

(No Model.)

N. McDONALD.  
WINDOW VENTILATOR.

No. 424,895.

Patented Apr. 1, 1890.

Fig. 1.

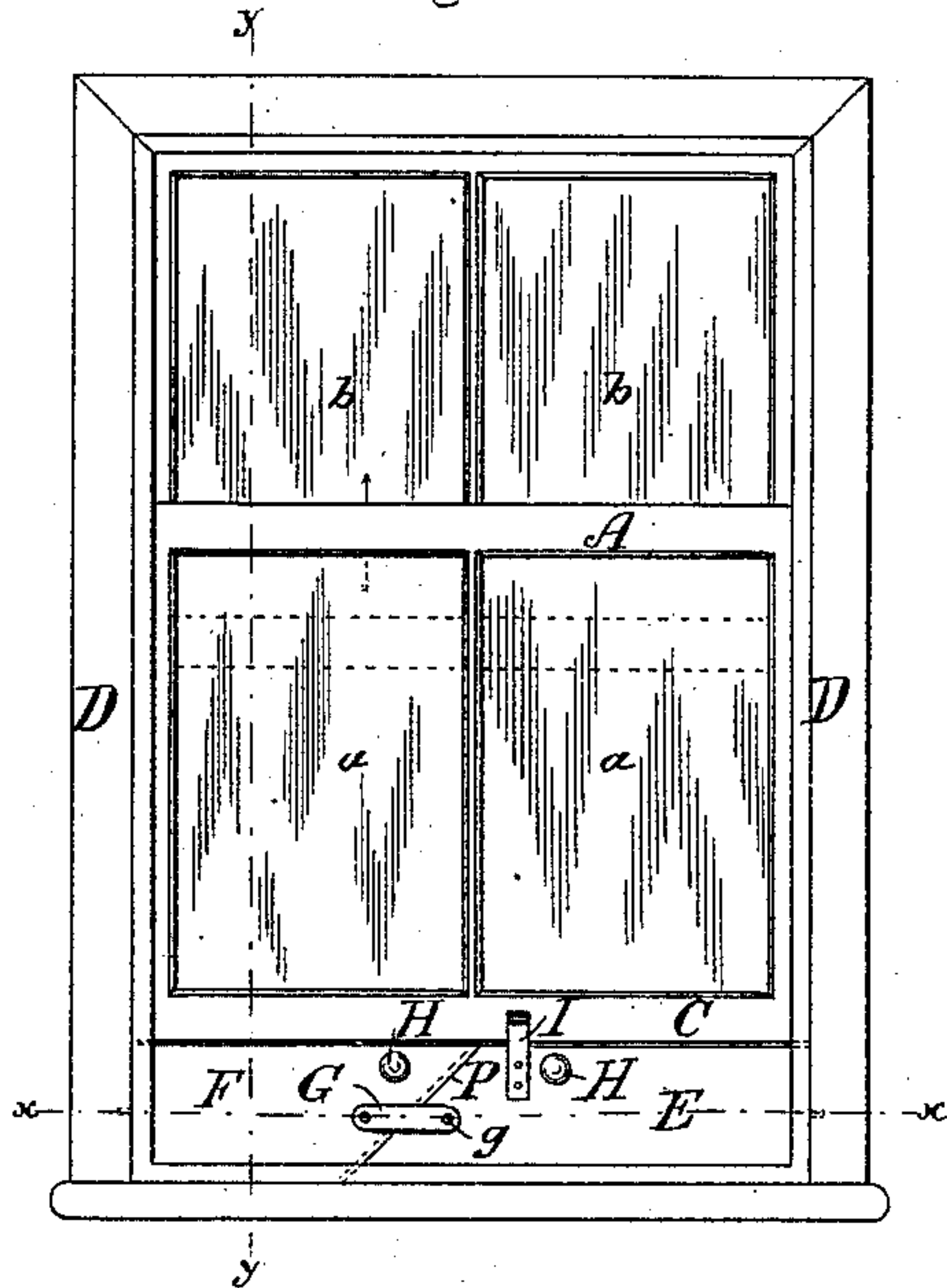


Fig. 2.

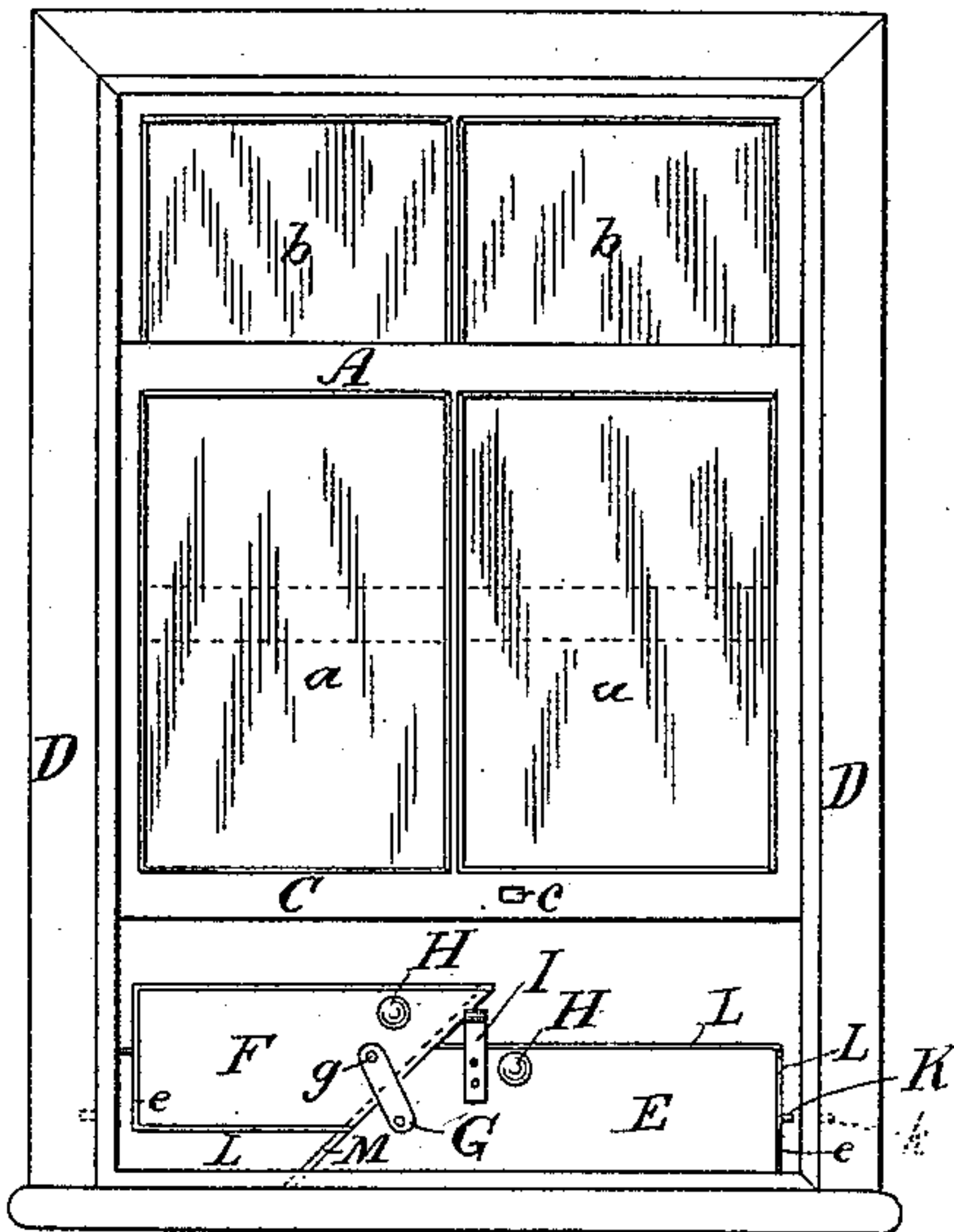


Fig. 4.

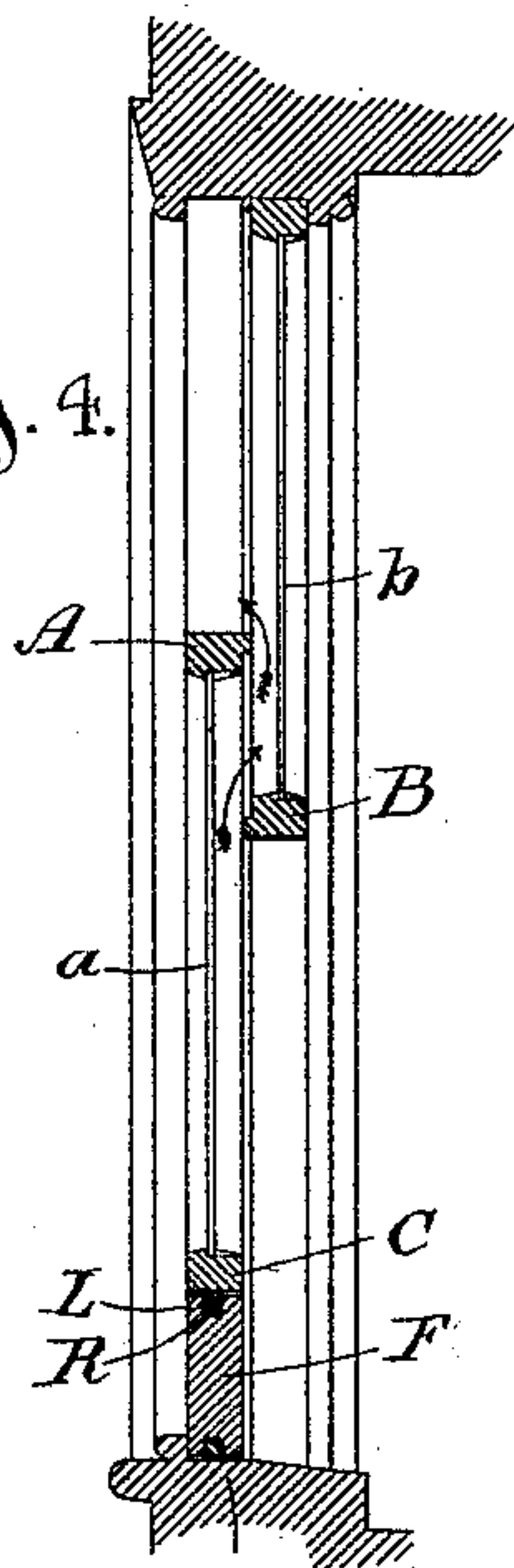


Fig. 3.

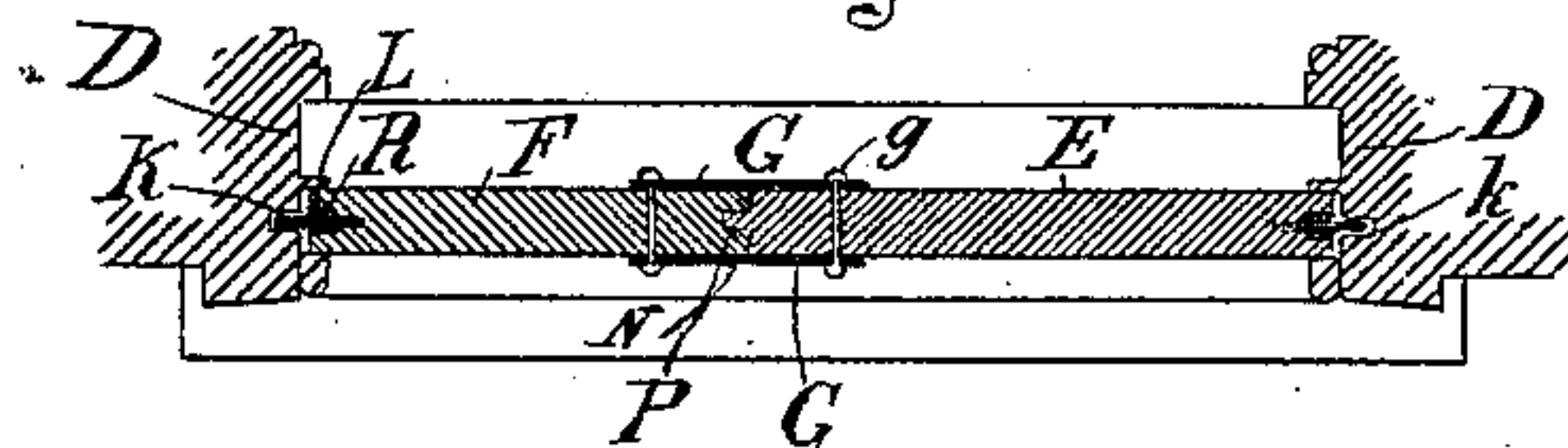
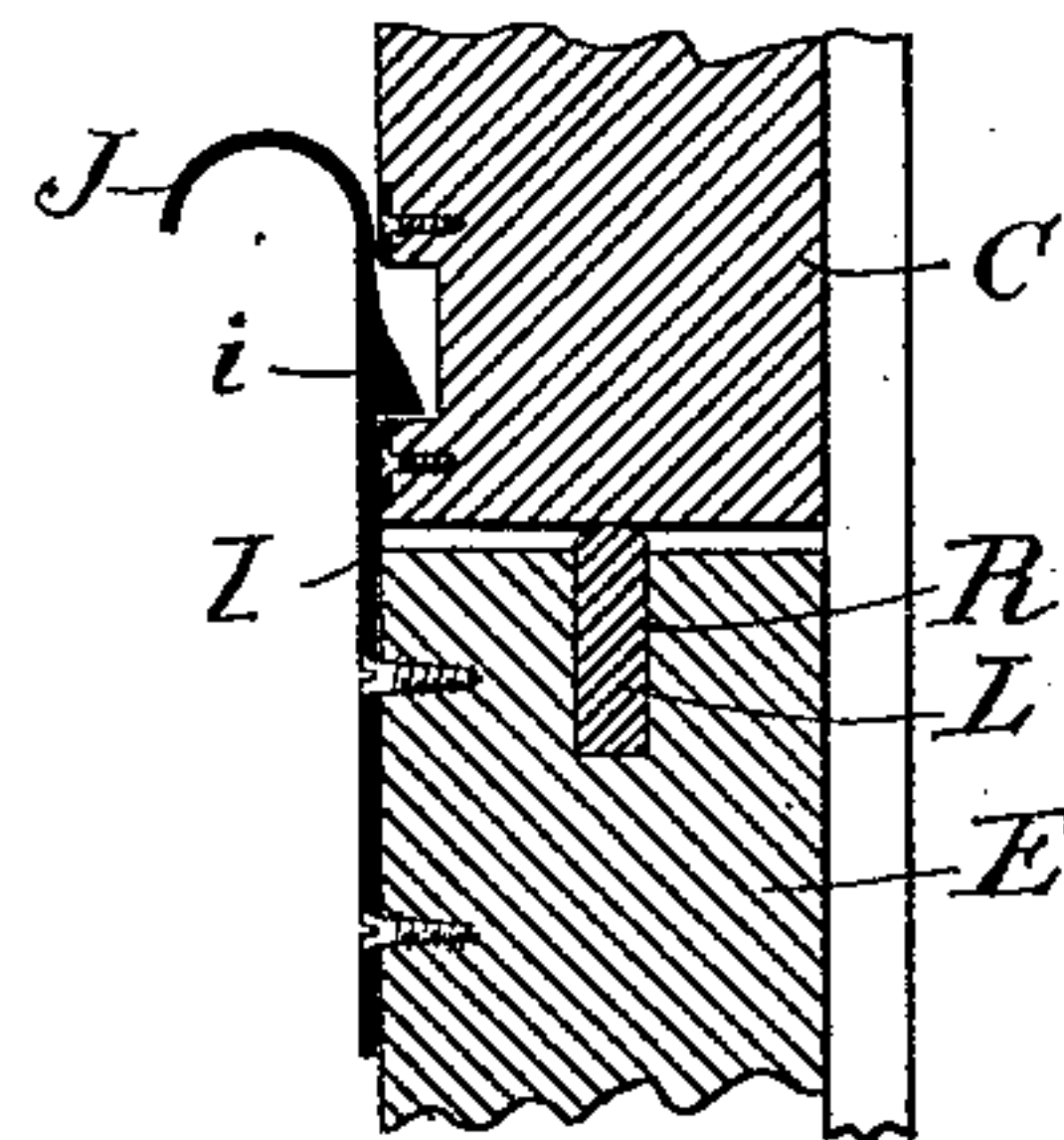


Fig. 5.



Witnesses:

B. Grison.  
Art. Leclaire

Inventor

Neil M. Donald  
By J. Coursole,  
his Attorney.

# UNITED STATES PATENT OFFICE.

NEIL McDONALD, OF TANGIER, NOVA SCOTIA, CANADA, ASSIGNOR OF ONE-HALF TO JOSEPH HOWE TOWNSEND, OF SAME PLACE.

## WINDOW-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 424,895, dated April 1, 1890.

Application filed May 25, 1889. Serial No. 312,075. (No model.)

*To all whom it may concern:*

Be it known that I, NEIL McDONALD, a citizen of Canada, residing at Tangier, in the county of Halifax and Province of Nova Scotia, Canada, have invented certain new and useful Improvements in Window-Ventilation, of which the following is a specification.

The object of my invention is to allow fresh air to enter a room without causing a draft, and at the same time to have the window securely fastened.

Figure 1 is an elevation of a window having my improvements fitted thereto, the fresh air coming in between the two sashes, as shown by the arrows. Fig. 2 is an elevation of a window, the lower sash raised to allow of my apparatus being either inserted or withdrawn. Fig. 3 is a section on line *xx*, Fig. 1. Fig. 4 is a section on line *yy*, Fig. 1. Fig. 5 is an enlarged detail view of the catch or fastening.

E and F are two boards connected by means of the link composed of the flat pieces G and pins *g*. The parting-line P between these two boards E and F runs in an oblique direction, as shown in Figs. 1 and 2. They are tongued and grooved at P by the tongue M and groove N, which strengthens the joint.

H H are two knobs, one on either board. I is a spring-catch, having a projection *i*, and is turned over at the top to form a finger-hold J. The projection *i* is adapted to engage the slot *c* in the bottom rail of the lower sash, and prevents the window from being opened from the outside.

The boards E and F are provided with pins K, adapted to fit into the sockets *k* in the window-frame D and hold the said boards down in place. A groove R is run round the outer edge of the boards E and F, in which is secured a strip of rubber or other elastic substance L, which projects slightly beyond the edge of the boards.

The device is operated in the following manner: The lower sash of the window is opened and the board placed on the sill S and its pin K pushed into its socket *k*, the board F being raised, thereby shortening the length of the two boards, as shown in Fig. 2. The

board F is then pushed down to the sill S, and its pin K fits into the corresponding socket *k*. The boards E and F are of such a length that their edges *ee* fit tightly against the frame D D. The lower sash is then lowered, and the projection *i* on the spring-catch I engages the slot *c* in the lower rail C. The rubber strip L around the boards E and F and the tongued and grooved division at P make it air-tight and prevent all drafts. It will be seen that when the boards are in this position the lower sash is slightly raised, and at the same time securely locked by the spring-catch I and the pins K K. When the sash is in this position, the fresh air comes into the room between the meeting bar B of the upper sash and the glass *a* and the meeting bar A and the glass *b*, as shown by the arrows in Figs. 1 and 4, thereby allowing the passage of fresh air while the window is securely fastened. The boards E and F are easily taken out by raising the lower sash and holding the board E down on the sill by its knob H and raising the board F by its knob H, thereby shortening the boards and releasing the pins K from the sockets *k*.

I claim as my invention—

1. The combination, with an ordinary sash window, of the boards E and F, divided obliquely at P, and having pins K engaging the sockets *k* in the window-frame D, the link G, pin *g*, connecting the said boards E F, the tongue M and groove N, strengthening said connection, the groove R and rubber strip L in the said boards E F, and the spring-catch I and slot *c* in the lower sash, substantially as and for the purposes set forth.

2. The combination, with a sash window, of the boards E and F, divided obliquely at P, connected by the link G, pin *g*, and having pins K, fitting in the sockets *k* in window-frame D, and the catch I, engaging the slot *c* in the lower bar C of the lower window-sash, substantially as set forth.

Signed at Tangier this 13th day of August, 1888.

NEIL McDONALD.

In presence of—

JOHN S. MASON,  
A. L. TOWNSEND.