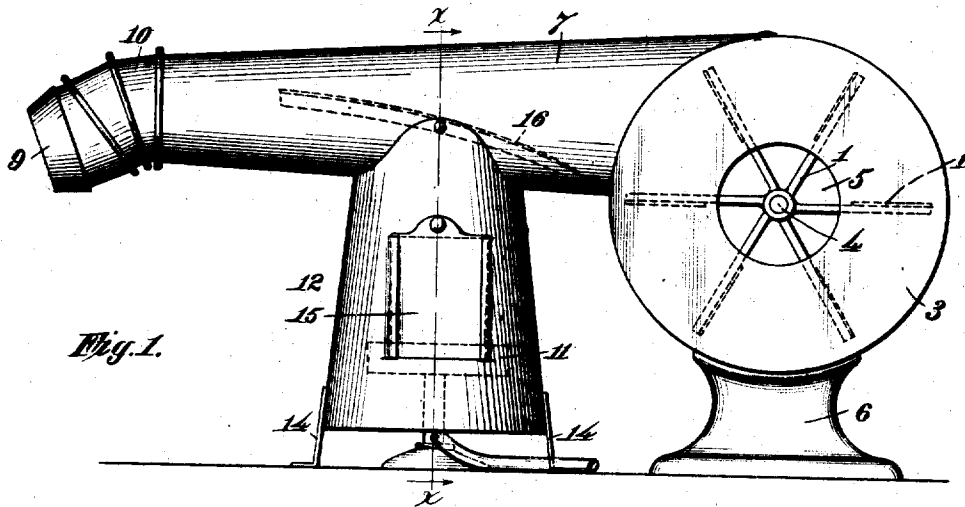


Fig. 1.

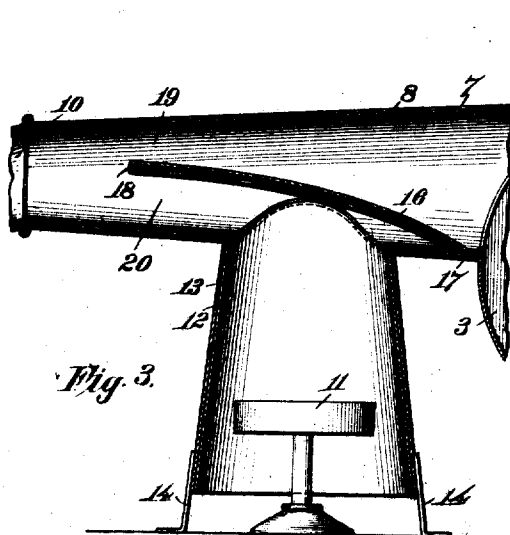


Fig. 3.

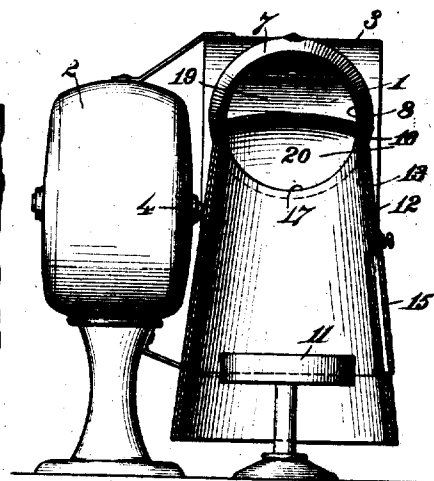


Fig. 2.

Witnesses:
H. S. Austin
A. A. Olson

Inventor:
George Siegfried
by Joshua R. Potts
Atty.

UNITED STATES PATENT OFFICE

GEORGE SIEGFRIED, OF CHICAGO, ILLINOIS.

HAIR-DRYING DEVICE.

No. 900,434.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed November 9, 1907. Serial No. 401,385.

To all whom it may concern:

Be it known that I, GEORGE SIEGFRIED, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Hair-Drying Devices, of which the following is a specification.

My invention relates to hair drying apparatus and particularly to that class of apparatus designed for the use of shampooers and hair dressers whereby a stream of heated air may be directed against the hair to be dried. An apparatus of this class comprises a rotary fan or blower, a flue leading therefrom and means for supplying heated air to the device. Usually the flue comprises a flexible hose which is held in one hand of the operator and by means of which the hot air is directed against the head of the person whose hair is to be dried. So far as I am aware, in devices of this class, which have been provided heretofore, the heat is drawn into the fan casing which is injurious to the machine as it causes the fan bearings to become overheated and dry. Frequently a gas burner having a plurality of jets is used for heating the air and this is placed at the central air opening of the fan casing. On account of the strong current of air a number of the jets at the edge of the burner are blown out and kept from burning, hence, a quantity of gas escapes into the apparatus and is carried along with the heated air, which is obnoxious to both the customer and the operator.

The object of my invention is to provide an apparatus of the class mentioned having a self supporting flue to the end that both hands of the operator may be free to manipulate the hair.

A further object of my invention is to provide self supporting means at the end of the flue which may be adjusted to direct the current of air in any desired direction.

A further object of my invention is to provide means for supplying the hot air to the device in such a manner as to avoid heating and drying the working parts, and so avoid the escape of unburned gases into the flue.

Other objects will appear hereinafter.

With these objects in view, my invention consists generally in an apparatus of the class mentioned comprising a fan and fan casing, an elongated rigid flue extending horizontally therefrom and a source of heat supply.

My invention further consists in an apparatus of the class mentioned having a fan and fan casing a self supporting flue extending therefrom and self supporting means at the end of the flue which may be adjusted to direct the current of air in any desired direction.

My invention further consists in a fan and fan casing, a flue leading therefrom and means for supplying heat to the flue at a point beyond the fan casing.

My invention further consists in various details of construction and arrangements of parts all as will be hereinafter fully described and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a side elevation of a hair drying apparatus embodying my invention in its preferred form, Fig. 2 is a transverse section thereof on the line $x-x$ of Fig. 1, and Fig. 3 is a longitudinal section through the flue and the heating device.

Referring to the drawings, 1 indicates a fan driven by a motor, 2, and 3 a fan casing. The fan may be driven by any suitable motor power, but I have illustrated it as arranged upon the shaft, 4, of an electric motor. The casing, 3, is suitably supported and is provided with an air inlet, 5. To support the casing it may be provided with a stand, 6, as illustrated in Fig. 1, or it may be attached to the motor frame as shown in Fig. 2.

Extending from the casing, 3, is a flue, 7 having a lining, 8, of asbestos or other refractory material. The flue is rigidly secured to the casing, 3, and preferably extends horizontally from the upper portion thereof. The end of the flue, 7, is provided with a nozzle, 9 attached thereto by an adjustable or universal elbow joint, 10. By means of the joint, 10, the nozzle, 9, may be quickly adjusted to direct the current of air in any desired direction and when set will remain in the desired position without further care on the part of the operator, leaving both hands free to manipulate the hair.

As the air passes through the flue, 7, from the fan, it is heated by being mixed with hot air admitted to the flue at a point beyond the fan casing. This may be done in any

suitable manner but I find that shown in the drawings, simple, practical and efficient.

11 indicates a heater, preferably a gas-burner arranged beneath the flue, 7 and surrounded by a hood, 12, opening into the lower part of the flue, 7, beyond the fan casing, 3. The hood, 12 is provided with an asbestos or other refractory lining, 13, and its lower edge is elevated sufficiently to permit a free ingress of air. To make the device more stable the hood is provided with a plurality of legs, 14.

15 indicates a door in the side of the hood through which the burner may be lighted.

It is obvious that the air passing through the flue, 7, from the fan will be sufficiently heated by mixing with the hot air entering from the hood, 12.

16 indicates a diagonally disposed partition within the flue, 7. This extends from a point, 17, at the bottom of the flue between the casing, 3, and the hood, to a point, 18 beyond the opening of the hood into the flue, forming a passageway, 19 above it for the cool air from the fan and a passageway, 20 for the hot air from the hood, which mix before they reach the nozzle, 9. The parti-

tion 16 prevents the strong current of air from the fan from causing a back draft through the hood, and further increases the draft therethrough.

What I claim as new and desire to secure by Letters Patent is:

1. In a device of the class described, a fan and fan casing, in combination with a flue leading therefrom, a hood arranged beneath said flue and communicating therewith at a point beyond said fan casing and a heater in said hood, substantially as described.

2. In a device of the class described, a fan and fan casing, in combination with a flue leading therefrom, a hood arranged beneath said flue and communicating therewith, a heater in said hood and a diagonally disposed partition within said flue and across the entrance from said hood into said flue, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE SIEGFRIED.

Witnesses:

FRANCES E. SHEEHY
ARTHUR A. OLSON.