

D. HUSTON.
Window-Shutters.

No. 226,318.

Patented April 6, 1880.

Fig. 3.

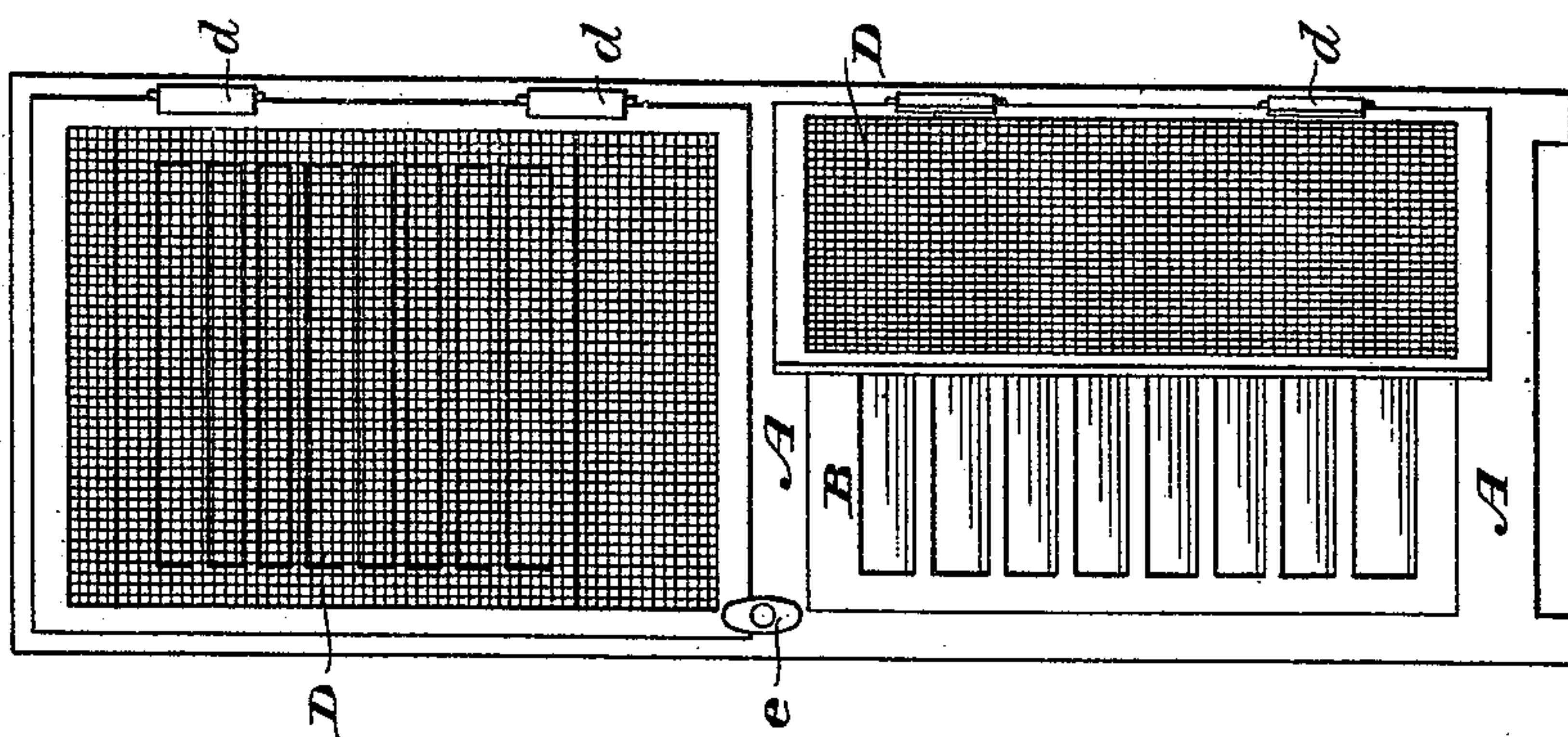


Fig. 2.

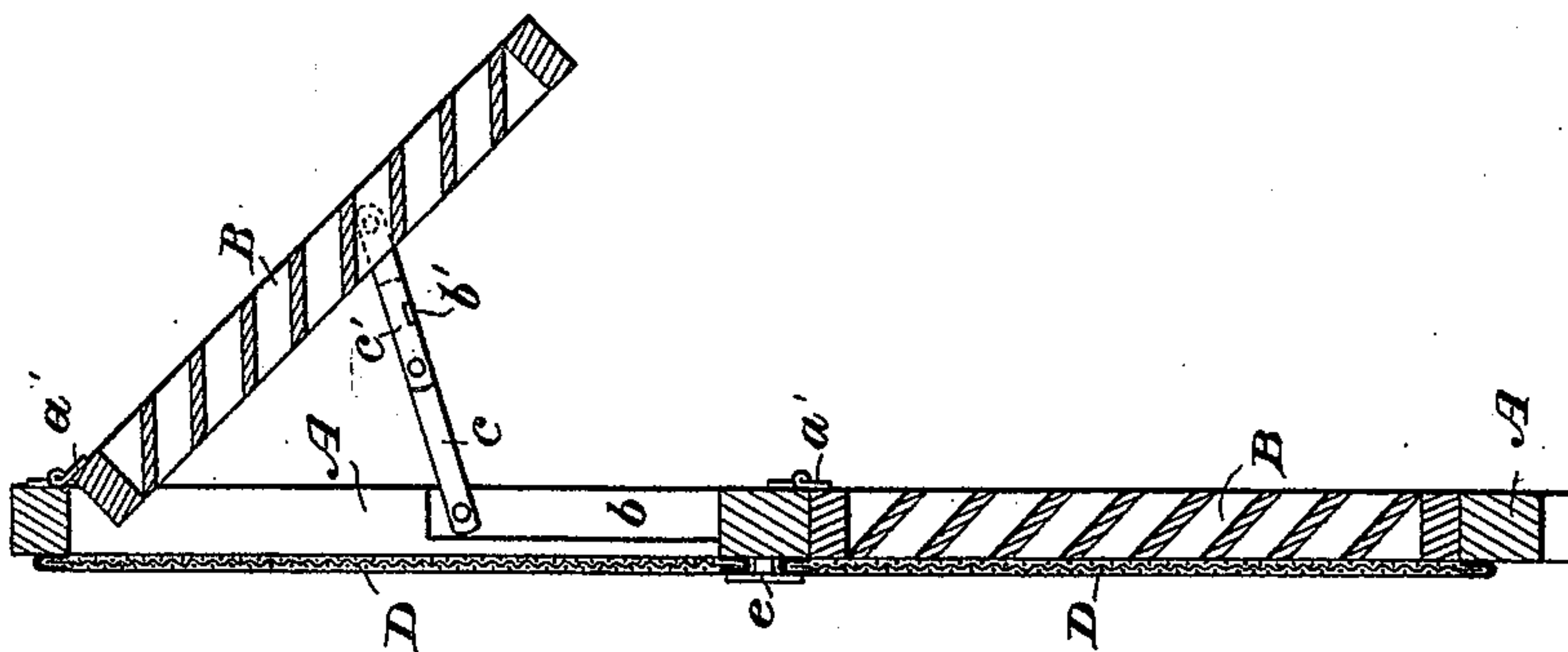
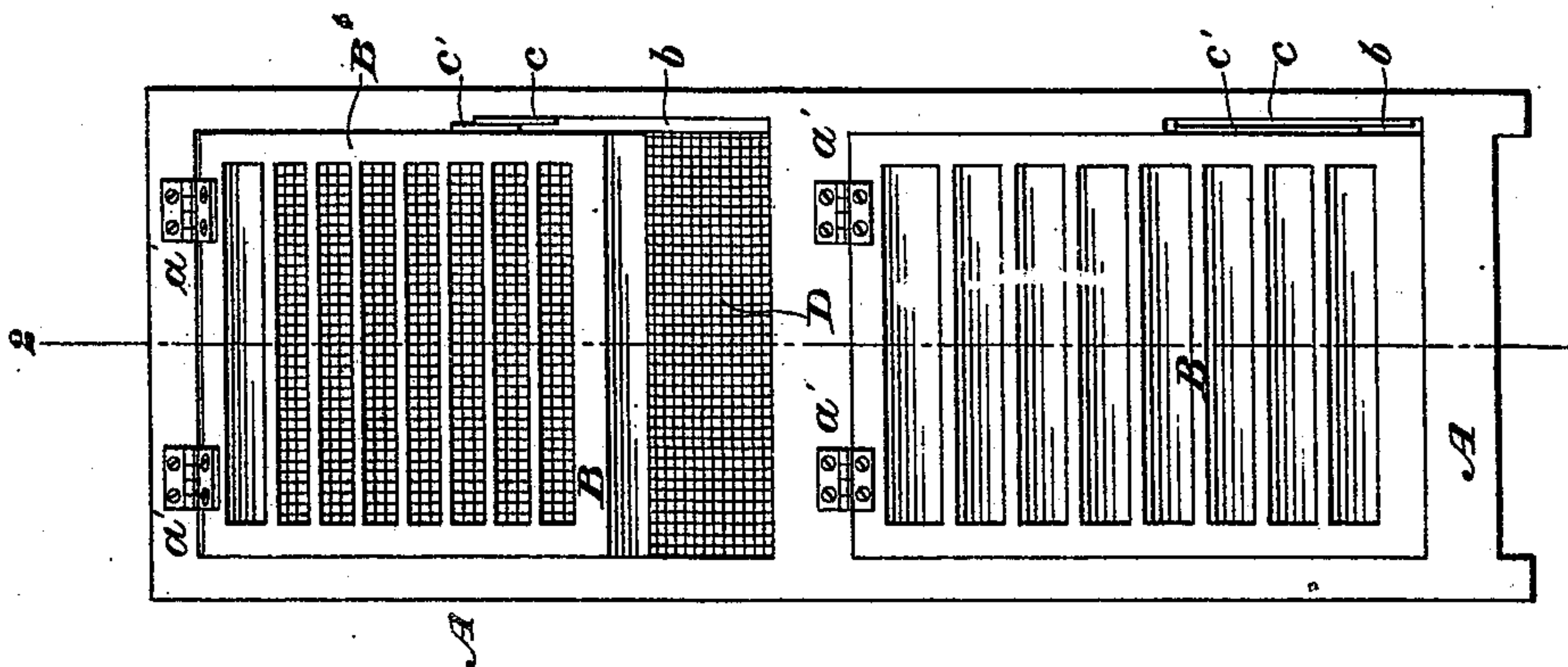


Fig. 1.



WITNESSES

Wm. A. Ginkley.
Geo. W. Buck.

By his Attorney.

INVENTOR

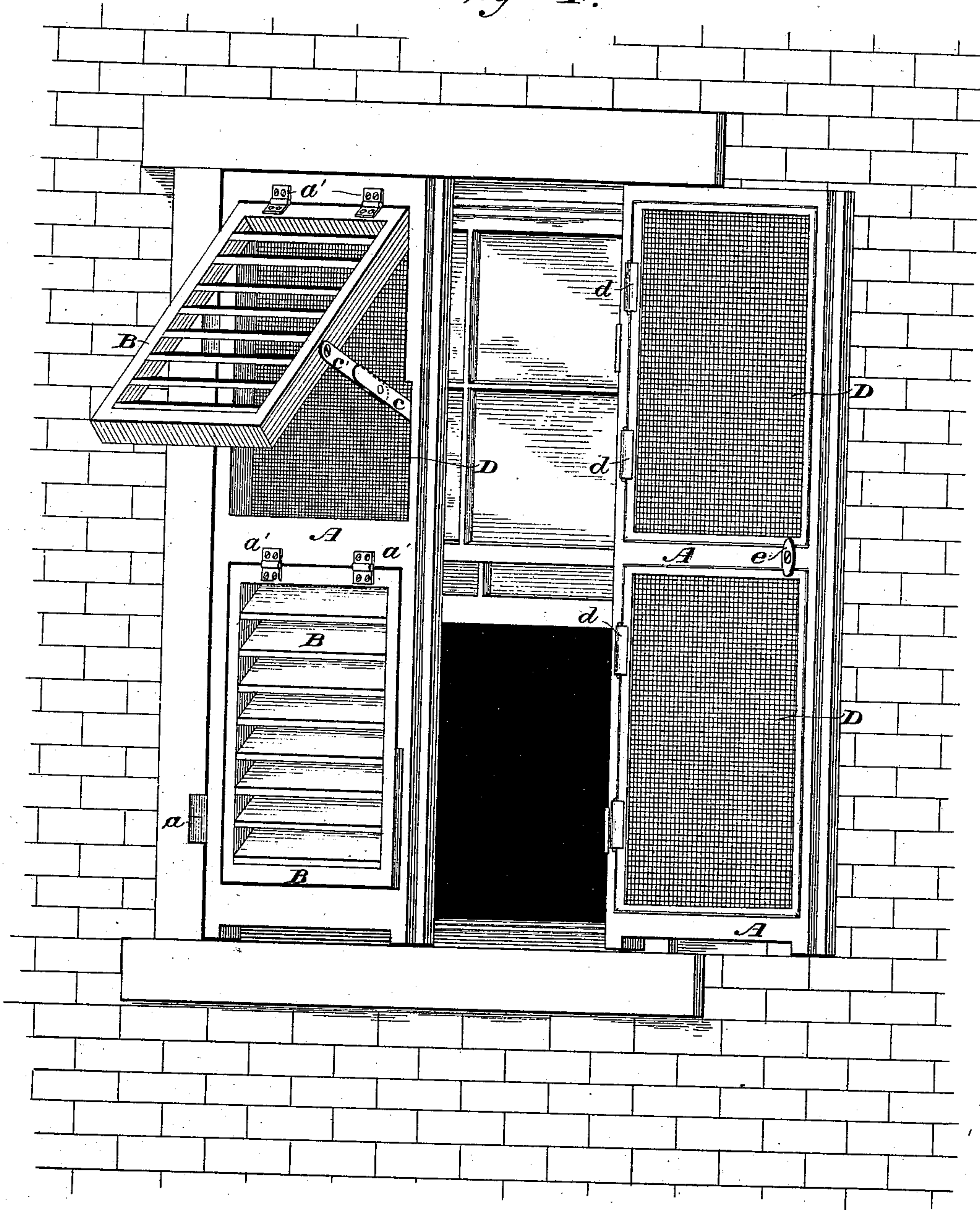
David Huston.
Robert Vose, Jr.

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Fig 4.



WITNESSES

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INVENTOR

David Huston.
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UNITED STATES PATENT OFFICE.

DAVID HUSTON, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF,
DANIEL B. STEDMAN, AND ROBERT VOSE, JR., OF SAME PLACE.

WINDOW-SHUTTER.

SPECIFICATION forming part of Letters Patent No. 226,318, dated April 6, 1880.

Application filed October 27, 1879.

To all whom it may concern:

Be it known that I, DAVID HUSTON, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Window-Blinds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in window-blinds; and it consists in the combination, with the blind or shutters, of a wire screen set on slide-hinges attached to the shutter-frame, so that when the blind is used as an awning the screen covers the space of the panel and forms a complete protection from flies, mosquitoes, or other insects. A metallic frame surrounds the wire screen resting on the side hinges, with fastenings on its opposite sides, so as to keep it at all times in its place. This device also acts as a storm-window, which, when adjusted, will prevent either rain or snow from passing into its inner side, thus protecting the glass of the window from damage and making it perfectly storm-tight.

In the accompanying drawings, Figure 1 is a side elevation of a window having shutters provided with my improvements. Fig. 2 is a vertical section of the same on the line 2 2 of Fig. 1, the blinds in the upper half being opened, so as to form an awning. Fig. 3 is a rear elevation of the shutter, showing the method of attaching and securing the screens which prevent the ingress of insects. Fig. 4 is a perspective view of a window having my improved shutter applied thereto, one of the shutters being open and the upper half of the other raised to form a shade or awning.

A is the outside frame of the shutter, hinged to the window-frame by the hinges *a a*, in the usual manner. Within this frame are placed the auxiliary frame or panels B, hinged at *a'*, and provided with blind-slats, in the usual manner. In one side of the frame A is formed a recess, *b*, which receives the two halves *c*

and *c'* of the extension arm or rod used to hold the frames or panels B in an inclined position when they are employed as an awning, one end of this jointed arm being pivoted to the frame A and the other to the panel, and a small notch, *b'*, formed in the part *c'* of the rod, receiving a lip or projection formed on the part *c*, when the rod is extended, preventing it from doubling up, and allowing the frame B to fall back; but when it is desired to lower the awning the extension-arms are doubled up and fold snugly together into the recess *b* in the main frame of the shutter formed for their reception. Upon the inner side of the frame A is attached by the sliding hinges *d d* the screens, which are preferably formed in two parts, one part covering the upper and the other the lower half of the shutter, and held in place when closed by the button *e* or other suitable fastenings.

It will be seen that the frames or panels B may be placed in position to act as awnings without opening the main frames A, it being merely necessary to open the screens, which turn inward, to obtain access to them, when they may be raised and the screens again closed, thus affording plenty of light and air to the room, while the ingress of insects is wholly prevented.

If it be desired to open the window wholly, the shutter is treated as a common blind, swinging open upon the hinges *a*, as shown in Fig. 4 of the drawings, the whole forming a shutter that performs all the functions of the ordinary blind, insect-screen, and window-awning in a perfectly effectual and satisfactory manner.

The attaching of these screens to the shutters by the sliding hinges *d* makes them easily removable when no necessity for their use exists, and they may be readily attached whenever desired.

I am aware that window-shutters have been hinged at the top to the window-frame and provided with means for holding their lower ends out from the building, so as to act as an awning; but this differs from my invention, in which the shutters are hinged to the window-frame in the ordinary manner, the panels of the shutter alone being adjustable as awnings.

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

In combination with the window-blind frame
5 A, the outside vertically-swinging blind, B,
that can be used as an awning, and the inside
hinged screen or screens, D, as and for the
purposes described.

In testimony that I claim the foregoing I
have hereunto set my hand this 4th day of 10
October, 1879.

DAVID HUSTON.

Witnesses:

ROBT. VOSE, Jr.,
M. W. VOSE.