

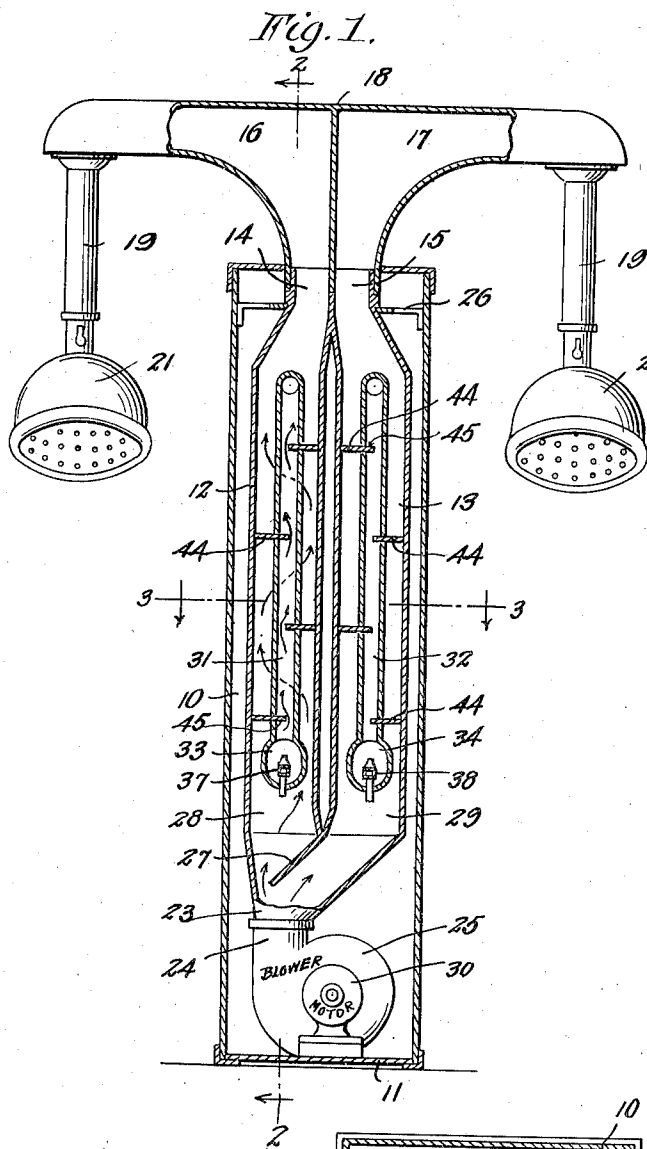
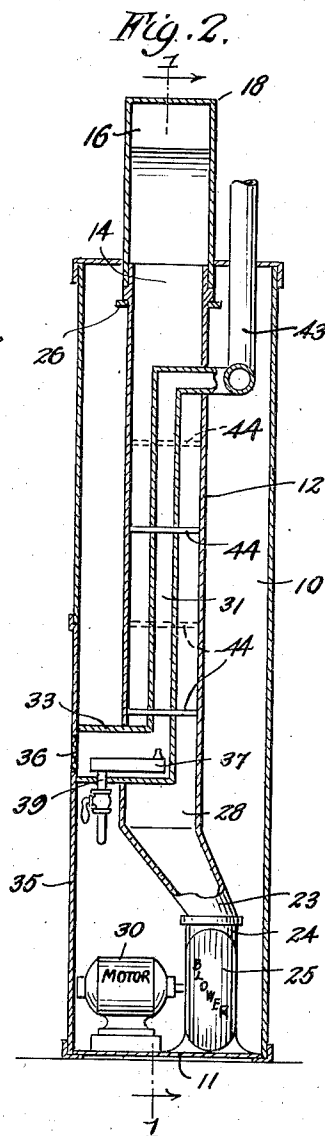
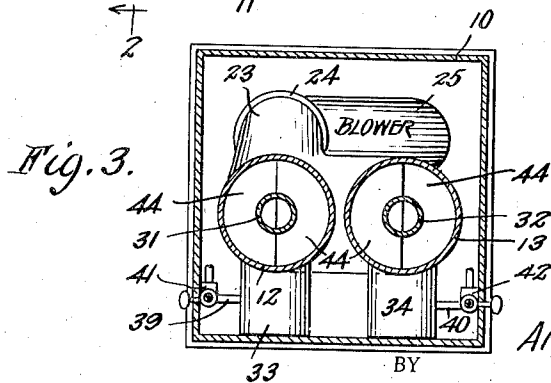
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MULTIPLE HOOD HAIR DRYING APPARATUS

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MULTIPLE HOOD HAIR DRYING APPARATUS

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2 Claims. (Cl. 126—116)

This invention relates to hair drying apparatus employed in hair dressing establishments, beauty parlors or the like, and refers more particularly to an improvement in multiple hood hair drying machines which are preferably of the gas heated type.

The invention broadly comprehends a multiple hood hair drying apparatus including a plurality of air draft conduits with independently controlled means for heating the air passing through each of said draft conduits.

The invention also resides in a hair drying apparatus of the indicated character which includes a plurality of air draft conduits each having communication at one end with a separate hood and a common blower communicating with the other end of said draft conduits together with independently controlled means for heating the air passing through each of said draft conduits.

As a further feature the invention contemplates in a hair drying apparatus of the character set forth, an arrangement of baffle plates common to each draft conduit and heating tube for causing the air draft and the heating medium to travel in tortuous paths so as to derive a maximum heating of the air drafts supplied to the several hoods in proportion to the temperature generated by the heating means.

A still further object of the invention is to provide an air draft generating and heating assembly which is so constructed and arranged that it may be conveniently housed in a casing of minimum size to provide a compact structure, which is not unduly complicated, may be economically produced and which is highly efficient for its intended purpose.

With the above enumerated and other objects in view, reference is now made to the following detailed description, which when taken in connection with the accompanying drawing discloses a preferred embodiment of the invention, while the appended claims cover variations and modifications thereof which fall within the scope of the invention.

In the drawing:

Fig. 1 is a vertical sectional view through a multiple hood hair drying apparatus constructed in accordance with the invention, the same being taken on a plane indicated approximately by the line 1—1 of Fig. 2.

Fig. 2 is a vertical sectional view taken approximately on a plane indicated by the line 2—2 of Fig. 1.

Fig. 3 is a horizontal sectional view taken approximately on the line 3—3 of Fig. 1.

Referring to the drawing by characters of reference, 10 designates a vertically disposed tubular casing having a bottom 11 closing its lower end and open at its upper end. A plurality of vertically disposed air draft conduits are arranged parallel to each other within the casing 10, two being shown in the present instance and respectively designated by the reference characters 12 and 13. The air draft conduits merge at their upper ends into a single structure but each is provided with a separate outlet, the outlets being designated by the reference characters 14 and 15 which communicate respectively with the hollow duct arms 16 and 17 of substantially T-shaped superstructure 18, the arms extending laterally from opposite sides thereof and being provided with depending telescopic pipes 19 and 20, each of which carries and communicates with a dryer hood 21 and 22 at the lower end thereof.

The lower ends of the air draft conduits 12 and 13 are connected with a funnel shape manifold 23 which is in turn attached to and communicates with the outlet 24 of a common blower 25 supported by the bottom 11, the blower casing in turn supporting the manifold 23 and the air draft conduits 12 and 13 which are attached by a brace 26 within and adjacent the upper end of the casing 10.

A baffle 27 is located within the manifold 23 to divert into the lower inlet ends 28 and 29 of the draft conduits in equal proportion of the air draft so that it is properly subdivided and substantially equally distributed to said air draft ducts. The blower 25 is driven in any suitable manner and preferably, as illustrated, by an electric motor 30 which is also supported on the bottom 11 and within the lower end of the casing 10. A heating tube is provided for each air draft conduit, the same being respectively designated by the reference characters 31 and 32. The heating tubes extend upwardly through each draft conduit and are disposed centrally thereof, the lower ends communicating with and being attached to the horizontally disposed heating chambers 33 and 34 respectively, which extend forwardly through the conduits and have open forward ends terminating flush with the inner surface of the removable lower section 35 of a front wall of the casing 10, which section is provided with draft openings 36 registering with the heating chambers 33 and 34. Gas burners 37 and 38 are arranged in the heating chambers 33 and 34 respectively and separate gas supply pipes 39 and 40 lead therefrom to separate control valves 41 and 42 connected with the source

of gas supply. The upper ends of the heating tubes 31 and 32 extend rearwardly through the air supply conduits and are connected with a common vent pipe or flue 43.

- 5 In order to obtain the maximum degree of heat exchange between the heat generated and passing through the heating tubes 31 and 32 and the air draft passing therearound through the air draft conduits 12 and 13, a system of baffle plates 10 is employed which causes the heat units and the air draft to travel in a tortuous path. The baffle plates are designated by the reference character 44 and are disposed perpendicular to the axis of each draft conduit and heating tube and extend 15 alternately inward from opposite sides of each conduit and through the tube approximately to the cross sectional center of the conduit and tube, the tubes being slitted as at 45 to accommodate the baffle plates.
- 20 From the foregoing construction it will be apparent that an improved multiple hair drying apparatus or machine has been devised in which a plurality of air draft conduits lead to and communicate with separate drying hoods, each of 25 which air draft conduits is provided with independently controlled heating means so that the temperature of the air supplied to each hood may be individually regulated. It will be furthermore observed that the air draft to the several 30 draft conduits is equally distributed thereto from a common blower.

What is claimed is:

1. An air heating apparatus of the type which includes a plurality of vertically disposed air draft 35 conduits arranged parallel to each other and each

having an outlet at its upper end, a common blower for said draft conduits communicating therewith at the lower ends thereof; a heating tube disposed centrally of and extending upwardly through each draft conduit, and independently controlled heating means at the lower 5 end of each heating tube for separately regulating the temperature of the air draft supplied to each draft conduit, and baffle plates disposed perpendicular to the axis of each conduit and tube 10 and extending alternately inward from the inner surface of each conduit and through the heating tube approximately to the cross sectional center of the conduit and tube.

2. An air heating apparatus including an air 15 draft conduit having a vertically arranged portion formed with an outlet at one end and communicating at the opposite end with a blower; means for heating the air draft passing through said conduit comprising a heating tube extending axially of and disposed centrally within the 20 vertically arranged portion of the conduit, a lateral outlet at the upper end of said heating tube protruding through the conduit and connected with a flue, a heating chamber communicating with the lower end of the heating 25 tube and extending therefrom laterally outward through the conduit, a burner within said chamber, and vertically spaced baffle plates disposed perpendicular to the axis of the conduit and tube, 30 and extending alternately inward from the inner surface of each conduit and through the heating tube approximately to the cross sectional center of the conduit and tube.

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