

E. BOYDEN & A. D. WARREN.
Double Windows with Blinds and Screens.
No. 196,186. Patented Oct. 16, 1877.

Fig. 1.

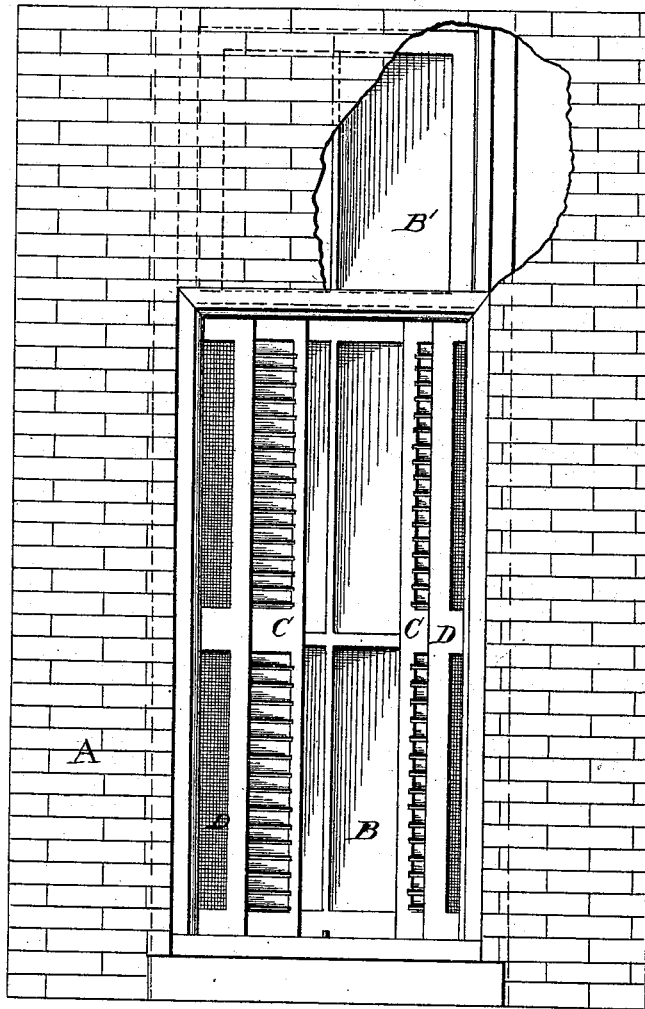
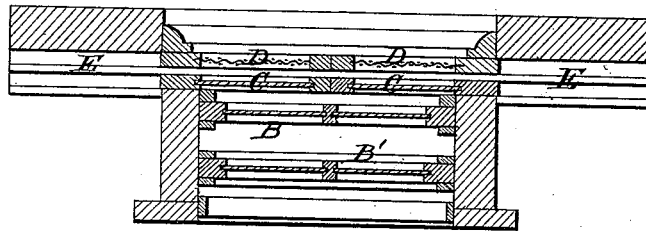


Fig. 2.

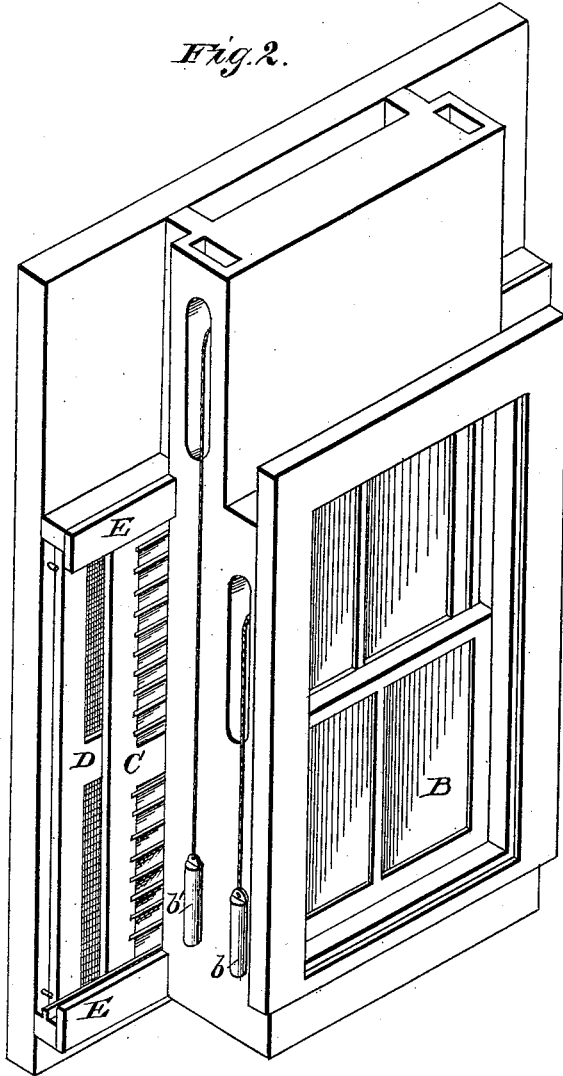


WITNESSES
Frank L. Curand
P. Mc Nickle

INVENTOR
E. Boyden and A. D. Warren.
by L. Deane.
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UNITED STATES PATENT OFFICE.

ELBRIDGE BOYDEN AND ALFRED D. WARREN, OF WORCESTER, MASS.

IMPROVEMENT IN DOUBLE WINDOWS WITH BLINDS AND SCREENS.

Specification forming part of Letters Patent No. **196,186**, dated October 16, 1877; application filed June 11, 1877.

To all whom it may concern:

Be it known that we, ELBRIDGE BOYDEN and ALFRED D. WARREN, of Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Combining Double Windows, Blinds, and Screens with Windows, of which the following is a specification:

Figure 1 is a front elevation. Fig. 2 is a perspective view from the rear. Fig. 3 is a section to show a top view of the parts in position.

The design of our present invention is to provide easy, safe, and convenient means for applying double windows to buildings, and, likewise, blinds and screens; and it consists, more particularly, in the construction of a suitable pocket, or pockets or receptacles, adjacent and contiguous to the window, into and from which the said blinds, screens, or double windows, one or all, may, on occasion, be moved, all as will now be more in detail set out and explained.

In the accompanying drawing, A denotes any ordinary house-wall. In the window-opening of this is adapted, in any ordinary and usual way, the window B, provided with usual hoisting-weight, *b*. In the walls, on each side of the window, and also above the window, such suitable opening or openings are made, by casing or otherwise, as to afford proper and convenient space into which, as desired, the double window B, may be raised entirely above and away from window B, and, likewise, like receptacles for containing blinds C or screen D.

We have now illustrated the blinds and screen as adapted to be moved sidewise in guides E; but half-round tracks can be used for this purpose, or rollers, or any well-known means that the needs of the case, or the character of the wall, or the climate, or other conditions may render proper, expedient, or desirable. The blinds and also the screens may be made as a whole or in two parts—an upper and lower—each adapted to be moved independently of the other. Thus a quarter of the blind may be opened—that is, moved aside—or half, or three-quarters, or the entire blind. So, in like manner, with the screen.

We have now shown the double window

made with two sashes, and furnished with weights *b'*, and fitted to be raised or lowered, as the usual window-sashes are; but while such construction and arrangement have some marked features of advantage, we do not limit ourselves to this; for we propose, if desired, to adapt the double window-sash to the window in like manner as we have above explained in regard to the blind and screen—that is, the said double window may be slid into a receptacle or pocket at the side or sides of the window or window-frame; and the said double window may also be so adapted as that the two sashes may be so moved together, or each by itself, or it may be so made and used as a whole—that is, in one sash.

Under some circumstances it may be found desirable to have the windows in receptacles, as aforesaid, below the window; and so may the application of the blinds or screen be adapted that they can be used in like manner.

It will be evident that we do not intend to limit ourselves to the mere detail of construction now represented, but desire to have this simply illustrate the object; aim, and scope of the invention we have made.

In usual construction it will be found best to make provision for this pocket or receptacle when building the house or like structure; but such pocket or receptacle can be easily made in the walls of buildings already constructed, or upon the inside or outside thereof. All such detail of construction would, of course, readily suggest itself to any practical mechanic.

We are aware that heretofore sliding shutters have been provided on the inside for the windows; also, that blinds have been adapted to slide upon the face of the wall on windows flush with the same, and on the outside thereof; also, that flexible metal screens or covers have been so applied outside the window as to be capable of being moved vertically or horizontally into suitable receptacles at the top or side of the windows. But we claim none of these, and limit our assertion of novelty to our peculiar and original construction, combination, and method of use, which, it will be observed, differ in all essential detail from the foregoing.

Having thus described our invention, what

we claim as new, and desire to secure by Letters Patent, is—

In combination with a house-window, B, the double or supplementary window B', applied outside, and adapted to be moved out of position and into a pocket or receptacle in or upon the house-wall above, below, or at one side of the said window, all combined and arranged substantially as and for the purposes set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

ELBRIDGE BOYDEN.
ALFRED D. WARREN.

Witnesses:

DANIEL J. BURGESS,
J. B. WOODWORTH.