

(No Model.)

W. F. SINLEY.
SASH FASTENER.

No. 533,396.

Patented Jan. 29, 1895.

Fig. 1.

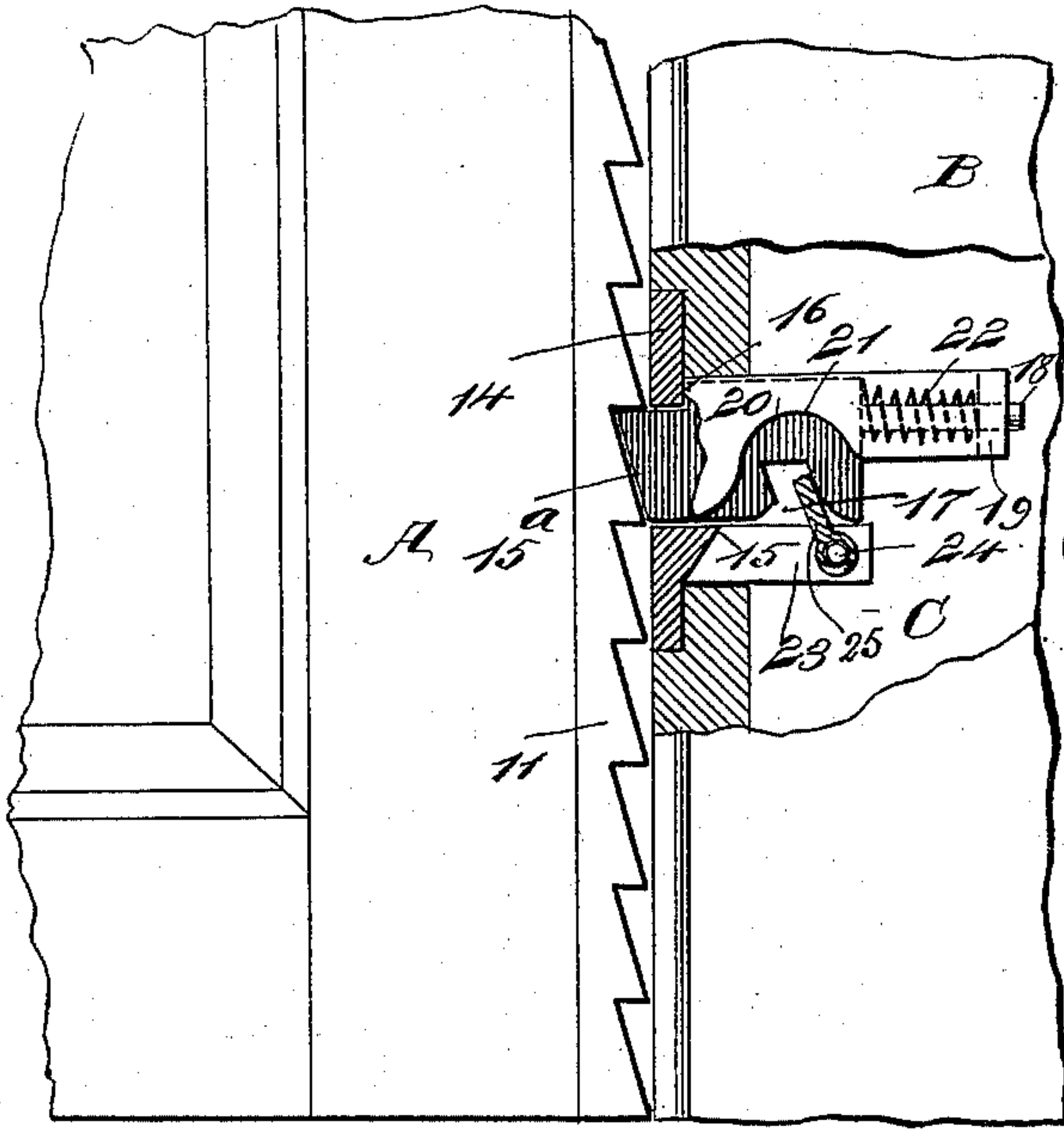


Fig. 2.

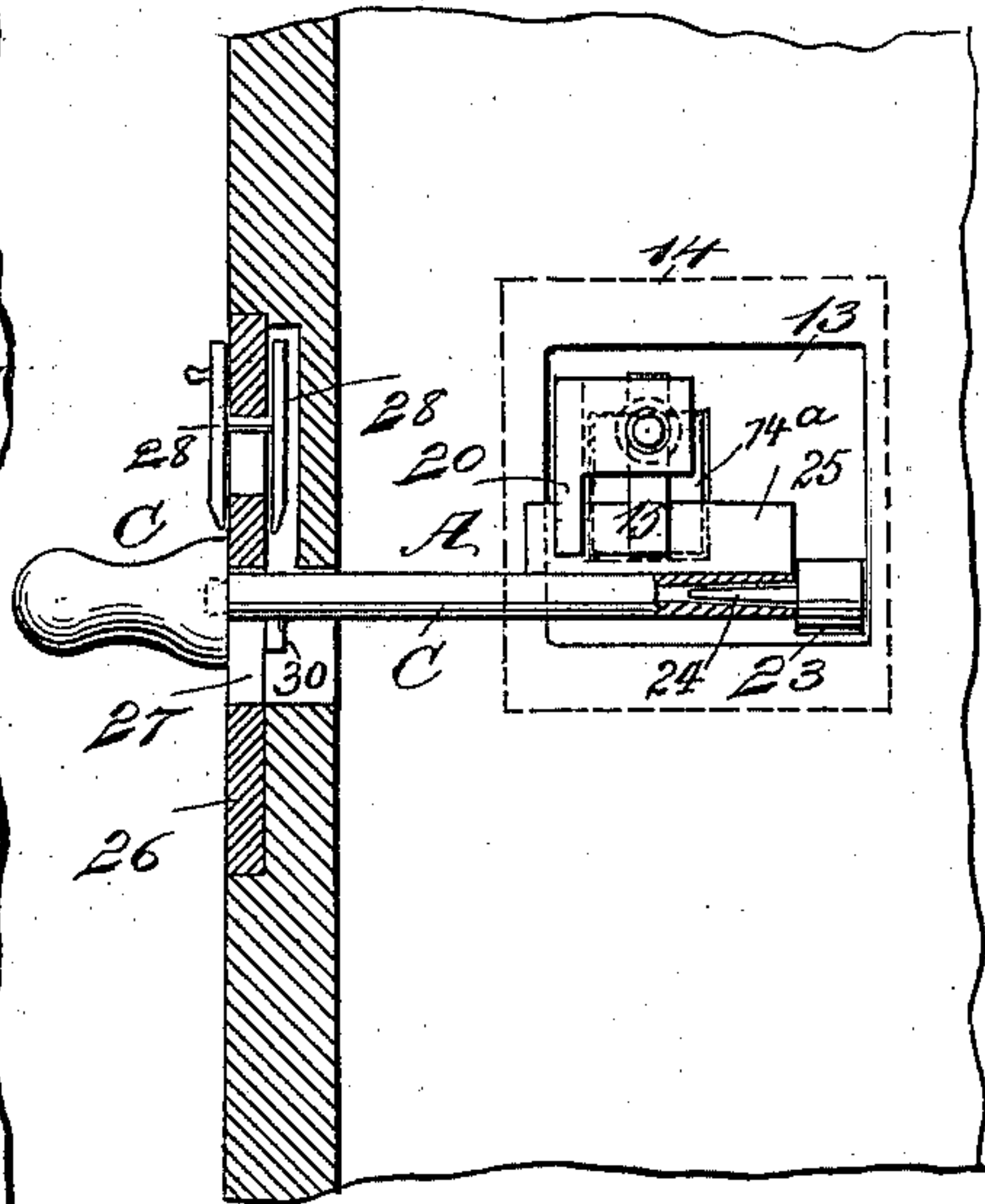


Fig. 3.

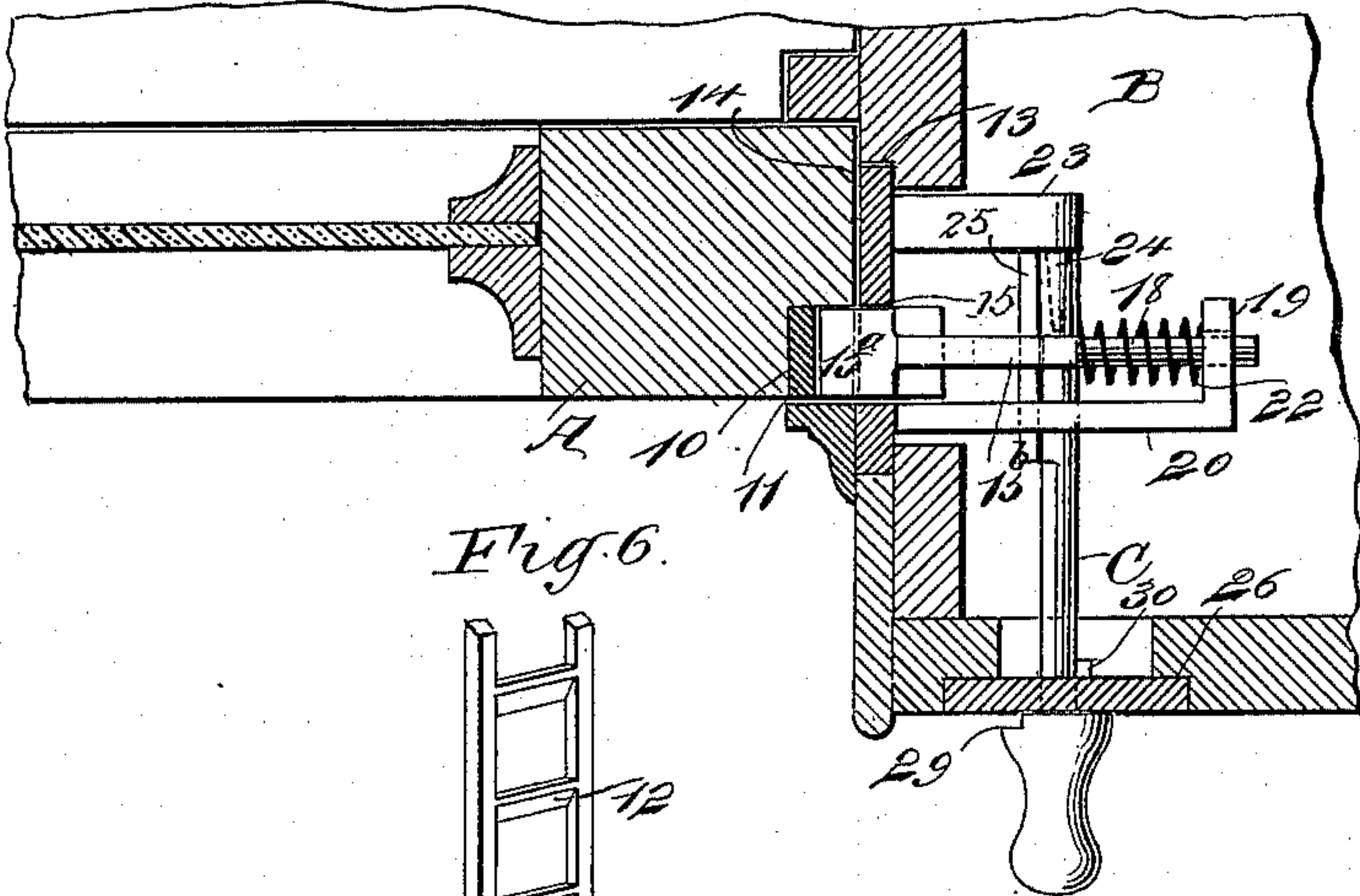


Fig. 4.

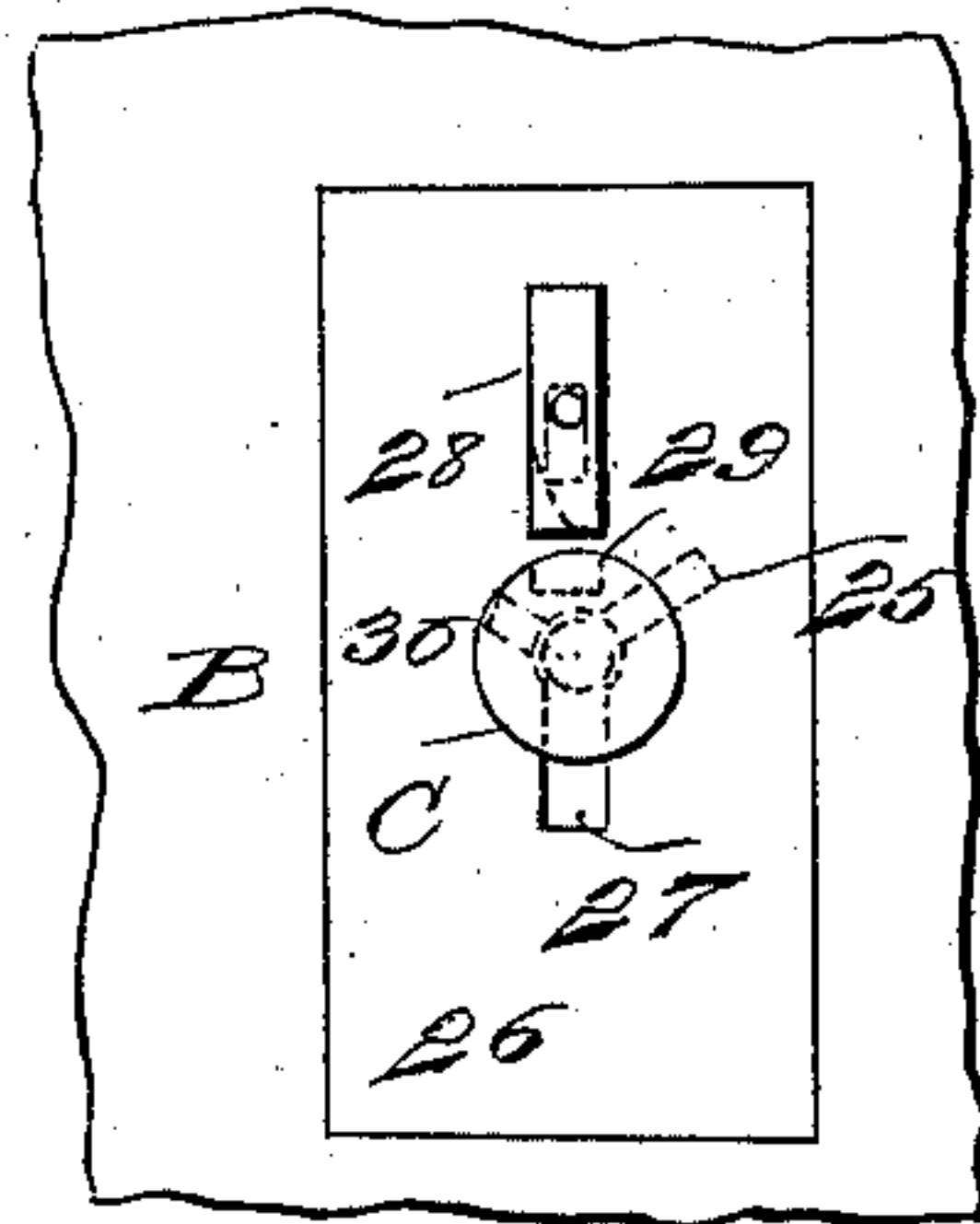


Fig. 6.

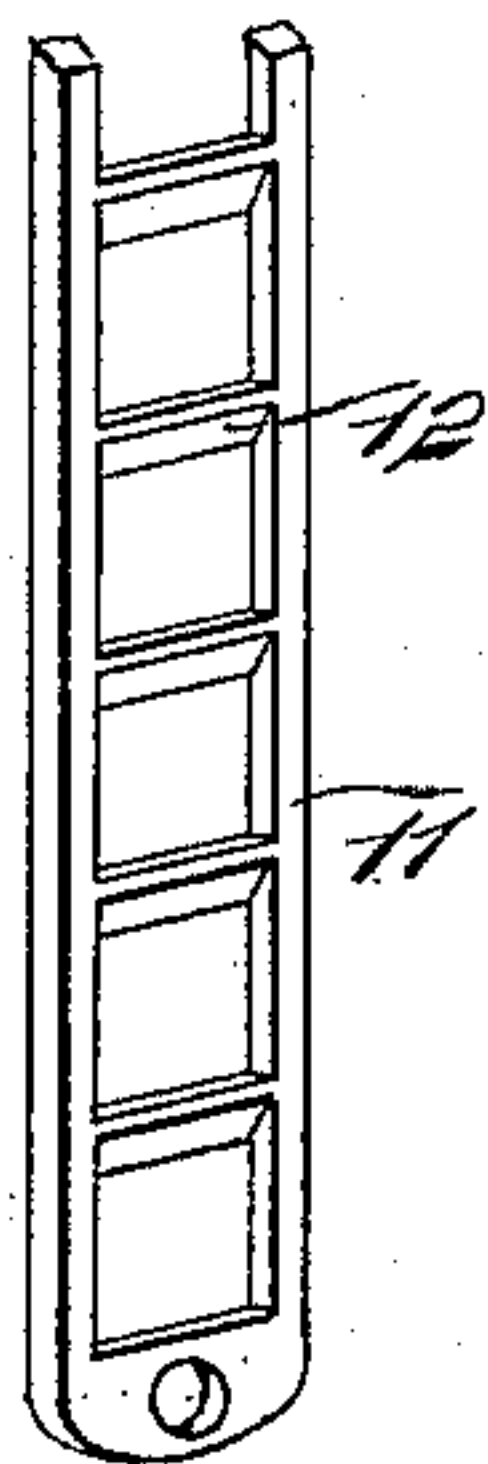
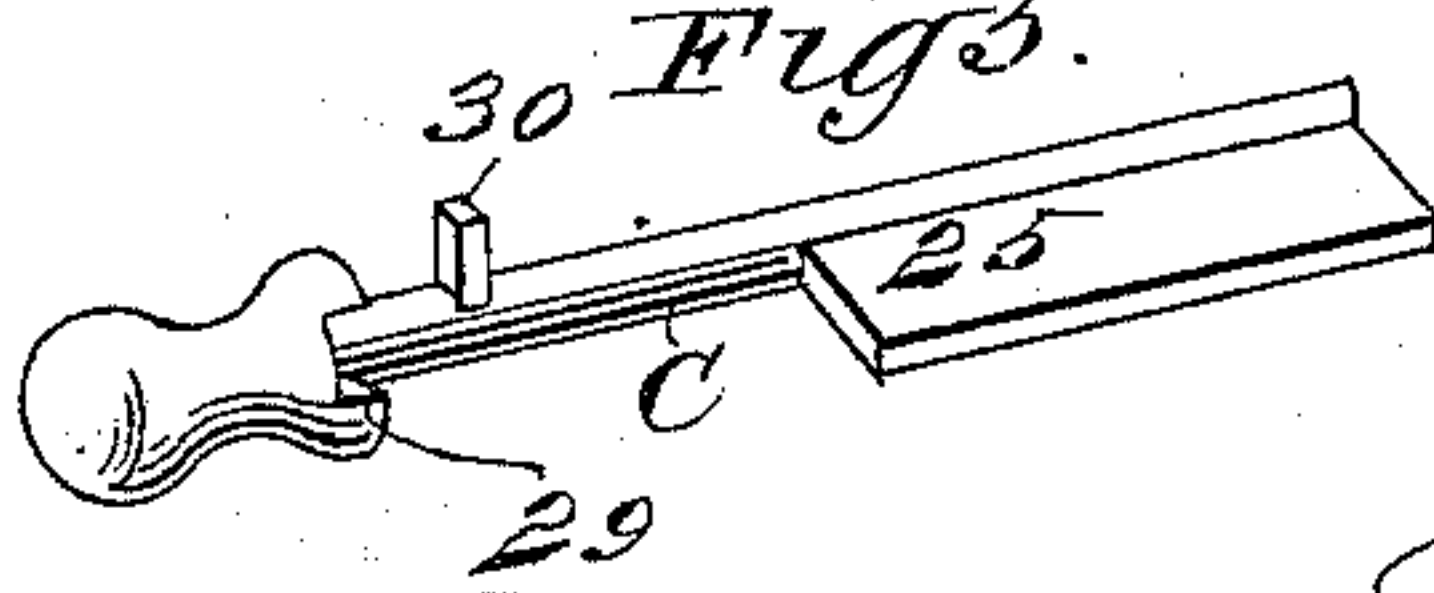


Fig. 5.



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SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 533,396, dated January 29, 1895.

Application filed March 31, 1894. Serial No. 505,852. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. SINLEY, of Dingman's Ferry, in the county of Pike and State of Pennsylvania, have invented a new and Improved Window-Sash Lock and Support, of which the following is a full, clear, and exact description.

My invention relates to a window sash lock and support, and it has for its object to provide a device capable of attachment to any window and for use either in connection with the upper or with the lower sash.

A further object of the invention is to provide a key-supported sash lock which will serve not only to lock the sash to which it is applied in a closed position, but will likewise serve to support the sash in whatever position it may be placed.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a partial side elevation of the sash and a partial side elevation of the jamb of the window frame, a portion of the latter being broken away to disclose the lock. Fig. 2 is a section through the inner member of the jamb, the member in which the sash groove is located being shown in inner face view. Fig. 3 is a horizontal section through the frame jamb and a sash, illustrating the lock in position within the jamb and in engagement with the sash. Fig. 4 is a front elevation of the face plate located upon the inner member of the window frame jamb, or that portion located within a room. Fig. 5 is a detail perspective view of the key employed; and Fig. 6 is a detail perspective view of a modified form of rack adapted to be located upon the sash frame.

In carrying out the invention the window sash A, is provided in a side edge of its frame with a vertical recess 10, and in this side recess a rack 11, is entered and secured. This rack is constructed as shown in Fig. 1, in which it is solid, and the teeth are inclined in a downward and outward direction, be-

ing square upon their under edges, or the rack may be constructed as shown in Fig. 6, in which it appears in a substantially ladder-like shape, the cross bars 12 of the rack being inclined upon their lower faces and are usually straight upon their upper faces.

In the sash way or groove in the window frame jamb B receiving the rack-carrying edge of the sash frame, an opening 13, is produced, as shown best in Figs. 2 and 3, and the said opening is covered by a countersunk face plate 14. The said face plate is provided with an opening 15, which faces the rack 11, and through this opening the head 15^a of a bolt 15^b is adapted to extend. The bolt adjacent to its head is provided with a shoulder 16, which limits the outward movement of the head, and the body of the bolt immediately back of the head is provided with a recess 17, as shown best in Fig. 1, the outer lower corner of which is cut away or inclined; and the rear wall is more or less curved in a downward and inward direction.

The body of the bolt is provided with a stud 18, projecting horizontally from its rear, which stud has guided movement in a bracket 19, formed upon a horizontal arm 20, secured to the inner face of the face plate 14, as shown in Figs. 1 and 3, and the arm 20 is provided with a recess 21 in its under edge, which fully exposes the recess 17 in the body of the bolt. The bit of the key adapted to operate the bolt, and shown in Fig. 5, is adapted to be constantly within the recess 17 in the bolt 15^b. Therefore, when the bolt head 15^a is pressed inward, by raising the window sash for example, the bit of the key will come in contact with the rear wall of the recess 21, and thus limit the inward movement of the bolt. A spring 22, is coiled around the stud of the bolt, having bearing against the rear of its body and against the bracket 19.

Near the opposite side of the bolt a horizontal arm 23 is secured to the face plate 14, the said arm being situated lower upon the said plate than the bolt, as illustrated in Fig. 2, and the said arm is provided with a key post 24, which extends outwardly below and beyond the body portion of the bolt.

A key C is used in connection with the bolt, and the said key is provided with a hollow body receiving the post 24, and the bit 25 of

the key is adapted to be located in the recess 17 in the body of the bolt, passing through the recess 21 in the arm 20, as heretofore stated; and when the key is turned in the direction shown by the arrows in Fig. 1, the bolt will be carried inward, compressing the spring 22 and throwing the bolt head out of engagement with the teeth of the rack 11 with which it is normally held in contact by the said spring, and at the same time the sash may be freely raised or lowered.

The bit 25 of the key is made the same length as the post 24, so as to permit the bit to operate the bolt whether the key is fully or partially entered upon the post. Under this construction the same key will adjust itself to either a deep or shallow window casing. The sash, however, may be readily raised when the bolt head is in engagement with its rack, since the outer face of the bolt head is inclined to correspond to the inclination of the teeth upon the rack. Thus as the window is lifted upward, the bolt head will slip readily from one tooth to the other, and when the bolt head engages with the outer face of any tooth, as shown in Fig. 1, it will hold the sash in the position in which it is placed.

The key is passed through a suitable face plate 26, which is secured upon the outer face of that section of the window frame jamb located in the room, the said face plate being provided with a slot 27, for the admission of the key; and the said face plate is further provided with a latch bolt 28, comprising two connected members, one located upon the inside and the other upon the outside of the said plate, as shown in Fig. 2. These latch bolts have sliding movement upon the face plate, the outer one being adapted to enter a recess 29, produced in the head of the key, or a flange adjacent to the head, while the inner bolt is made to engage with a stud 30, located upon the shank or body of the key, and when the latch bolts are thus in engagement with the key, the key will have been turned in a direction to prevent the bolt 15 sliding back

out of engagement with the rack on the window sash, and at that time the window cannot be moved up or down, since the key is prevented from moving from locking engagement with the bolt until released from the latch bolt. The face plate 14 is provided with a suitable ledge at the lower side of the opening 17, to prevent the bolt dropping downward when pushed or drawn inward.

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

1. A sash fastener comprising a casing, a spring pressed bolt mounted therein, a slotted face plate, inner and outer latch bolts connected by a pin passed through said slot, and a key engaging the said fastener bolt and provided with a recess to receive one of the latch bolts and with a stop projection to be engaged by the other latch bolt, substantially as described.

2. In a window sash lock and support, the combination, with a rack adapted for attachment to a window sash, of a plate adapted to be introduced into the sash way of a window frame, the said plate being provided with a guide, the head of the bolt being adapted for engagement with the rack, the body of the bolt being provided with a recess to receive the bit of a key, the plate being further provided with an arm projected therefrom, carrying a key post, and a second plate adapted for attachment to the inner face of a window frame, provided with a key-hole slot, a latch bolt located above said slot, and a key adapted to be passed through the said key-hole slot and to receive the said key stud, the bit of the key being adapted to enter the recess in the said spring-controlled bolt, the key being further provided with a recess and with a stop adapted for engagement with the latch bolt, substantially as shown and described.

WILLIAM F. SINLEY.

Witnesses:

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