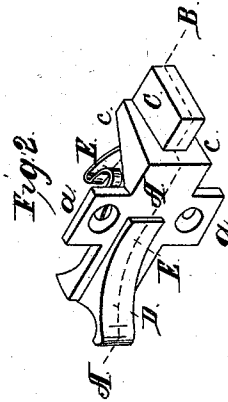
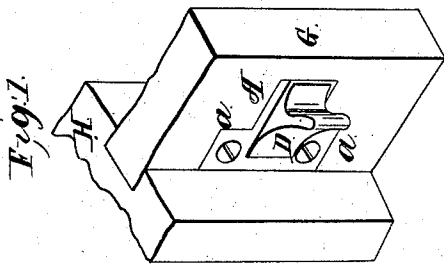
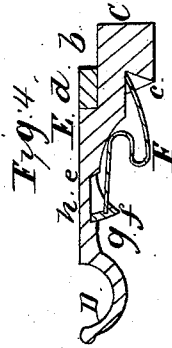
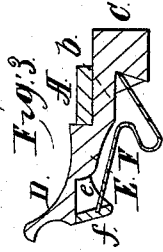


Sawin & Titus,

Cash Holder.

N^o 66,400.

Patented July 2, 1867



Witnesses:
Thos. H. Dodge.
D. S. Miller.

Inventor:
Chas. H. Sawin.
J. A. Titus.

United States Patent Office.

CHARLES H. SAWIN AND J. A. TITUS, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 66,400, dated July 2, 1867.

IMPROVED WINDOW-FASTENER.

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

KNOW ALL MEN BY THESE PRESENTS:

That we, CHARLES H. SAWIN and J. A. TITUS, of the city and county of Worcester, and Commonwealth of Massachusetts, have made certain new and useful improvements in Window-Fasteners; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a perspective view of our improved window-fastener applied to use.

Figure 2 represents a perspective view of the fastener itself.

Figure 3 represents a longitudinal central section of the fastener on line A B, fig. 2; and

Figure 4 represents a longitudinal central section of the fastener when made to be applied to the top or upper sash of a window.

To enable those skilled in the art to which our invention belongs to make and use our improved window-fastener, we will proceed to describe it in detail.

In the drawings, the part marked A represents the main or stationary part of the fastener, which has two projections *a a*, through which screws are passed to secure the fastener to the sash. The ears or projections *a a* are let into the sash so that their outer surfaces are flush or even with the surface of the side of the sash. The fastening-bolt C and operating or thumb-piece D are made in one piece, and of the shape shown in the drawings. The neck *b* of the bolt C works between the legs *c c* on the piece A, and below the front of the latter, as fully shown in the drawings. The thumb-piece D is connected to neck *b* of bolt C by a check-piece E, which works back and forth in a slot in the rear part of the piece A. The shoulder *d* of piece E strikes against the part A as shown in figs. 3 and 4, and thus checks and arrests the further forward movement of the bolt C, while shoulder *e* limits the back motion of the bolt when it is withdrawn by the thumb-piece D, which rests and slides upon the cross-rib *f*, which connects the rear ends of the sides to piece A. Bolt C is thrown forward by means of the bent spring F, the form of which is shown in figs. 3 and 4 of the drawings. The front end of spring F rests in the notch I in the bolt C, while the rear end fits into a recess or hole in the rib *f*. The peculiar form and action of spring F is such, that while bolt C is constantly forced out by it, the bolt is also at the same time pressed up against the piece A, and the thumb-piece down upon the latter, so that the bolt and thumb-piece are both retained in proper positions without the use of rivets or screws. The fastener is to be applied to the window-sash as indicated in the drawings, in which the part marked G represents so much of a window-sash, and H so much of a window-frame, as is necessary to illustrate our invention. The sash is to be cut away sufficiently to receive the bolt C, legs *c c*, and cross-rib *f*. Notches are also to be cut in the window-frame, at proper distances apart, in which bolt C will be forced by spring F, whenever the sash is raised or lowered, to bring the bolt opposite the notches in the window-frame. In practice it may be found more convenient to make the bottom notch for the lower sash with square or straight shoulders only, and the remaining notches with square shoulders on the bottom and inclined shoulders on the top. When thus made, the window-sash cannot be raised from the bottom without the bolt C has been withdrawn, but it can be raised from either of the other notches by simply lifting the sash, the bolt sliding over the inclined top of the notch in the window-frame. The notches, however, in both, for the lower and upper sash, may be made to suit the wishes and desires of the householder. The upper notch for the upper sash and the lower notch for the lower sash should, however, both be made with square shoulders, so that when the window is closed both sashes will be securely locked so that neither can be opened unless the fastener-bolt is withdrawn. In fig. 4 it will be noticed that the thumb-piece O is thrown back so that it will not strike the lower sash when that is run up or down by it, this arrangement being designed for use on the upper sash. Spring F will not set like a spiral spring, and, besides, it is far more effective and certain in its operation. In applying the fastener to the sash it is advisable to place it near the centre rib of the sash, for the reason that, when in this position, the thumb-piece D can be more easily operated while the hand is applied to the rib to lift the sash. When the thumb-piece D is extended to considerable length, it may be well to have the under side made with a clutch, *g*, to take into a notch, *h*, in rib *f*, when in the position shown in fig. 4.

Having described our improved window-fastener, what we claim therein as new and of our invention, and desire to secure by Letters Patent, is—

1. The combination of the recessed holding-plate with the bolt under the arrangement herein described, so that while the locking end of the bolt slides under and parallel with the plate, its opposite end shall project up so as to be flush with or to extend above the said plate, substantially as and for the purposes set forth.
2. The combination of the bolt with its spring, formed in the manner herein specified, so that the bolt shall be both held up in place and pressed forward by the action of the said spring, as and for the purposes set forth.
3. The combination, with the recessed holding-plate, of the sliding-bolt and its spring, the whole being arranged for operation, substantially as shown and described.

CHAS. H. SAWIN,
J. A. TITUS.

Witnesses:

THOS. H. DODGE.
D. L. MILLER.