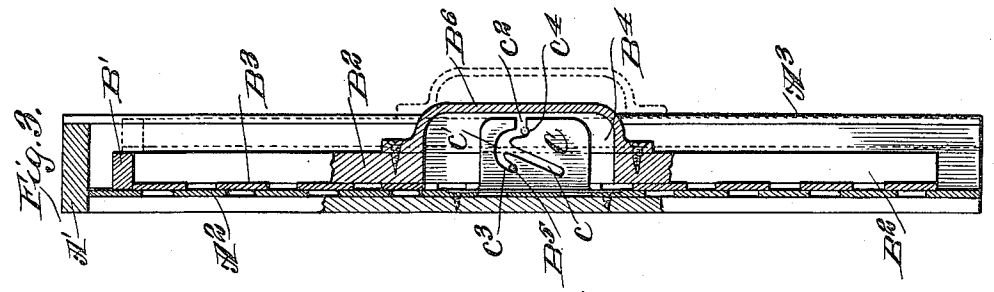
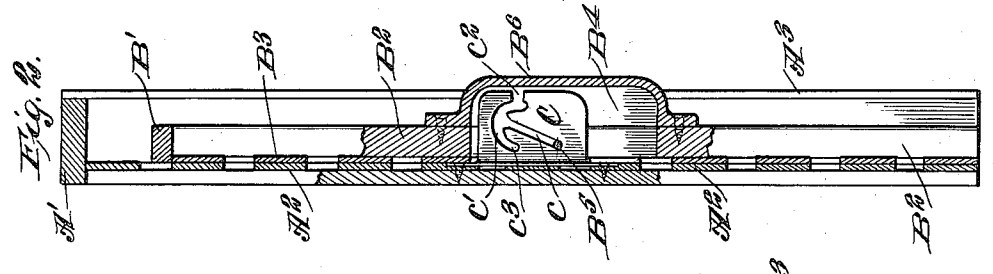
W. P. RYLANDER.

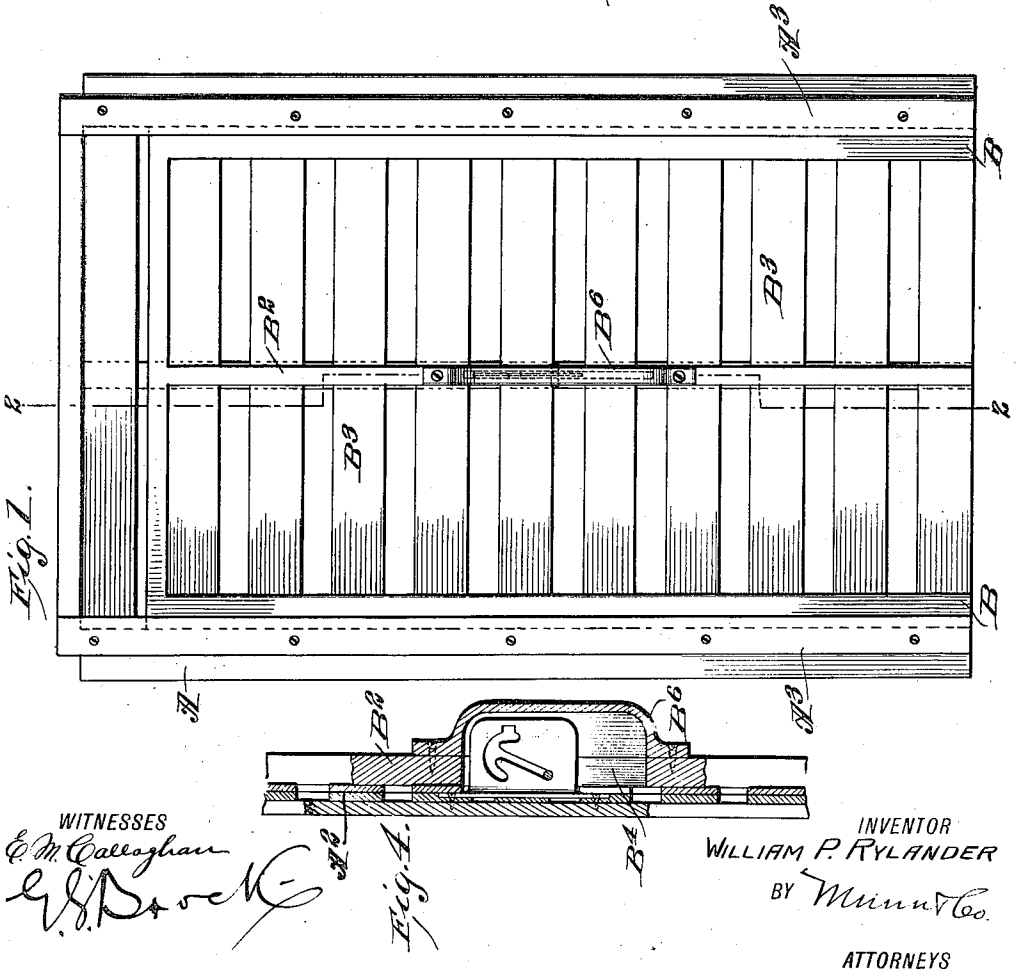
SHUTTER AND VENTILATOR.

APPLICATION FILED JULY 27, 1909.

949,600. Patented Feb. 15, 1910.







WITNESSES

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SHUTTER AND VENTILATOR.

949,600. Specification of Letters Patent. Patented Feb. 15, 1910.

Application filed July 27, 1909. Serial No. 509,824.

To all whom it may concern:

Be it known that I, WILLIAM PITTS RYLANDER, a citizen of the United States, residing at San Marcos, in the county of Hays and State of Texas, have invented a new and useful Improvement in Shutters and Ventilators, of which the following is a specification.

My invention relates to improvements in shutters of the slatted type and has for its object to provide a shutter which may be used for ventilation alone, for ventilation and at the same time securing privacy, and finally to produce a shutter which may be so adjusted as to be practically a solid blind.

With these objects in view my invention consists in certain novel features of construction, arrangement and combination of parts as will be hereinafter fully described and pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is an elevation of the inside of my improved shutter. Fig. 2 is a vertical section of the same showing the device used as a simple ventilator. Fig. 3 is a vertical section showing in full lines the device used to shut off air and light, and in dotted lines position of parts when used for ventilation, and at the same time shutting off view from the outside. Fig. 4 is a sectional view of the slotted plate C showing the use of a closed slot.

In carrying out my invention I use a frame composed of side pieces A and the top piece A′; within the frame are rigidly secured the transverse slats A^2 extending from side to side. To the inner face of the side rails A are secured the strips A^3 which project inwardly and serve to retain the movable slatted frame composed of the side bars B, the top bar B′ and the central bar B^2 all of which are rigidly attached to the slats B^3; as stated this supplemental frame, is maintained within the main shutter frame by the overhanging strips A^3 on the side rails of said main shutter.

At about the center of central bar B^2, a slot B^4 is cut and in this slot a transverse pin B^5 is secured and over the slotted portion a metal housing B^6 is placed being secured to the central bar B^2 by screws and serving as a hand piece to operate the movable shutter.

Secured to the main shutter at about its center is a thin vertical metal plate C, said plate projecting into the slot B^4 and having the diagonal slot c opening into a curved slot c', said slot c' meeting a horizontal slot c^2 which extends to the free edge of the plate C; the outer end of the curved slot c' forms a seat c^3 to receive the pin B^5 when the movable slat is in its position to totally shut off light and air and the other end of the curved slot is depressed below its junction with the straight horizontal slot to form another seat c^4 for the pin B^5, as indicated by dotted lines in Fig. 3.

This improved shutter is designed to be primarily of a size covering the lower sash, and will be held in place in the window frame by tongue and groove or stops so that it can be raised out of the way and fastened when it is desired to dispose of the shutter or blind temporarily for any reason.

The movable or supplemental shutter frame may be removed from the main frame by removing one of the facing strips A^3 and then bring the movable shutter to the position indicated by dotted lines in Fig. 3.

It will be noticed that the shutter is composed of two main parts, a stationary shutter and a movable and adjustable slatted frame.

By reason of the shape of the slots which communicate, three positions of the slats with relation to each other are possible; thus when it is desired to give free ventilation, the hand piece is manipulated to cause the pin B^5 to seat itself at the bottom of the diagonal slot c as shown in Fig. 2 so that the slats of movable part lie closely alongside the slats of the stationary part or member the open spaces of each registering; this adjustment gives light and ventilation to the room.

To give ventilation and at the same time shut off view from the outside securing privacy, the hand piece is again manipulated to raise the pin B^5 out of diagonal slot c and brought to its seat at c^4; this will move the movable shutter far enough away from the stationary member to allow free circulation of air, but the slats of the movable member will stand opposite the open spaces of the stationary member. To shut off both light and air and render the improvement a practically solid shutter, the hand piece is manipulated to move the pin B^5 along the curved slot c' to the seat c^3 shown in full lines Fig. 3 whereupon the solid slats of the movable member will overlap the open

spaces of the stationary shutter and effectually shut off all light and the passage of wind.

In the various adjustments or positions obtained in the manner described above, the shutter or blind will prove to be absolutely noiseless, even when strong winds blow against it.

As indicated at the outset of the foregoing description it is plain that my invention is designed to be an effectual inside shutter or blind, preferably of a size to cover the lower sash of window only, the upper sash needing no blind since it may be covered by the ordinary shade which is better adapted to furnish abundant sun-light so necessary for health and comfort, but which is rendered perfectly useless as a blind or screen for the lower half of window, when the lower sash is raised, even when gentle breezes blow.

The passing of the old style outside roll slat shutters from modern house building, as shown by the many publications of the foremost architects of the day, has created a demand for a simple, cheaply manufactured and yet strongly and compactly constructed shutter and ventilator, which may be readily manipulated by any one, even by a child after having once been instructed as to its operation.

Thus it will be seen that by the use of my improved shutter and ventilator perfect privacy can be had in a room without cutting off ventilation, and thorough ventilation can be had with the shutter presenting the appearance of a solid blind. This position of the blind and ventilator makes it specially adapted to be used in rooms when a free circulation of air is desired but when a draft is to be avoided.

Greater strength will be given the plate C if the horizontal slot c^2 does not extend entirely to the edge of same, as in the construction illustrated in Fig. 4.

While I have described the housing B^6 as of metal, it can be made of wood, and may indeed be a part of the central bar B^2.

I claim—

1. A combined shutter and ventilator, comprising a stationary slatted member, and a movable slatted member held to permit of vertical and horizontal adjustment of the same relative to the stationary member, whereby the solid portions of the movable member may be brought to a position in registry with the open spaces of the stationary member, and distant from said stationary member.

2. In a combined shutter and ventilator, the combination with a stationary slatted member, a slotted vertical plate projecting at a right angle therefrom, of a movable slatted member, a horizontal pin projecting therefrom and adapted to travel in aforesaid slotted plate, whereby the movable member may be adjusted vertically and horizontally with respect to the stationary member.

3. In a combined shutter and ventilator, the combination with a stationary slatted member, a vertical plate projecting therefrom and having an open diagonal slot, and a substantially horizontal slot extending from said diagonal slot, of a movable slatted member, and a horizontal pin projecting therefrom, said pin adapted to travel in the aforesaid slots and permit of vertical and horizontal adjustment of the movable slatted member with respect to the stationary slatted member.

4. In a combined shutter and ventilator, the combination with a stationary slatted member, a vertical plate projecting therefrom, said plate having an open diagonal slot terminating in a curved slot, said curved slot communicating with a horizontal slot extending to the free edge of the plate, of a movable slatted frame superimposed on said stationary frame and having a slotted portion adapted to receive and house the aforesaid slotted plate of the stationary member, and a horizontal pin mounted in said slotted portion of the movable member, said pin adapted to travel in the slots of the plate, and hold the movable slotted portion at various points of adjustment.

5. In a combined shutter and ventilator, the combination with a stationary slatted frame, a slotted vertical plate projecting therefrom, of a movable slatted frame, having a slot therein to receive said slotted plate, a housing covering said slot and forming a handle to manipulate the movable frame, and a horizontal pin within said housed slot adapted to travel in the aforesaid slotted plate whereby the movable frame may be adjusted vertically and horizontally with respect to the stationary member.

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Witnesses:

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