

May 21, 1957

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2,792,985

FAN HAVING ADJUSTABLE DIRECTIONAL AIR CONTROLS

Filed Oct. 20, 1955

FIG. 1.

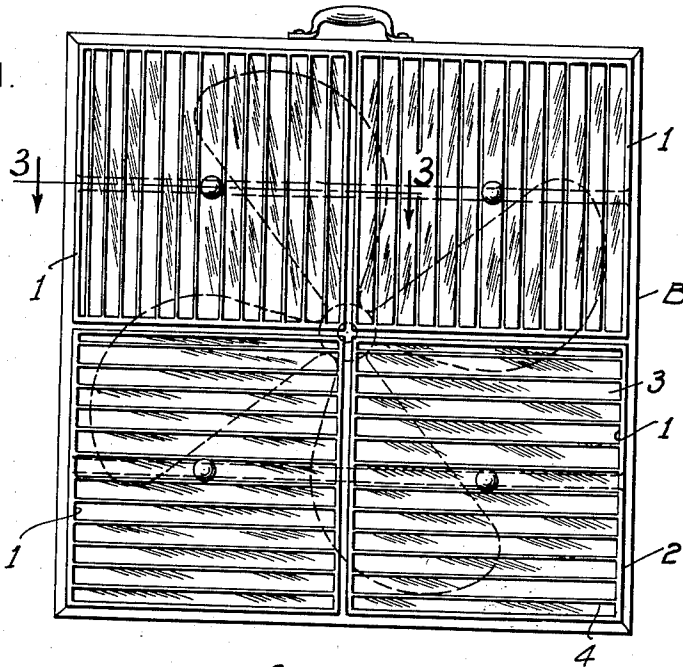


FIG. 2.

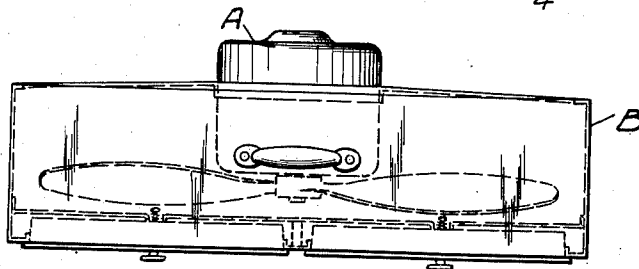
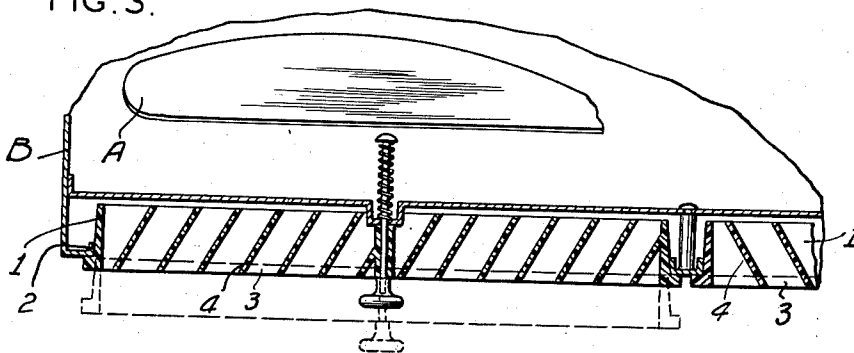


FIG. 3.



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FAN HAVING ADJUSTABLE DIRECTIONAL AIR CONTROLS

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Application October 20, 1955, Serial No. 541,808

1 Claim. (Cl. 230—274)

This invention relates to electric fans generally, and more especially to those of medium and large sizes adapted to discharge air into predetermined areas, and the fans being of the non-oscillating type.

Although such fixed-direction of air discharge fans generate sufficient volume of air discharged into the room, yet the positioning of the occupants of the room is often such that very few of them actually are in the path of such air discharge, and hence remain uncomfortable.

The principal object of my invention is to so construct such a fan assembly, that although the direction of air flow is initially in a fixed direction, manually adjustable deflectors are mounted adjacent the discharge side of the assembly so that said air may be deflected in various directions.

Another object of the invention is to provide such a construction wherein, the air flow stream may be broken into component portions, any such portion being deflectable independently of the other portions.

A further object of my invention is to so construct a fan assembly, wherein the fan blades rotate within a casing that has a substantially imperforate face at the air discharge side, and with louvered sections provided on said casing face, so that the air must discharge through said sections, and said sections being rotatably adjustable independently of one another to direct various portions of the air stream as desired.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art to which this invention appertains, as will be more clearly set forth in the following description.

In the drawings, wherein like reference characters represent like or corresponding parts throughout the views,

Figure 1 is a front elevation of the device;

Figure 2 is a top plan view of the same; and

Figure 3 is fragmentary cross-sectional view of the device, taken substantially along the line 3—3 of Fig. 1.

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Referring more particularly to the drawings, wherein I have illustrated the preferred embodiment of the invention, A indicates a motor-driven electric fan of the type having a fixed direction rotational axis, or in other words the fan is not of the oscillating type.

The fan is generally of medium or large size so as to move a generous quantity of air, and is encased in a casing B, shown as being of prismatic shape herein, with its front wall substantially imperforate except for a plurality of louvered sections 1, so that the air stream from said fan is compelled to discharge only through said sections.

Each of said sections has a series of parallel openings 3 thereacross, with the louvers 4 bounding said openings and tilted at an angle to the general plane of the said front wall of the casing.

Each of said sections fits into a large opening 2 through said front wall, so as to form a closure therefor, and is held resiliently seated by any suitable means such as a spring or the like, but is manually rotatably adjustable so that the air passed therethrough can be deflected upwardly or downwardly, or to either side in passing.

With such control sections, it is possible to deflect all or one or more portions of the air body discharged by said fan, so as to reach persons in far corners of the room or those positioned above or below the fan axis, and thereby make efficient use of all of the air flow.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence, I do not wish to be understood as limiting myself to the exact form, arrangement, combination and construction except as limited by the state of the art to which this invention appertains, and as set forth in the claim hereunto appended.

I claim:

A fan casing having a substantially square discharge opening, a fan mounted therein with its axis of rotation at the center of said opening, four substantially square louvered elements independently and rotationally adjustable in said opening and having their junction substantially on the axis of rotation of said fan, whereby the air discharged from said fan may be variably deflected.

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