(No Model.)

J. W. BOUGHTON.

INSECT SCREEN FOR WINDOWS OR DOORS.

No. 375,863. Patented Jan. 3, 1888.

Fig. 1.

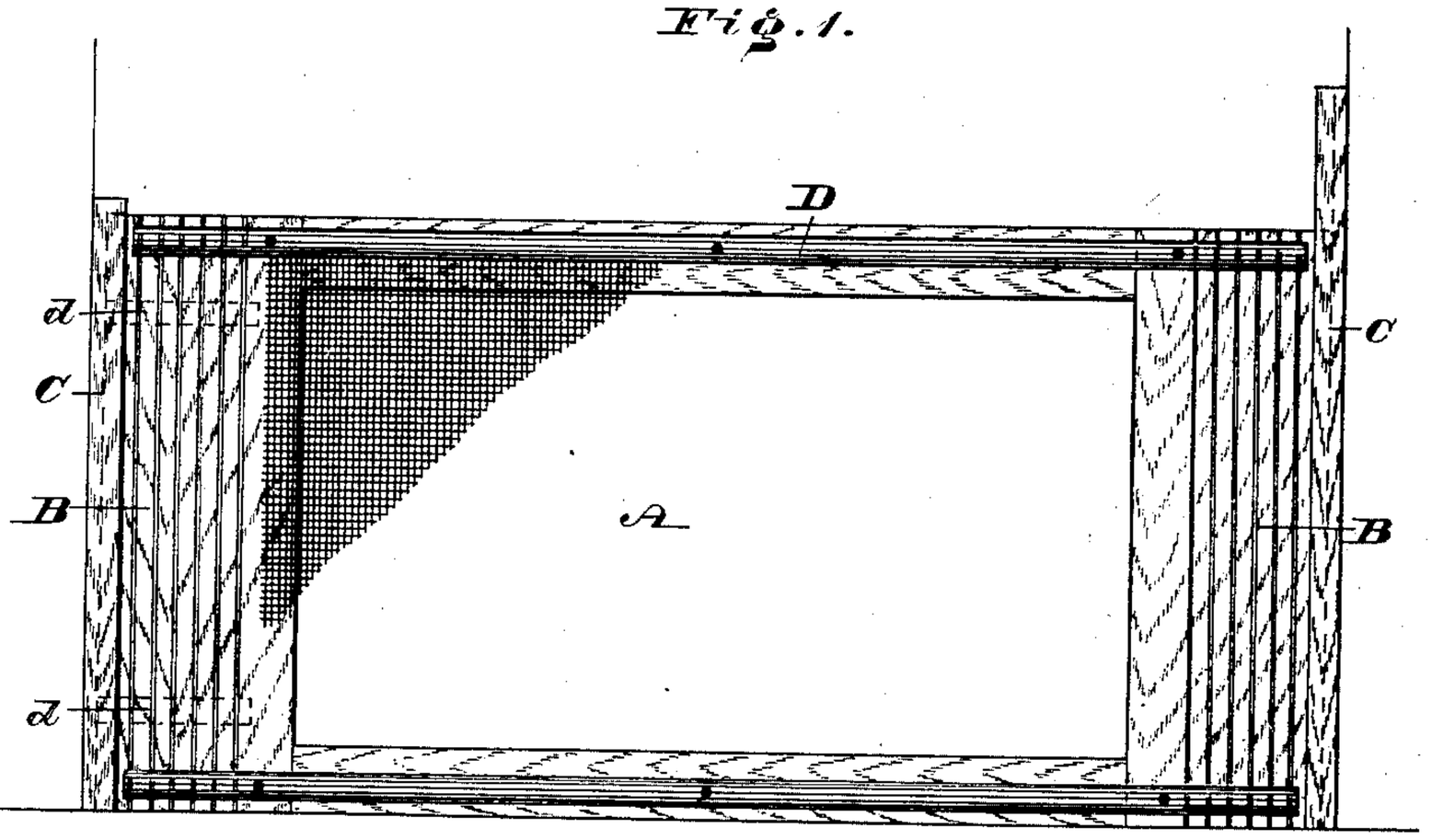


Fig. 2.

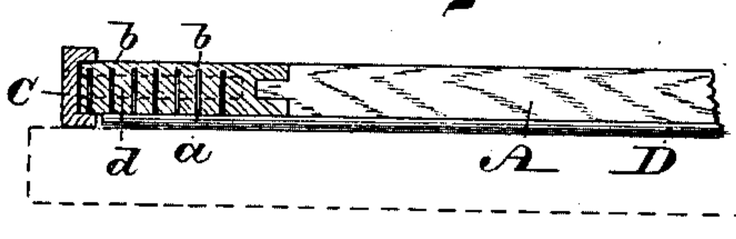


Fig. 3.

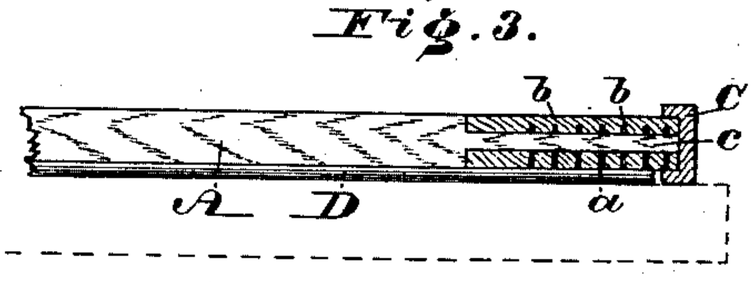


Fig. 4.

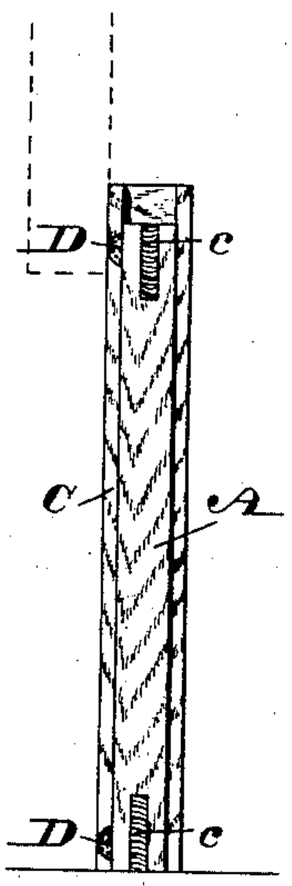
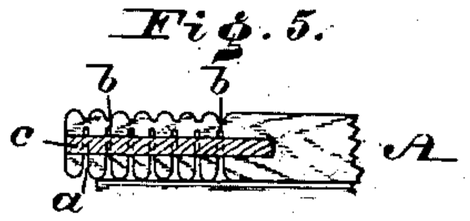


Fig. 5.



WITNESSES:

Th. Rollé.

James F. Kelly.

INVENTOR:

John W. Boughton

BY Wiedersheim & Kintner

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN W. BOUGHTON, OF PHILADELPHIA, PENNSYLVANIA.

INSECT-SCREEN FOR WINDOWS OR DOORS.

SPECIFICATION forming part of Letters Patent No. 375,863, dated January 3, 1888.

Application filed September 26, 1887. Serial No. 250,693. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. BOUGHTON, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Insect-Screens for Windows or Doors, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an insect-screen for a window or door, whose frame may be readily adjusted to the width of a window or door and possessing other advantages, as will be hereinafter fully set forth.

Figure 1 represents a face view of an insect-screen embodying my invention, a portion of the netting being removed. Figs. 2 and 3 represent partial top views and partial horizontal sections of two forms thereof. Fig. 4 represents an end view of Fig. 3. Fig. 5 represents a top view of a portion of a modification.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A represents a window-screen, which, excepting the features of my invention applied thereto, is of usual construction.

B represents the side stiles, the same being of greater width than usual and fitted within the guides C, the latter being secured to the window-frame and serving to retain the screen in position and allowing the same to be raised and lowered, one of said guides being longer or higher than the other, in order to prevent displacement of the screen when elevated beyond the necessary extent. The outer faces of the side stiles are vertically grooved, beaded, or kerfed, as at *a*, and, if desired, both outer and inner faces may thus be constructed, as will be seen in Fig. 5.

The operation is as follows: When it is found that the screen is too wide for the window-frame to which it is applied, the sides of the stiles B are cut off the required extent through the short necks *b*, left in the wood by the kerfs *a*, the latter producing well-defined guides, so that the reduction of the width of the frame or screen may be accomplished with considerable precision. The necks may be cut by an ordinary knife; but other tools or implements may be employed in lieu thereof. In order to strengthen the kerfed stiles, they may be mortised at top and bottom to receive the lengthened tenons *c* of the top rails of the frame of the screen, as seen in Figs. 3, 4, and 5; or dowels *d* may be passed through the stiles, as shown by the dotted lines in Figs. 1 and 2, said tenons and dowels being secured by glue or other means. To the outer faces of the frame of the screen are secured strips D, which extend horizontally along the top and bottom of the frame, so that as the frame is set back from the sash, owing to the guides C, said strips abut against the sash-frame when raised, thus closing the space otherwise existing and preventing the entrance of insects between the sash and screen.

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

1. An insect-screen formed of a single frame with netting thereon, having widened side stiles with vertical kerfs on the front thereof and extending to nearly the back thereof, whereby said stile may be readily narrowed for adjustment to a window, substantially as described.

2. An insect-screen having widened side stiles or rails with kerfs or grooves on the face thereof and strengthening tenons or dowels passing through the kerfed portions, substantially as described.

3. An insect-screen having widened side rails with kerfs or grooves on the face thereof and closing-strips D on the outer face of the same, substantially as described.

JOHN W. BOUGHTON.

Witnesses:

JOHN A. WIEDERSHEIM,

JAMES F. KELLEY.