(No Model.)

W. E. MOORE.

VENTILATOR.

No. 254,360. Patented Feb. 28, 1882.

Fig. 2.

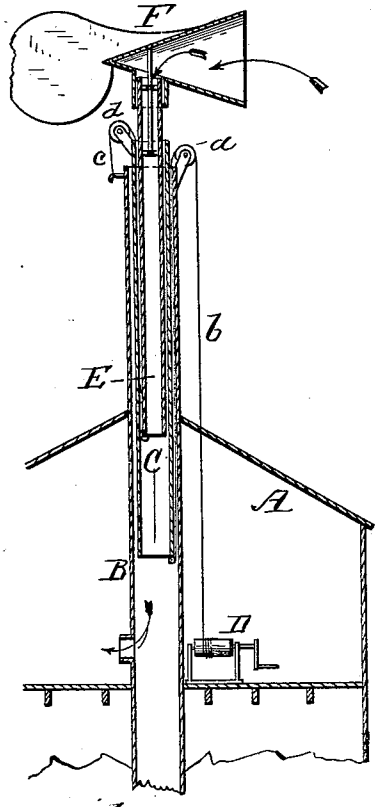
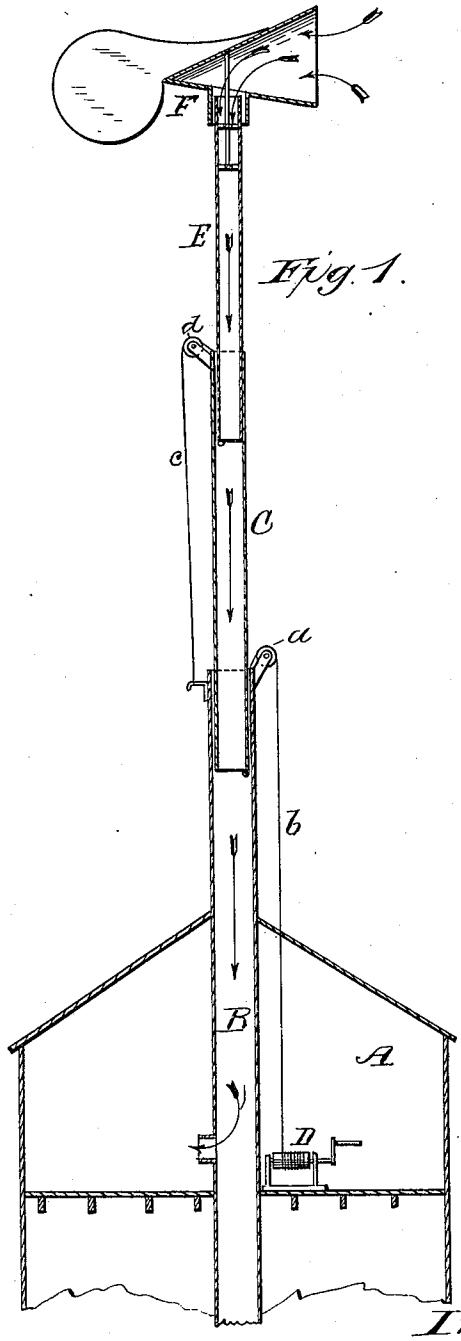


Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIS E. MOORE, OF THORNTOWN, INDIANA.

VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 254,360, dated February 28, 1882.

Application filed December 6, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIS E. MOORE, a citizen of the United States, residing at Thorntown, in the county of Boone and State of Indiana, have invented certain new and useful Improvements in Ventilators; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a sectional view of my invention, showing the ventilating-pipes extended; and Fig. 2 is a similar view with the pipes drawn down within each other.

The present invention has relation to certain new and useful improvements in ventilating dwellings; and it consists in the details of construction substantially as shown in the drawings and hereinafter described.

In the accompanying drawings, A represents the upper portion of a house or dwelling, within which is located a pipe, B, which may by suitable branch pipes extend to the several rooms or compartments thereof. This pipe B is stationary and extends up through the roof of the dwelling, as shown, and has connected to it at its upper end a suitable pulley, *a*, over which passes a cord or chain, *b*. This cord or chain at one end is suitably attached to the lower end of a pipe, C, and after passing up and around the pulley *a* it extends down through the roof of the dwelling, and is connected to a suitable windlass, D, supported and secured to one of the floors of the dwelling. A pipe, E, is arranged to move within the pipe C, and has connected to its lower end a chain or cord, *c*, which passes up and around a pulley, *d*, fastened to the upper end of the pipe C, and thence down to the stationary pipe B, where it is secured in any suitable manner to said pipe. The upper section of pipe E has connected to it a suitable cowl, F, which operates in the usual manner for conducting air to the pipes. The pipes B C E, which may be increased in numbers as found desirable, are of varying diameters, so that they will fit in one another, as shown in Fig. 2. When it is desired to extend the pipes C E at the required elevation the cord or chain *b* is wound upon the windlass until the pipes are at a sufficient height, the ordinary pawl and ratchet usually employed on windlasses preventing the cord or chain from unwinding. The pipes C E by their own weight will close, as shown in Fig. 2, when the cord or chain *b* is left free to unwind, thereby preventing their being injured by severe storms.

By taking the air from a high elevation it is much purer and consequently healthier than if it were lower down or nearer the surface of the earth, where the atmosphere is vitiated or foul, resulting from decayed vegetation and marshy lands and other causes from which malarial fever usually originates, this being entirely avoided by extending the pipes to reach an atmosphere entirely pure.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a ventilator for dwellings, the combination, with the stationary pipe B, of the telescopic pipe-sections and means for elevating and lowering them, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIS EZEKIEL MOORE.

Witnesses:

JAMES R. LINCH,

THOMAS B. HOLMES.