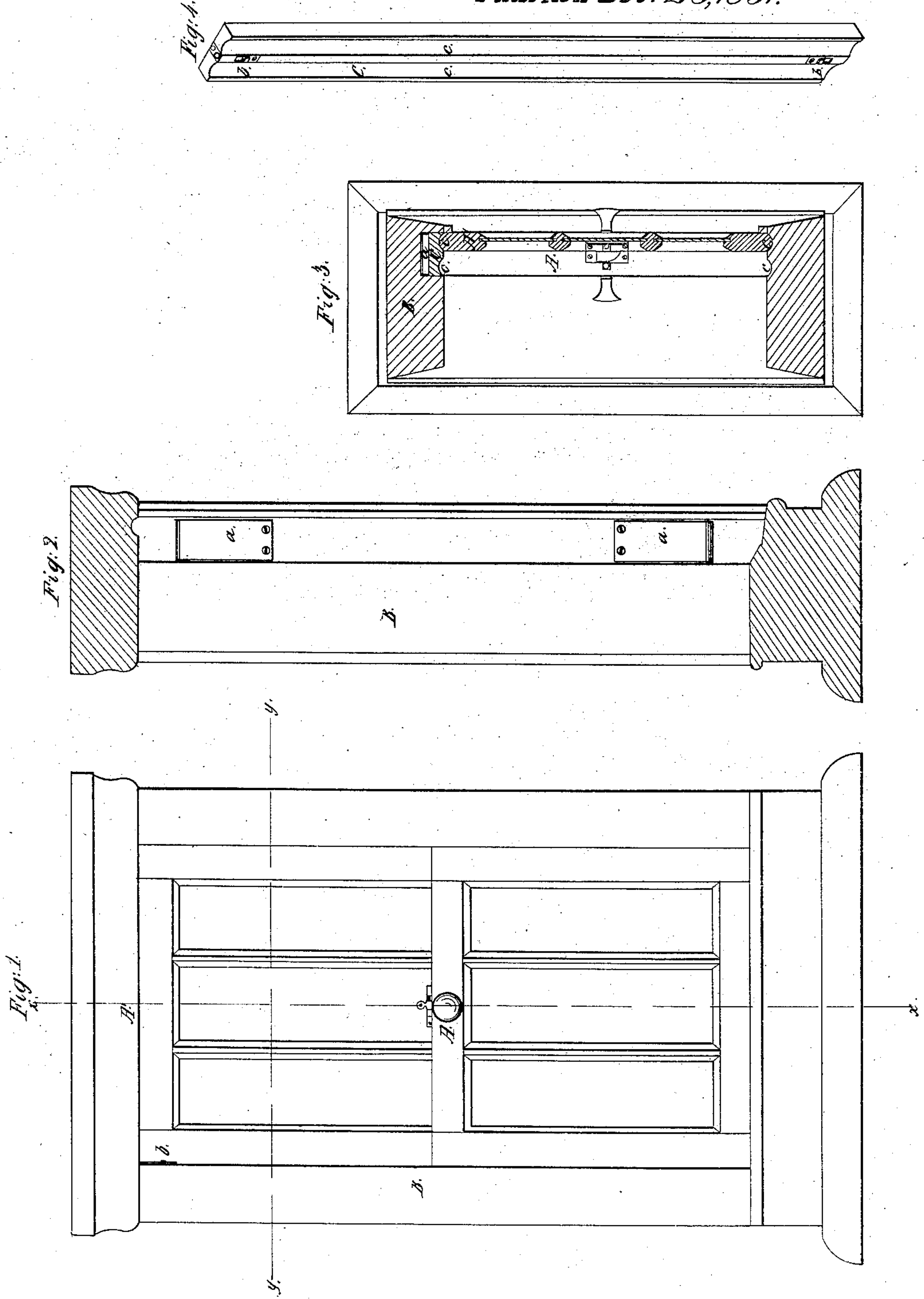


*S. D. Muzz.*

*Window.*

*N<sup>o</sup> 8,611.*

*Patented Dec. 23, 1851.*



# UNITED STATES PATENT OFFICE.

SAMUEL D. NIMS, OF PALMER, MASSACHUSETTS.

## METHOD OF HANGING WINDOW-SASHES.

Specification of Letters Patent No. 8,611, dated December 23, 1851.

*To all whom it may concern:*

Be it known that I, SAMUEL D. NIMS, of Palmer, in the county of Hampden and State of Massachusetts, have invented a new and  
5 Improved Manner of Arranging and Securing Window-Sashes within Their Frames; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in  
10 which—

Figure 1, is a front elevation of a window constructed in my improved manner; Fig. 2, a vertical section of the same, in the line *x*,  
15 of Fig. 1, the sashes and part of the window frame being removed; Fig. 3, horizontal section of the same, in the line *y*, of Fig. 1; and Fig. 4, a perspective view of a portion detached.

20 Like parts are designated by similar letters in all the figures.

I construct the window frame and sashes in the usual manner; but instead of securing the sash in its frame by means of the common slats, I make use of grooves *c, c*, either  
25 in the window frame or edge of the sashes *A, A'*, into which corresponding projections on the adjacent part of the sashes or frame fit accurately. One side of the window  
30 frame is firm, and the other side I make elastic and yielding by means of the following device. In one side of the window frame *B*, is a recess, into which a movable piece *C*, is accurately fitted. Said piece should be  
35 thin enough to allow its being sunk into the recess of the window frame for inserting and removing the sashes, which fit into it by means of grooves and projections *c, c*, the same as above described. Behind the afore-  
40 said piece *C*, are springs *a, a*, which press it against the window sashes with sufficient force to hold them securely and tightly in the frame, and also to keep them in place, when raised or lowered, if desired.

45 When the sash is to be inserted in, or taken from its frame, one side is pressed against the movable piece *C*, forcing back its springs *a, a*, which allow the sash to pass into or out of the grooves or projections of the opposite

side of the window frame, and hold it in 50 them when introduced. Should said springs *a, a*, be so strong as to make it inconvenient to remove or insert the sashes, the sliding bolts *b, b*, are to be used to hold the piece *C*, back until the sashes are removed or inserted 55 in their places.

By my above described improved manner of constructing windows, the sashes can be put in or taken out in a few seconds. They are also held up in any position without any 60 additional contrivance. Another advantage is that the window is rendered air-tight, and no inconvenience arises from the wood swelling in damp weather. It also is free from rattling by the wind or other cause, a quality 65 which renders it peculiarly adapted to railroad cars.

I am aware that strips acted upon by springs, have been placed in grooves in window sashes, and also in grooves in the casing 70 for acting on the sashes for the purpose of excluding air and for sustaining the sashes when raised, in place of weights, and therefore, I wish it to be understood that I do not claim the said arrangement as any part of 75 my invention. But

What I do claim as my invention and desire to secure by Letters Patent, is—

The manner herein described of arranging and securing window sashes in their frames, 80 by means of grooves *c, c*, in the sides (*C*,) of the window frame (or casing) that receive the edges of the sashes, (or by projections from the sides of said frame or casing that fit into grooves in the edges of the 85 sashes;) and by making one or both sides of the window frame, or casing, movable and elastic by means of the springs *a, a*, or their equivalents.

The above specification of my improved 90 manner of arranging and securing window sashes within their frames signed this 13th day of Nov., 1851.

SAML. D. NIMS.

Witnesses:

Z. C. ROBBINS,  
J. T. BROWN.