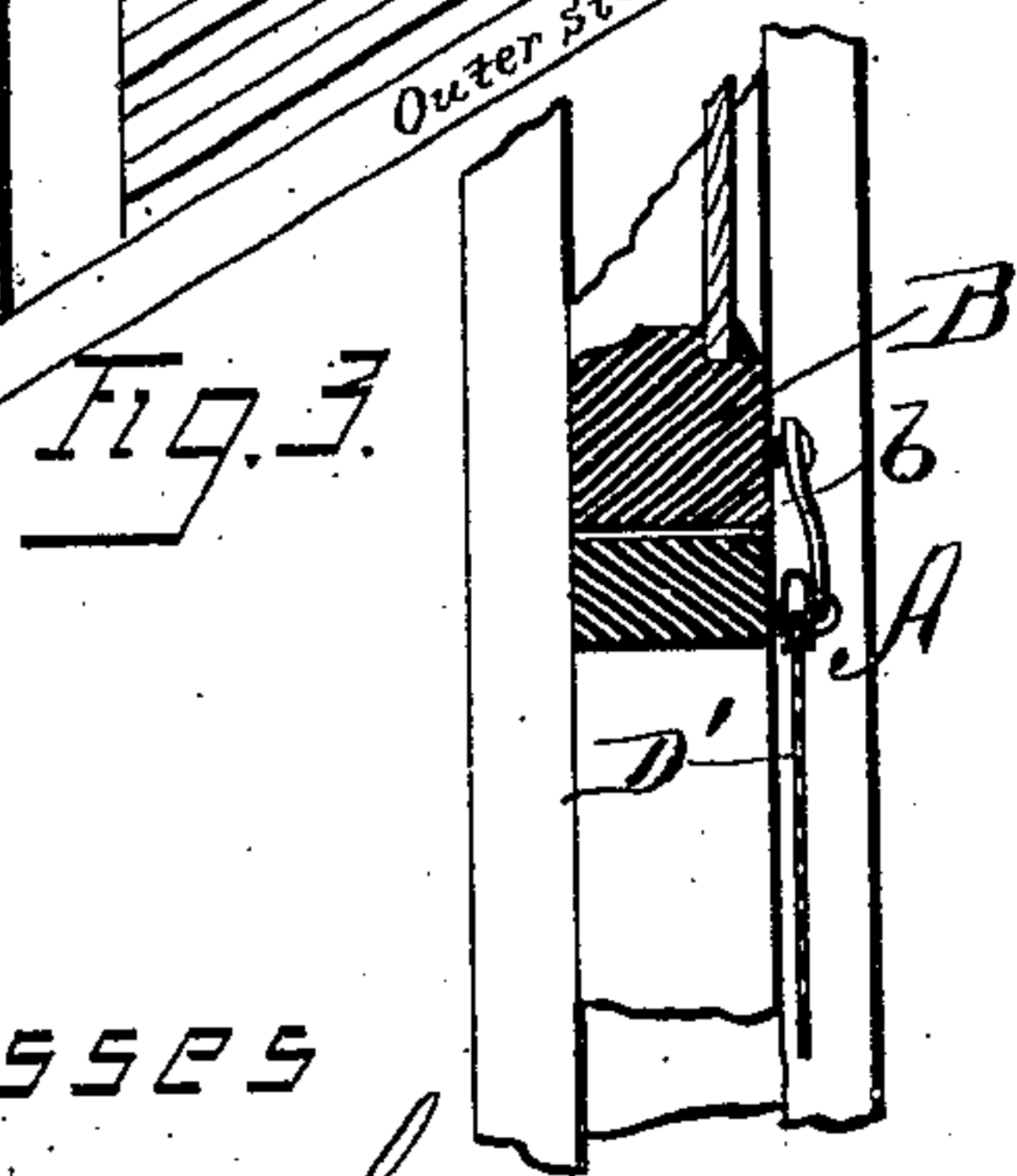
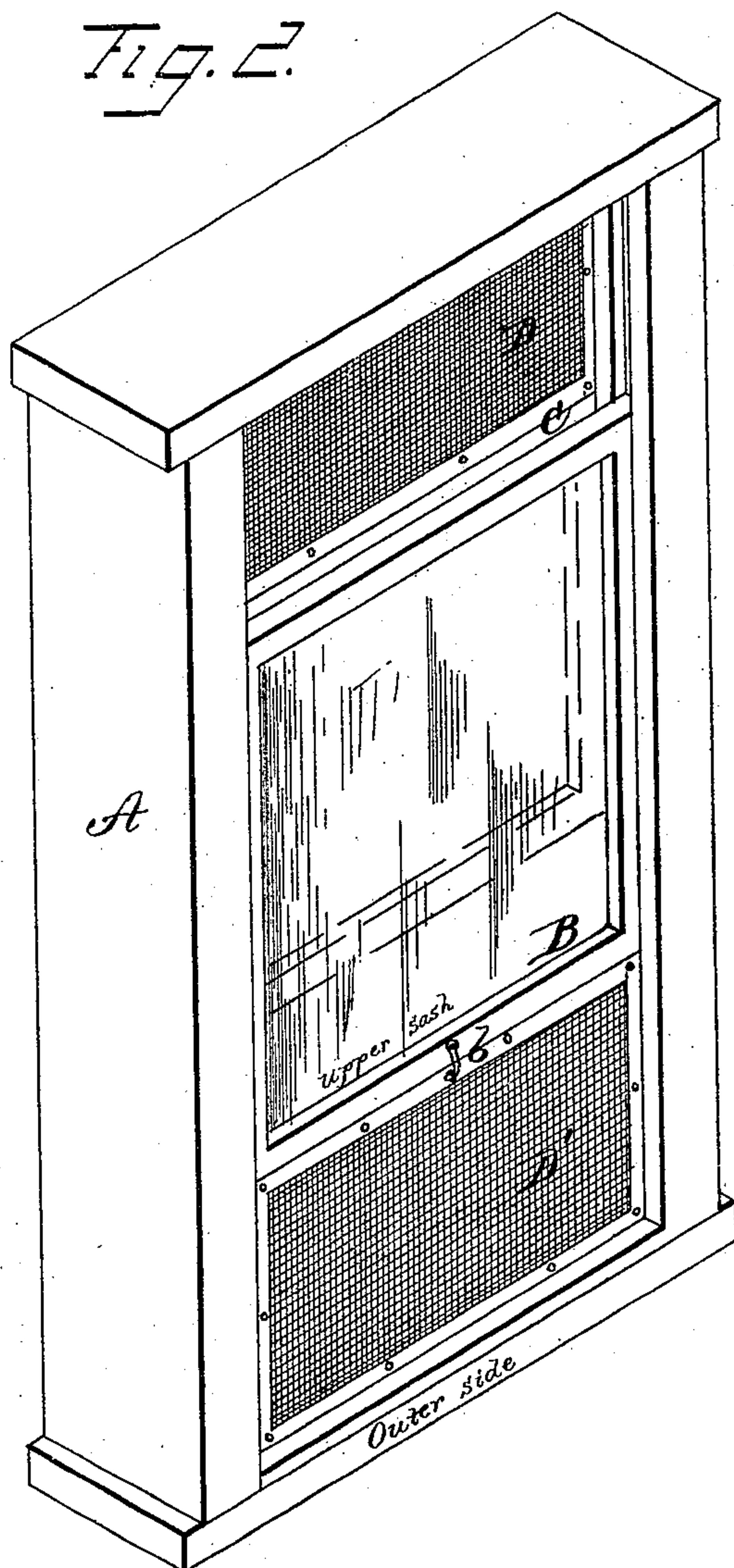
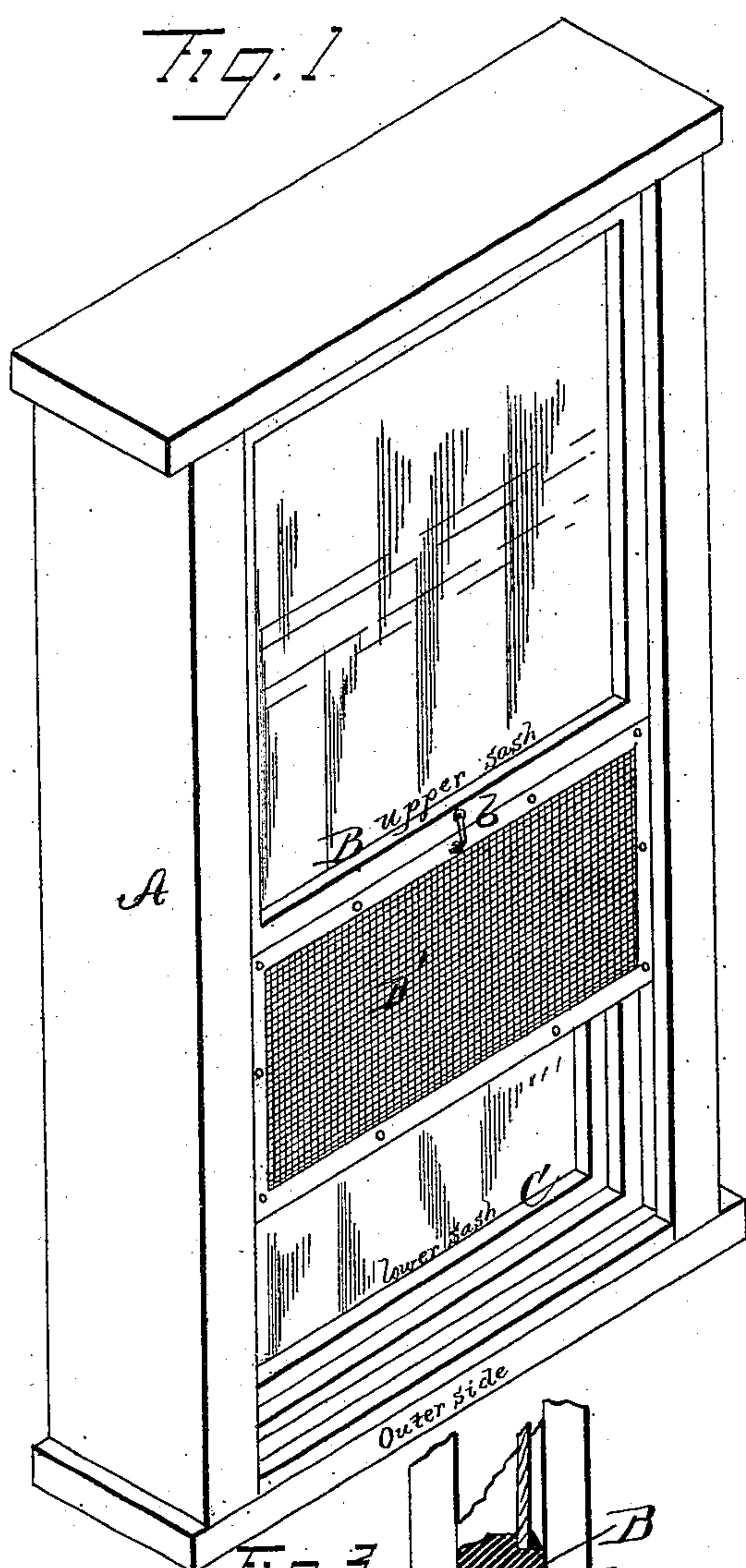


(No Model.)

R. PERRIN.
Window-Screen.

No. 228,384.

Patented June 1, 1880.



Witnesses
H. C. McArthur,
Jos. M. Madigan

Inventor
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UNITED STATES PATENT OFFICE.

RICE PERRIN, OF SPRINGFIELD, MISSOURI.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 228,384, dated June 1, 1880.

Application filed March 31, 1880. (No model.)

To all whom it may concern:

Be it known that I, RICE PERRIN, of Springfield, in the county of Greene and State of Missouri, have invented certain new and useful
5 Improvements in Window-Screens; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon,
10 which form part of this specification.

The nature of my invention consists in the construction and arrangement of a window-screen, as will be hereinafter more fully set forth.

15 In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

20 Figure 1 is a perspective view, showing the window closed; Fig. 2, a perspective, showing the sash opened and screens in position; and Fig. 3 is a detail section of a part of the upper sash and lower screen.

25 A represents an ordinary window-frame, provided with the upper sash, B, and lower sash, C, hung and operated in any of the known and usual ways.

30 D D' represent two wire screens, of such width as to fit in the same grooves in which the sashes move; but these screens are only about half as high as either sash. Each screen is made of a single piece of wire-cloth, with a rim, made of tin or other suitable sheet metal,
35 bent over the edges of the wire-cloth and soldered to it.

This construction renders the screen very light, and at the same time strong and durable.

40 The screen D is placed over the lower sash,

C, resting upon the top rail thereof, while the screen D' is suspended, by a hook, *b*, or other convenient means, from the lower rail of the upper sash, B.

With this arrangement of the screens it will
45 readily be seen that the windows may be closed in the usual manner, and that by raising the lower sash and lowering the upper sash perfect ventilation is obtained, while no flies, mosquitoes, &c., can get into the room.

I am aware that screens have been arranged
50 to move with the ordinary window-sashes; but in such case as known to me one screen is placed at the bottom of lower sash and the other at the top of the upper sash, which necessitates pockets or chambers in the window-
55 frame to close the windows.

In my invention one screen is on top of the lower sash and the other suspended from the bottom of the upper sash, whereby I dispense
60 with such pockets or chambers; and my invention can be applied to any window without any alteration or change whatever in either the frame or sashes.

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

In a window, the combination, with the upper and lower sashes, of two screens, one resting upon the top of the lower sash and the
70 other suspended from the bottom of the upper sash, substantially for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of
75 two witnesses.

RICE PERRIN.

Witnesses:

M. FORD,
GEO. TEDRICK.