

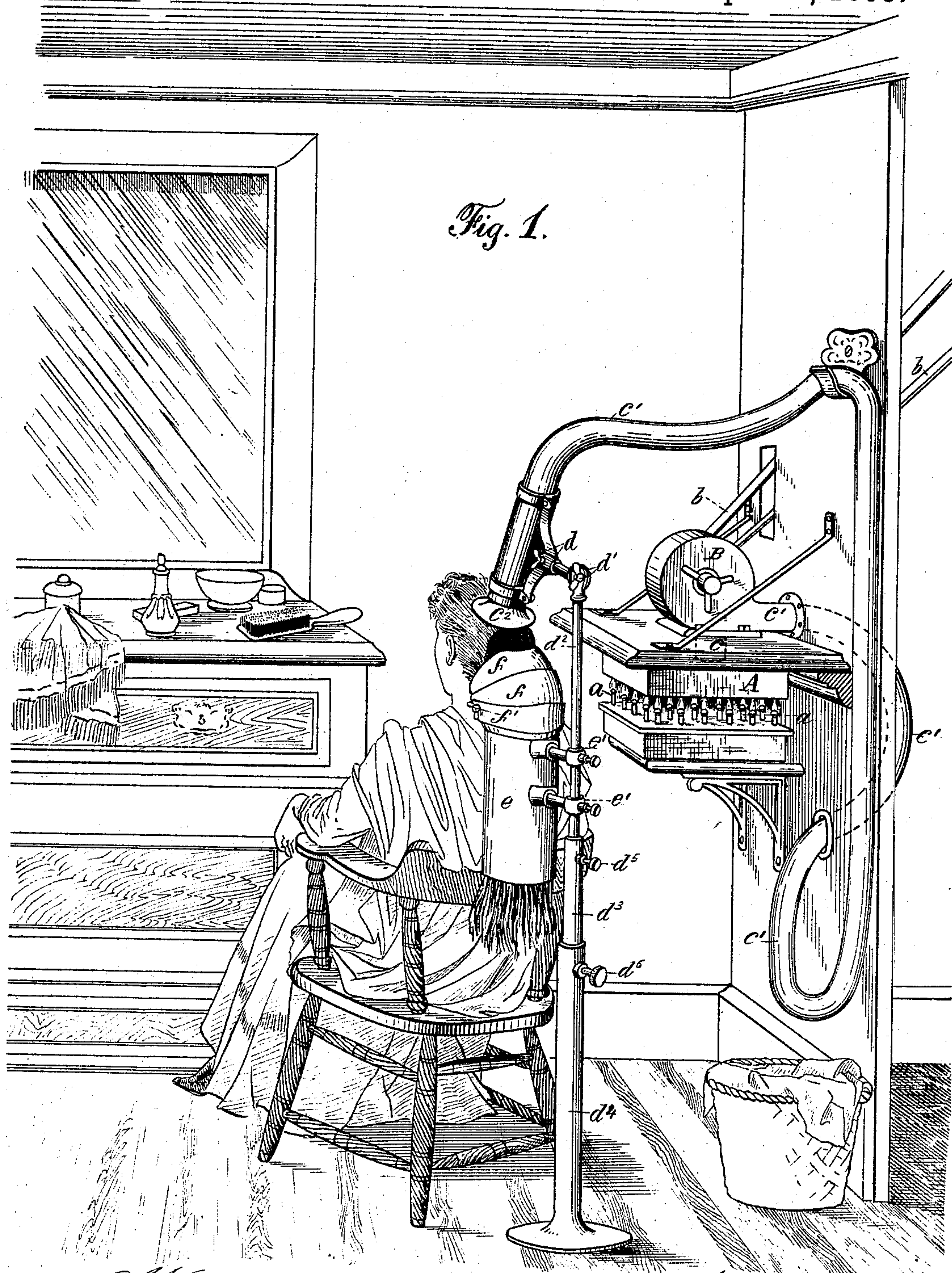
(No Model.)

2 Sheets—Sheet 1.

J. MACHADO.  
APPARATUS FOR DRYING HAIR.

No. 495,558.

Patented Apr. 18, 1893.



*Witnesses.*  
Frederick F. W. Elhaver  
Charles W. Jones.

*Inventor.*  
John Machado  
by Henry Chadbourne  
his Atty.



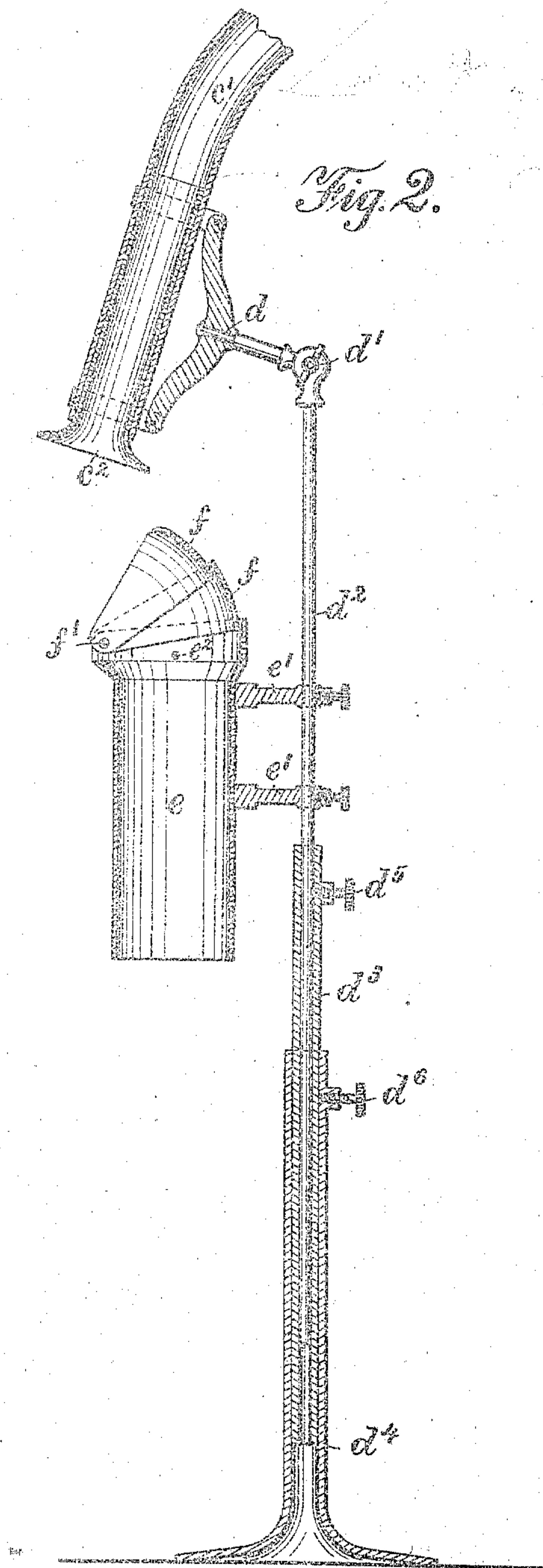
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# UNITED STATES PATENT OFFICE.

JOHN MACHADO, OF BOSTON, MASSACHUSETTS.

## APPARATUS FOR DRYING HAIR.

SPECIFICATION forming part of Letters Patent No. 495,558, dated April 18, 1893.

Application filed June 13, 1892. Serial No. 436,430. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN MACHADO, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Apparatus for Drying Hair; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in apparatus for drying the hair upon a person's head after it had been shampooed or during the process of dyeing or bleaching the hair, and has for its object to facilitate the drying as well as to prevent the snarling of the hair, as is the case when it is dried by rubbing it between towels.

The invention consists in the employment of a suitable air heating device from which the air is either drawn or forced by means of a suitable blower or air pump, through a pipe or tube, and delivered upon the head of the person whose hair is to be dried.

It further consists of a receptacle preferably in the form of a funnel open from end to end, within which the hair is placed and through which the warm air is forced downward from the roots of the hair contained therein to the ends of the same. Also the combination with said funnel of a hood arranged to inclose more or less of the back part of the head, so as to concentrate the heated air and convey it properly to the funnel. Also in minor details of construction, as will be more fully set forth hereinafter, reference being had to the accompanying drawings forming an essential part of this specification, and whereon:—

Figure 1 represents a perspective view of my apparatus in operation while drying a lady's hair. Fig. 2 represents a vertical longitudinal section of the hood and receptacle for holding the hair while it is being dried, with the stand for supporting the same.

Similar letters refer to similar parts on the different parts of the drawings.

A represents a box or other chamber open for the admission of air and in which the air

is heated by a number of gas jets *a a*, or it may be heated by any other and well known means of supplying heat.

B represents a rotary fan exhauster which is driven by means of a belt *b* from any suitable source of motive power, which however, is not shown on the drawings. This fan exhauster causes the heated air within the chamber A to be drawn through the pipe or tube *c* shown in dotted lines in Fig. 1, to the fan B where it is again forced through the pipe or tube *c* and delivered from the mouth piece *c'*, at the end of said tube, upon the head of the person whose hair is to be dried. The tube *c* is made wholly or in part flexible so as to allow it to be moved into different positions and allow the air from it to be delivered at any angle upon the hair to be dried. The end of the tube *c* is supported upon a suitable standard upon which it is made universally adjustable by means of the joints *d d'* so as to be able to adjust the tube and deliver the air in any direction therefrom. These joints can be made rigid by means of suitable set screws after they have been adjusted. The standard is made preferably adjustable up and down to suit different persons, and for this purpose it is formed in two or more sections, *d<sup>2</sup>, d<sup>3</sup>, d<sup>4</sup>*, which are telescoped one within the other and firmly held in their adjusted position by suitable set screws *d<sup>5</sup>* and *d<sup>6</sup>* or by equivalent devices. The flexible tube *c'* is made universally adjustable upon the section *d<sup>2</sup>* as shown and described hereinbefore. Upon the section *d<sup>2</sup>* of the standard is also adjustably mounted the funnel *e* by means of the brackets *e' e'* or by any other well known and equivalent means, and it is held in its adjusted position by means of suitable set screws on said brackets. This funnel is made open from end to end and of sufficient diameter and length to contain the hair to be dried, leaving room for the heated air to pass through the same. To the upper end of the funnel is attached the hood made in one or more pieces *f f* pivoted together and to the funnel at *f'* in such a manner as to be able to turn them on said pivot and to slide the pieces of the hood one within the other when it is not desired for use, but to allow it to be opened more or



less to partly surround the head of the person whose hair is being dried. The mouth-piece  $c^2$  when in use is adjusted into such a position in relation to the hood as to cause the greater  
 5 portion of the heated air forced therefrom to be deflected by coming into contact with the person's head, to enter the hood, and to be guided by said hood downward through the funnel  $e$  in close contact with the hair con-  
 10 tained therein, thus obtaining the greatest effect of the heated air by causing a fresh supply to take the place of the air within the funnel which has become loaded with moisture from the hair. This downward draft of  
 15 the heated air from the roots of the hair toward the ends of the same has a tendency to unsnarl any snarling of the hair and to keep it straight.

It will be obvious that the exact arrange-  
 20 ment shown on the drawings of the different parts constituting my apparatus is not essential to the working thereof, as the same may be varied at will, and, for instance, the fan  $B$  may be arranged so as to force cool air into  
 25 the heated chamber  $A$  there to be heated, and by so doing force the heated air from said chamber through the tube  $c'$  and out of the mouth-piece thereon.

I do not wish to confine myself to the use  
 30 of any particular means for heating the air nor to the particular means employed for conveying the heated air, as said parts might be varied at will, within the scope of mechanical skill, without departing from my invention;  
 35 also the receptacle might be held in the hands of the operator instead of being made adjustable upon a stand.

In order to hold the hair in its proper place within the receptacle to cause the heated air  
 40 to pass through it and prevent it from clinging to the sides of the same, I provide the receptacle with a bridge or rest  $e^3$  which extends across the body of the receptacle and over which the hair passes from the head causing  
 45 the heated air to mingle thoroughly with the hair thus drying it evenly and much more quickly.

Having thus fully described the nature,

construction, and operation of my invention, I wish to secure by Letters Patent and claim— 50

1. In a hair drying apparatus, a funnel open from end to end into which the hair to be dried is placed, combined with a tube located above the funnel through which heated  
 55 air is forced from a source of heated air supply and so arranged as to cause the air discharged therefrom to be deflected by the head of the person whose hair is being dried, downward through said funnel and hair contained  
 60 therein, from the roots of the hair toward the ends of the same, substantially as set forth.

2. In a hair drying apparatus, a funnel open from end to end into which the hair to be dried is placed and a tube located above the  
 65 funnel through which heated air is forced from a source of heated air supply, so arranged as to cause the air discharged therefrom to be deflected by the head of the person whose hair is being dried downward through said funnel  
 70 and hair contained therein from the roots of the hair toward the ends of the same, combined with an adjustable hood upon the funnel to partially inclose the head of the per-  
 75 son whose hair is being dried, to collect the air from the tube and to guide it downward through the funnel and the hair contained therein, for the purpose set forth.

3. In a hair drying apparatus having a receptacle within which the hair is placed to be dried and a tube to convey heated air under  
 80 pressure from which the air is forced through said receptacle and the hair contained therein, the combination, with said receptacle, of a bridge or rest for the hair, arranged within  
 85 the receptacle to properly hold the hair to prevent it from clinging to the sides of the receptacle and to cause the heated air to mingle thoroughly with the hair, in order to dry it  
 90 evenly and quickly, substantially as set forth.

In testimony whereof I hereunto set my hand this 31st day of May, A. D. 1892.

JOHN MACHADO.

Witnesses:

HENRY CHADBURN,  
 CHARLES W. JONES.