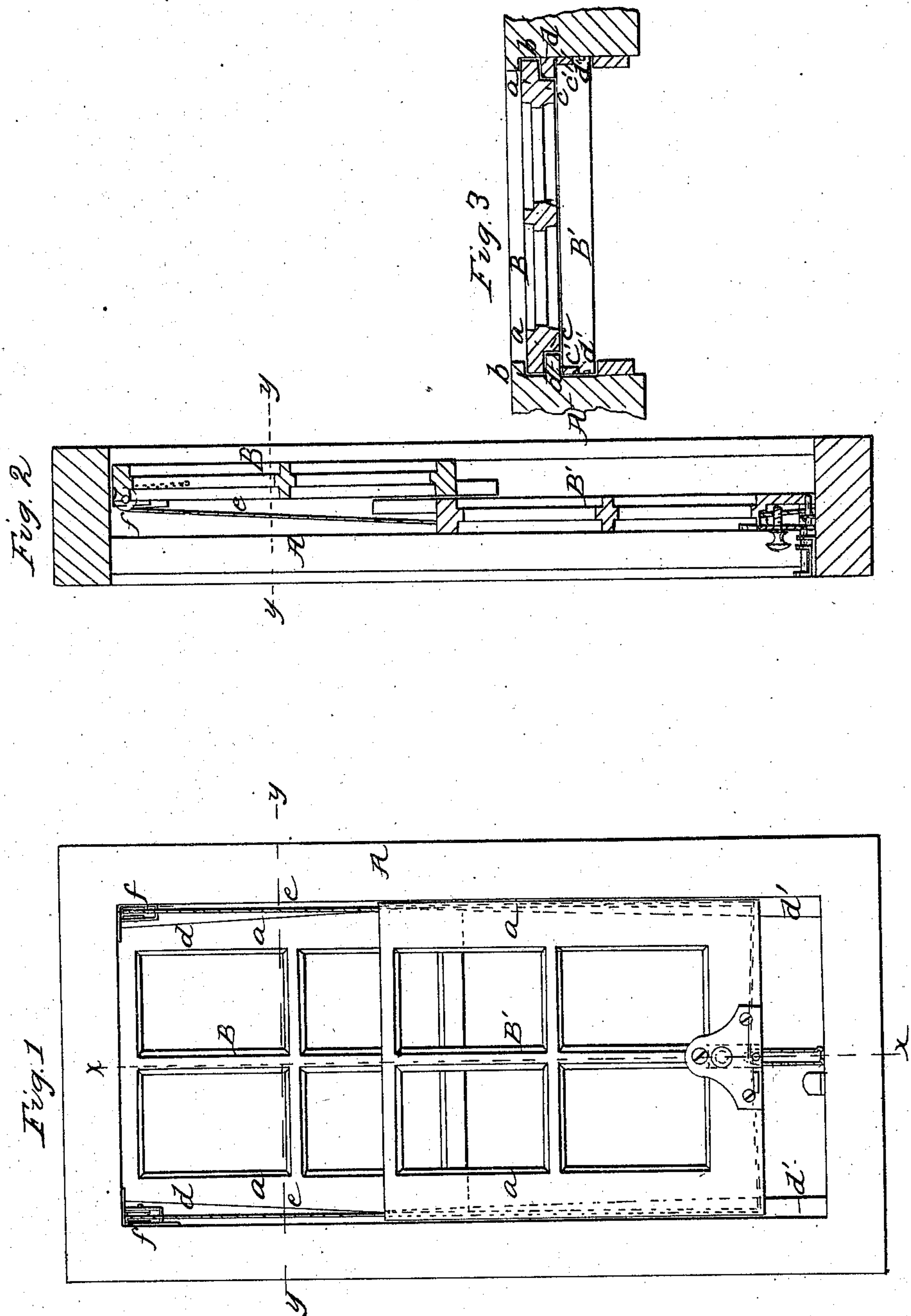


L. E. Payne,
Sash Balance.

N^o 12,828.

Patented May 8, 1855.



UNITED STATES PATENT OFFICE.

LYMAN E. PAYNE, OF YAZOO CITY, MISSISSIPPI.

WINDOW-SASH.

Specification of Letters Patent No. 12,828, dated May 8, 1855.

To all whom it may concern:

Be it known that I, LYMAN E. PAYNE, of Yazoo City, in the county of Yazoo and State of Mississippi, have invented a new and improved mode of arranging or adjusting window-sashes within their frames so as to render the sashes, when closed, perfectly tight within the frames; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a front view of two sashes placed or adjusted within their frame or casing. Fig. 2, is a transverse vertical section of ditto, *x, x*, Fig. 1, showing the plane of section. Fig. 3, is a horizontal section of ditto, *y, y*, Fig. 3, showing the plane of section.

Similar letters of reference indicate corresponding parts in the several figures.

The nature of my invention consists in having beveled strips attached to the inner sides of the casing and having rabbets cut in the sides of the stiles of the sashes, in which rabbets the beveled strips fit, so that when the sashes are closed they are rendered perfectly tight and still will move easily or freely when raised or lowered.

To enable others skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents the frame or casing constructed in the usual manner and B, B', represent the sashes. The outer edges of the stiles (*a*), of the sashes are fitted in recesses (*b*) in the inner sides of the frame or casing as clearly shown in Fig. 3, and the inner surfaces of the stiles have rabbets (*c*), cut in them. On the inner sides of the frame or casing A, there are attached strips (*d*), (*d'*), the outer edges of which are beveled see Fig. 1, the upper strips (*d*), having their edges extending inward or toward the center of the frame or casing from the bottom upward. These strips (*d*) fit in the rabbets (*c*) of the upper sash B, the shoulders of the rabbets being beveled or inclined so as to correspond inversely with the strips (*d*).

The outer edges of the stiles (*a*) work in the recesses (*b*) the same as ordinary sashes, but when the upper sash B, is raised, the shoulders of the rabbets (*c*) and the edges of the strips (*d*) will be in close contact and fit tightly together on account of the inclined surfaces of the strips and shoulders binding together. This will be clearly understood by referring to Fig. 1.

The lower sash B', is arranged in the same way, with the exception that the strips (*d'*) and shoulders of the rabbets (*c'*) are inclined or beveled in a reverse direction as the lower sash is closed when lowered. Thus it will be seen that when the sashes are closed they will be fitted perfectly tight within the casing because the edges of the strips (*d*), (*d'*), and the shoulders of the rabbets (*c*), (*c'*), will bind together and at the same time the sashes may be moved easily within the cases, for in opening the sashes, the inclined surfaces or edges of the shoulders, recede from the edges of the strips.

In the drawings the two sashes are connected by cords (*e*) which pass over pulleys (*f*), (*f*), at the upper part of the frame, so that one sash balances the other, and when one is raised the other will be moved correspondingly in the opposite direction.

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

Arranging or adjusting the sashes within the frame or casing as herein shown and described viz: having strips (*d*), (*d'*), attached to the inner sides of the frame or casing the outer edges of the strips being inclined or beveled as shown and fitted within rabbets (*c*), (*c'*), in the inner surfaces of the stiles (*a*) of the sashes, the shoulders of said rabbets being inclined or beveled so as to correspond inversely with the edges of the strips (*d*), (*d'*), for the purpose as herein set forth.

L. E. PAYNE.

Witnesses:

JOS. GEO. MASON,
WILLIAM TUSCH.