

(No Model.)

E. H. AMBLER.
WINDOW SCREEN FIXTURE.

No. 391,106.

Patented Oct. 16, 1888.

y' Fig. 1.

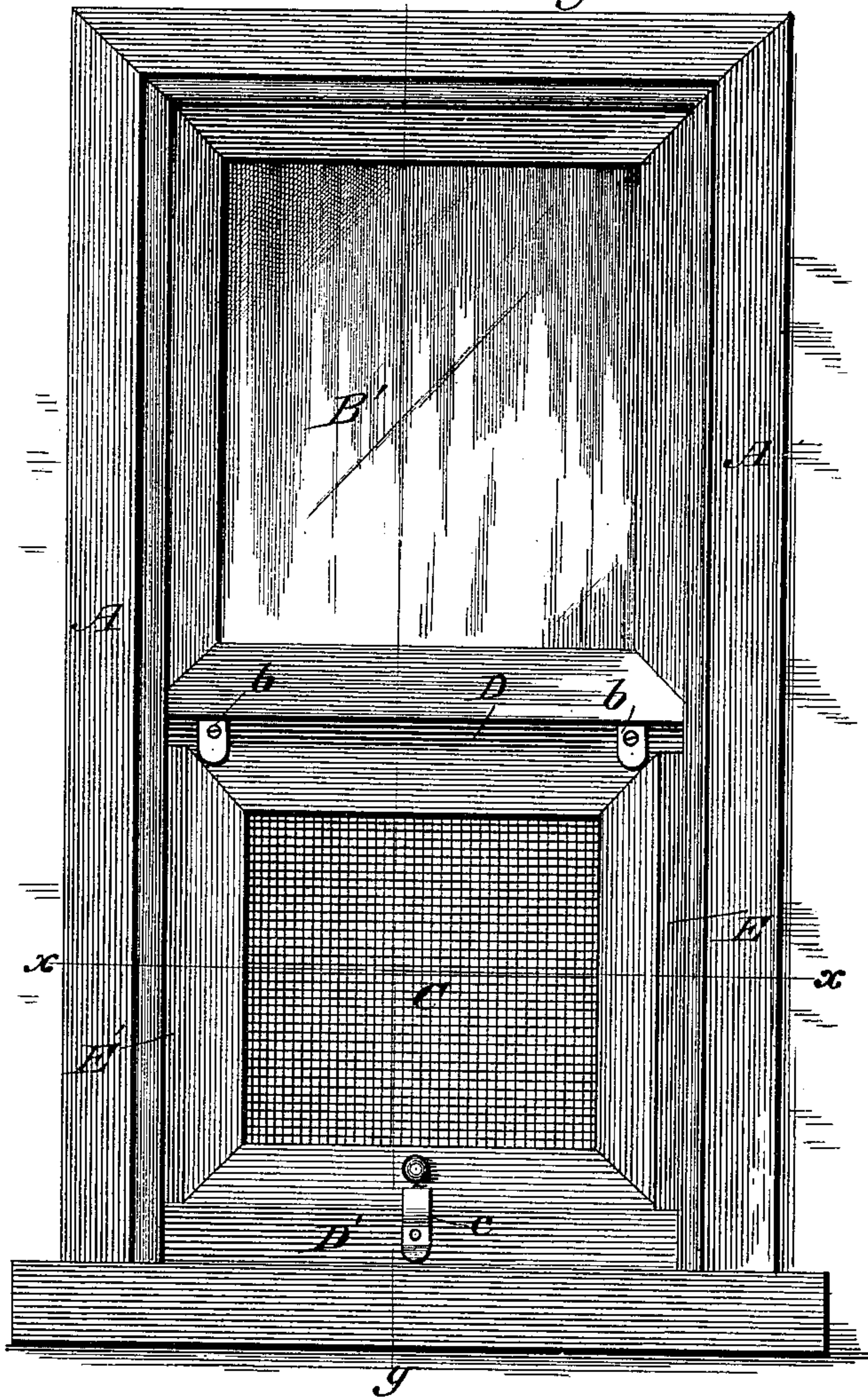


Fig. 3.

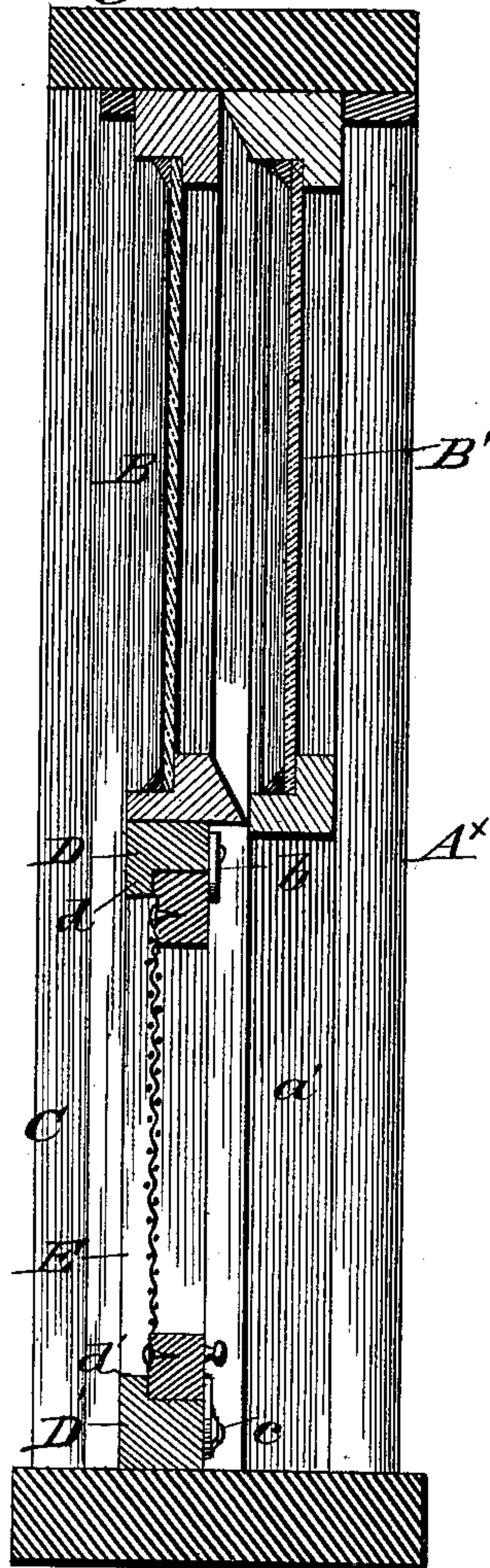


Fig. 4.

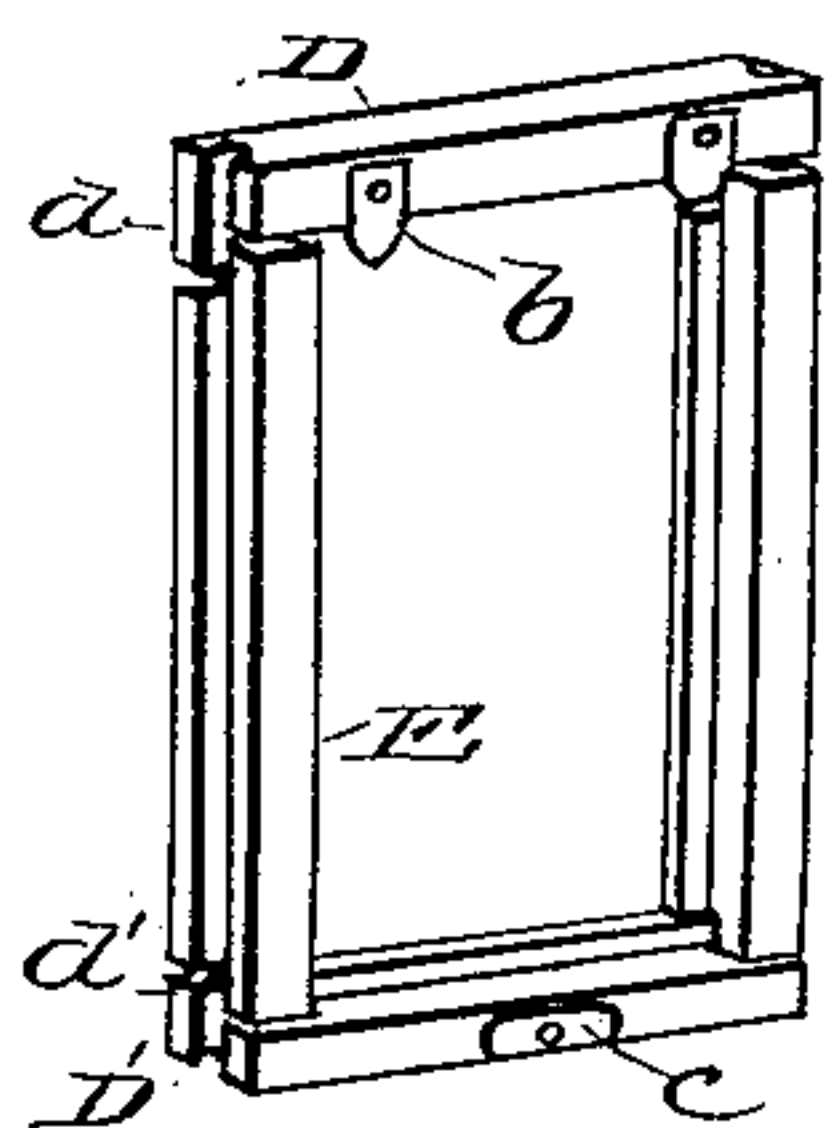
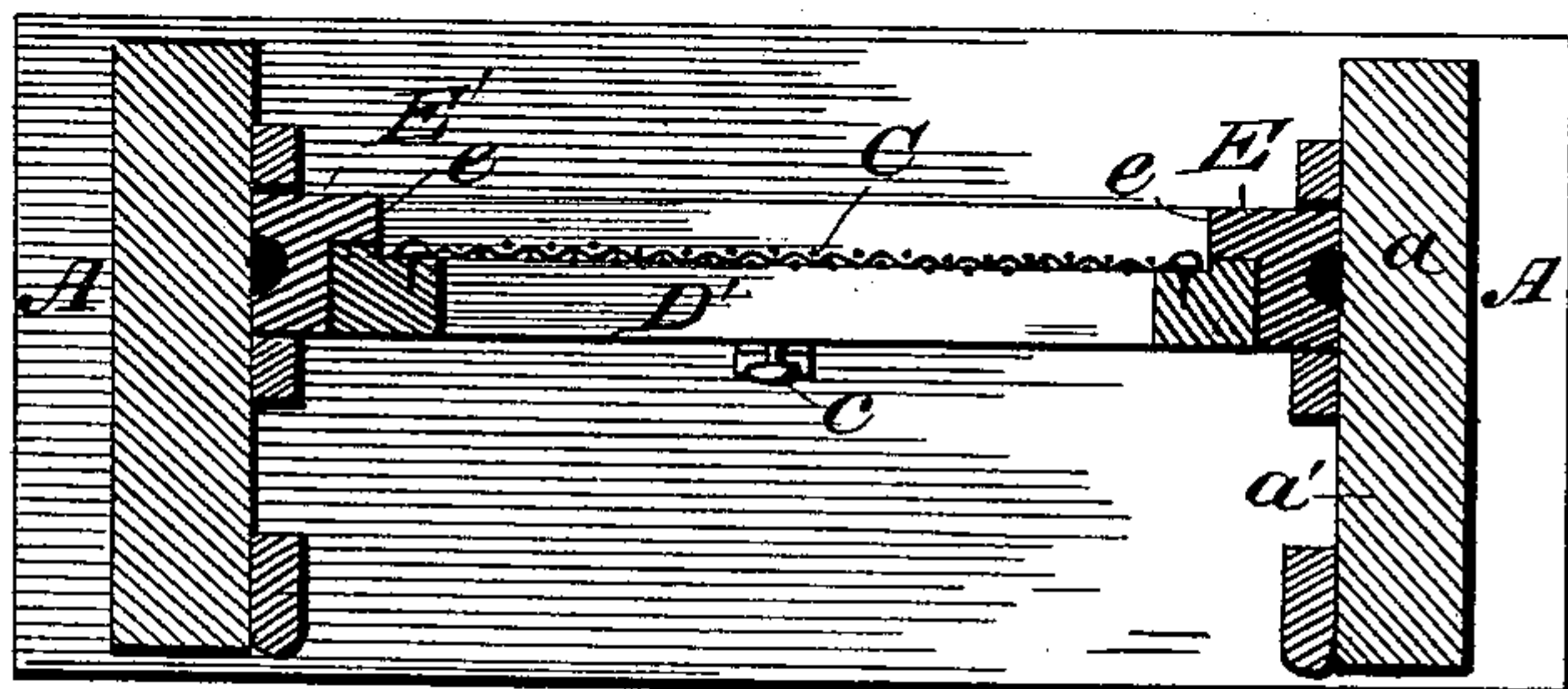


Fig. 2.



WITNESSES:

Fred G. Dietrich
Edw. W. Byrn.

INVENTOR

E. H. Ambler
BY *Munn & Co*

ATTORNEY

UNITED STATES PATENT OFFICE.

EDMUND H. AMBLER, OF BEATRICE, NEBRASKA.

WINDOW-SCREEN FIXTURE.

SPECIFICATION forming part of Letters Patent No. 391,106, dated October 16, 1888.

Application filed June 28, 1888. Serial No. 278,493. (No model.)

To all whom it may concern:

Be it known that I, EDMUND H. AMBLER, of Beatrice, in the county of Gage and State of Nebraska, have invented a new and useful
5 Improvement in Window-Screen Fixtures, of which the following is a specification.

The object of my invention is to provide a set of fixtures to adapt any window to receive a screen of the usual construction,
10 which screen shall not interfere with the raising and lowering of the sash, but may be conveniently taken out and replaced for opening and closing the outside blinds.

It consists in a set of disconnected and rabbeted bushing-strips adapted to fit in the
15 grooves in which the sashes slide, and provided with fastenings for securing the screen therein, as will be hereinafter fully described.

Figure 1 is a front view of the inside of the
20 window-frame provided with my improvement. Fig. 2 is a horizontal section through line *x x*; Fig. 3, a vertical section through line *y y*; and Fig. 4, a perspective view of the bushing-strips on a reduced scale, and showing
25 the said strips in position to be assembled to form a supplementary frame.

A is the window-frame, and B B' its two sashes, which slide, as usual, in the two grooves
30 *a a'* in the sides of the frame.

C is the screen, which may also be made of the usual construction, as an ordinary rectangular frame, provided with a netting of gauze-wire.

D D' and E E' are four bushing-strips,
35 which, together, form a sectional supplementary frame that receives and holds the screen and is seated in the grooves of the frame at the end of one of the window-sashes. These bushing-strips are made of a thickness corresponding to that of the sash, so that they
40 fit in the grooves in which the sashes slide. These strips are each provided with a projecting flange, *d d'* and *e e'*, on their outer edges, formed by rabbeting the strips, which
45 flanges on the top and bottom strips run the full length of the strips, and on the side strips are shorter by the width of the flange on the top and bottom strips, upon which they rest. The top strip, D, is provided with lips or
50 cleats *b* on its inner face, which overlap the edges of this strip and form locking-lugs, behind which the top edge of the screen is seated and secured, and the bottom strip, D', is provided with a button or catch, *c*, which
55 may be turned to lock the lower edge of the

screen after it is seated in the rabbet of the strips.

In adapting my invention to the window-frame the horizontal bushing-strips are adapted in length to the width of the window-
60 frame—*i. e.*, from the inside of one groove to the inside of the other—and the side strips are made of a length to completely fill the space in the side grooves below the upper
65 sash, abutting at the top against the upper horizontal strip, D, and at the bottom against the lower horizontal strip, D', the side strips, E E', and ends of horizontal strips D D' being so grooved as to admit of said cord
70 or chain working without interference when frame and screen are applied to upper part of window-frame. The strips thus hold themselves in place and form a seat inside the
75 flange, which permits the screen to be placed laterally therein, and secured by the lips or cleats *b* at the top and the button or catch *c* at the bottom, the screen and strips resting
80 in the plane of the sash, so as to permit the other sash to be raised or lowered without interfering with its movement.

This screen may readily be taken out and replaced without any change or readjustment of the bushing-strips, and the latter with the
85 screen may be placed in the groove below the upper sash or in the groove above the lower sash, as may be desired.

I am aware that a window-screen has been set in a rigid supplementary frame, as shown
90 in Patent No. 268,101, and I do not claim this construction.

Having thus described my invention, what I claim as new is—

The combination, with a window-screen, of a set of four disconnected rabbeted bushing-strips, D D' E E', made each of the width of
95 the sash-groove, the strips D D' being arranged horizontally and having their opposite ends seated in the sash-grooves on the opposite sides, and the strips E E' being arranged
100 vertically and having their sides seated in the sash-grooves and their ends abutting against the horizontal strips, and fastenings, substantially as described, for holding the screen in the rabbet of the strips, as and for the purpose set forth.

EDMUND H. AMBLER.

Witnesses:

J. E. SMITH,
WM. D. COX.