

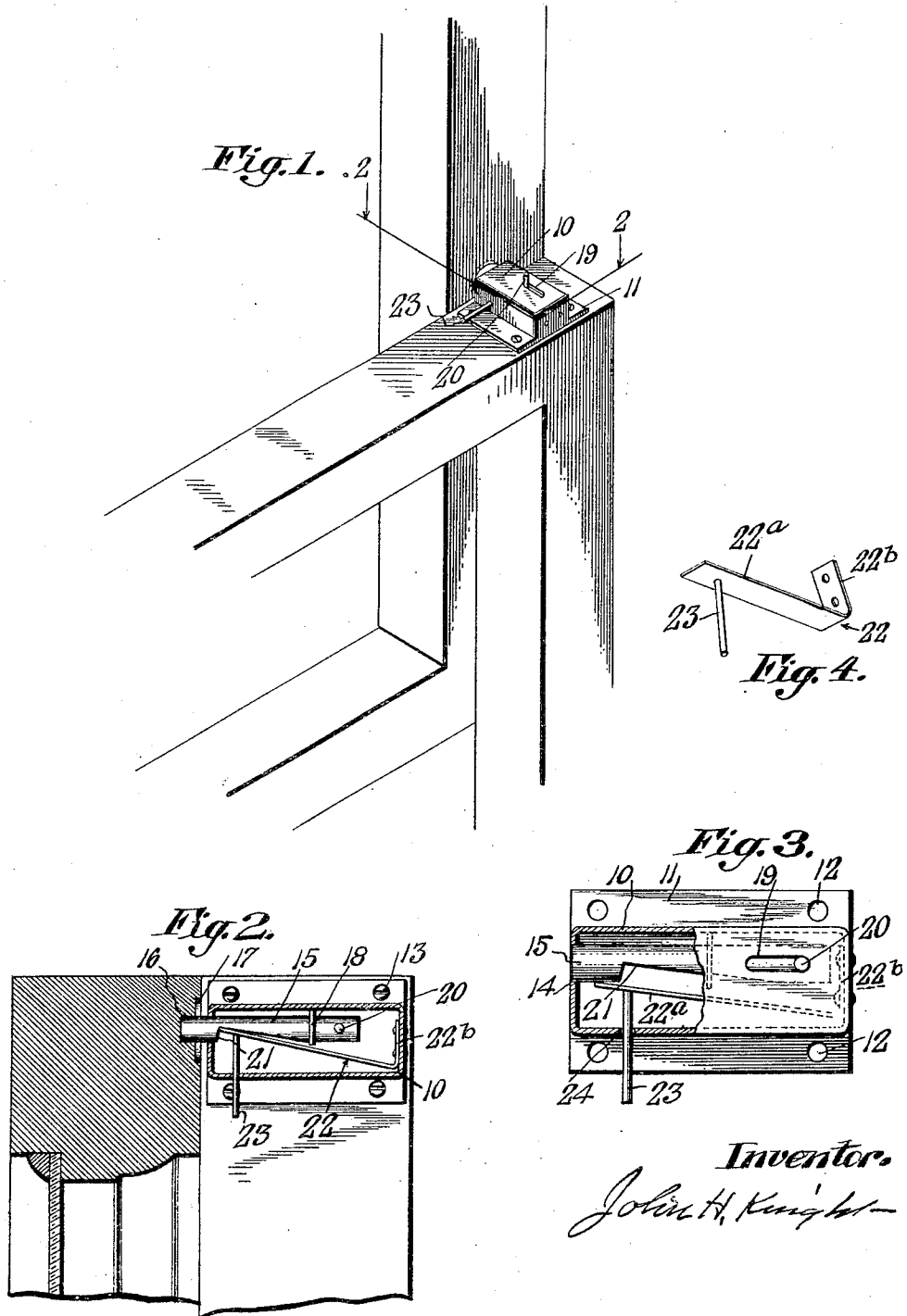
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J. H. KNIGHT

SASH LOCK

Filed March 13, 1923



## UNITED STATES PATENT OFFICE.

JOHN H. KNIGHT, OF WETASKIWIN, ALBERTA, CANADA.

## SASH LOCK.

Application filed March 13, 1923. Serial No. 624,736.

*To all whom it may concern:*

Be it known that I, JOHN H. KNIGHT, a citizen of the United States, residing in Wetaskiwin, Alberta, Canada, have invented a new and useful Improvement in a Sash Lock to be used in Windows Having Upper and Lower Sash, of which the following is a specification.

This invention relates to improvements in sash fasteners.

An object of the invention is to provide a sash fastener which can be easily, quickly and cheaply constructed, and which is adapted to be mounted upon a lower sash, which fastener has a sliding bolt capable of being received in a recess upon the upper sash, so that the two sash within a window frame can be locked in open position against relative movement.

With the foregoing and other objects in view which will be made manifest in the following detailed description and specifically pointed out in the appended claims, reference is had to the accompanying drawings for an illustrative embodiment of the invention, wherein:

Figure 1 is a perspective view of the upper and lower sash shown in locked position by means of my improved sash fastener,

Fig. 2 is a horizontal section taken substantially on the line 2—2 of Fig. 1,

Fig. 3 is a top plan view of my improved sash fastener, parts being broken away and shown in horizontal section, and

Fig. 4 is a perspective view illustrating the spring or catch member of my improved sash fastener.

Referring to the accompanying drawings, wherein similar reference characters designate similar parts throughout, my improved sash fastener is shown as mounted upon the top rail of the lower sash. It consists of a box-like casing 10, preferably formed of sheet metal and which has at its bottom laterally extending flanges 11, provided with apertures 12 for the reception of screws 13 in mounting the casing upon the lower sash. An aperture 14 is formed in the end of the casing 10 which is adjacent the upper sash and a bolt 15 is slidable within the casing and adapted to be projected through the opening 14 so as to have its end received within a recess 16 formed in the side rail of the upper sash. The recess 16 may be provided with a circular

plate 17 having an aperture therein through which the end of the bolt 15 extends. A guide 18 is mounted within the casing and supports the bolt 15 so as to maintain it in proper position for sliding through the aperture 14. In the top of the casing there is formed an elongated slot 19, and a pin 20 is secured to the bolt and projects through the slot so that the bolt may be manually shifted. The pin 20 and the slot 19 are preferably so arranged as to limit the movement of the bolt 15 so that it cannot be withdrawn from within the aperture 14. A notch 21 is formed in the side of the bolt and a leaf spring 22 is disposed within the casing. The leaf spring 22 is bent in the form of an acute angle having a long arm 22<sup>a</sup> and a short arm 22<sup>b</sup>. The short arm 22<sup>b</sup> is secured as by rivets against an end wall of the casing and the long arm 22<sup>a</sup> bears against the side of the bolt 15. A pin 23 is secured to the long arm 22<sup>a</sup> of the spring 22, and this pin extends through an aperture 24 through the side of the casing.

The operation of the device is as follows: The upper and lower sash are moved relatively to each other until the recess 16 is brought opposite the end of the bolt 15. The bolt can then be caused to be projected into the recess by pushing the pin 20, which constitutes a handle for the bolt, forwardly. As the end of the bolt 15 enters the recess 16, the long arm 22<sup>a</sup> of the spring 22 enters the notch 21 and by engagement with the projection formed by the notch limits the backward movement of the bolt. In retracting the bolt from the recess 16, the pin 23 is grasped and pulled outwardly causing the long arm 22<sup>a</sup> to swing out of the notch 21 and then by pulling backwardly upon the pin 20, the bolt will be brought back so as to be completely disposed within the casing 10. In such position the long arm 22<sup>a</sup> bears against the side of the bolt 15 so as to frictionally maintain it in position.

From the above it will be appreciated that it is only necessary to use one hand in throwing the bolt into locked position, whereas two hands are necessary in retracting the bolt. Because of this fact, the sash may be locked together against relative movement quite readily by a person within a dwelling, but is very difficult and practically impossible to unlock the sash fastener from the outside of the dwelling. It

will be appreciated that several recesses 16 can be formed in the side rail of the upper sash, if so desired.

It will be understood that various changes 5 may be made in the detail of construction without departing from the spirit or scope of the invention as defined by the appended claims.

I claim:

10 1. A sash fastener comprising a casing adapted to be fastened to the lower sash, said casing having a longitudinal slot in its top, an opening in one side, another opening 15 in one end, a guide with an opening aligned with the last named opening and fastened intermediate the ends of said casing, a bolt having a notch adapted to be slidably held in said end opening and guide, said bolt 20 having a pin attached thereto extending through said longitudinal slot in the upper side, a resilient member bent in the form of an acute angle having a short arm and a long arm, and a pin attached to said long arm and extending through said opening in 25 the side of the casing, the short arm being fastened to the casing and the long arm being adapted to bear against said bolt and engage said notch when said bolt is manually moved forward into a recess provided 30 in the side rail of the upper sash.

2. A sash fastener comprising a casing adapted to be mounted upon the lower sash, a bolt slidable in the casing and adapted

to project from one end thereof, means providing a projection upon the bolt, a leaf 35 spring mounted within the casing capable of engaging said projection to limit movement in one direction, means providing a handle upon the bolt extending through a slot in the casing for shifting the bolt, and 40 means secured to the spring and extending through the casing, permitting the spring to be disengaged from the projection, there being a recess formed upon the upper sash capable of receiving an end of said bolt. 45

3. A sash fastener comprising a casing adapted to be mounted upon the lower sash, a bolt slidable in the casing and adapted to be projected from one end thereof, there being a notch formed upon the bolt, means 50 providing a handle for the bolt extending through a slot in the casing, whereby the bolt may be shifted, a leaf spring capable of engaging the notch to limit movement in one direction, and means mounted upon the 55 spring permitting the spring to be disengaged from said notch, there being a recess provided upon the upper sash capable of receiving the end of the bolt.

In testimony whereof I have herewith 60 signed my name in the presence of two witnesses.

JOHN H. KNIGHT.

Witnesses:

FRANK PIKE,  
R. D. PURDY.