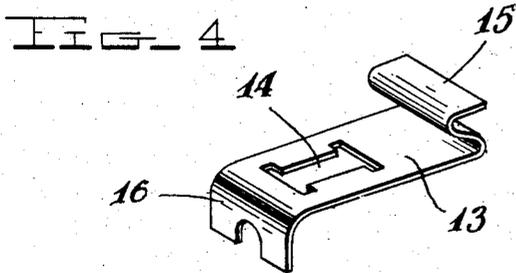
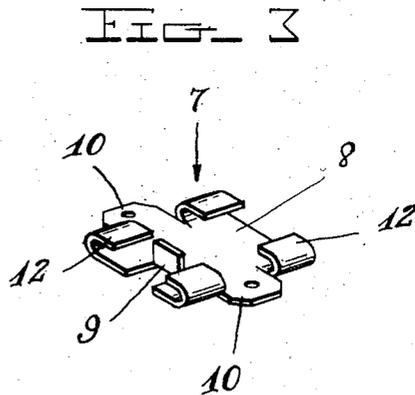
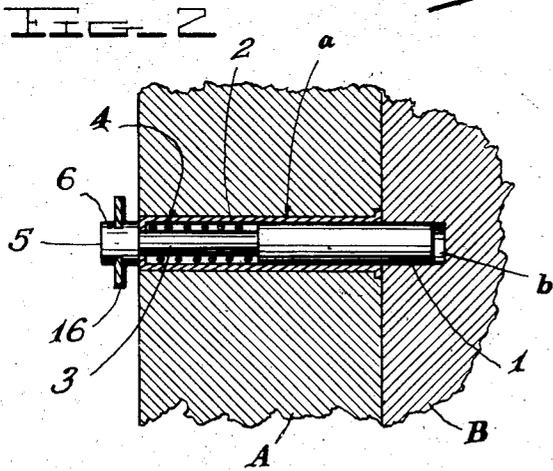
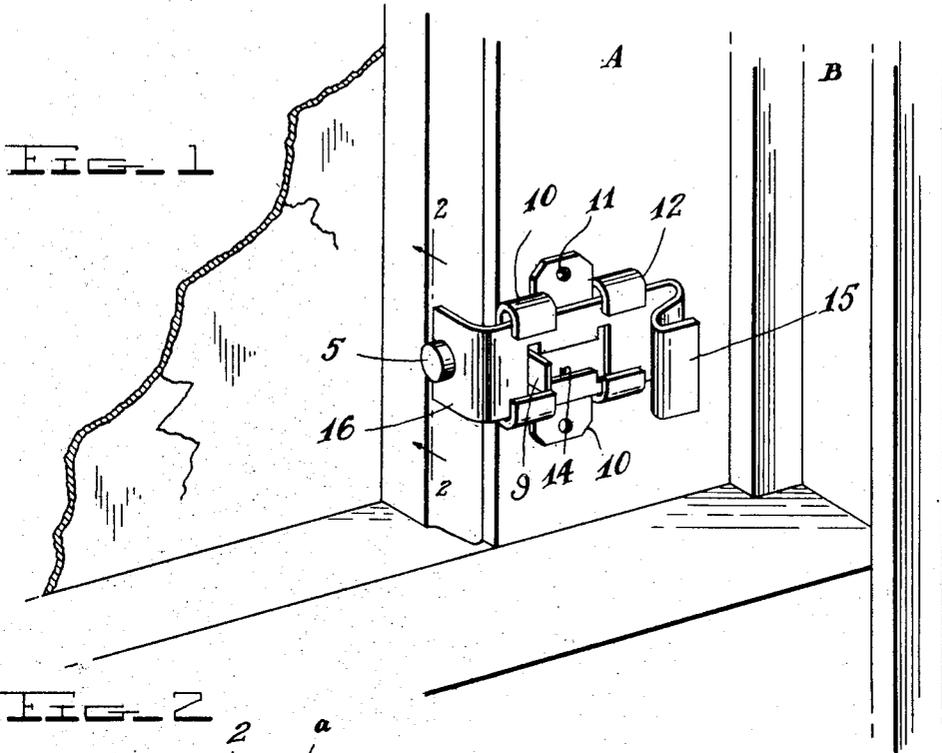


G. KIMBALL.
 WINDOW FASTENER.
 APPLICATION FILED APR. 3, 1916.

1,189,969.

Patented July 4, 1916.



Witness

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UNITED STATES PATENT OFFICE.

GORDON KIMBALL, OF OURAY, COLORADO.

WINDOW-FASTENER.

1,189,969.

Specification of Letters Patent.

Patented July 4, 1916.

Application filed April 3, 1916. Serial No. 88,601.

To all whom it may concern:

Be it known that I, GORDON KIMBALL, a citizen of the United States, residing at Ouray, in the county of Ouray and State of Colorado, have invented certain new and useful Improvements in Window-Fasteners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in window fasteners or sash locks, or the like.

One object of the invention is to provide an improved means for locking a sliding sash against movement in the window frame.

Another object of the invention is to provide a fastener of this character which can be locked against movement in either its operative or inoperative position.

A further object of the invention is to provide a device particularly adapted to be used in connection with the ordinary spring pressed plunger sash fastener to facilitate an easy operation of the same.

A still further object of the invention is to provide a device of this character which will be simple, strong, durable and inexpensive in construction, efficient and reliable in operation, and well adapted to the purpose for which it is designed.

With these and other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be hereinafter fully described and claimed.

In the accompanying drawings forming a part of the application, and in which similar reference characters designate like parts throughout the several views: Figure 1 is a perspective view of a portion of a window sash and frame, illustrating the application of a device constructed in accordance with this invention thereto; Fig. 2 is a vertical sectional view through the sash and frame taken on the plane of the line 2—2 of Fig. 1; and Figs. 3 and 4 are detail perspective views of parts of the device.

Referring more particularly to the drawings, the reference character A represents the side rail of a window sash, and B represents the window frame. Extending horizontally through the sash A is an aperture *a* in which is slidably mounted the ordinary form of spring pressed bolt or plunger 1.

This plunger 1 is received in a suitable casing 2, and extending longitudinally from the rear end thereof is a stem 3 around which is arranged the usual coil 4. By this arrangement, it may be seen that when the sash A is moved vertically within the frame B, the plunger 1 will be forced into a recess *b* in the frame B when the aperture *a* is brought into alinement with the same. The free end of the stem 3 is provided with an enlarged head 5, which prevents the bolt or plunger 1 from being forced entirely out of the casing 2 when the sash is removed from the frame. This head 5 is provided with opposite notches 6 for a purpose hereinafter to be described.

Fixed to the inner face of the side rail A of the window sash is a guide member 7, here shown as being composed of a plate 8, one end of which is provided with a laterally extending lug 9. Extending from the opposite edges of the plate 8 are apertured attaching ears 10 through which pass suitable fastening elements 11 to afford the aforesaid connection with the side rail A. These attaching ears 10 are disposed substantially midway of the length of the plate 8, while the edges of the latter on each side of the ears 10 are bent upon themselves to form guides 12.

Slidably mounted in the guides 12 is a second plate 13, the intermediate portion of which is provided with a longitudinally extending I shaped slot 14, through which extends the aforesaid lug 9. This plate 13 is slidable both longitudinally and slightly transversely in the guides 12, so that the transverse portions of the I-shaped slot 14 may be easily engaged with the lug 9 when the plate 13 is either in its innermost or outermost position. The outer end of the plate 13 is bent substantially into an S-shape to provide a suitable handle or finger piece 15 for operating the same, while the inner end of the plate is bent outwardly to form a laterally extending tongue 16, the free end of which is bifurcated for engagement with the notches 6 in the head 5 of the plunger 1, as clearly shown in the drawing. Thus, it will be understood when the plate 13 is moved longitudinally of the guides 12, the plunger 1 is also moved longitudinally in its casing 2, thereby locking and unlocking the window sash from its frame. When the plate 13 is in its innermost position, the outermost transverse portion of the slot 14 may be en-

gaged with the upper edge of the lug 9, thereby locking said bolt in this position, while when the plate is in its outermost position, the other transverse portion of the slot is engaged similarly with the lug, thereby providing a means for preventing the bolt from being accidentally unlocked. By having the plate 13 slidably in the guides 12 slightly transversely, and provided with this I-shaped slot 14, it is automatically locked in either its innermost or outermost position, owing to the weight of the plate. Furthermore, by this arrangement, the device can be used on either side of the sash, as will be understood.

It is to be understood that the guide member 7 carrying the plate 13, may be used in connection with any suitable form of sliding sash bolt, and is not limited to the form herein shown and described.

Various other changes in form, proportion, and the minor details of construction may be resorted to without departing from the spirit of the invention, and hence I do not wish to be limited to the construction herein shown and described other than that set forth in the appended claims.

I claim:

1. The combination with the side rail of a window sash having an aperture extending transversely therethrough; of a bolt slidable in said aperture, a member slidably mounted on the inner face of said rail and having a tongue extending laterally therefrom, said tongue being connected to the rear end of said bolt.

2. The combination with the side rail of a window sash having an aperture extending transversely therethrough; of a bolt slidable in said aperture and having notches in its rear end, a member slidably mounted on the inner face of said rail and having a tongue extending laterally therefrom, the free end of said tongue being bifurcated and engaging the notches in the rear end of said bolt.

3. The combination with the side rail of a window sash having an aperture extending transversely therethrough; of a bolt slidable in said aperture, a guide member fixed to the inner face of said rail, a plate slidably in said member and having a tongue extending laterally from the inner end thereof, said tongue being engaged with said bolt.

4. The combination with the side rail of a window sash having an aperture extending therethrough; of a bolt slidable in said aperture, a plate fixed to the inner face of said rail, the edges of said plate being bent upon themselves to form guides, a second plate slidably in said guides and having a tongue

extending laterally from the inner end thereof, and in engagement with said bolt.

5. The combination with the side rail of a window sash having an aperture extending transversely therethrough; of a spring pressed bolt slidable in said aperture, a guide member fixed to the inner face of said rail, a plate slidably longitudinally and transversely in said member and having a tongue extending laterally from the inner end thereof, said tongue being engaged with said bolt, said plate being provided with an I-shaped slot, and a lug extending through said slot for locking said plate against longitudinal movement.

6. The combination with the side rail of a window sash having an aperture extending transversely therethrough; of a spring pressed bolt slidable in said aperture, a plate fixed to the inner face of said rail and provided with guides at the edges thereof, a lug extending laterally from one end of said plate, and a second plate slidably longitudinally and transversely in said guides and being engaged by said lug.

7. A device of the class described comprising a guide member having means for attachment to a support, a plate slidably longitudinally in said member and having a tongue extending laterally from one end thereof, the free end of said tongue being shaped for attachment to a bolt, and means for locking said plate against movement.

8. A device of the class described comprising a plate having attaching ears extending from the edges thereof intermediate its length, the edges of said plate adjacent said ears being bent upon themselves to form guides, a second plate slidably in said guides and having means at one of its ends for engagement to a bolt, and means for locking the former plate against longitudinal movement.

9. A device of the class described comprising a guide member having means for attachment to a support, a plate slidably longitudinally and transversely in said member and having an I-shaped slot therein intermediate its length, a tongue extending laterally from one end of said plate, the free end of said tongue being shaped for attachment to a bolt, and a lug extending through said slot for locking said plate against longitudinal movement.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GORDON KIMBALL.

Witnesses:

H. A. BURNHAM,
E. JOHNSON.