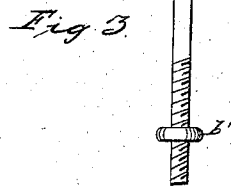
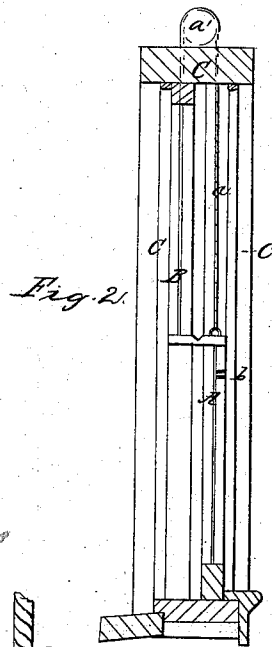
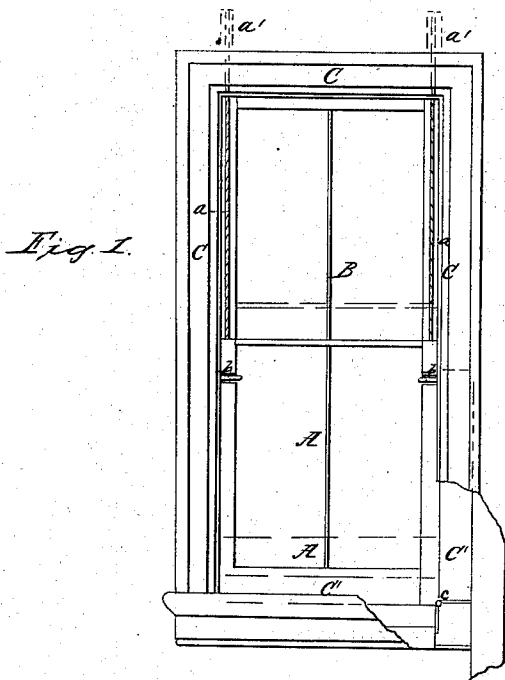


C. Allen,
Sash Balance.

N^o 66,276.

Patented July 2, 1867.



Witnesses:
Chas. H. Hoyle,
C. G. Pratt.

Inventor:
C. Allen
By his Atty.
W. Randolph & Co.

United States Patent Office.

CHARLES ALLEN, OF PETERSBURG, ILLINOIS.

Letters Patent No. 66,276, dated July 2, 1867.

IMPROVEMENT IN HANGING AND VENTILATING WINDOW-SASH.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES ALLEN, of Petersburg, in the county of Menard, and State of Illinois, have invented a new and useful Device for Hanging Window-Sashes; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of this invention consists in an improved method of hanging the upper and lower sashes of a window by means of a single cord passing over a stationary pulley at the top of the frame, the two sashes being attached to the opposite ends of the same cord and arranged to balance each other. This much of the device is, I am aware, not new, but it is rendered available and perfectly adapted to the purpose for which it is intended by an arrangement for tightening the cord and adjusting it in such a manner as to keep both sashes in their proper relative positions. Provision is also made for closing the lower portion of the window tightly, while the top part is opened slightly for ventilation.

To enable those skilled in the art to make and use my improved windows, I will proceed to describe their construction and operation.

Figure 1 of the drawings is a front elevation of the window complete.

Figure 2 is a sectional transverse elevation.

Figure 3 is an elevation of the tightener.

The sashes A and B are fitted into grooves in the frame C, as usual, and are connected together by a cord, *a*, attached to the top of each sash, and passing thence over a pulley or sheave, *a'*, on top of the frame. The sash A has a tightener, *b*, as shown more clearly in fig. 3, to which the cord is attached. When the loosening of the cord requires its readjustment this tightener may be used for that purpose by simply turning the nut *b'* either up or down until both sashes are properly arranged. The tightener *b* may be a simple screw eyelet-pin passing down through the wood of the sash, and having its nut *b'* of such a size and so arranged as to present its edge through a mortise cut in the face of the sash-stile for it, and it may there be operated by a person's thumb and fingers. It will of course be judicious to place washers on the pin of *b* each side of the nut *b'*. A piece of wood, *C'*, hinged to the frame at *c*, may be folded up into the pocket prepared to receive it in the side of the frame, when both sashes are to be opened or closed, but when it is required to close the bottom portion of the window while the top is left open for ventilation this piece should be thrown down upon the sill under the sash, as shown in fig. 1.

Having described my invention, what I claim, is—

The tightener *b b'*, when applied to the cord *a* of the sashes A B, substantially as described and set forth.

I also claim the ventilating-piece *C'* applied to the frame C, in combination with the self-balancing sashes A B and cord-tightener *b b'*, substantially in the manner and for the purpose set forth.

CHARLES ALLEN.

Witnesses:

N. W. BRANSON,
HOMER STEWART,
DANIEL KYLE.