S. E. LEVEY.

VENTILATOR.

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1,211,191.

Patented Jan. 2, 1917.

Fig. 1.

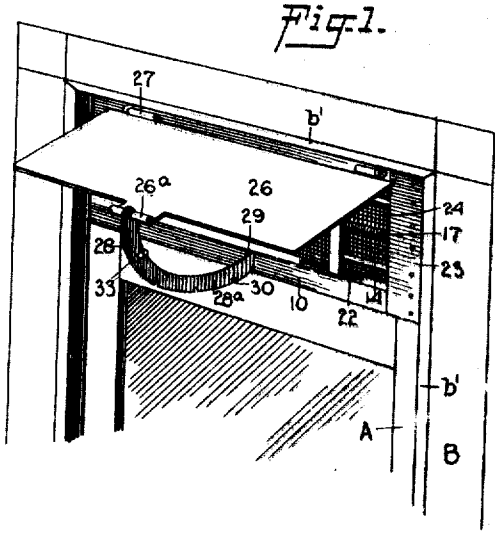


Fig. 2.

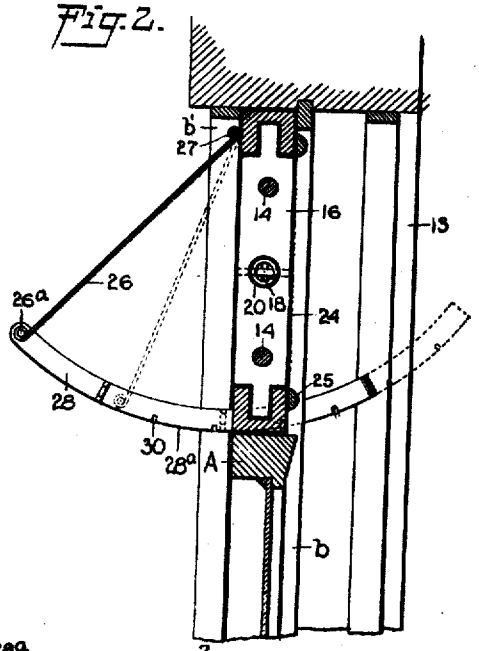


Fig. 3.

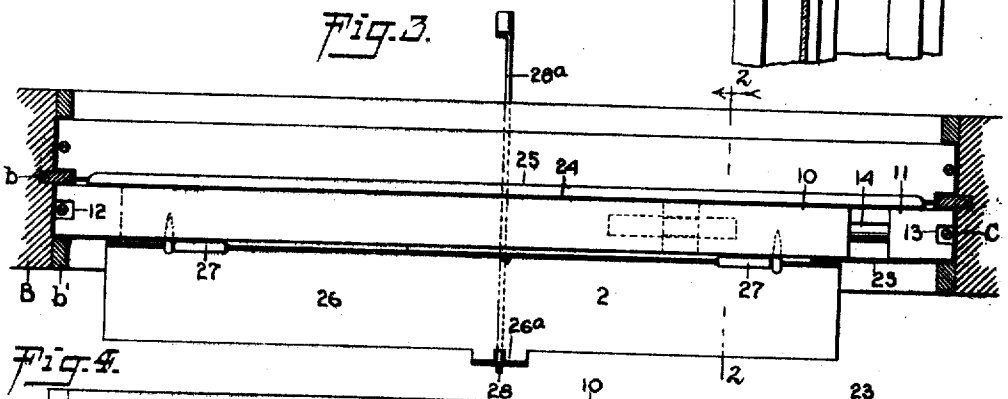


Fig. 4.

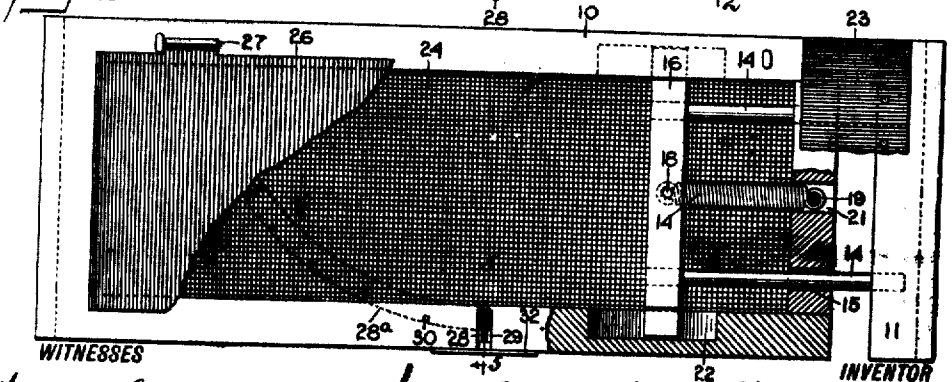
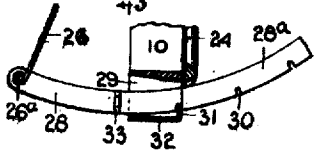


Fig. 5.



WITNESSES

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VENTILATOR.

1,211,191. Specification of Letters Patent. Patented Jan. 2, 1917.

Application filed March 10, 1915. Serial No. 13,330.

To all whom it may concern:

Be it known that I, SIMON E. LEVEY, a citizen of the United States, and a resident of Union Hill, in the county of Hudson and State of New Jersey, have invented a new and Improved Ventilator, of which the following is a full, clear, and exact description.

My invention relates to a ventilator more especially adapted for use above the upper sash of a window when the said upper sash is partly lowered.

Objects of the invention are to provide a ventilator of the indicated character so constructed and arranged as to be accommodated between the window frame members, in vertical alinement with the upper sash; to provide a ventilator that will automatically adjust itself to windows and window frames of different widths and firmly retain itself in the frame, independently of the sash; to provide a ventilator which in the adjusted position will present no interference with the sash cords and pulleys; to provide a ventilator of the indicated character having provision for receiving screen material at a face thereof and having a shutter to effect a complete closure or a partial closure of the ventilator; and to provide operating means for the shutter operative from the inside of the room and adapted to be so disposed as to present no projections to interfere with shades or curtains.

Other objects and advantages of the invention will appear from the specific description following.

Reference is had to the accompanying drawings forming part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which:

Figure 1 is a perspective view of my improved ventilator applied to a window; Fig. 2 is a transverse vertical section on the line 2—2 Fig. 3; Fig. 3 is a plan view, the window frame being shown in section; Fig. 4 is a partly sectional rear elevation; and Fig. 5 is a fragmentary detail in cross section on the line 5—5 Fig. 4.

In constructing a practical embodiment of my invention in accordance with the illustrated example, an oblong rectangular frame 10 is provided and an auxiliary member 11 in longitudinal alinement with the frame 10. The frame 10 with its extension member 11 is adapted to be accommodated transversely of the window frame B above and in vertical alinement with the upper sash A of the window between the parting strips *b* and the outer stop beads b^1. In order to accommodate the sash cords C and permit free movement thereof, the frame 10 at one end is formed with a vertical groove 12 and a similar groove is formed in the extension element 11.

The extension member 11 of the ventilator frame is provided with pins 14 in rigid relation thereto which extend through holes 15 in the adjacent end of the frame 10 to the interior of the latter. At their inner ends the guide pins 14 are connected by a bar 16 and a retractile spring 17 is connected at one end with the bar 16 by a pin 18. At the opposite end the spring is connected with the adjacent member of the frame 10 by a pin 19, or the like, the bar 16 having a hole 20 receiving the end of the spring, and the end member of the frame 10 having a hole 21 to receive the spring. The bar 16 has guided movement in longitudinal slots 22 formed in the inner faces of the top and bottom bars of the frame 10. The joint between the frame 10 and the extension member 11 is closed by a cover plate 23 secured to the extension member 11 and slidable on the frame 10.

By the described construction the extension member 11 may be adjusted relatively to the frame 10 to vary the total length of the ventilator according to the width of the window, the spring 17 normally tending to carry the extension member 11 outwardly so that the said extension member and the opposite end of the frame 10 will be firmly pressed against the window frame to sustain the ventilator in position above the sash A independently of the latter. The frame 10 is covered by screen material 24, preferably wire mesh, to exclude insects while permitting the passage of air through the frame. At the outer side I provide a shutter to effect a complete closure or a partial closure of the frame whereby to exclude the passage of air or to regulate the same. The shutter 26 is preferably of sheet metal and is hinged at its upper end as at 27 to the top bar of the frame 10 to have swinging movement on the latter. Connected to the shutter at its lower edge as at 26^a, is an operating rod 28 here shown as in the form of a quadrant. The operating element 28 extends inwardly transversely

through the ventilator to the inner side thereof whereby the shutter may be controlled from the room. In the illustrated form a transverse slot 29 is formed in the bottom bar of the frame 10 to permit movement of the operating bar. At the bottom of the slot 29 the latter is closed by a plate 32 which is upturned, the edge 31 being adapted to enter any one of the series of notches 30 in the operating bar 28 to hold the shutter 26 in any given adjustment. The operating bar has pivotal movement at 26ª on the shutter whereby to engage or disengage the flange or lip 31.

It is important, since the shutter is to be operated from the inside, that the operating rod 28 or its equivalent will not present any projection at the inside of the window whereby to interfere with shades or curtains, and to prevent such interference the inner portion 28ª of the said rod is hinged as at 33 to the outer portion. Therefore, when the shutter is in the closed position and the major portion of the rod 28 at the inside of the window, the inner portion may be folded flat against the ventilator as indicated in dotted lines in Fig. 4.

It will be seen that the ventilator provides for the admission of air at the top of the window and the proper screening of the opening without the necessity of putting up complete screens at the exterior of the window, and that the invention may be readily applied to any window and maintained in place without adventitious securing devices.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

A window ventilator including a frame presenting longitudinal bars and end bars, an extension member at an end of said frame, parallel lateral guide pins projecting from the inner face of the said extension member, the said pin slidably extending through the adjacent end bar of the frame, a vertical connecting bar joining the inner ends of said pins within the frame, the longitudinal members of the frame having alined recesses in their opposed faces and the ends of the said vertical connecting bar extending into said recesses and having sliding movement therein, and an expansion spring secured at one end to said vertical connecting bar and at its opposite end to the adjacent end bar of the frame.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SIMON ELLIS LEVEY.

Witnesses:
LEO H. BLUM,
CHARLES G. SCHMIEDERER.