

(Model.)

W. W. SWEETLAND.
Sash Fastener.

No. 235,042.

Patented Nov. 30, 1880.

Fig. 1.

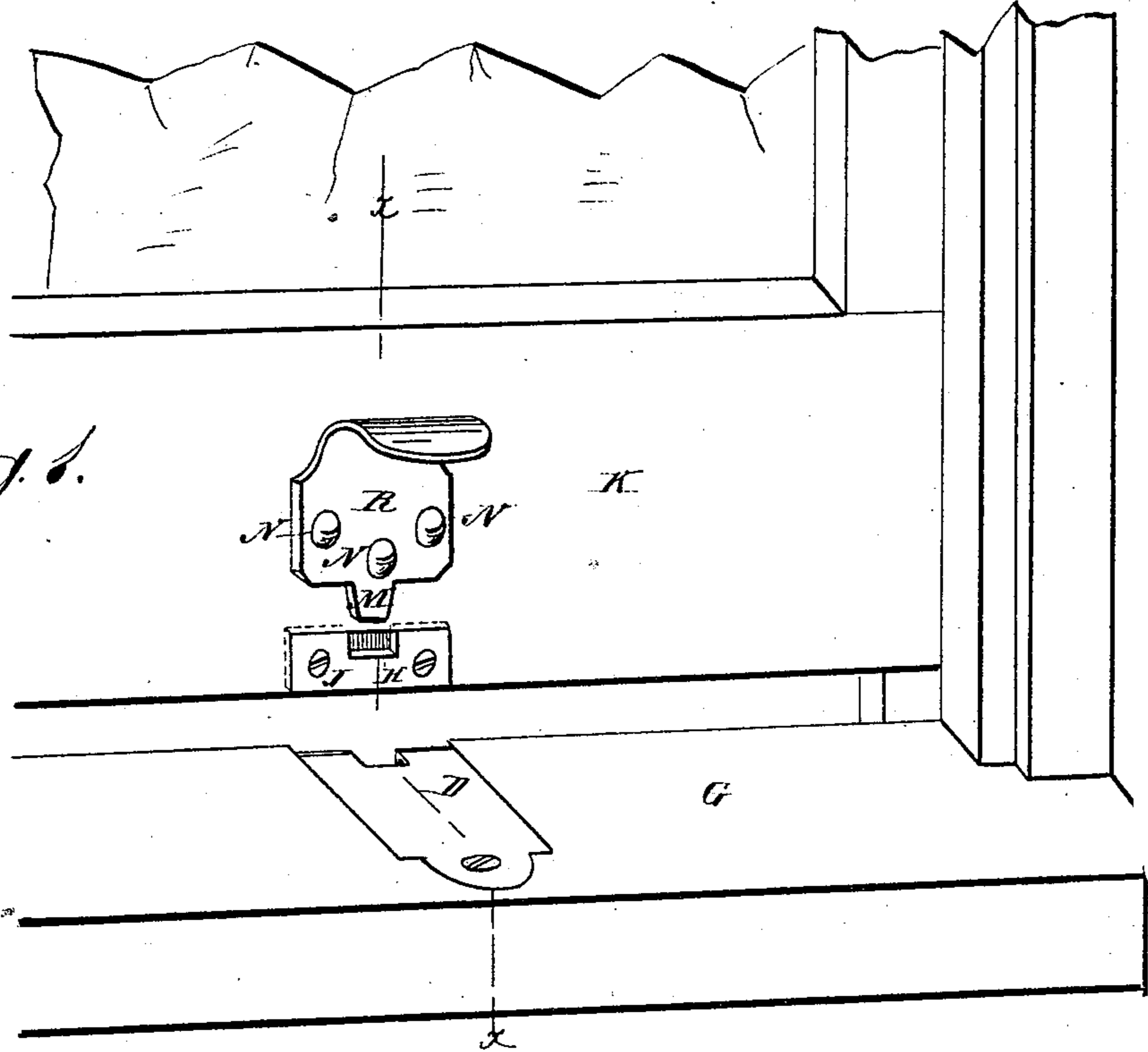


Fig. 2.

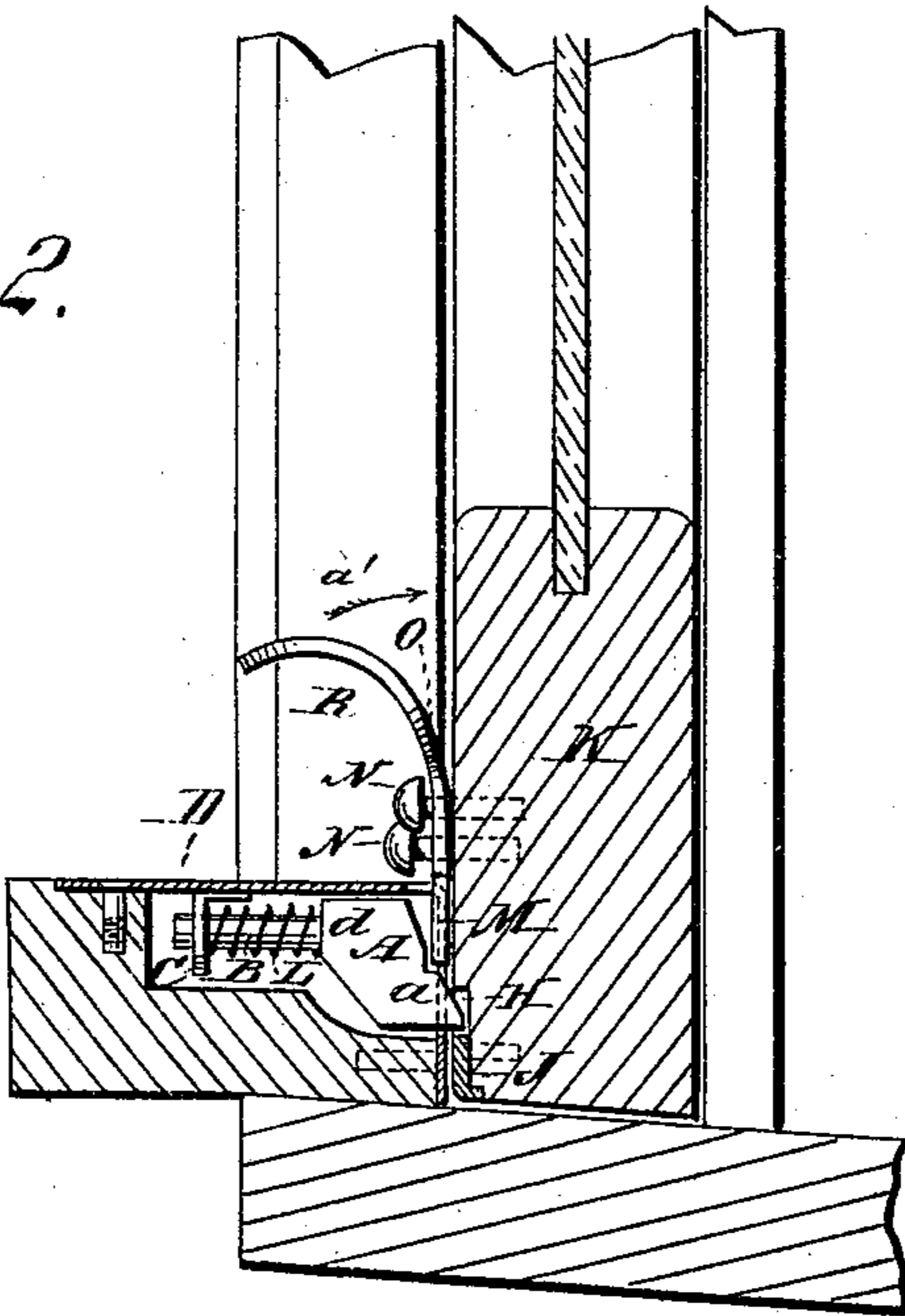
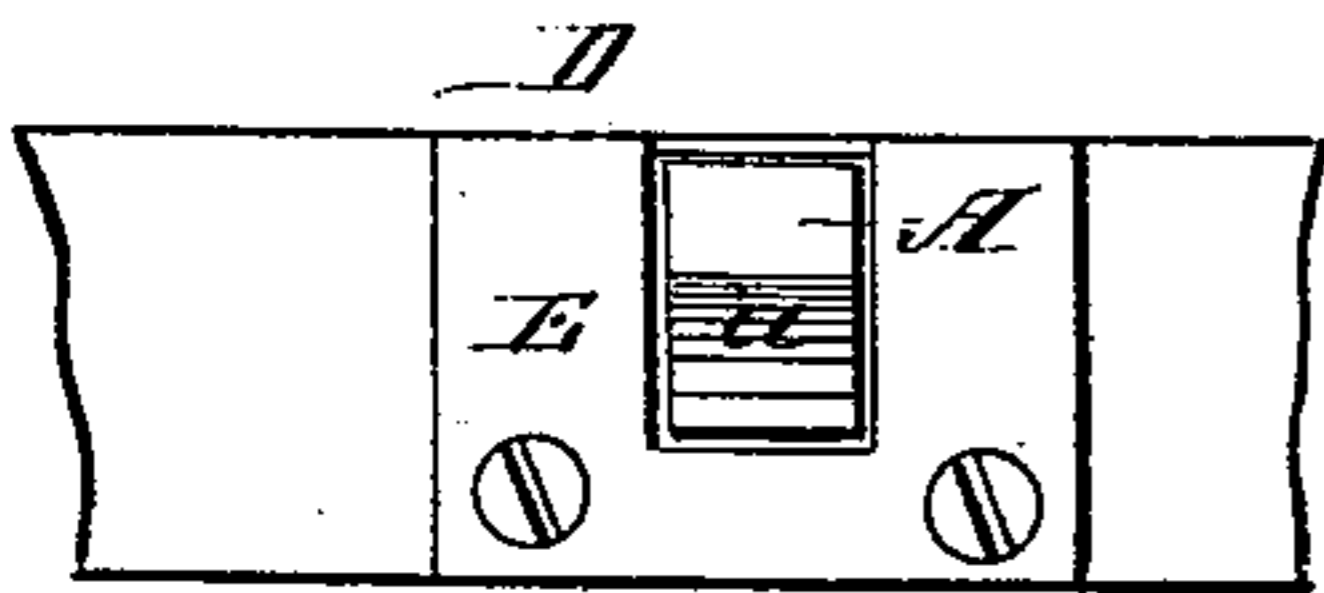


Fig. 3.



WITNESSES:

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WILLIAM W. SWEETLAND, OF EDWARDSBURG, MICHIGAN.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 235,042, dated November 30, 1880.

Application filed October 12, 1880. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM W. SWEETLAND, of Edwardsburg, in the county of Cass and State of Michigan, have invented a new and Improved Combined Sash-Lift and Automatic Sash-Lock, of which the following is a specification.

The object of my invention is to provide a new and improved sash-lift and automatic sash-lock which is simple in construction and so arranged that it locks the sash automatically as soon as the same has been lowered to rest on the sill, but unlocks it as soon as pressure is applied to the lift for the purpose of raising the sash.

In the accompanying drawings, Figure 1 is a perspective view from the inside of the bottom rail of a sash provided with my improved sash-lift and automatic lock. Fig. 2 is a cross-sectional elevation of the same on the line *xx*, Fig. 1. Fig. 3 is an end elevation of the bolt and casing in the window-sill.

Similar letters of reference indicate corresponding parts.

A wedge-shaped bolt, A, provided with a notch, *a*, in its front inclined surface, and with a stem, B, which passes through a clip, C, attached to the metallic casing D in the sill G, is mounted in this casing D and slides forward and backward horizontally. The front of this casing D is provided with an aperture, E, through which the front of the bolt A can pass and project into a recess, H, in a metal plate, J, attached to the lower part of the inner side of the lower transverse rail of the sash.

A spiral or like spring, L, is wound around the stem B of the bolt, and rests against the shoulder *d*, formed by the bolt, and against the clip C, thus forcing the bolt forward in the recess H.

A curved metal plate, R, provided with a longitudinal projection, M, at its lower end, is loosely held to the lower transverse rail, K, of the sash, directly above the plate J, by means of two or more screws, N. The heads of these screws do not rest against the surface of the plate R, but are a short distance from the same, to permit the plate to vibrate or oscillate in the vertical plane. The distance the plate oscillates is guided and regulated by means of a bevel, O, on the rear side of the plate, for when this bevel lies up against the surface of the bottom rail of the sash the projection M is extended outward as far as is desired.

The operation is as follows: If the sash is lowered from the position shown in Fig. 1 to that shown in Fig. 2, the bottom edge of the plate J will push the wedge A back, and the front edge of this wedge will glide along the surface of the plate J until it arrives at the recess H, and will then be forced into this recess by the spring L, as shown in Fig. 2. As long as the front end of the bolt A is in the recess H the sash cannot be raised, for the upper edge of the plate J will strike against the bottom of the bolt A. As this bolt cannot be pushed back from the outside, it forms an effective sash-lock, and as the spring forces it forward it works automatically.

If the sash is locked in the manner described, it can only be unlocked by pressing the plate R in the direction of the arrow *a'*, for thus the projection M is moved in the opposite direction of the arrow *a'*, passes into the notch *a*, and presses the bolt A into the casing D, and thus releases the sash; but as soon as the finger is placed under the plate R to raise the sash the plate is pressed in the direction of the arrow *a'*, and, as described, unlocks the sash, so that this device locks the sash automatically and unlocks it automatically as soon as the sash is raised by means of the sash-lift only.

The plate R is herein described as being loosely held by the screws; but it may be pivoted in any other desired manner.

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

In a combined sash-lift and automatic sash-lock, the combination, with the sill and the bottom of the sash, of the sliding bolt A, the spring L, the casing D, the recessed plate J, and the pivoted sash-lift plate R, substantially as herein shown and described, and for the purpose set forth.

WILLIAM WALLACE SWEETLAND.

Witnesses:

LEVI ALDRICH,
FRANK SWEETLAND.