

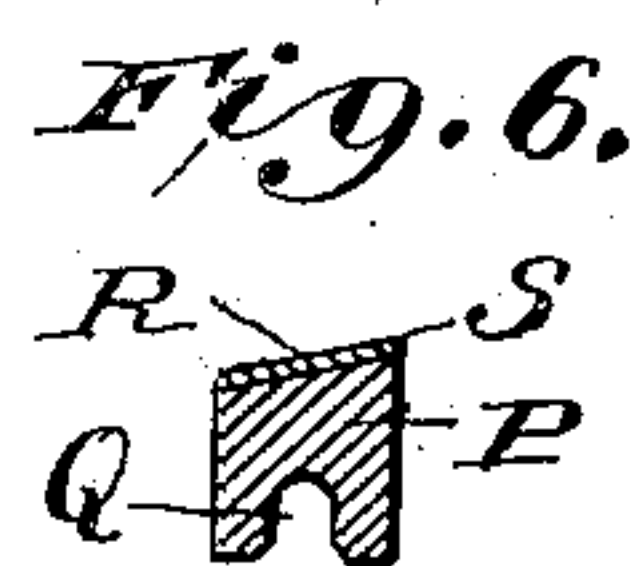
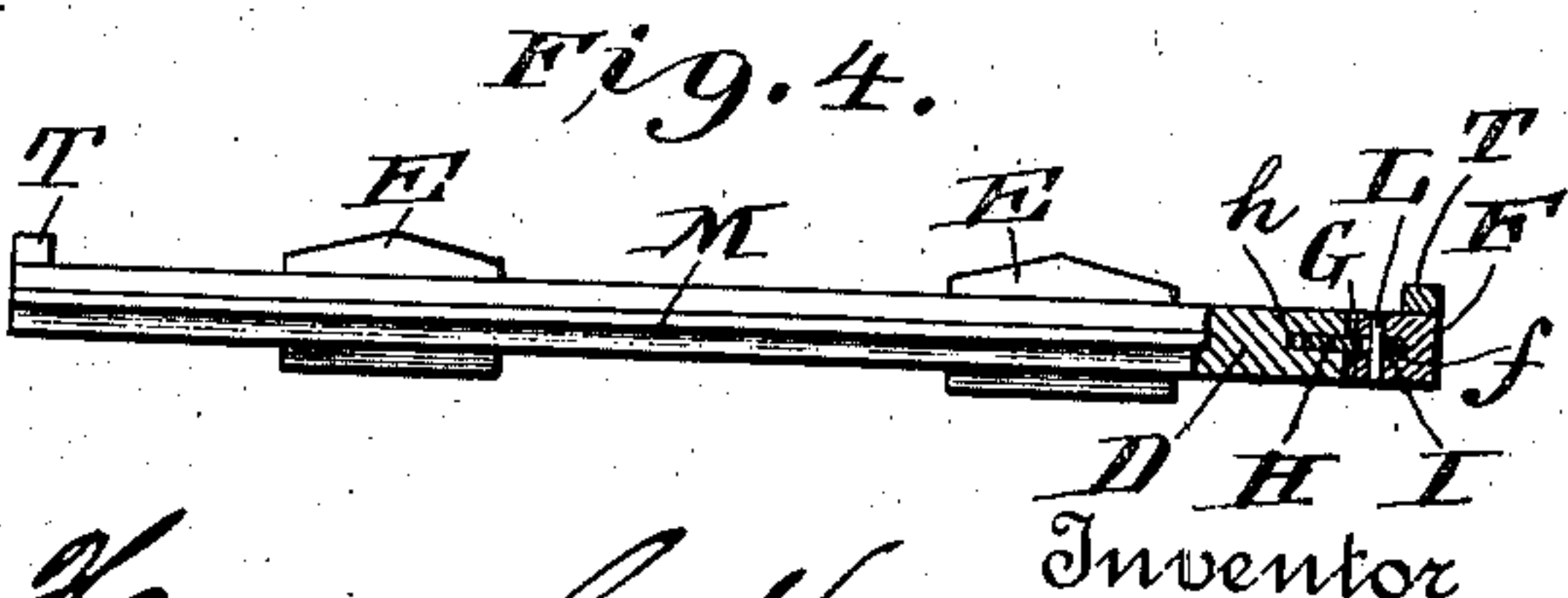
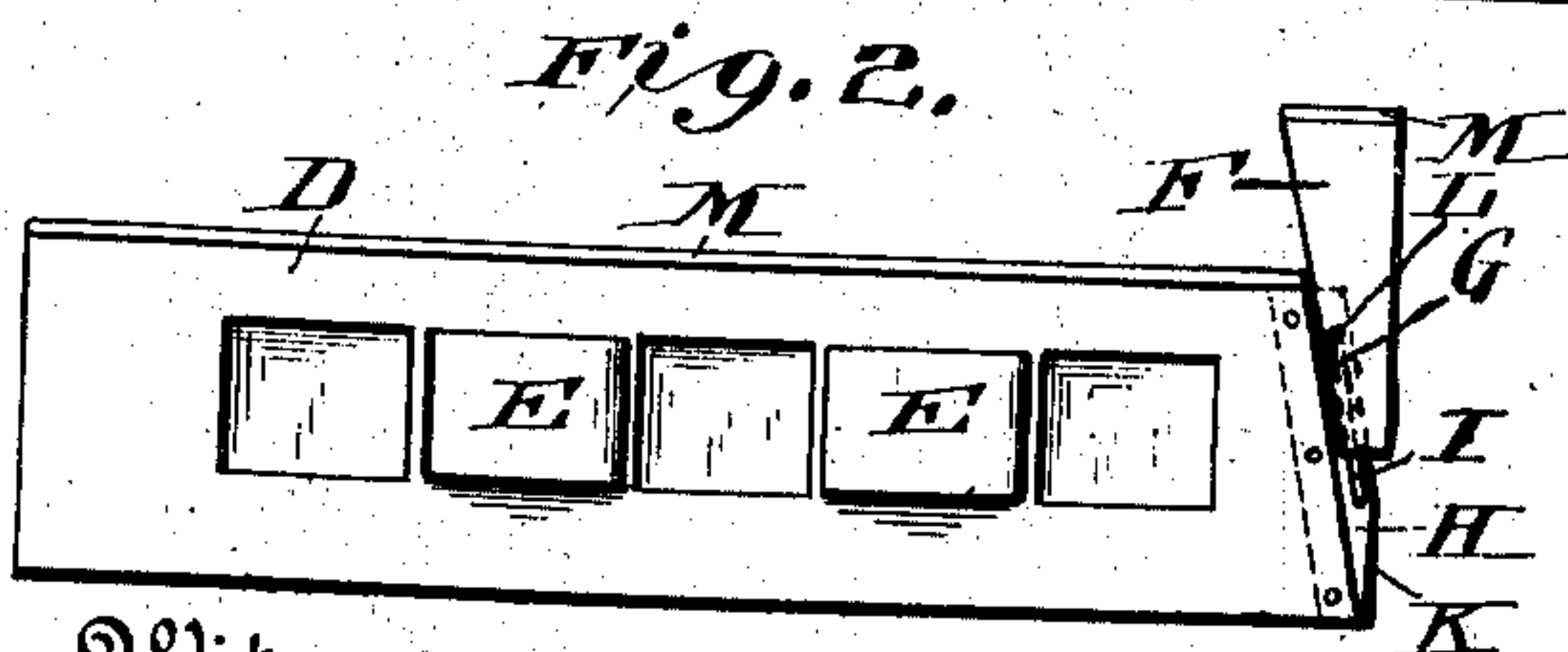
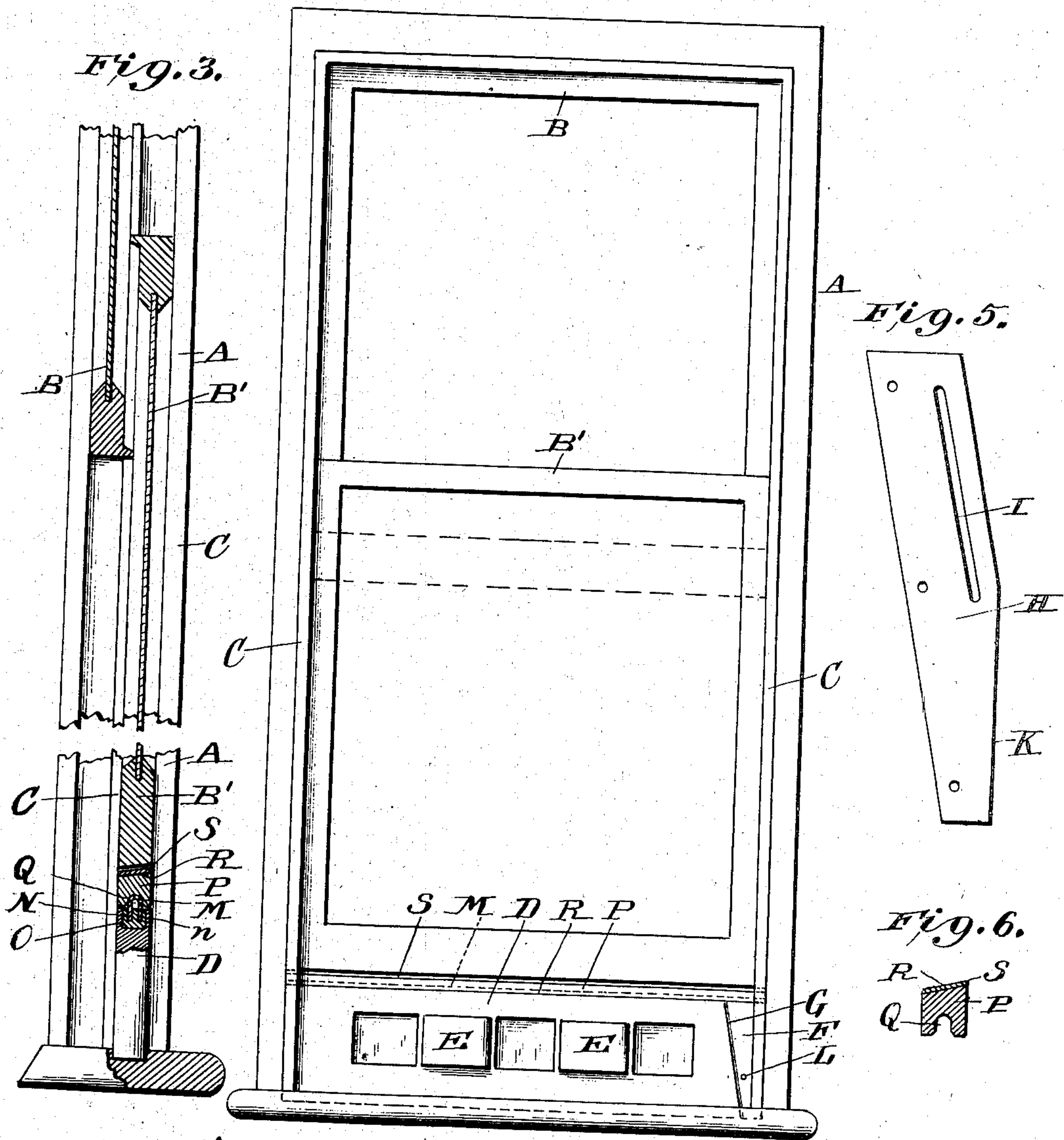
No. 757,201.

PATENTED APR. 12, 1904.

H. C. KIDWELL.
WINDOW VENTILATOR.
APPLICATION FILED MAR. 7, 1902.

NO MODEL.

Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

HARRY C. KIDWELL, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR
TO THE PULLMAN AUTOMATIC VENTILATOR COMPANY, OF YORK,
PENNSYLVANIA, A CORPORATION OF WEST VIRGINIA.

WINDOW-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 757,201, dated April 12, 1904.

Application filed March 7, 1902. Serial No. 97,168. (No model.)

To all whom it may concern:

Be it known that I, HARRY C. KIDWELL, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Window-Ventilators, of which the following is a specification.

My invention relates to ventilators adapted to be inserted under the lower sash of a window, and has for one of its objects to provide means whereby the length of the board holding the ventilator may be reduced in length sufficiently to permit its insertion between the sides of the frame without removing the strips holding the lower sash in place and after the ventilator is in place lengthening said board, so as to make it fit the frame air-tight.

Another object of my invention is to provide a peculiar weather-stripping on the top of the board so arranged as to prevent wearing out the strip and at the same time snugly fit the lower edge of the lower window-sash.

Further objects of my invention will more fully appear hereinafter and by reference to the accompanying drawings, in which—

Figure 1 is a front elevation of a window, showing my improved ventilator in place; Fig. 2, a view of the ventilator-board, showing it arranged for insertion in the window; Fig. 3, an enlarged side view of Fig. 1, partly in section; Fig. 4, a top view of Fig. 2, partly in section; Fig. 5, a detail view of the slotted plate employed in my device, and Fig. 6 an enlarged cross-section of the detachable strip.

Referring to the drawings, in which similar reference characters indicate corresponding parts throughout the several views, A represents the ordinary pulley-stiles of a window-frame between which the upper and lower sashes B and B' are adapted to be raised and lowered, and C the stop-bead to hold the lower sash B' in place.

D represents the ventilator-board to be inserted under the lower sash B', having an improved form of ventilator-valve E secured

thereto. As it is desirable to have the board D fit snugly between the stiles A of the window-frame and it is a great inconvenience to remove the beading C, I provide peculiar means for reducing the length of the board D sufficiently to permit its insertion under the lower sash, so as to avoid said beading C. This is done by cutting a piece F off of either or both ends of said board D on a line G, commencing several inches from the end of the top edge of said board, downwardly in an oblique direction toward the outer end of the lower edge of said board. A plate H, made, preferably, of metal, is then inserted in a groove h, cut into the beveled edge of the board D and secured therein in any suitable manner, said plate H having a portion projecting out of the plane of said beveled edge which has a slot I cut therein parallel to said beveled edge and its lower end cut at right angles to the lower edge of the board D, as shown at K, to intersect the lower end of said beveled edge. The piece F is formed with a groove f cut into its beveled edge to receive the projecting portion of the plate H and slidably secured thereto by means of a pin L, inserted through the piece F and the slot I. It will be readily understood that when the piece F is raised the distance between the two ends of the board D is reduced, so that it may be inserted between the stiles A without interfering with the beading C, and when it is lowered the board is its full length. If it is desired, the same device may be provided at each end, so that the length of the board may be reduced at either or both ends.

On the top edge of the board D and piece F is secured suitable weather-stripping, shown in this instance to be a strip of rubber-coated fabric M, having its two edges secured in grooves n in a strip N and said strip N secured in a groove O in the top of the board D and end piece F. As in practice it has been found that the lower edge of the sash if allowed to rest directly on the weather-

stripping would in time mash it down and impair its usefulness, I provide an auxiliary strip P, having its lower edge grooved, as shown at Q, to fit over the weather-strip and its top edge slightly beveled, as shown at R, to fit the usual bevel on the lower edge of a window-sash.

S represents a strip of felt or other suitable material secured to the top edge R of the strip P to take up the irregularities in the bottom of the sash and make the space between said sash and said top edge R air-tight.

T represents a furring-block secured to the end of the board D and the outer edge of the piece E to make up the thickness of the sash when the ventilator-board is not the thickness of said sash.

Having thus described my invention, what I claim is—

1. As a new article of manufacture, a ventilator-board comprising two members having beveled edges arranged in sliding engagement, an extension carried on the engaging edge of one member, a seat in the engaging edge of the other member formed to contain said extension, whereby a dust-proof joint is provided between the two members when in their normal position, and means carried by said extension and seat and constructed to maintain the two members with their beveled edges in parallelism, substantially as described.

2. As a new article of manufacture, a ventilator-board comprising two members having beveled edges arranged in sliding engagement, an extension carried on the engaging edge of one member, a seat in the engaging edge of the other member formed to contain said extension, whereby a dust-proof joint is provided between the two members when in their normal position, and means carried by said extension and seat and constructed to maintain the two members with their beveled edges in parallelism and to limit their relative movement, substantially as described.

3. In a window-ventilator, a board formed in two pieces having corresponding beveled edges, said pieces being adapted to slide on said beveled edges, a slotted plate secured in the beveled edge of one piece, and the other piece secured near its beveled edge to said plate through said slot, substantially as shown and described.

4. In a window-ventilator, a board having a slanting end, a slotted plate secured thereto, an end piece having a slanting end to fit the slanting end of said board, and means to secure said end piece through said slot, substantially as and for the purpose shown and described.

5. In a window-ventilator, a board formed in two pieces by a cut on an oblique line, a slotted plate secured to one of said pieces, and a

pin in the other piece inserted through said slot, substantially as and for the purpose shown and described.

6. In a window-ventilator, a board formed with a projecting weather-strip on its upper edge, and a grooved strip to fit over said projecting weather-strip, substantially as shown and described.

7. In a window-ventilator, a board formed with a projecting weather-strip on its upper edge, and a strip grooved to fit over said weather-strip and having its top edge beveled toward the exterior of the window, substantially as shown and described.

8. In a window-ventilator, a board having a slanting end, a plate secured in said slanting end and projecting therefrom, the projecting portion of said plate slotted, an end piece having a slanting edge to fit the slanting end of said board and grooved to receive the projecting portion of said plate, and a pin to secure said end piece in said slot, substantially as shown and described.

9. In a window-ventilator, a board having a slanting end, a plate secured in said slanting end and projecting therefrom, said projecting portion of said plate having a slot therein parallel with said slanting end, an end piece having a slanting edge of the same degree as the slanting end on said board, a groove in said slanting edge to receive the projecting portion of said plate, and a pin inserted through said end piece and the slot in said plate, substantially as shown and described.

10. A window-ventilator consisting of a board formed in two pieces by a cut made on an oblique line, means to permit said pieces to be slidably adjusted on said obliquely-cut line, a projecting weather-strip on the top edge of each part of said board, and a strip grooved on its lower edge to fit over said projecting weather-strip, substantially as shown and described.

11. In a window-ventilator, a board formed with a projecting weather-strip, a strip grooved to fit over said projecting weather-strip, and a piece of felt secured to the top edge of said strip, substantially as shown and described.

12. In a window-ventilator, a board formed with a projecting weather-strip, a strip grooved to fit over said projecting weather-strip having its top edge beveled toward the exterior of the window, and a piece of felt secured to said beveled edge, substantially as shown and described.

13. In a window-ventilator, a board having a slanting end, a plate secured in said slanting end and projecting therefrom, said projecting portion of said plate having a slot therein parallel with said slanting end, an end piece having a slanting edge of the same degree as the

slanting end of said board, a groove in said
slanting edge to receive the projecting portion
of said plate, a pin inserted through said end
piece and the slot in said plate, a furring-
5 block in the outer end of said board and at the
outer edge of said end piece, a projecting
weather-strip on the top edge of said board
and end piece, a strip grooved to fit over said
projecting weather-strip, the top of said strip

beveled to fit the bottom of a window-sash, 10
and a piece of felt secured to said beveled edge,
substantially as shown and described.

In testimony whereof I hereto affix my sig-
nature in the presence of two witnesses.

HARRY C. KIDWELL.

Witnesses:

JAMES K. POLK,
S. F. RANDOLPH, Jr.