

S. R. EASTON.
Window-Sash.

No. 207,801.

Patented Sept. 10, 1878.

Fig. 1.

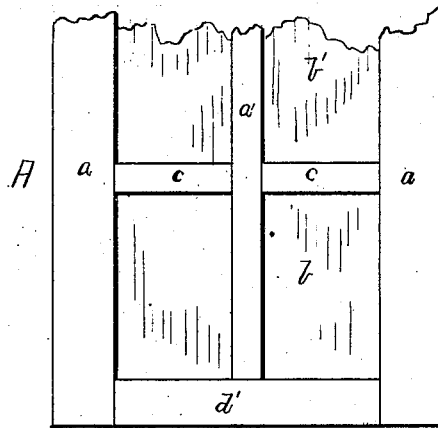


Fig. 2.

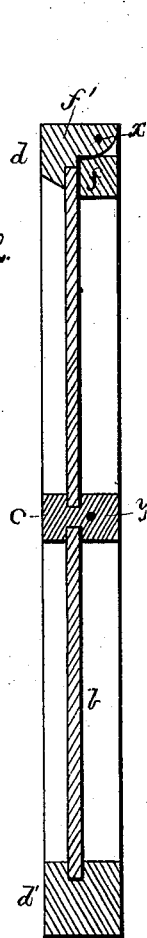
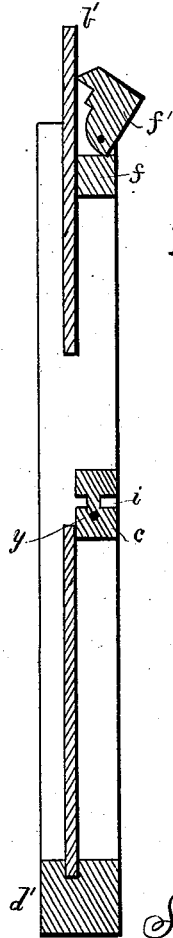


Fig. 3.



Attest:
Courtney A. Cooper
E. Welch

Stephan R. Easton
by his attorney
Charles E. Foster

UNITED STATES PATENT OFFICE.

STEPHEN R. EASTON, OF CHARLESTON, ILLINOIS.

IMPROVEMENT IN WINDOW-SASHES.

Specification forming part of Letters Patent No. 207,801, dated September 10, 1878; application filed August 10, 1878.

To all whom it may concern:

Be it known that I, STEPHEN R. EASTON, of Charleston, Coles county, Illinois, have invented Improvements in Window-Sashes, of which the following is a specification:

My invention is a window-sash constructed, as fully described hereinafter, so that the panes may be readily inserted and removed.

In the accompanying drawing, which forms part of this specification, Figure 1 is a front view of the sash constructed in accordance with my invention. Fig. 2 is a sectional elevation, and Fig. 3 the same, showing the parts in a different position.

A represents the sash, having side pieces *a*, central bar *a'*, cross-pieces *d d' c*. The uprights *a a'* are grooved to receive the ordinary panes of glass *b b'*, and the lower cross-bar, *d'*, is secured in a stationary position, as shown.

Each of the upper bars consists of a stationary piece, *f*, and a movable L-shaped piece, *f'*, which is hinged or turns on pivots *x*. Each intermediate cross-bar *c* has recesses *i*, to receive the edges of the panes, as shown in Fig. 2, and is pivoted at *y* at one side of said recesses, or otherwise hinged, so that it may be turned to the position shown in Fig. 3.

When the glasses are to be applied to the frame, the parts *c f'* are turned to the position shown in Fig. 3. The lower panes, *b*, are first inserted. The bars *c* are then turned to the position shown in Fig. 1. The upper panes, *b'*, are then inserted, and the L-shaped piece *f'* is turned down and fastened in any suitable manner. When the panes are to be removed, these operations are to be reversed, the piece *f'* being first turned back, the upper panes removed prior to turning back the bar *c* and removing the lower panes.

By this construction the panes may be secured without the use of putty, while any one or more may be detached, when required.

I claim—

The combination, in a sash, of the grooved uprights, stationary cross-piece *d'*, movable piece *f'*, and stationary cross-piece *f*, and intermediate grooved cross-pieces *c*, turning on pins *y*, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

STEPHEN R. EASTON.

Witnesses:

C. A. PEYTON,
WM. RICKETTS.