

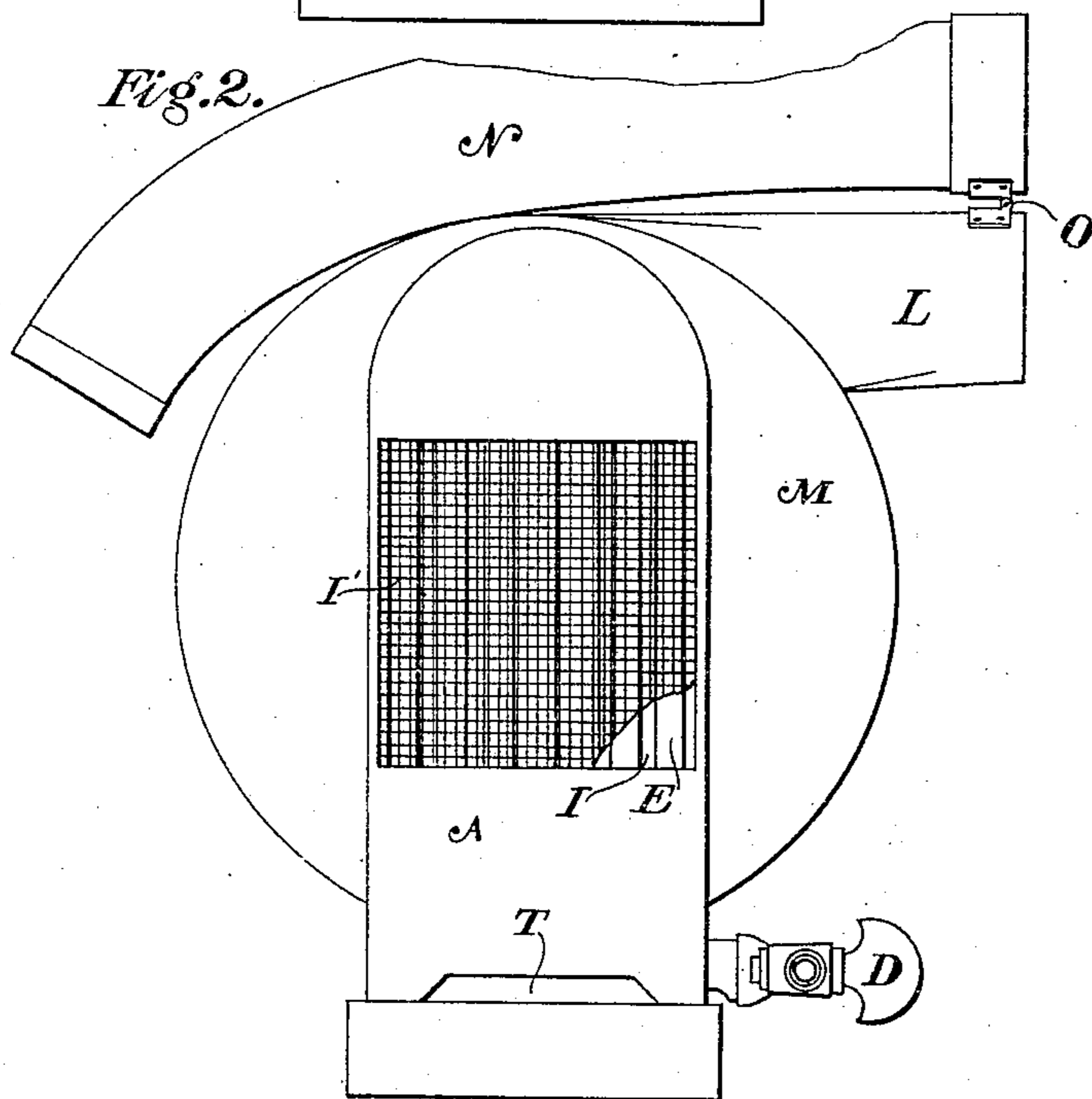
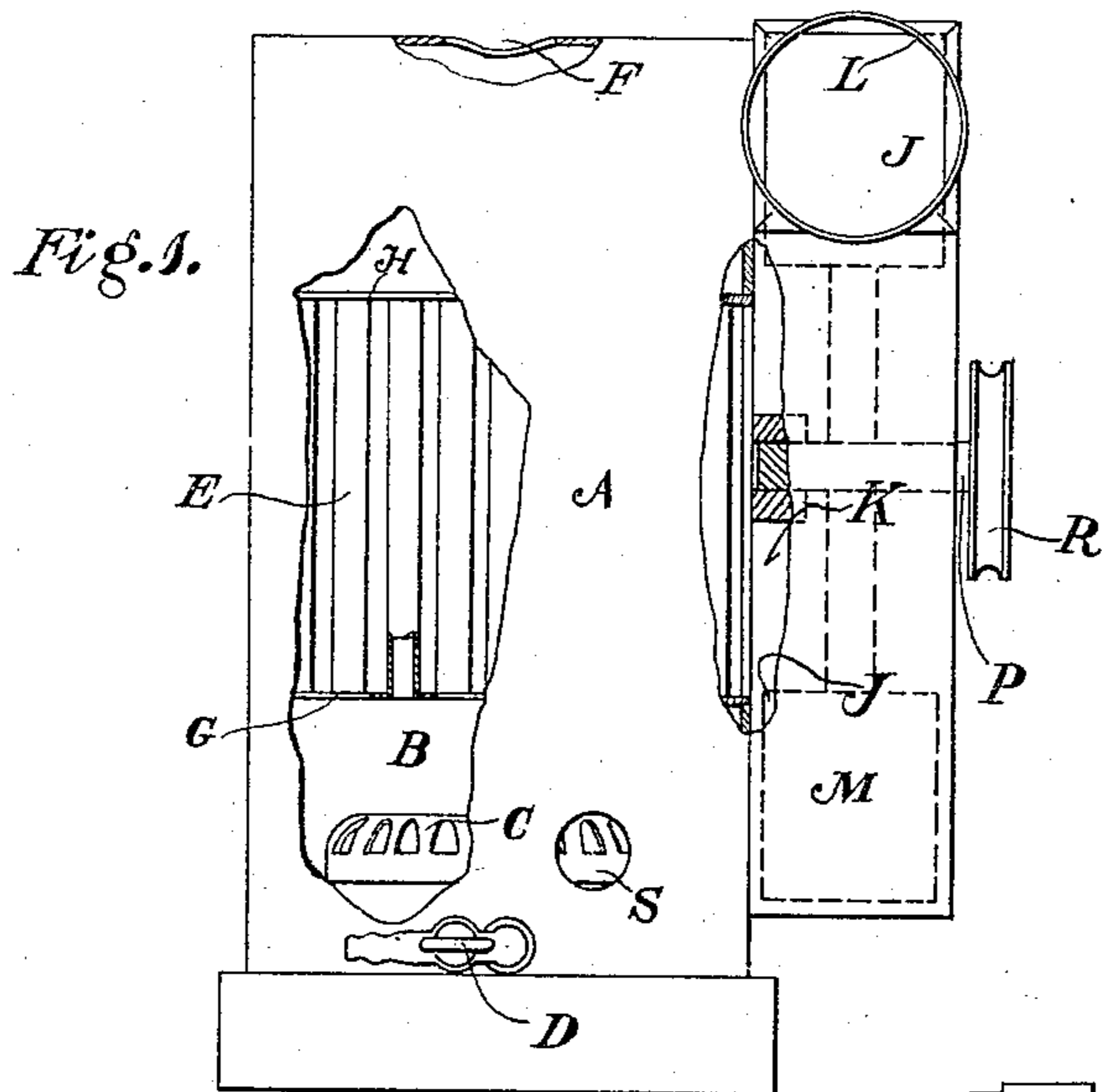
No. 765,894.

PATENTED JULY 26, 1904.

S. HUDSON.
HAIR DRIER.

APPLICATION FILED DEC. 2, 1903.

NO MODEL.



Witnesses
Trumble Barkley
Argenti C. Nickelson

Inventor
Samuel Hudson
by *Hazard & Harpham*
Attorneys.

UNITED STATES PATENT OFFICE.

SAMUEL HUDSON, OF LOS ANGELES, CALIFORNIA.

HAIR-DRIER.

SPECIFICATION forming part of Letters Patent No. 765,894, dated July 26, 1904.

Application filed December 2, 1903. Serial No. 183,505. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL HUDSON, a subject of the King of Great Britain, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Hair-Driers, of which the following is a specification.

My invention relates to means to dry the hair by the application thereto of heated air; and the object thereof is to provide a simple and efficient machine by means of which the heated air may be applied to the hair without being commingled with the products of combustion. I accomplish this object by means of the mechanism described herein and illustrated in the accompanying drawings, in which—

Figure 1 is an edge view of my machine, partly in section. Fig. 2 is a side view thereof.

In the drawings, A is the casing of the air-heating chamber and has combustion-chamber B in the lower part, in which is gas-burner C, having an ordinary cock D to regulate the admission of gas to the burner. Within the casing A and above the burner is a large number of vertical tubes E, through which the products of combustion from the burner pass and escape through an opening F in the top of the casing. These tubes are securely fastened into the lower plate G, secured to the casing, and the top plate H, which is likewise secured to the casing. These two plates prevent any communication either from the top or bottom with the space which surrounds the tubes. In one side of the casing is an opening I, which extends from the plate G to plate H and from one edge of the casing to the other and is protected by wire screening I' to prevent contact with the tubes. The other side of the casing opens into the fan-chamber K, in which is mounted the suction-force fan J, by means of which the air is drawn through between the pipes E and discharged through outlet-pipe L, affixed to the top of the casing M of the fan-chamber. A flexible pipe N is secured to the outlet-pipe by hinge O, so that when desired the flexible pipe can be thrown over upon the top of the machine, as shown in Fig. 2, and when it is de-

sired to use the flexible pipe to direct the heated air into the hair it can be turned over to register with the outlet-pipe. The shaft P of the fan, exterior of the casing thereof, is provided with a pulley R, by means of which power may be applied to rotate the fan.

In the illustration of my device I have shown means to heat the tubes by a gas-burner; but any other heating device may be used to heat the tubes, and any suitable means may be used to operate the fan. When using gas, as shown in the drawings, the gas is turned on by means of cock D and is lighted through torch-hole S. The air to supply combustion passes through draft-opening T in the side of the casing below the burner, as shown in Fig. 2. As soon as the tubes E become heated the fan is started up and the flexible tube N is turned over to register with the outlet-pipe L, when the hot air can be directed upon the hair to dry the same.

By this construction a simple and efficient machine is provided which will heat the air as hot as is necessary for drying the hair and will force the same through the hair uncontaminated by the products of combustion.

Having described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A hair-drier comprising an air-heating chamber having a combustion-chamber in the lower part thereof and an opening at the front and back thereof; a plurality of draft-tubes extending from said combustion-chamber to nearly the top of the air-heating chamber, said tubes being in communication with said combustion-chamber through which the products of combustion pass; plates at the ends of said tubes separating the space around the tubes from the other portions of space within the casing; a fan-chamber having an outlet therefrom in communication with the opening at the back of the heating-chamber; a flexible tube connected to the outlet from said fan-chamber; a suction-force fan in said fan-chamber.

2. A hair-drier comprising an air-heating chamber having an opening at the front and back and a combustion-chamber in the lower

