

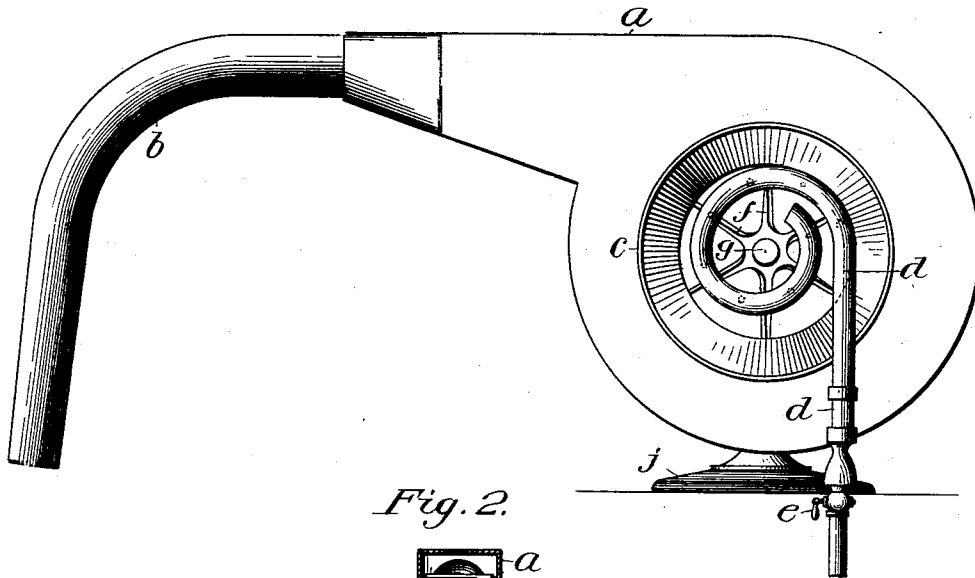
(No Model.)

H. V. HALLIWELL.  
HAIR DRIER.

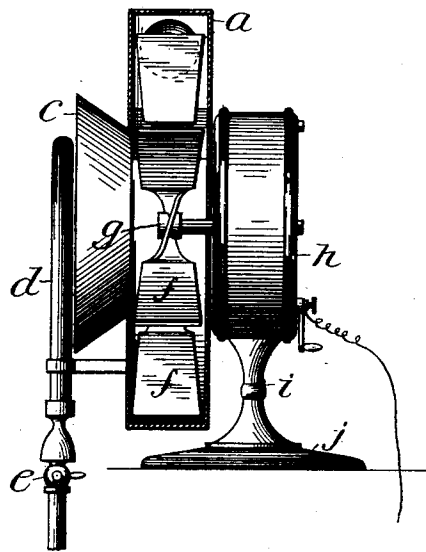
No. 591,966.

Patented Oct. 19, 1897.

*Fig. 1.*



*Fig. 2.*



*Witnesses.*

*Jesse Thomas*  
*E. L. Palmer*

*Inventor.*

*Henry V. Halliwell*

# UNITED STATES PATENT OFFICE.

HENRY VIRTUE HALLIWELL, OF TACOMA, WASHINGTON.

## HAIR-DRIER.

SPECIFICATION forming part of Letters Patent No. 591,966, dated October 19, 1897.

Application filed January 16, 1897. Serial No. 619,505. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY VIRTUE HALLIWELL, a citizen of the United States, residing at Tacoma, Pierce county, State of Washington, have invented certain new and useful Improvements in Hair-Drying Machines, of which the following is a specification, reference being had to the illustrations in the accompanying drawings, in which—

Figure 1 represents a side view of the entire machine. Fig. 2 represents a cross-sectional view of the machine, displaying a view of the fan in the drum.

My invention relates to hair-drying machines, the object of which is to greatly simplify a machine that will do its work quickly, is easy of adjustment, portable and perfectly safe from scorching or burning the hair, and cheap in its construction.

In dyeing hair it is thoroughly washed, more so than by any other treatment, and must not be wiped dry.

By having perfect control of all the draft or wind produced by my fan a head of the heaviest hair can be dried in about thirty minutes, and when heat is used by throwing it into the drum by means of the ignited gas-burner it can be dried perfectly in fifteen minutes. My hair-drier will dry the heaviest head of hair after it is shampooed in from three to five minutes and leave it as soft as silk.

My machine, with the flexible tube attachment taken in the operator's hand, will dry the top of the head and every portion of the hair and produce a warm and pleasant effect, the machine at the same time never coming in contact with the person operated upon.

The hair-drying machine, when complete, is screwed to a stand or pedestal eight by eight inches at its top and sixteen by sixteen inches at its base, mounted upon casters at each corner, and is preferably thirty-six inches in height.

The machine is heated by gas, having a rubber tube of any suitable length extending from a gas-pipe in the wall or ceiling, and attached to the coil of pipe on the side of the drum. The electric motor derives its power from an electric current by being attached to an electric-light wire, or other devices where electricity is distributed throughout the operating-room and capable of attachment.

In the drawings like letters represent like parts.

*a* represents the metal drum, composed of sheet-iron, copper, or any other suitable material, with a flexible or trunk-like attachment *b*. This tube is composed of rubber or any other suitable material that is flexible in its nature, and through it passes the draft, hot or cold, produced by the flying motion of the fan. On the side of the drum *a*, and attached securely to it, (see Figs. 1 and 2,) is an opening, five inches in diameter, surrounded by a pan-shaped metal band *c*, of the same material as the drum *a*, through which passes the heat as the same is produced by igniting the gas passing through the metal coil *d*. This metal coil is simply an ordinary piece of piping of suitable size, and contains numerous small holes in its circular or twisted part, through which the gas passes into the drum *a*, which heat is fanned out of the flexible tube *b* and on the hair of the person operated upon. At the base of the metal coil *d* is a stop-cock or shut-off valve *e*, by which the heat produced by igniting the gas passing into the drum *a* is regulated.

In Fig. 2, showing the cross-sectional view of the drum *a* and the fan *f*, the fan *f* is suspended on the axle *g*, and revolves freely as the fan is propelled by the motor *h*. The machine complete, as shown in Fig. 2, stands on the pivot *i*, immediately below and attached to the motor *h*, and revolves freely in the socket in the base or stand *j*, and can be shifted from right to left, and vice versa, or make a complete circle as occasion requires it.

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

The combination in a hair-drying machine with its drum *a*, and circular pan-shaped metal band *c*, surrounding the inlet thereof, flexible delivery-tube *b*, and the gas-pipe *d*, coiled within the band *c*, and having in its coiled part the small perforations through which gas passes and is ignited all as substantially described and shown.

HENRY VIRTUE HALLIWELL.

Witnesses:

A. A. KNIGHT,  
F. A. LEACH.