Aug. 16, 1949. L. E. LAMB 2,479,123

SAFETY DEVICE FOR WINDOWS

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Fig. 1.

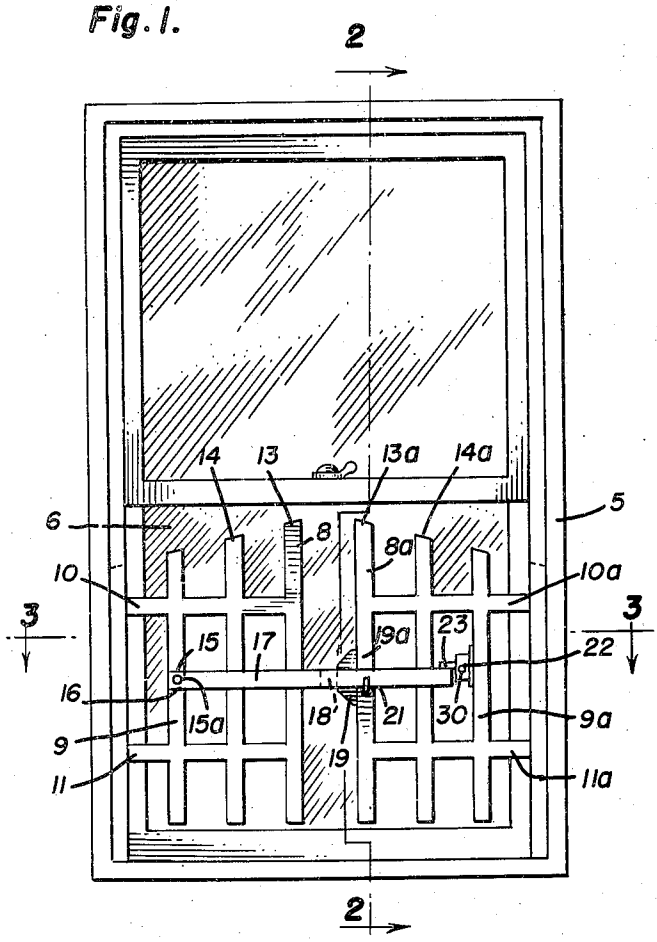
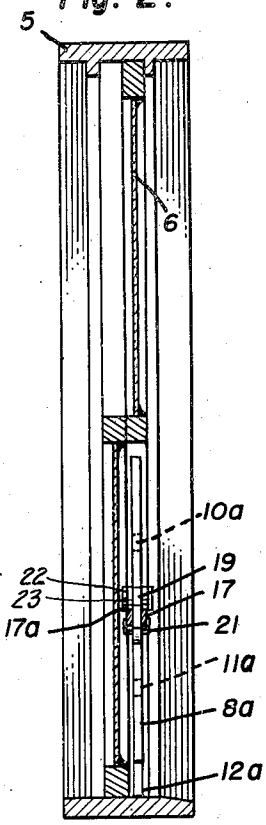


Fig. 2.



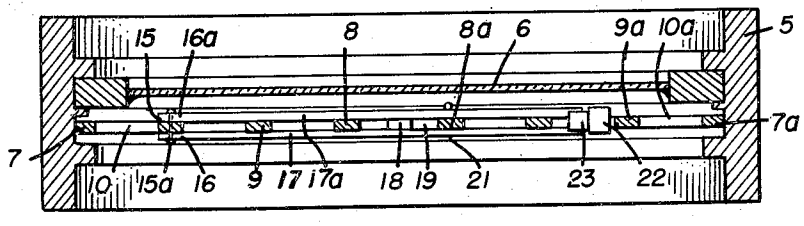


Fig. 3.

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Fig. 4.

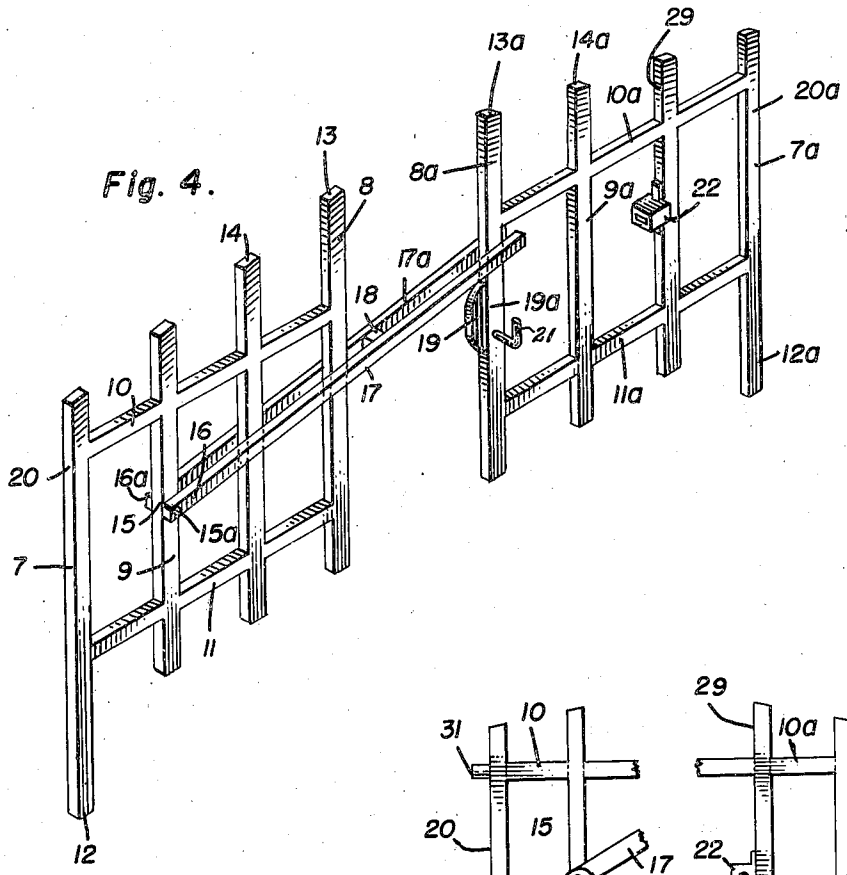
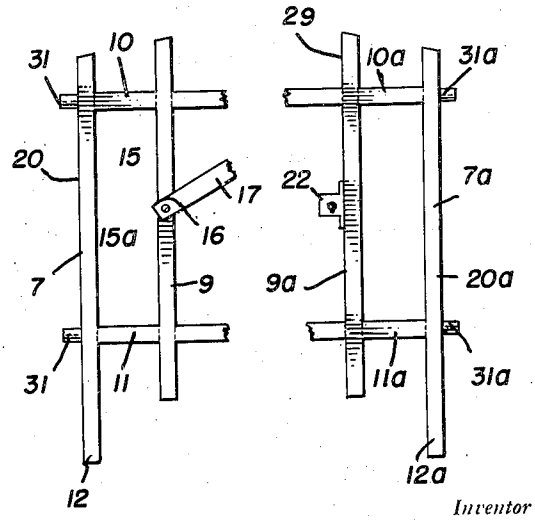


Fig. 5.



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SAFETY DEVICE FOR WINDOWS

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Application December 16, 1946, Serial No. 716,607

4 Claims. (Cl. 20—71)

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This invention relates to new and useful improvements in safety devices for windows and more particularly to a removable grating adapted for insertion in the outer lower channels of a window frame to prevent unauthorized persons from gaining access therethrough.

The primary feature of this invention is to provide a device of this character which is applied to said window frame without marring the surface of said frame and which can be quickly removed from said window frame and locked therein by conventional lock means.

Another important feature of this invention is to provide a device of the character referred to having an expansion plate means whereby said device is adjustable to fit tightly in said window frame without the necessity of screws, bolts or the like.

A further feature of this invention is to provide a device of the character referred to that is strong and durable in construction, efficient and reliable in operation, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a front elevational view of the device applied to a window frame on the outside of the window and locked in position thereto;

Figure 2 is a sectional view taken on the line 2—2 of Figure 1;

Figure 3 is an enlarged sectional view taken on the line 3—3 of Figure 1;

Figure 4 is a perspective view of the device removed from a window frame, and

Figure 5 is a fragmentary front elevational view of the device in slightly modified construction removed from a window frame, with parts broken away and shown in section.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 represents the window frame having a window 6. The grating or guard is composed of outer parallel upright posts or metal bars 7 and 7a and inner parallel upright metal bars 8 and 8a. Placed equi-distantly between bars 7 and 8 and bars 7a and 8a is a plurality of intermediate vertical bars 9 and 9a, said intermediate bars 9 are connected to each other and the outer bar 7 and inner bar 8 by a plurality of upper

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horizontal cross bars 10 and lower horizontal cross bars 11, and intermediate bars 9a are connected to each other and the outer bar 7a and inner bar 8a by a plurality of upper horizontal cross bars 10a and a plurality of lower horizontal cross bars 11a.

The lower end 12 and 12a of outer bars 7 and 7a respectively extend downwardly below the lower ends of intermediate bars 9 and 9a and inner bars 8 and 8a thereby raising slightly the intermediate bars 9 and 9a and inner bars 8 and 8a from the bottom of the window frame 5 and more or less centered vertically in said window 6.

The upper ends 13 and 13a of the inner bars 8 and 8a are preferably longer than the upper ends of the intermediate bars 9 and 9a and the outer bars 7 and 7a, and the upper ends 14 and 14a of said intermediate bars 9 and 9a are decreased in height as they extend outwardly as is clearly illustrated in Figure 1.

Pivotally connected at 15 by a rivet or other suitable means 15a at substantially the center of one of the intermediate bars 9 are the fixed ends 16 and 16a of a pair of locking bars 17 and 17a, one bar as for example 17a adapted to bear slightly against one side of the intermediate bars and the other bar as for example 17a adapted to bear slightly against the opposite side of said intermediate bars.

A spacing block 18 is suitably secured between the inner faces of said locking bars 17 and 17a and said block is adapted to bear against an expansion plate 19 which is suitably secured at 19a to the outer edge of inner bar 8a when bars 17 and 17a are lowered, thereby pushing the outer edges 20 and 20a of the outer bars 7 and 7a against the window frame.

A substantially U-shaped stop 21 is suitably carried by the bar 8a at substantially the center of said bar thereby preventing locking bars 17 and 17a from swinging downwardly below said stop, said stop being adapted to hold locking bars 17 in a normal horizontal position when the grating is applied to a window frame 5.

A conventional key operated lock 22 is secured to one of the intermediate bars 9a and includes a sliding bolt 23 adapted to be moved into a projected position overlying the free ends of the locking bars 17 and 17a to lock the bars in their lowered position with the edges of the grating or guard secured between the stiles of the frame 5 as shown in Figure 3.

The grating is applied quite simply to a window frame 5, by merely placing the outer edges of the outer bars 7 and 7a against the window frame

outside the lower window without the use of screws, bolts or other attaching means.

The locking bars 17 and 17a are then lowered and block 18 bears forcibly against expansion plate 19 as the bars 17 and 17a are lowered thereby fitting the grating tightly between said window frame. The locking bolt 23 is then moved into its locking position to hold the grating against unauthorized removal.

It is obvious that the upper window cannot be lowered without removing said grating.

If the grating is to be installed where there are no window stiles, holes (not shown) may be bored in the casing, or whatever is used for the window frame, and corresponding extensions 31 and 31a made on the outer edges of the outer bars 7 and 7a to fit into said holes (see Figure 5).

The device is easily removed from the window frame by insertion of the correct key in lock 22, to retract the bolt and locking bars 17 and 17a are raised upwardly and inner bars 8 and 8a are pulled toward each other loosening the grating which then is pulled outwardly from the frame.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

I claim:

1. A window guard comprising a pair of grills adapted for positioning upright in the sash channels at the opposite sides of a window frame, a locking bar pivoted to one grill and engaging the other grill to hold the grills in a spread apart relation in the opposite sides of a window frame, and means carried by one of the grills and engaging the locking bar to lock the latter against releasing movement.

2. A window guard comprising a pair of grills adapted for positioning upright in the sash channels at the opposite sides of a window frame, a locking bar pivoted to one grill and engaging the other grill to hold the grills in a spread apart relation in the opposite sides of a window frame, and a key controlled lock carried by one of the grills and engaging the locking bar to lock the latter against releasing movement.

3. A window guard comprising a pair of grills adapted for positioning upright in the sash channels at the opposite sides of a window frame, a locking bar pivoted to one grill, a sloping abutment carried by the other grill and engaged by a part of the locking bar upon a locking movement thereof to spread the grills apart and to hold the grills in engagement with the opposite sides of a window frame, and means carried by one of the grills and engaging the locking bar to lock the latter against releasing movement.

4. A window guard comprising a pair of grills adapted for positioning upright in the sash channels at the opposite sides of a window frame, a pair of locking bars pivoted at opposite sides of one of the grills and with the free ends of the bars swingable into a straddling position at opposite sides of the other of said grills, a sloping abutment carried by said other grill and engageable by a part of the locking bars upon a locking movement thereof to spread the grills apart and to hold the grills in engagement with the opposite sides of a window frame, and means carried by one of the grills and engaging the locking bars to lock the bars against releasing movement.

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