W. E. SPARKS.

COMBINED SASH-LIFT AND FASTENER.

No. 188,311. Patented March 13, 1877.

Fig. 1.

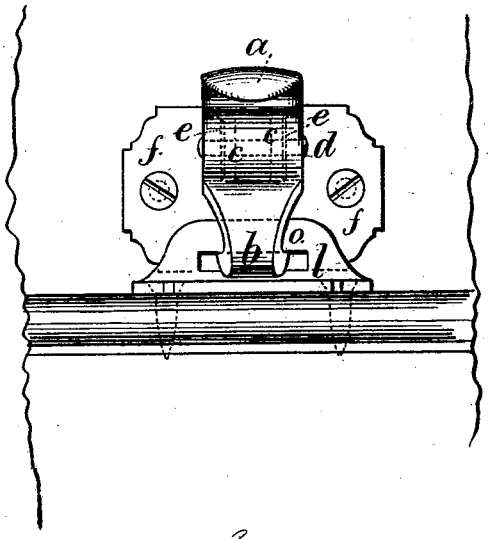


Fig. 2

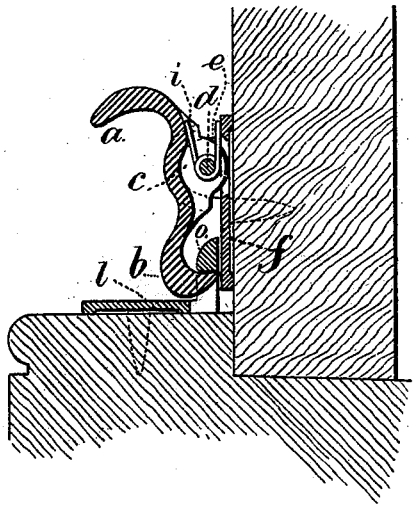
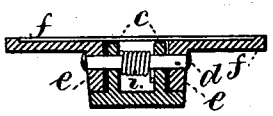


Fig. 3.



Witnesses

Chas. F. Smith

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UNITED STATES PATENT OFFICE.

WILLIAM E. SPARKS, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO P. AND F. CORBIN, OF SAME PLACE.

IMPROVEMENT IN COMBINED SASH LIFT AND FASTENER.

Specification forming part of Letters Patent No. **188,311**, dated March 13, 1877; application filed January 15, 1877.

To all whom it may concern:

Be it known that I, WILLIAM E. SPARKS, of New Britain, in the county of Hartford and State of Connecticut, have invented an Improvement in Sash Lifts and Locks Combined, of which the following is a specification:

Sash-lifts have been applied to the bottom rail of the sash, and, in some instances, a hook or lock has been applied to the lift, so as to be operated simultaneously. This allows the sash to be unlocked in the act of applying power to raise the window.

My invention is made to simplify the construction, and to strengthen the joint of the lifting-lever and lock, as will be hereinafter more fully described and definitely claimed.

In the drawing, Figure 1 is an elevation of the fastening. Fig. 2 is a vertical section, and Fig. 3 is a horizontal section through the pivot of the lifting-lever.

The lifting-lever is made with a thumb or finger piece, *a*, at one end, and a hook, *b*, at the other end, and the ears *c* near the middle, at the back, for the pivot-pin *d*. The pivot-pin *d* also passes through the semicircular bearing-flanges *e* upon the plate *f*, and the sides of the lifting-lever are recessed for the reception of these semicircular flanges. Thereby the strain in lifting the window, or the concussion in operating the lock, or the strain upon the parts if any attempt is made to force the sash open, is taken, to a considerable extent, upon these bearing-surfaces, and the pivot-pin proportionately relieved.

A spring, *i*, preferably of wire, and in the form of a helix, through which the pivot-pin passes, serves to press the latch-hook *b* toward the plate *f*. This plate *f* is screwed upon the bottom rail of the sash, and no mortising is required. The end of the hook *b* is beveled, and upon the sill or stop-bead there is a strike-plate, *l*, the horizontal portion of which is secured to the sill by screws, and the vertical portion is provided with a mortise, so that the horizontal bar *o* is in a position to be caught by the hook *b* of the sash-lock when the sash is closed. This bar *o* and the mortise below it are much longer than the width of the hook *b*, so that the hook will catch the bar *o* even when the sash may be loose and have considerable lateral play.

This sash lock and lifter is very simple and cheap in its construction, and it may be made more or less ornamental.

I claim as my invention—

In a combined sash lift and lock, the semicircular flanges *e* upon the plate *f*, and the lifting-lever *a b*, having recesses in the sides corresponding to the flanges *e*, and with a finger-piece at one end, and a hook at the other, substantially as and for the purposes set forth.

Signed by me this 12th day of January, A. D. 1877.

WILLIAM E. SPARKS.

Witnesses:
CHARLES PECK,
E. L. PRIOR.