

Dec. 14, 1926.

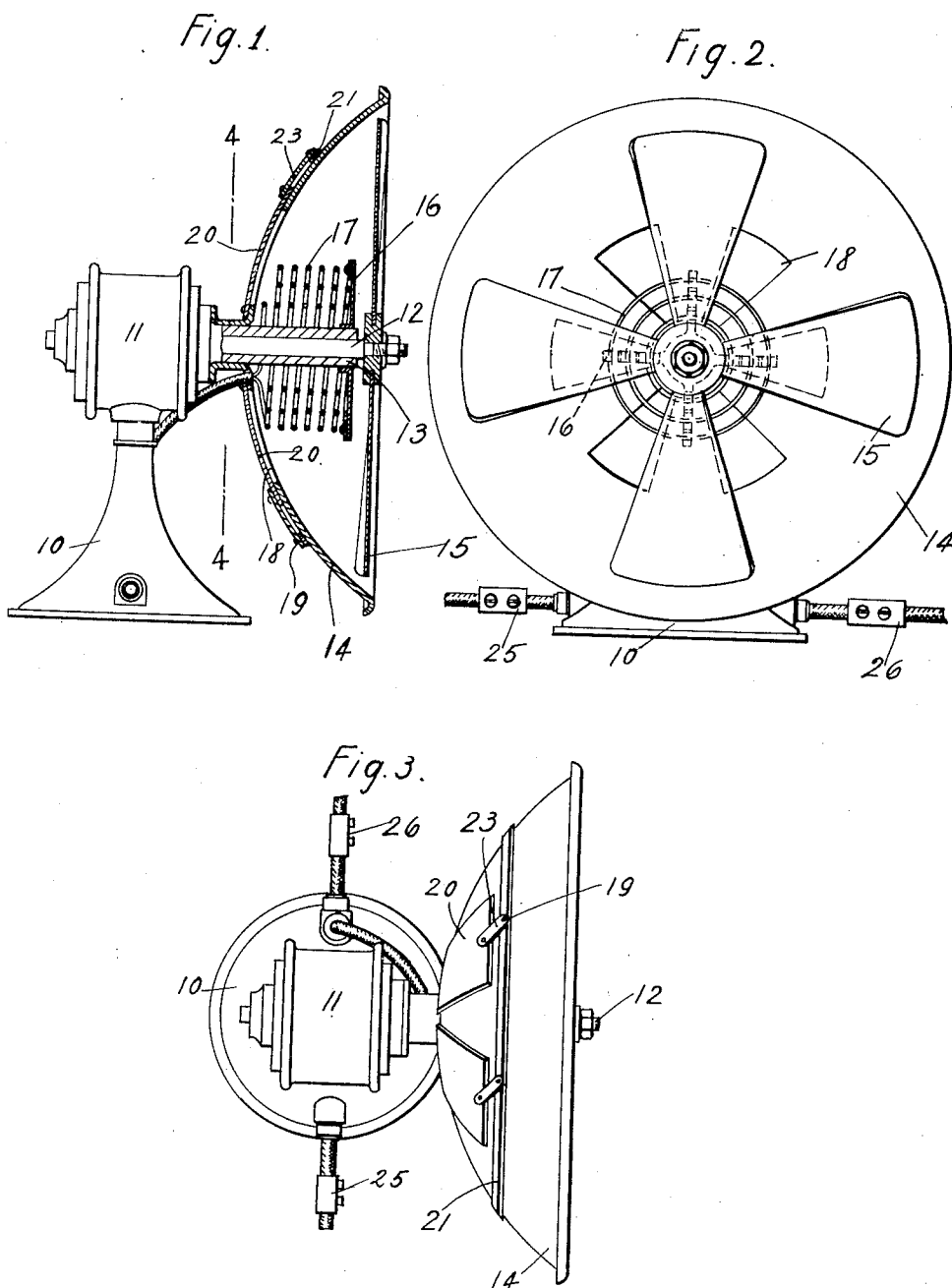
W. J. LASSONDE

1,611,049

COMBINED FAN AND HEATER

Filed June 25, 1924

2 Sheets-Sheet 1



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WITNESS:

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Fig. 4.

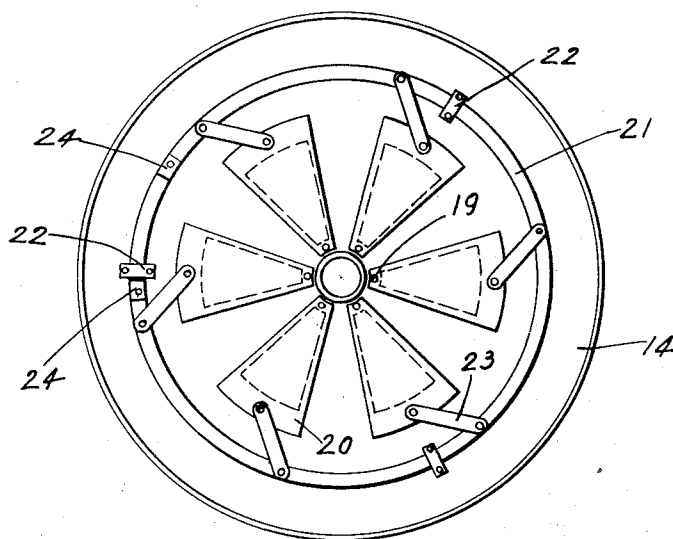
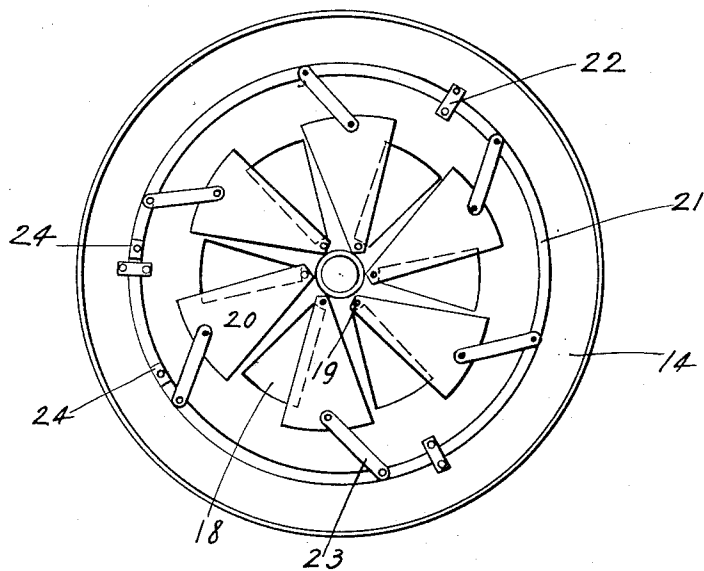


Fig. 5.



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UNITED STATES PATENT OFFICE.

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COMBINED FAN AND HEATER.

Application filed June 25, 1924. Serial No. 722,371.

This invention relates to improvements in temperature controlling devices and has for an object the provision of a combined electric fan and electric heater which is useful for either cooling and ventilating a room or for heating purposes, the device being capable of drawing fresh air into a room and forcing the said air inward in heated condition.

Another object of the invention is the provision of a combined electric fan and electric heater which is simple and compact in construction and which is provided with means whereby the same may be adjusted to regulate the amount of air distributed by the fan.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—

Figure 1 is an elevation partly in section showing a combined electric fan and heater constructed in accordance with the invention.

Figure 2 is a front view of the same.

Figure 3 is a top plan view.

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 1.

Figure 5 is a view similar to Figure 4 showing the pivoted closures in open position.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the invention is shown as comprising a base or pedestal 10 upon which is mounted an electric motor 11, the shaft 12 of which extends outward for an appreciable distance and is surrounded by a sleeve or housing 13. Mounted upon this sleeve or housing 13 is a substantially cup-shaped member 14 and secured upon the shaft 12 within the cup-shaped member 14 is a fan 15.

Secured to the outer end of the sleeve or housing 13 are radially extending arms 16, while secured to these arms, and surrounding the sleeve or housing 13 is a resistance coil or heating element 17.

The cup-shaped member 14 is provided with spaced radially extending openings 18, while pivotally secured to the member 14 as indicated at 19 are plates 20 which are adapted to be moved pivotally to cover and uncover the openings 18,

For this purpose the member 14 has slidably and rotatably mounted thereon an annulus 21, the latter being guided through spaced straps or guides 22. This annulus is connected to the plates or closures 20 by links 23, so that when the annulus is rotated the plates may be moved to cover or uncover the openings as shown in Figures 4 and 5 of the drawings. Movement of the annulus in either direction is limited by stops 24 which are adapted to engage one of the straps 22.

Separate switches 25 and 26 are provided for controlling the motor of the fan and for controlling the heating element 17. This permits of the invention being used as a fan, or as a heater, or the fan and heating element both may be used at the same time. This provides means whereby the fan may be operated to lower the temperature of a room, or the heater operated to increase the temperature. In addition, the invention may be placed within a window or other opening and the fan and heater simultaneously operated so as to draw fresh air inward and to force the same into the room in heated condition, the amount of air passing over the heating element being controlled by the plates or closures 20.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention what is claimed is:—

A combined electric fan and heater comprising a support, a motor mounted thereon and provided with a shaft of an appreciable length, a housing surrounding the shaft, a cup-shaped member mounted upon the housing and having openings therein, a fan secured upon the shaft within the cup-shaped member, a heating element within the cup-shaped member behind the fan, closures pivotally mounted upon the cup-shaped member, an annulus mounted for rotary sliding movement upon said member and links connecting the closures and annulus whereby movement of the latter will move the closures to cover and uncover the openings, thereby regulating the temperature of the heat from the heater.

In testimony whereof I affix my signature.
WALTER J. LASSONDE.