

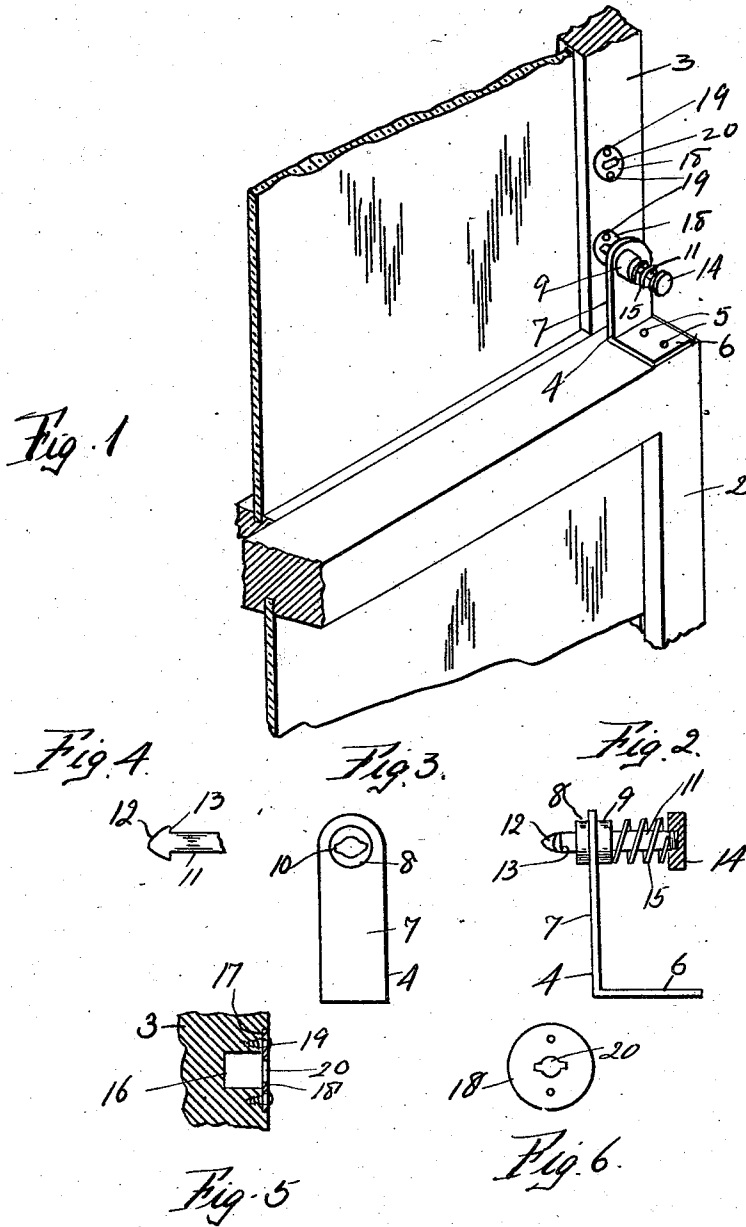
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SASH FASTENER

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UNITED STATES PATENT OFFICE.

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SASH FASTENER.

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My invention relates to new and useful improvements in a sash fastener, and has for its object to provide an exceedingly simple and effective device of this character which may be readily and quickly applied to the sash of coacting windows and when mounted in position and the parts interlocked it is practically impossible to jimmy the window or force the same open.

Another object of the invention is to so locate the fastening devices, such as screws, that they cannot be forced out should any attempt be made to force the window sash apart.

A further object of the invention is to provide a support or bracket for attachment to the upper edge of the lower window sash, the said support consisting of a sheet metal angle having a boss on both sides of the upright portion one of the bosses having a chamber to receive the head of the locking bolt when in retracted position, the bosses also providing a long bearing surface for the locking bolt and a keeper plate for attachment to the side rail of the upper window sash.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains, may understand how to make and use the same, I will describe its construction in detail, referring by numerals to the accompanying drawing forming a part of this application, in which:—

Fig. 1 is a fragmentary perspective view of coacting window sash in the region of the meeting rails showing the application of my invention thereto.

Fig. 2 is an enlarged side elevation of the lock portion of the sash fastener the finger button being shown in section.

Fig. 3 is an inner face view of the supporting member showing the recess for the reception of the head of the locking bolt.

Fig. 4 is a fragmentary plan view of the locking bolt illustrating the construction of the head of said bolt.

Fig. 5 is a sectional view of one of the window sash in the region of a keeper plate

illustrating one of the holes in the sash and the relation of the keeper plate thereto.

Fig. 6 is a face view of one of the keeper plates.

In carrying out my invention as here embodied, 2 represents a lower window sash and 3 the coacting upper window sash. To the upper edge of the lower window sash is fastened the angle supporting member or bracket 4 by suitable fastening means, such as screws, passing through the foot 6 of the support and embedded in the window sash. With the upper end of the upright 7 of the supporting member on both faces thereof are formed the bosses 8 and 9, here shown as circular in cross section but which may be of any suitable configuration. A hole 10 passes entirely through the two bosses and upright so as to form a substantial bearing for the locking bolt 11 while that portion of the hole within the boss 8 is enlarged to form a recess or chamber, as plainly shown in Fig. 3, for the reception of the head 12 of the locking bolt which is formed by swedging the end of said bolt and said head produces the oppositely disposed shoulders 13 for a purpose to be hereinafter described. To the opposite end of the locking bolt is fixed a finger button 14 preferably having threaded connection with said bolt as shown in Fig. 2, said finger button being utilized to turn the locking bolt on its axis and also being used as the contact element for one end of the coil spring 15 which is coiled about the bolt 11 with its other end resting against the boss 9 so that the locking bolt is normally held in a retracted position with the head 12 thereof within the recess in the boss 8.

In the side rail of the window sash 3 are bored one or more holes 16 having a counter-bore 17 of larger diameter concentric therewith in which is fitted the disc shaped keeper plate 18 held in place by suitable fastening means 19 such as screws and this keeper plate has an eye or hole 20 therethrough of the same shape as the head of the locking bolt having a greater diameter in one direction than the other so that the locking bolt may readily pass therethrough but cannot be withdrawn after being rotated a quarter turn as will be obvious. One of these keeper plates is positioned so as to be engaged by the locking bolt when the window sash are

closed and another or others may be located at suitable distances therefrom so as to be engaged by the locking bolt when either of the window sash is open at a certain distance thus permitting either sash to be locked in an open position.

In practice the locking bolt is normally held in a retracted position by the spring 15 so that the head 12 is within the recess in the boss 8 permitting either sash to be moved without any of the parts contacting with the locking bolt and when it is desired to lock the window it is only necessary to move the sash until the eye of one of the keeper plates is in alignment with the locking bolt when said locking bolt may be forced against the action of the spring 15 until the head passes through the eye 20, then by rotating said bolt the head thereof will be held in contact with the inner face of the keeper plate by the spring to prevent accidental displacement thereof.

Of course I do not wish to be limited to

the exact details of construction as herein shown as these may be varied within the limits of the appended claim without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is:—

A sash fastener including an angular supporting member, a boss on each side of the upper end of the supporting member, said supporting member and bosses having a hole passing entirely therethrough with that portion in only one boss enlarged to produce a recess, a bolt slidably mounted in said hole and having a head corresponding to the recess, a button on the opposite end of the bolt and a spring coiled about the bolt and engaging said button and one of the bosses to normally force the bolt head into the recess.

In testimony whereof, I have hereunto affixed my signature.

ALBERT J. SNYDER.