

(No Model.)

J. G. BRONSON.
WINDOW VENTILATOR.

No. 328,182.

Patented Oct. 13, 1885.

Fig. 1.

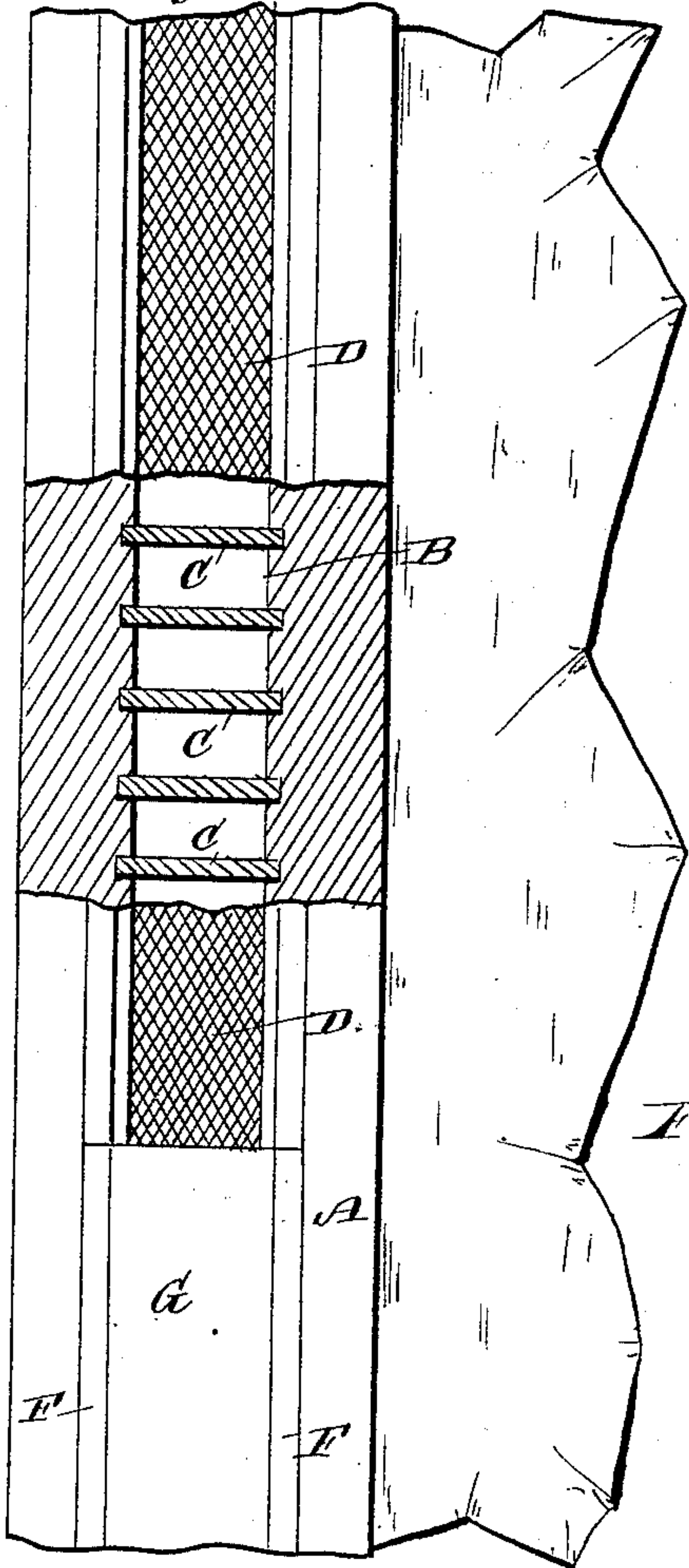


Fig. 4.

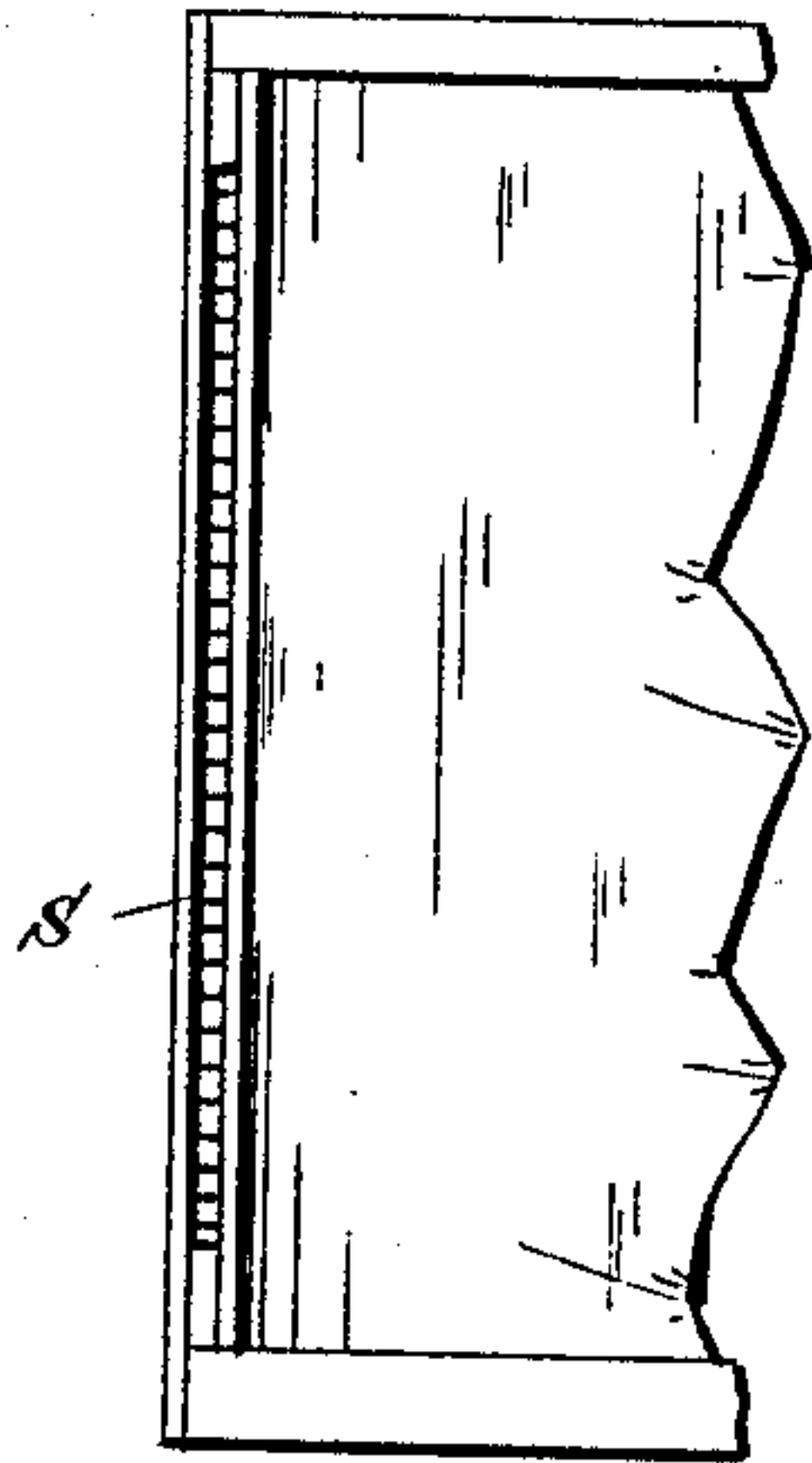


Fig. 2.

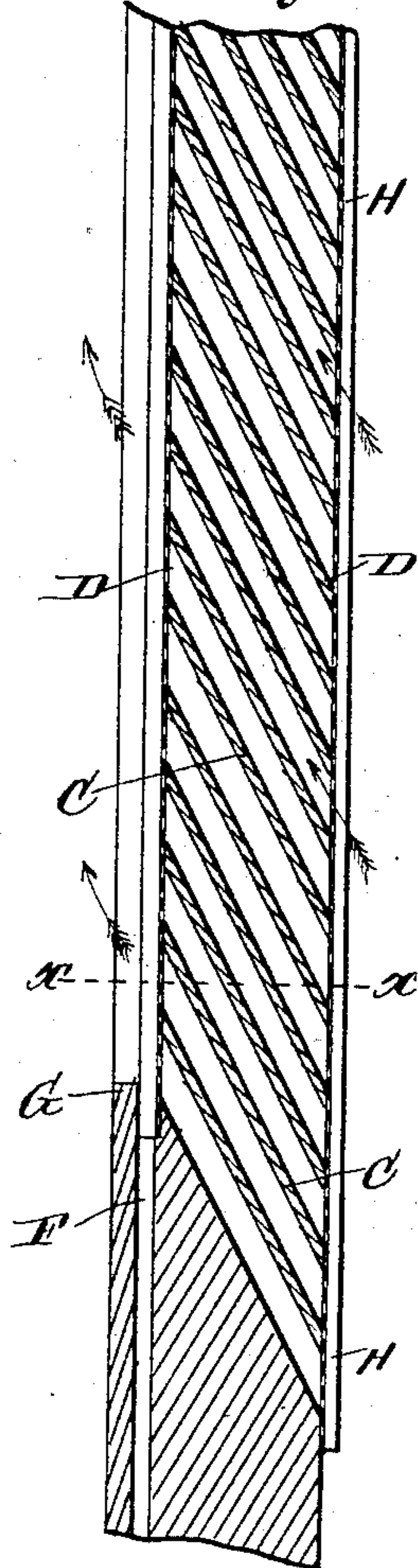


Fig. 5.

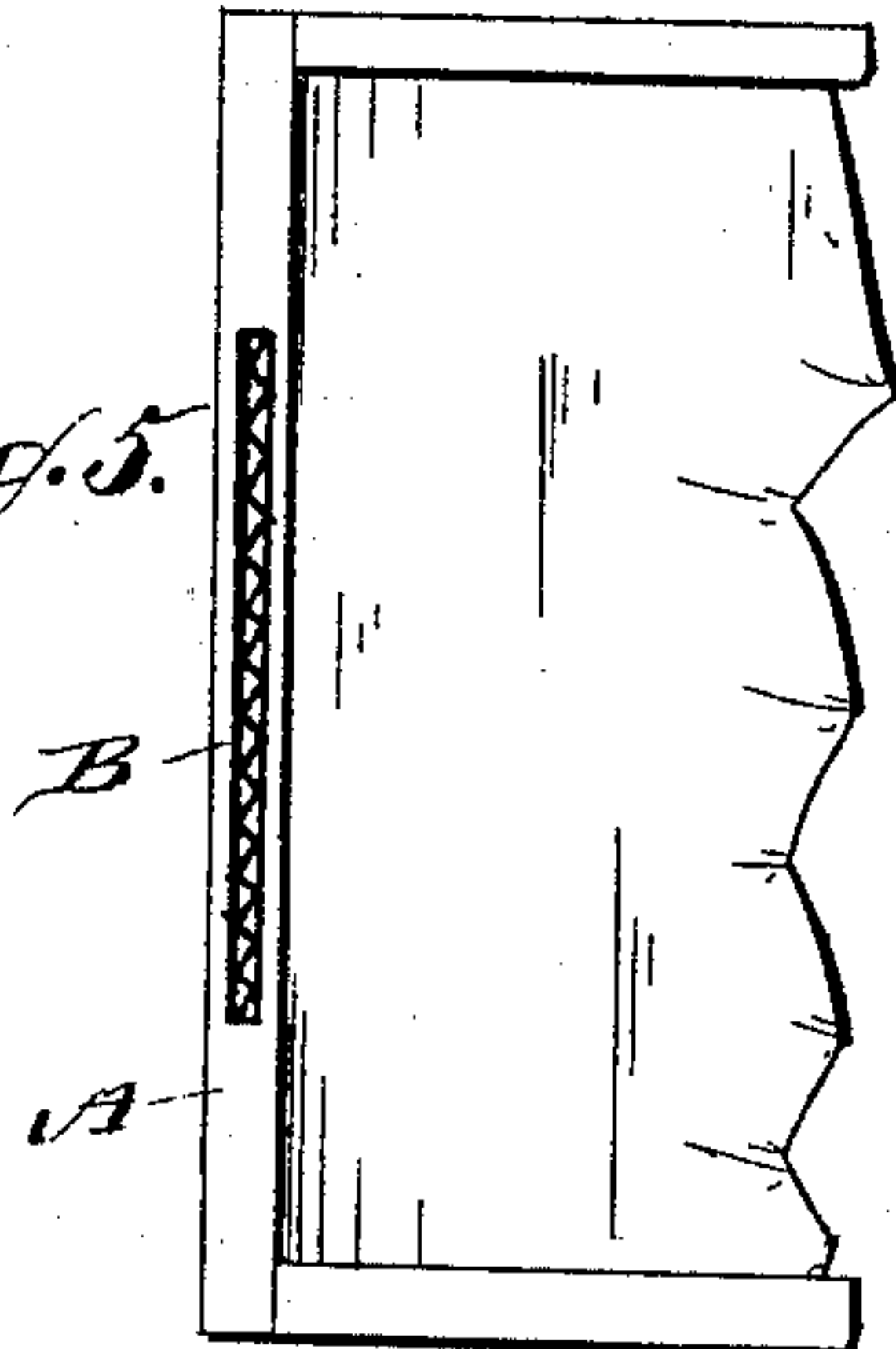


Fig. 3.

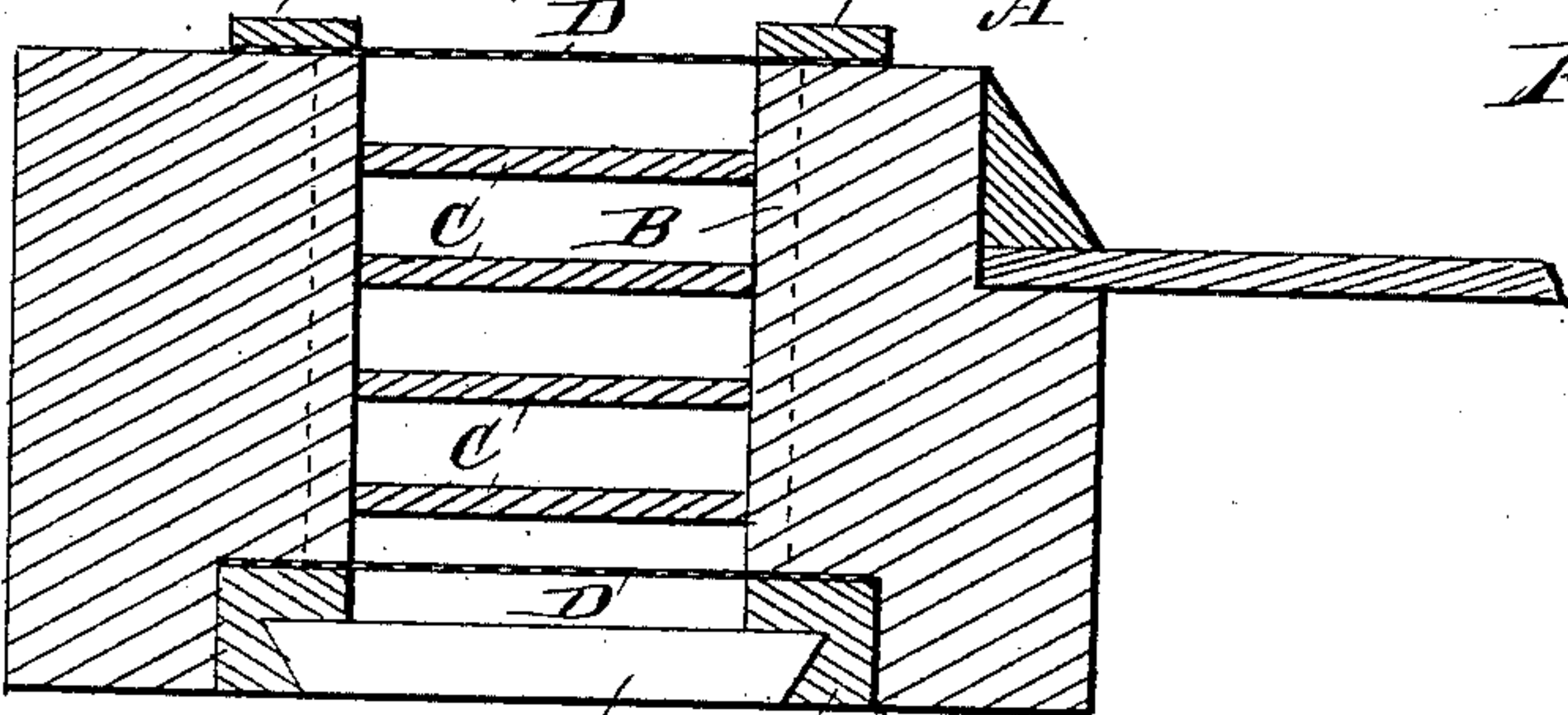
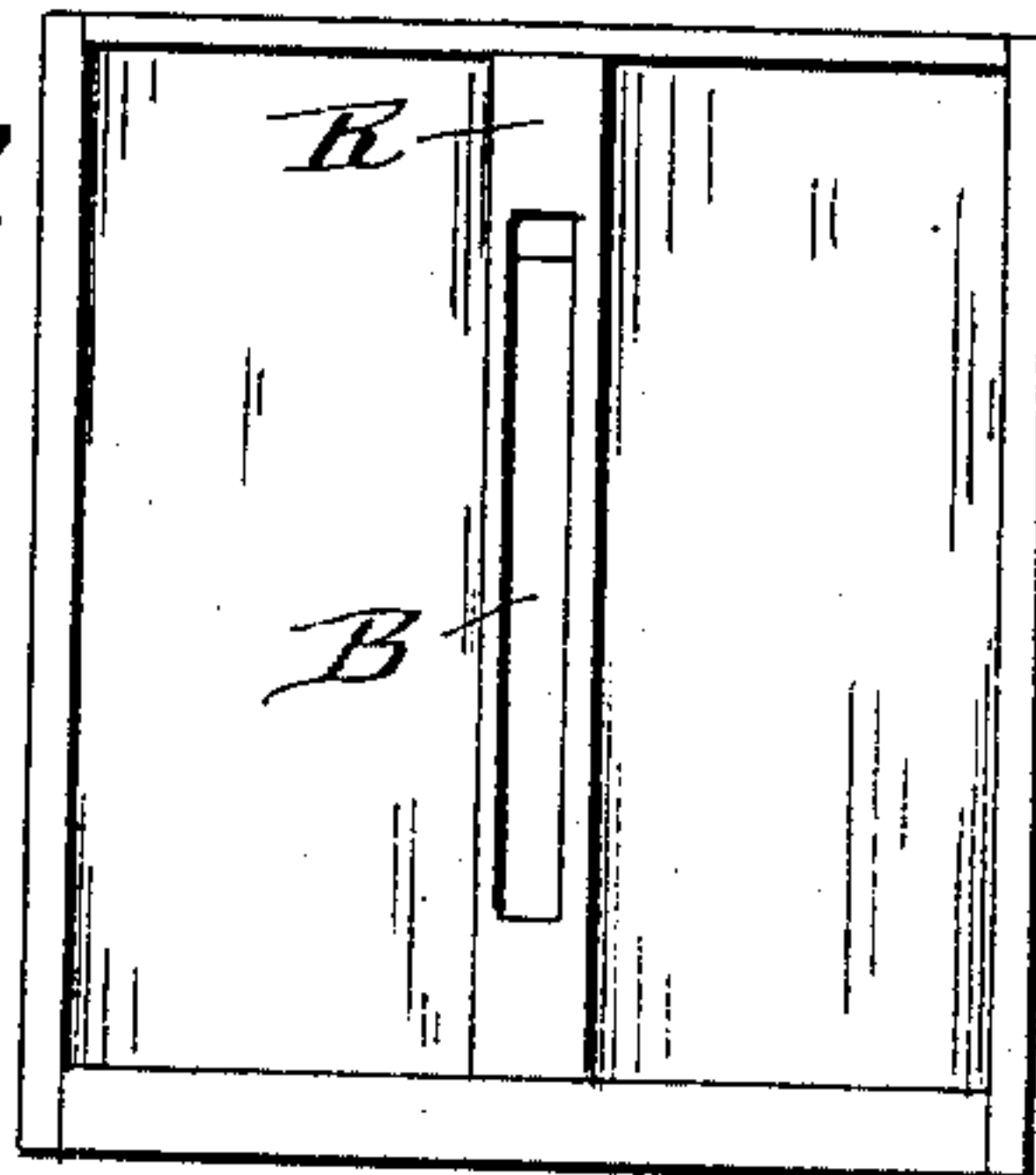


Fig. 6.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN G. BRONSON, OF CHICAGO, ILLINOIS.

WINDOW-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 328,182, dated October 13, 1885.

Application filed April 21, 1885. Serial No. 162,936. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. BRONSON, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Window-Ventilator, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved window-ventilator, which can be applied on any sash, is simple in construction, does not occupy much space, and can be closed easily and rapidly.

The invention consists of the combination of parts, including their construction, substantially as hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front view of a sash side rail provided with my improved window-ventilator, parts being broken out and others being in section. Fig. 2 is a cross-sectional view of the same. Fig. 3 is a sectional plan view of the same on the line *xx*, Fig. 2. Fig. 4 is a face view of a sash side rail constructed with double pieces. Fig. 5 is a front view of a longitudinally-slotted side rail with continuous metal slatting. Fig. 6 shows a sash having its middle rail slotted.

The side rail, A, of the sash is provided with a longitudinal slot, B, and in the same a series of slats, C, are fixed, which are inclined downward from the inside to the outside.

A screen, D, is secured on the inside and outside of the rail A, to keep out the dust, mosquitoes, &c.

On the inside of the rail a recess, E, is formed, in which a frame, F, is held on the inner netting or screen, D, and in the said frame one or two dovetailed slides, G, are arranged, which slide up and down and meet at the middle of the slot; or they can be arranged to slide upward or downwardly, according to their length.

The outer screen or netting, D, is preferably held in place by a frame, H, on the outer side of the rail A.

If desired, the middle rail, R, of the sash may be slotted, as shown in Fig. 6, and the slots and screens formed in the said middle rail. The said middle rail or the side rail may be formed of two strips, S, as shown in Fig. 4, and the slats C held between the said strips.

The slats C need not necessarily be arranged in the manner shown, but may be inclined alternately from one side of the slot to the other, it being essential only that the slats divide the slot into small air-passages, having an outward and downward inclination, so that the entering air-currents will be directed upward toward the ceiling, and a direct current upon the occupants of the room be prevented.

The slats may be formed of a strip or sheet of metal, corrugated diagonally across its breadth, so that when placed in the slot the flexures will extend from one side of the slot to the other, and the triangular passage so made, as shown in a front view in Fig. 5, should slant outward and downward.

If desired, the metal can be corrugated rectangularly instead of triangularly. In place of a slide, G, a hinged cover may be provided.

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

In a window-ventilator, the combination, with the sash side or middle rail, having a slot partitioned off by a series of inclined slats, of the frame let into a recess at each side edge of said slot, the screen or netting interposed between said slats and said frame, and the slide held movably in said frame, substantially as and for the purpose set forth.

JOHN G. BRONSON.

Witnesses:

E. E. CHANDLER,
C. H. CONOVER.