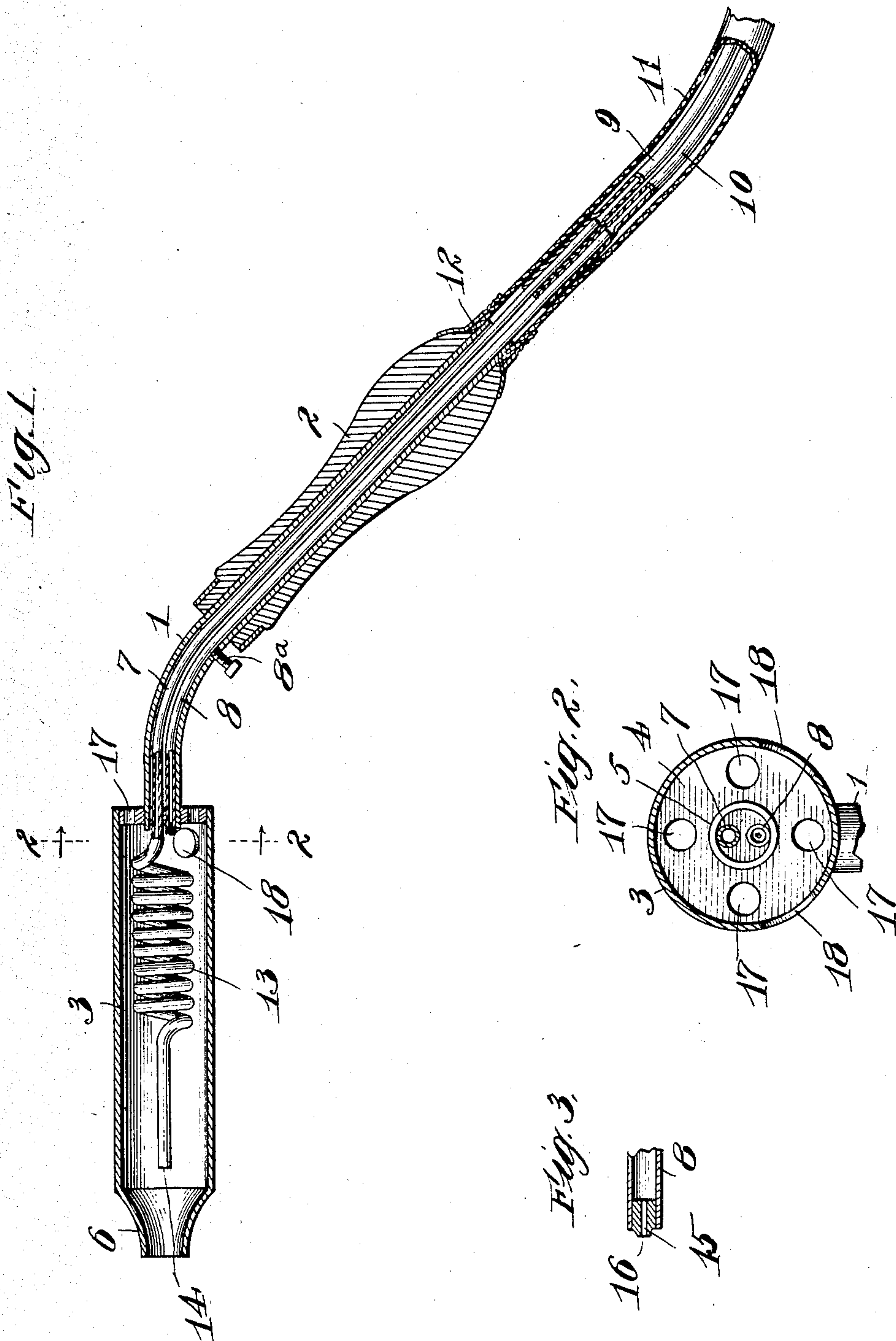


No. 871,182.

PATENTED NOV. 19, 1907.

J. A. PAASCHE.
HAIR DRYING IMPLEMENT.
APPLICATION FILED MAR. 1, 1907.



Witnesses:

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UNITED STATES PATENT OFFICE.

JENS A. PAASCHE, OF CHICAGO, ILLINOIS.

HAIR-DRYING IMPLEMENT.

No. 871,182.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed March 1, 1907. Serial No. 359,971.

To all whom it may concern:

Be it known that I, JENS A. PAASCHE, 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 Implements, of which the following is a specification.

The object of this invention is the production of an efficient and convenient device for heating air or other fluid and for discharging the heated fluid as desired.

The embodiment herein shown is especially intended for heating compressed air, medicated vapors, and the like, and for applying the heated air or vapor to the hair and scalp for drying the same.

In the accompanying drawings, Figure 1 is a central sectional view through an implement embodying the features of my invention. Fig. 2 is a transverse sectional view taken on the plane of dotted line 2 2 of Fig. 1. Fig. 3 is a detail view of the gas jet.

The drawings comprised in this specification illustrate merely one form of apparatus for carrying out my invention.

The apparatus shown in said drawings comprises a tubular stem 1 upon which are rigidly mounted a handle 2 and an air heating chamber 3. The stem 1 is preferably curved so as to dispose the air-heating chamber 3 at such an angle with the handle 2 that the air current flowing from said air-heating chamber may be conveniently directed against the head.

The air-heating chamber 3 is preferably cylindrical, its rear end wall 4 having an axial opening 5 therein in which one end of the stem 1 lies, said chamber and stem being secured with relation to each other by means of a screw-thread connection or in any other suitable manner. The forward end of the air-heating chamber 3 is contracted to form an air outlet 6. The compressed air or other fluid to be heated is conducted to the chamber 3 by means of a metal tube 7, and the fuel burned in heating the fluid is conducted to said chamber through a metal tube 8. The tubes 7 and 8 are rigidly secured in the end of the stem 1 to which the air-heating chamber 3 is secured, and extend through said stem and project from the rear or lower end thereof. Said projecting ends are connected with flexible tubing 9 and 10, preferably by slipping said flexible tubing over the projecting ends of the tubes 7 and 8. The tubing 9 and 10 is inclosed in a flexible cas-

ing 11 of fabric or other suitable material, said casing extending to the handle 2, and the point of the juncture between said casing and said handle being covered by the ferrule 12.

A portion of the air tube 7 within the air-heating chamber 3 is coiled to form a heating coil 13 providing a large area of heating surface. One end of said tube forms a discharge tip 14. In the upper end of the gas tube 8 is fixed a plug 15 having a gas discharge orifice 16 extending therethrough. A plurality of air induction openings 17 is provided in the rear end wall of the air-heating chamber 3. Preferably two openings 18 are formed in the cylindrical wall of said chamber near the rear end thereof and somewhat below the horizontal center thereof, to provide access to the gas burner for lighting it.

In use, the tube 7 is connected with a source of compressed air and the tube 8 with a source of illuminating gas. The gas having been lighted at the discharge orifice 16 and permitted to burn for a time until the heating coil 13 is heated, the compressed air is turned on. The escape of the warmed compressed air from the air discharge nozzle 14 induces a draft through the openings 17 and 18, the air thus drawn into the chamber 3 being warmed and discharged through the air outlet 6 with the compressed air. It will thus be seen that not only is the compressed air heated and employed for the purpose intended, but that air from the room also is heated and discharged into the stream of air flowing from the compressed air supply. The implement is exceedingly compact and light and wholly devoid of mechanism or other parts liable to get out of order.

While I have herein described my invention as embodied in a hair-drying implement, it is obvious that said invention may be employed in various other connections which need not be here enumerated.

I have illustrated and described my improvements in detail in the form at present preferred by me, but I am aware that they are capable of considerable variation in structural details without departing from my invention.

I claim as my invention:

1. A hand-held implement comprising a handle, an air-heating chamber, a fluid container in said air-heating chamber; a burner in said chamber; and means for supplying

fluid to said fluid-containing member and fuel to said burner, said supplying means extending through said handle.

2. A hand-held implement comprising a
5 tubular stem, an air-heating chamber fixed upon one end of said stem, a handle, said stem extending through said handle, a fluid container in said chamber, and a means for heating said container.

10 3. The combination, with a cylindrical chamber having an outlet at one end and an air induction opening at the other, of a heating coil located in said chamber and communicating with said outlet, and a heating de-
15 vice for said heating coil.

4. A hand-held implement comprising a tubular stem; a handle mounted upon said stem; an air-heating chamber fixed at one end of said stem; a fluid-container in said
20 chamber; a device for heating said fluid container, and supply means for said fluid container and said heating device, extending through said stem and said handle.

5. A hand-held implement comprising a

handle, a tubular stem extending through 25 said handle, a cylindrical air-heating chamber having an air outlet at one end and an air induction opening at its other end, said chamber being secured to said stem at the end having said air induction openings, a heat- 30 ing coil in said chamber, a tube extending through said stem and said handle and connected to said heating coil, a burner in said chamber for heating said heating coil, and a fluid supply tube extending through said 35 stem and said handle and communicating with said burner.

6. The combination, with an air-heating chamber having an air induction opening in one end and an air outlet at the other, of a 40 heating coil in said chamber arranged to discharge the heated air through said air outlet; and a burner for heating said heating coil.

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Witnesses:

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