

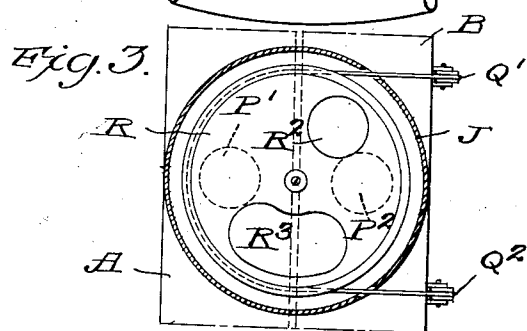
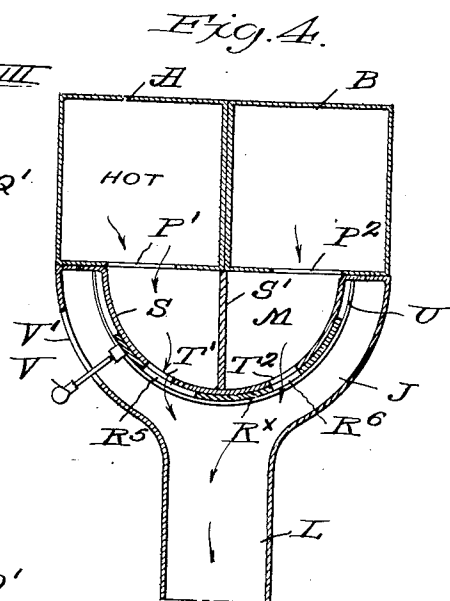
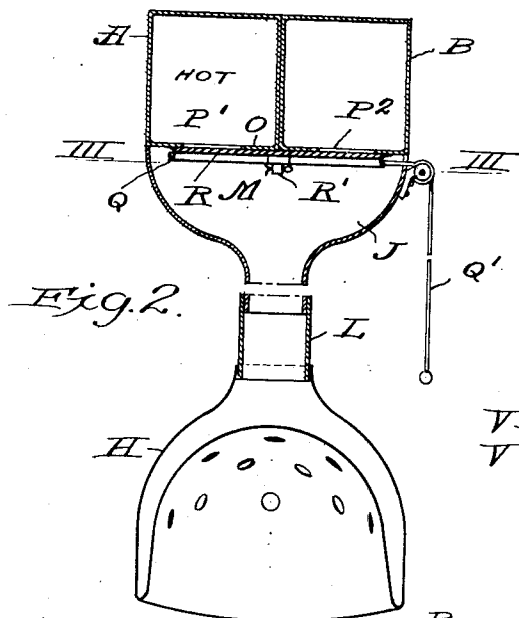
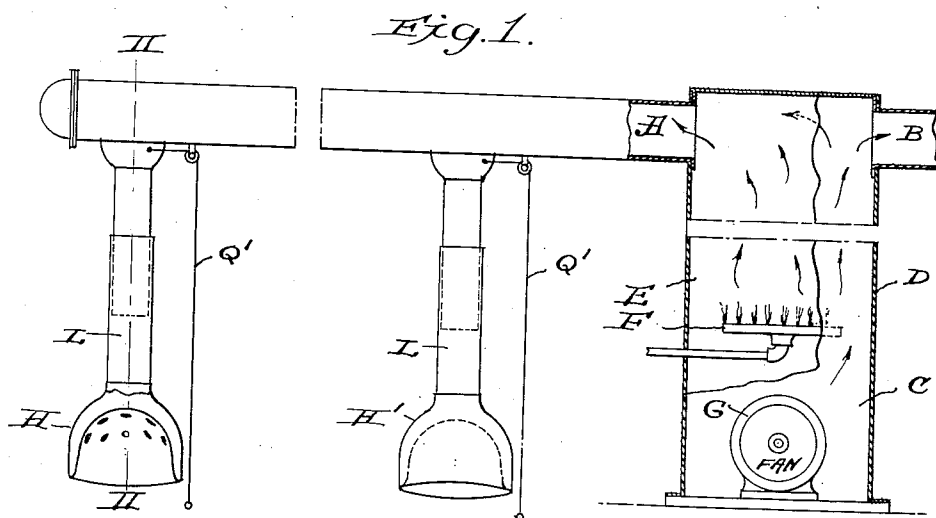
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MULTIPLE SERVICE HAIR DRIER OR THE LIKE

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MULTIPLE SERVICE HAIR DRIER OR THE LIKE

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This invention relates to multiple service hair driers or the like, and provides improvements therein.

This invention provides improved apparatus of the kind in which air is supplied to a plurality of hoods, or other devices for delivering air, from a plurality of feeder ducts.

By the present invention means are provided for regulating the flow from the several feeder ducts to each of the individual hoods or delivery devices. The invention provides means whereby one or more of the hoods may be cut off from the feeder ducts irrespective of the location of the hoods, and it also provides means whereby the temperature of the air flowing to any one or more of the hoods may be regulated independently of the temperature of the air flowing to any one or more of the other hoods.

The invention provides a novel combination of the parts of a multiple service hair drier, by which the supply of air to each of the hoods is independently regulated by means which are simple and economical, and well adapted for the flexibility of the operation required.

Two embodiments of the invention are illustrated in the accompanying drawing wherein:

Fig. 1 is a view partly in longitudinal elevation and partly in longitudinal section, of a multiple service drier provided with a central blower.

Fig. 2 is a transverse vertical section on the line 2—2, Fig. 1.

Fig. 3 is a horizontal sectional view on the line 3—3, Fig. 2.

Fig. 4 is a transverse sectional view similar to Fig. 2, showing a second embodiment of the regulating means.

Referring to said drawing, A designates one feeder duct and B another feeder duct. These feeder ducts may be in communication with a supply of air of any suitable kind as for example a central blower C. In the arrangement illustrated the central blower C is constructed and arranged to supply heated air to the feeder duct A, and air at room temperature or thereabouts (referred to hereinafter for brevity as "cold" air) to the duct B. The central blower as shown comprises a housing D divided by a partition E, the space on one side of the partition communicating with the duct A and that on the other side communicating with the duct B. A heater F of any suitable description may be placed in the housing on one side of the partition F. The heat supplied to the air on each side of the partition F may be arranged as desired, the means illustrated being in one arrangement. A fan or fans G serves

to produce a flow of air in the feeder ducts A and B.

H, H¹, etc. designate a plurality of hoods each of which is used in communication with an individual head on which the hair is to be dried. The hoods may be of conventional construction, and any other suitable type of device for delivering air onto a head or other part of the body may be used.

J designates an air mixing device or chamber. One of these chambers is provided for each hood, and is connected with each of the hoods in suitable manner, as by means of tubes L, which tubes may be made of telescoping parts, to provide for height adjustments.

M designates means for regulating the flow from each of the feeder ducts A and B to the mixing chambers J.

Referring to Figs. 2 and 3 the common walls O between the feeder ducts A and B and the chambers J are provided with openings P¹, P². Within each chamber J is a slide R shown in these figures as a disc pivoted as indicated at R¹ and having openings R², R³ therein arranged in certain positions of the pivoted slide R to register with the openings P¹, P². Suitable means for turning the pivoted slide R, are provided. As shown these means comprise a cord Q running around the periphery of the disc R and having ends Q¹, Q² which extend through small openings in the chamber J and hang down in reach of the user or attendant.

The openings P¹, P², R², R³ may be arranged in such a manner as to close off entirely the two feeder ducts from the chamber J; to open the chamber J to one or the other feeder ducts A, B; to simultaneously open the feeder ducts, to increasing degrees, to the chamber J; and to increase the amount of opening to one feeder duct while the other feeder remains fully open to the chamber J. As here shown the opening R³ is made longer in its direction of travel than the opening R². By turning the pivoted slide R in a clockwise direction from the position shown in Fig. 3 the openings P¹ and P² will be simultaneously opened to increasing degrees until both openings P¹ and P² are fully opened. By continued turning of the pivoted slide R one of the openings, as for example the opening P² will be partly closed while the other opening P¹ remains fully opened. By further continued turning of the pivoted slide R the opening P² will be fully closed while the opening P¹ remains fully opened.

Referring to Fig. 4, the inner wall S of the chamber J has a semi-cylindrical shape. The

space within the cylindrical wall S is open to the feeder ducts A and B respectively through the openings P¹, P². The space within the cylindrical wall S is divided by a partition S¹ between the openings P¹, P². The cylindrical wall is provided with openings T¹, T² on each side of the partition S¹, into the chamber J. R^x designates the slide for controlling the passage through the openings T¹, T², the slide having a contour corresponding to the contour of the semi-cylindrical wall S and is movable in a similarly shaped groove U. The slide R^x is provided with openings R⁵, R⁶ which function similarly to the openings R², R³ as heretofore described. Openings T¹, T², R⁵, R⁶, may be arranged to function in the same way as the openings in the embodiment shown in Figs. 2 and 3, regarding the controlling and mixing of air from the feeder ducts A and B to and in the chamber J. Sliding movements of the slide R^x may be effected by means of the handle V which extends outside of the chamber J through a narrow slot V¹.

The invention may receive other embodiments than those herein specifically illustrated and described.

What is claimed is:

1. A multiple-service drier, comprising a plurality of feeder-ducts for air, a plurality of chambers outside of said feeder-ducts, openings from each of said feeder ducts into said chambers, means for controlling the openings from the feeder ducts into each chamber, a tube leading from each chamber, and an air-delivery hood on each tube, said chambers having a greater cross-sectional area than the tubes and receiving the air, after passing said controlling means,

flowing from said openings before it passes into said tubes, said means for controlling the flow through said openings comprising a slide positioned across the axis of said tube and having portions for closing both of said duct-openings at one time and having openings therein arranged to uncover both of said duct-openings at one time, one of said slide-openings being longer in the direction of its movement than the other opening therein so that one duct-opening may remain fully open while the area of the other duct-opening is being varied.

2. A multiple-service drier, comprising a plurality of feeder-ducts for air, a plurality of chambers outside of said feeder-ducts, openings from each of said feeder ducts into said chambers, means for controlling the openings from the feeder ducts into each chamber, a tube leading from each chamber, and an air-delivery hood on each tube, said chambers having a greater cross-sectional area than the tubes and receiving the air, after passing said controlling means, flowing from said openings before it passes into said tubes, said means for controlling the flow through said openings comprising a slide positioned across the axis of said tube and having portions for closing both of said duct-openings at one time and having openings therein arranged to uncover both of said duct-openings at one time, said chamber comprising a semi-circular inner wall having duct-openings therein, a partition separating the space within said semi-circular inner wall on each side of said duct-openings, and said slide having a curvature corresponding to said semi-circular inner wall.

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