

987,409.

Patented Mar. 21, 1911.

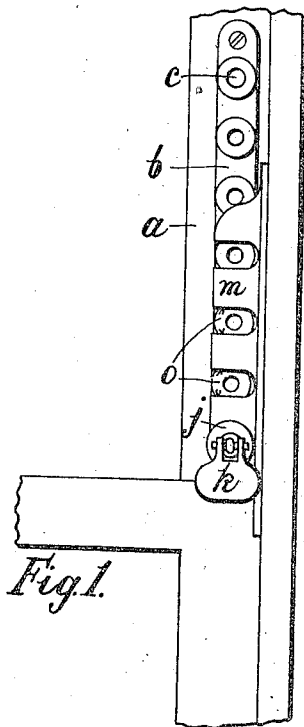


Fig. 1.

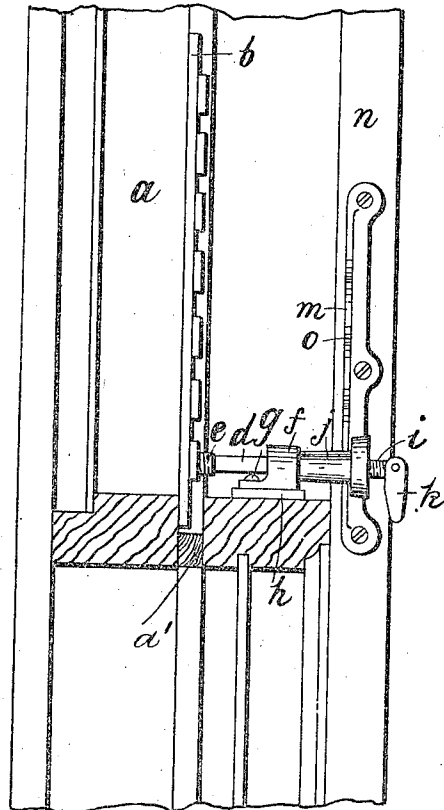


Fig. 3.

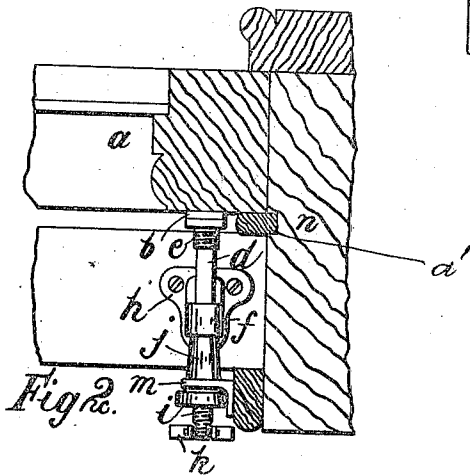


Fig. 2.

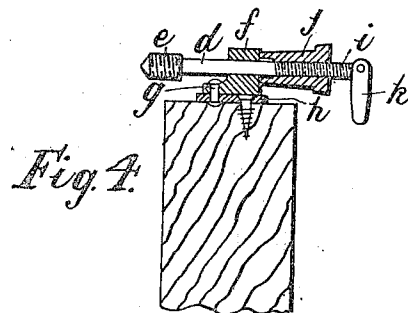


Fig. 4.

Witnesses.  
 Wm. H. Bates.  
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# UNITED STATES PATENT OFFICE.

FRANK SHORE AND THOMAS SHORE, OF ROCHDALE, AND WILLIAM SHORE, OF LONDON,  
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SASH-FASTENER.

987,409.

Specification of Letters Patent.

Patented Mar. 21, 1911.

Application filed April 25, 1910. Serial No. 557,567.

To all whom it may concern:

Be it known that we, FRANK SHORE, THOMAS SHORE, and WILLIAM SHORE, subjects of the King of Great Britain and Ireland, the two former being residents of Rochdale and the latter of London, in the counties of Lancaster and London, respectively, England, engineer, joiner, and manufacturer, respectively, have invented certain new and useful Improvements in Sash-Fasteners, of which the following is a specification.

This invention relates to fastening devices for windows; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

Our invention will be fully described with reference to the accompanying drawings in which,

Figure 1 is a front elevation of one form of the device forming the subject matter of our invention, Fig. 2 plan of same, partly in section, Fig. 3 side elevation also partly in section, Fig. 4 detached sectional view showing the bolt arrangement more clearly.

In carrying out this invention we secure on the inside face of one of the sash frames *a*, usually the top one, and at one or both sides of the window a plate *b* having a number of tapped holes *c* arranged at suitable distances apart, such plate being of any suitable length. Or in place of it a number of separate plates, tapped plugs or tubes, each having one hole may be similarly secured. On the other sash, usually the bottom one, we mount a bolt *d* having at its inner end a screwed portion *e* usually of an enlarged diameter, adapted to engage with any of the tapped holes in the plate or plates referred to. The intermediate portion of the bolt passes through a tubular bracket *f* freely, such bracket being directly pivoted on a vertical pivot *g* secured to the sash frame. The tubular bracket may be pivoted on a foundation plate *h* secured to the sash frame. The object of the pivoted tube, or it may be a pivoted stud with a hole in it, is to enable the screw *d* to be withdrawn from any of the tapped holes in the plate *b* and turned about a vertical axis to be engaged with or disengaged from a rack or slotted plate or a plate with holes in it, hereinafter referred to. The outer end of the bolt *d* has a second screwed portion *i* on which is mounted a milled headed collar *j* or a nut

or a collar provided with arms or equivalent means by which it may be turned around on the bolt *d* while the outer end of the latter is provided with a thumb portion *k* or cross bar by means of which it can be operated for screwing into or out of the tapped plate hereinbefore described. The rack or slotted plate *m*, previously mentioned, is secured to the window frame *n* in close proximity to the side of the bottom sash, the slots *o* in it being open ended so as to enable the screw bolt referred to, to be turned into or out of each of the slots about the pivot of the tubular bracket or stud hereinbefore mentioned.

The operation of a device constructed as hereinbefore described is as follows:— When the screwed bolt *d* is at right angles to the sash frames, as indicated in the drawings, and is screwed into one of the tapped holes *c* in the top sash both sashes are absolutely locked together and cannot be moved up or down. They may be thus held in their closed position, the bolt acting to this extent in a similar manner to the old fashioned screw used for securing window sashes. If, say, it is desired to lower the top sash it is only necessary to unscrew the bolt from the plate *b* and pull it backward. The top sash can then be freely moved up and down to any extent required and may be again locked in position securely to give any degree of opening by screwing the bolt into a different hole. In either case the bottom sash is securely locked in the closed position by virtue of the outer end of the bolt being engaged with one of the slots *o* of the slotted plate *m* secured to the window frame. One end of the collar *j* bears against the bracket *f*, and when the collar is screwed up against the bracket it causes the two sashes to nip the middle guide rib *a'* of the frame, so that the sashes are prevented from rattling. If, however, it is desired to raise or lower the bottom sash the screwed collar is slackened back, the screw disengaged from the hole in the top sash, drawn forward and turned about the vertical pivot referred to so as to disengage the screw and long boss of the collar from the slot *o* in the fixed bracket *m*. The bottom sash can then be raised or lowered to leave any opening required at its bottom end while the top sash is entirely closed or partially open as before described. After adjusting to the position required the

screw is turned about the vertical pivot into another slot of the fixed plate screwed forward into the hole in the top sash and locked by the screwed collar.

5 It will be understood that the aforesaid means allow of either sash being moved independently and locked in position securely where required but that in no case can the two sashes be moved up and down simultaneously when locked together. It is, therefore possible to have each sash open to a  
10 suitable extent and yet enable them to be securely locked to prevent any further movement either toward the top or bottom of the  
15 window frame. The arrangement also enables the sashes to be drawn tightly together so as to prevent any rattling of the windows and also permits of the usual window catches being dispensed with.

20 What we claim as our invention and desire to protect by Letters Patent is:—

In a sash fastener, the combination, with

a frame, and two slidable sashes; of a slotted plate secured to the frame, a bracket pivoted to the sash which is arranged next  
25 adjacent to the said plate and frame, a screwthreaded socket secured to the other sash, a revoluble locking-bolt for engaging with the said screwthreaded socket, said bolt being slidable longitudinally in the said  
30 bracket and having a screwthreaded portion, and a screwthreaded collar engaging with the said screwthreaded portion of the bolt and movable with it pivotally into engagement with the said slotted plate. 35

In testimony whereof we have hereunto set our hands in the presence of two witnesses.

FRANK SHORE.  
THOMAS SHORE.  
WILLIAM SHORE.

Witnesses:

AMY E. EVINS,  
DOROTHY M. DAVIES.