

(No Model.)

L. C. SMITH.
SASH FASTENER.

No. 567,621.

Patented Sept. 15, 1896.

Fig. 1.

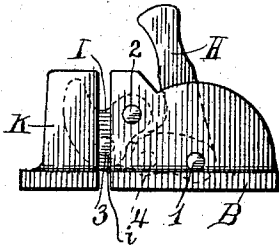


Fig. 2.

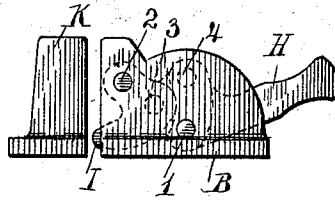


Fig. 3.

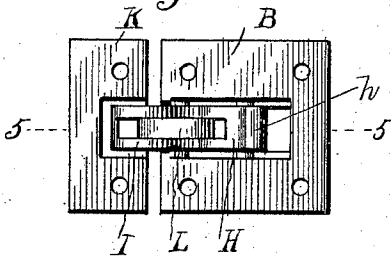


Fig. 4.

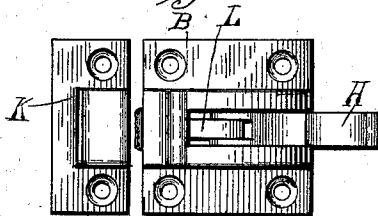
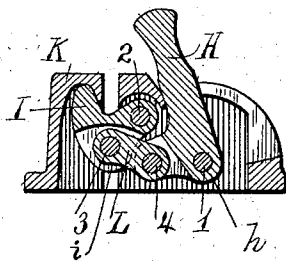


Fig. 5.



Witnesses:

Herbert Bradley.
Walter E. Allen.

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Attys.

UNITED STATES PATENT OFFICE.

LESTER C. SMITH, OF STAMFORD, CONNECTICUT, ASSIGNOR TO THE YALE
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SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 567,621, dated September 15, 1896.

Application filed December 7, 1895. Serial No. 571,414. (No model.)

To all whom it may concern:

Be it known that I, LESTER C. SMITH, a citizen of the United States, residing at Stamford, in the county of Fairfield and State of Connecticut, have invented a certain new Improvement in Sash-Fasteners, of which the following is a specification.

The subject of this invention is a device for fastening the meeting-rails of window-sash.

10 The device consists, essentially, of a hook and a bell-crank handle mounted on pivots in a suitable housing and connected by a link. The handle consists of a bell-crank or L-shaped lever pivoted at its angle in the housing and connected at the extremity of its shorter arm by a pivot-pin to a link, which is pivoted at its other extremity to the heel or base of the hook, as hereinafter described.

15 In the accompanying drawings, Figure 1 is an elevation of the device in locked position, the operating parts being shown in dotted lines. Fig. 2 is an elevation of the same in unlocked position. Fig. 3 is a bottom plan view showing the parts in locked position. 25 Fig. 4 is a top view showing the parts in unlocked position. Fig. 5 is a vertical section on the line 5 5 of Fig. 3.

30 B represents the housing or base-plate of the fastener, in which the bell-crank or L-shaped lever H is pivoted by its heel *h* to a pivot-pin *l*, located within the lower part of the housing.

35 I is a V-shaped locking-hook pivoted by its inner arm to a pivot-pin 2, located within the upper part of the housing B.

K is a keeper with which the outer arm of the locking-hook engages.

40 L is a link pivoted at one end to a pivot-pin 3, mounted in the heel *i* of the locking-hook I, and at the other end by a pivot-pin 4, mounted in the short arm of the bell-crank lever, the long arm of the latter providing an operating-handle.

45 The operation is as follows: The housing B, containing the handle H, hook I, and link L, is attached in customary manner to the upper surface of the top rail of the lower sash, and the keeper K to the upper surface of the

bottom rail of the upper sash. When the parts are in locked position, as shown in Figs. 50 1, 3, and 5, the pivot 4, which connects the link L to the handle H, is below a straight line between the pivots 1 and 3, and hence any downward or backward pressure applied directly to the hook is resisted and it is im- 55 possible to retract the hook except by the movement of the handle H. To unlock the sash, the handle H is drawn back, the first effect of which is to move the pivot 4 upward beyond the straight line between the pivots 60 1 and 3, thus releasing the hook. The continued movement of the handle H back and downward withdraws the hook to the unlocked position and places the link between the pivot-pins of the lever and hook. (Shown in Fig. 2.) 65 In locking the sash the handle is moved upward and to the left from the position shown in Fig. 2, the first effect of which is to throw the heel of the hook I downward and the nose of the hook into engagement with the keeper 70 K. The continued movement of the handle H to the left until it reaches the termination of the slot in the housing in which it works, as shown in Figs. 1 and 5, forces the nose of the hook upward within the keeper and draws 75 the keeper forcibly toward the housing, thus drawing the meeting-rails of the sash together, in which condition they are locked, as already explained.

80 Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

A sash-fastener comprising a housing, the L-shaped lever, a pin by which the heel of the lever is pivoted to the lower part of the 85 housing, the V-shaped locking-hook, a pin by which the inner arm of the hook is pivoted to the upper part of the housing, a link, a pin connecting one end of the link to the heel of the hook, and a pin connecting the other end 90 of the link to the short arm of the lever; substantially as described.

LESTER C. SMITH.

Witnesses:

SCHUYLER MERRITT,
GEO. E. WHITE.