

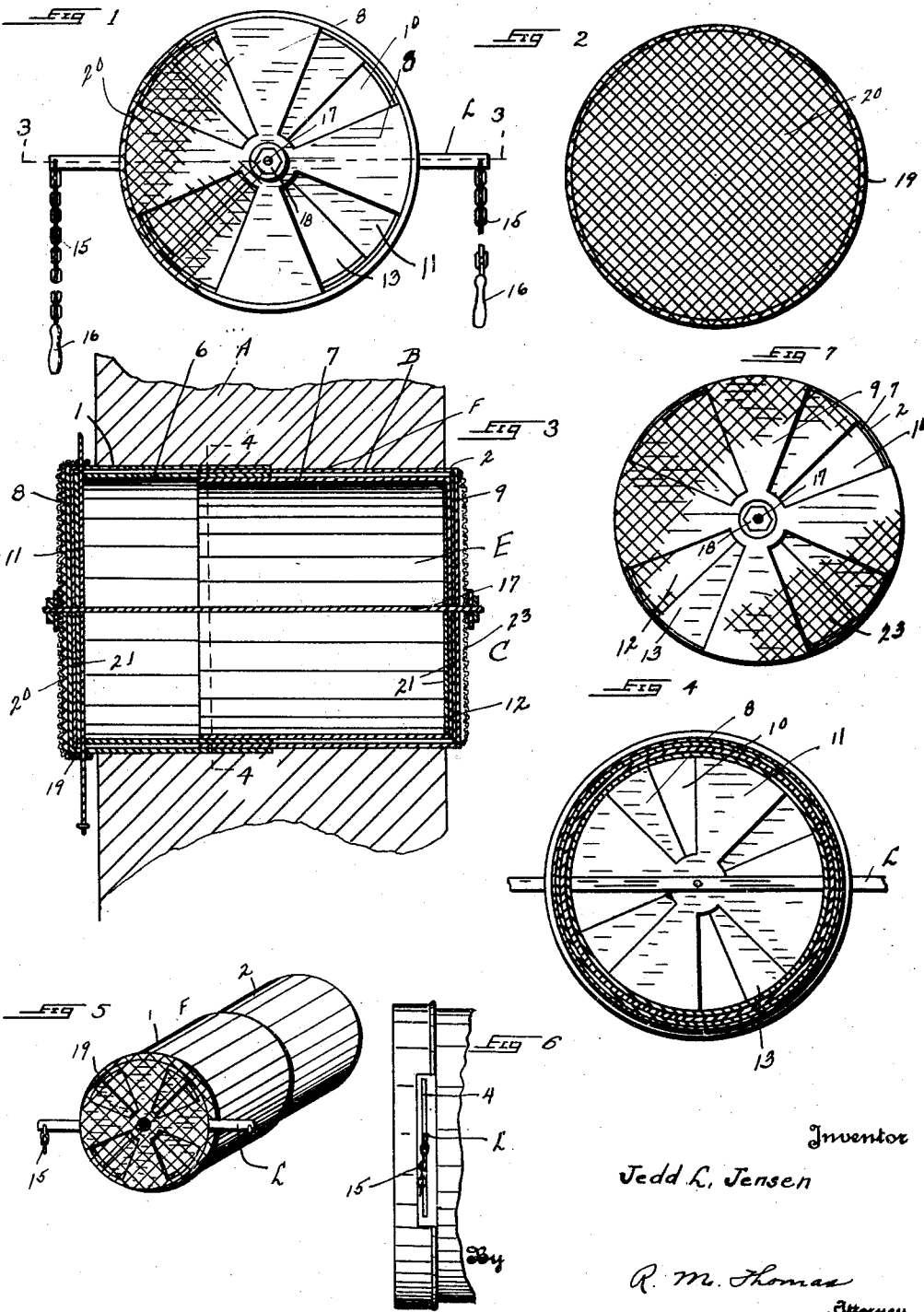
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J. L. JENSEN

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VENTILATOR

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## UNITED STATES PATENT OFFICE

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## VENTILATOR

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My invention relates to ventilators and has for its object to provide a new and efficient device for ventilating rooms through the outer wall of the room so that air from within the building may be admitted to the room.

A further object is to provide a room ventilator which will be economical to manufacture, easily installed and efficient when installed.

A still further object is to provide a ventilator which may be insulated when necessary for use in cold climates and which ventilator may be operated by anyone in the room allowing just the necessary amount of air to enter the room.

A still further object is to provide a ventilator adapted to be controlled from within the room to carry the foul air from the room or to ventilate from room to room, or through the walls of buildings as desired.

These objects I accomplish with the device illustrated in the accompanying drawings in which similar numerals and letters of reference indicate like parts throughout the several views and described in the specification forming a part of this application and pointed out in the appended claims.

In the drawings in which I have shown the best and most preferred manner of building my invention, Figure 1 is front elevation of my ventilator. Figure 2 is a front view of the screen used thereover. Figure 3 is a section on line 3—3 of Figure 1. Figure 4 is a section on line 4—4 of Figure 3. Figure 5 is a perspective view of the ventilator. Figure 6 is a section of the end of the ventilator showing the slots in which the control lever operates. Figure 7 is a rear end view of the ventilator.

In the drawings I have shown the wall of the building as A, and through which I form a cylindrical hole B. Into the hole B, I then insert my ventilator C and secure it by cement, plaster or other suitable material, or the ventilator may be built directly into the wall A when the wall is being built.

The ventilator C is made of an inner shell E and an outer shell F, which outer shell is made of two cylindrical members 1 and 2 telescoped one within the other with slots 4 cut in

the shell member 1 adjacent the end thereof in which an operating lever L may be actuated. The inner shell E is made of two telescoping cylindrical members 6 and 7 of sufficiently smaller diameter than the outer shell to allow for partial rotation therewithin. The ends of the cylindrical members 1 and 2 of the shell F are provided with segment or shutter ends 8 and 9 respectively, said ends being formed with openings 10 cut therein and the ends 11 and 12 of the cylindrical members 6 and 7 are formed similarly with cuts 13 therein, the cuts 13 to be rotated with the shell E to open or close the cuts 10 in the shell F, the solid segments of the ends 6 and 7 adapted to close the openings 10 to shut off all ventilation or to partially close the openings for partial ventilation. An operating lever L is secured through the member 6 and out of the slots 3 and 4 of the cylindrical member 1. Chains 15 are suspended from each end of the lever L with handles 16 on the lower free end thereof, by which the lever L may be actuated. A central shaft or pivot bolt 17 is passed centrally through the entire assembly and holds the device together by nuts 18 screwed onto the ends thereof.

A screen cap ring 19 carrying a screen 20 is provided for the inner end of the room end of the ventilator to keep insects from the room and a screen 23 is secured to the outer free end of the member 2 of the outer shell F to prevent insects from entering the ventilator and to keep birds or rodents from building nests therein. The central bolt 17 is passed through the screen and the nuts 18 hold washers 17a against the screen to aid in holding the assembly intact. Pads of insulation 21 are provided between the two ends of the members 1 and 6 and between the ends of the members 2 and 7 to prevent cold from entering the room through the device when it is closed when necessary.

It will be obvious that a cross horizontal plate or partition may be placed within the device to separate the currents of air entering and leaving the room through the ventilator so as to provide for more free motion of the air without friction of currents of air moving in opposite directions. The cold air

will enter through the bottom of the device and the warm air will leave from the top side thereof.

The operation of my invention is as follows:—

5 The ends of the device may be entirely closed by pulling down on one of the handles 6 closing the plates of the cylinders 6 and 7 over the openings 10 of the cylinders 1 and 2. The other handle may then be pulled  
10 down the desired amount to allow air to pass through the ventilator, opening the holes in the end either fully or partially as necessary for complete ventilation of the room.

15 Having thus described my invention I desire to secure by Letters Patent and claim:—

1. In a ventilator the combination of two telescoping cylindrical members having the outer end of each closed with openings there-  
20 through; another set of similar telescoping cylindrical members carried therein having openings in the ends thereof adapted to be partially rotated into alignment with the openings in the first members as desired.

2. In a ventilator the combination of two  
25 telescoping cylindrical shells, one operating within the other; openings in both ends of each shell; a lever secured in the inner shell and operating in slots in the outer shell, the lever to rotate the inner shell within the out-  
30 er shell to bring the openings in the ends of the inner shell in alignment with those in the outer shell to allow passage of air there- through as desired.

3. In a ventilator the combination of two  
35 cylindrical shells, one operating within the other; openings in both ends of each shell; a lever secured in the inner shell and operating in slots in the outer shell, the lever to rotate the inner shell within the outer shell.  
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4. In a ventilator the combination of two cylindrical shells, one operating within the other; openings in both ends of each shell; and means to rotate the inner shell within the  
45 outer shell to align the openings.

In testimony whereof I have affixed my signature.

JEDD L. JENSEN.

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