

March 14, 1944.

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2,344,309

AIR TRANSLATING APPARATUS

Filed June 20, 1941

2 Sheets-Sheet 1

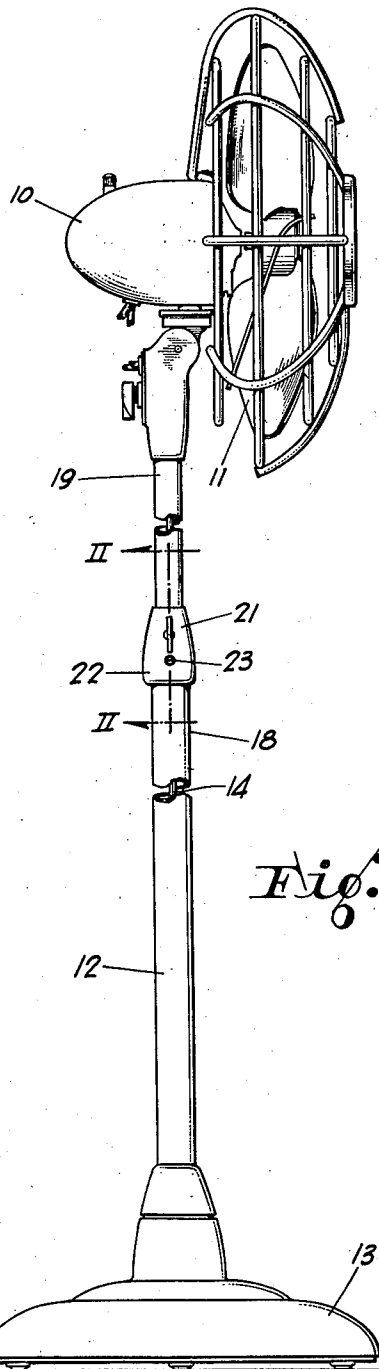


Fig. 1.

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2 Sheets-Sheet 2

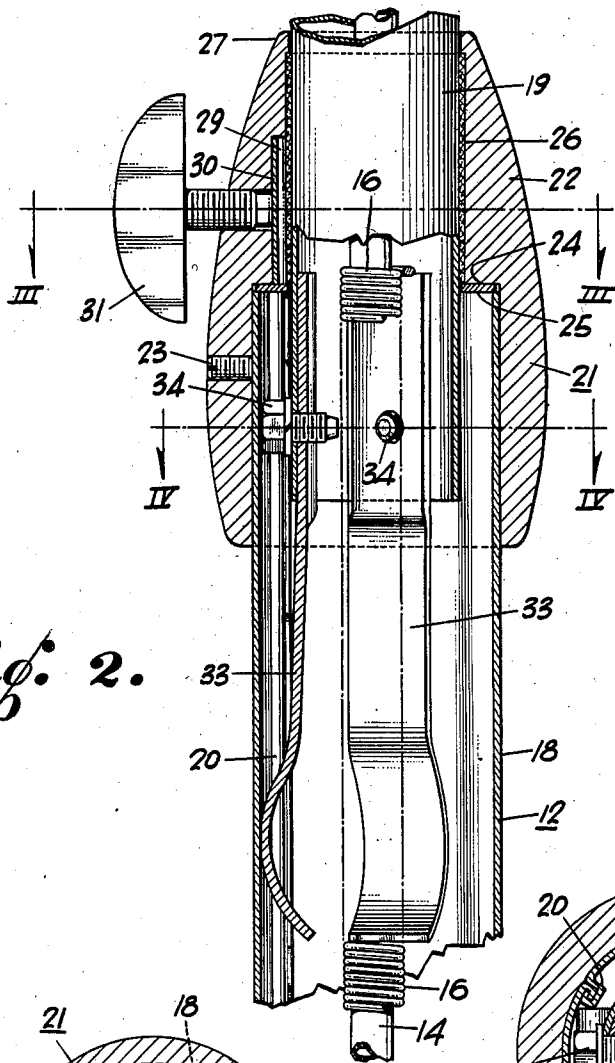
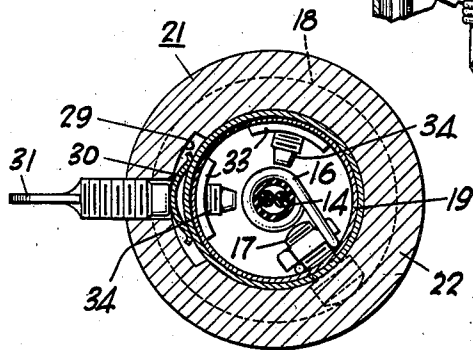


Fig. 2.



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Fig. 3.

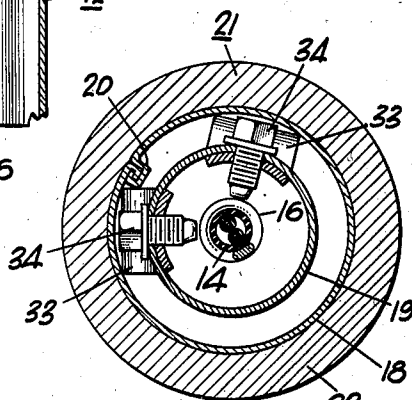


Fig. 4.

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2,344,309

AIR TRANSLATING APPARATUS

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Pennsylvania.

Application June 20, 1941, Serial No. 398,863

2 Claims. (Cl. 248—161)

This invention relates to a supporting structure for air translating apparatus, and has for an object to provide an improved structure of this type.

A further object of the invention is to provide an improved adjustable support for a fan.

A still further object of the invention is to provide improved means for permitting adjustment of a support for a fan.

A still further object of the invention is to provide a structure of improved appearance for adjustably supporting a fan, which structure may be economically manufactured.

These and other objects are effected by the invention as will be apparent from the following description and claims taken in connection with the accompanying drawings forming a part of this application, in which:

Fig. 1 is a side elevation of a fan of the pedestal type embodying the invention;

Fig. 2 is a partial section taken approximately along line II—II of Fig. 1;

Fig. 3 is a section taken along line III—III of Fig. 2; and,

Fig. 4 is a section taken along line IV—IV of Fig. 2.

Referring specifically to the drawings, Fig. 1 shows a pedestal or floor-mounted type of fan embodying the invention. This fan includes a motor 10, air translating blades 11 driven thereby and a substantially vertical adjustable supporting column 12 having a base 13.

Conductors 14 and a plug 15 are provided for connecting the motor 10 to a suitable source of power. The conductors 14 enter the base 13 and extend upwardly through the column 12 to the motor 10. These conductors are protected at those points where it is possible that the insulation may become damaged by friction against the column 12 and the base 13 by a spring armoring device 16. This device is attached at its lower end to the base 13 and its upper end is fastened to the column 12 by a bolt 17.

The column 12 includes a lower tubular member 18 having a spline 20 therein provided by the seam that forms the tube and an upper tubular member 19 telescopically adjustable in the lower member. The members 18 and 19 usually have a tin or chrome or some other bright finish thereon.

A clamping device indicated generally by the reference numeral 21 is provided for clamping the members 18 and 19 of the column 12 in adjusted position. This clamping device includes a tubular metal collar 22 which surrounds a por-

tion of both the lower tubular member 18 and the upper tubular member 19 of the column and it is fastened to the lower tubular member 18 with a set screw 23. This collar has a shoulder 24 on its inside which holds a plate or washer 25 in position on the upper end of the lower member 18 of the column. A fibre sleeve 26 is positioned between the collar 22 and the upper tubular member 19 of the column and it serves to prevent scratching or otherwise marring of the bright finish of the upper tubular member 19 by rubbing against the metal collar 22 when it is lowered into the lower tubular member 18.

This sleeve is held in position by the washer 25 and a bead or lug 27 at the upper end of the collar 22. A recess or slot 29 is provided in that portion of the collar 22 that surrounds the upper tubular member 19. A leaf spring 30 is positioned in this recess or slot 29 and a wing nut 31 is provided for applying a force to the spring 30 to force it against the sleeve 26 and clamp the upper tubular member 19 in adjusted position.

Two leaf springs 33 are attached to the lower end of the upper tubular member 19 at points approximately 104° apart on the circumference of the upper tubular member by screws 34. These springs are positioned on opposite sides of the spline 20 on the inside of the lower tubular member 18 and when the upper tubular member 19 is turned they abut against the spline 20 and prevent complete rotation of the upper tubular member, that is, they permit turning of the upper tubular member 19 through a partial revolution but prevent complete rotation of the same, which might twist off the electrical conductors 14. The springs 33 also bear against the inside of the lower tubular member 18 and serve as a friction brake to prevent a free drop of the fan when the column 12 is being adjusted.

From the foregoing description taken in connection with the drawings, it is seen that this invention provides an improved fan support embodying improved means providing adjustment of the support. It also provides a fan support of improved appearance which may be economically manufactured.

While I have shown my invention in but one form, it will be obvious to those skilled in the art that it is not so limited, but is susceptible of various changes and modifications without departing from the spirit thereof, and I desire, therefore, that only such limitations shall be placed thereupon as are specifically set forth in the appended claims.

What I claim is:

1. In an adjustable support for a fan including an electric motor and fan blades driven thereby, the combination of a substantially vertical column, said column including a tubular portion and a second portion telescopically adjustable in said tubular portion and rotatable therein, a collar connected to said tubular portion and surrounding a portion of said second portion, said collar having a recess therein located adjacent said second portion, a fibre member between said collar and said second portion to prevent injuring the surface of said second portion when it is adjusted, a resilient member located in said recess in said collar and bearing against said fiber member, and means for applying pressure to said resilient member to cause it to hold said second portion in adjusted position.

2. In an adjustable support for a fan including an electric motor and fan blades driven thereby, the combination of a substantially vertical column, said column including a tubular portion and a second portion telescopically adjustable in said tubular portion, a collar connected to said tubular portion and surrounding a portion of said second portion, said collar having a recess therein located adjacent said second portion, a fibre member between said collar and said second portion to prevent injuring the surface of said second portion when it is adjusted, a bowed resilient member located in said recess in said collar, and means for applying pressure to said resilient member to cause it to bear against said fibre member and hold said second portion of said column in adjusted position.

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