June 5, 1951 E. E. FOSTER 2,555,329

WINDOW OR SCREEN LOCK

Filed Feb. 7, 1947

Fig. 1.

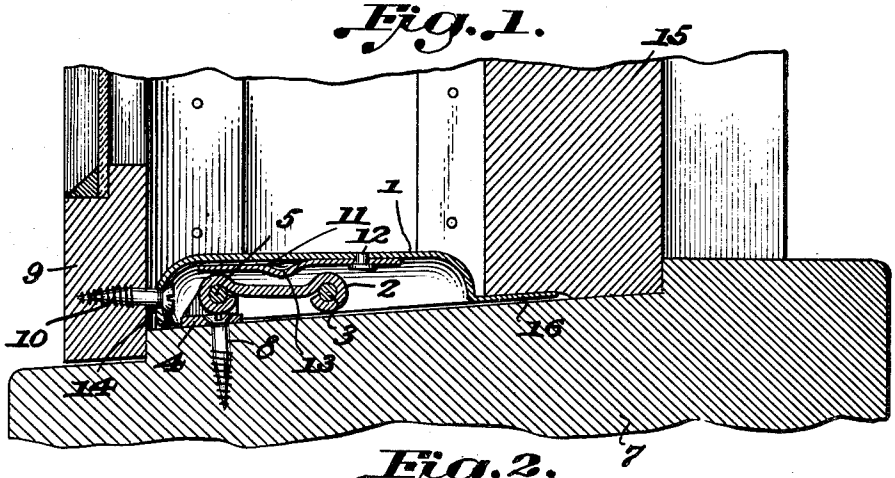



Fig. 2.

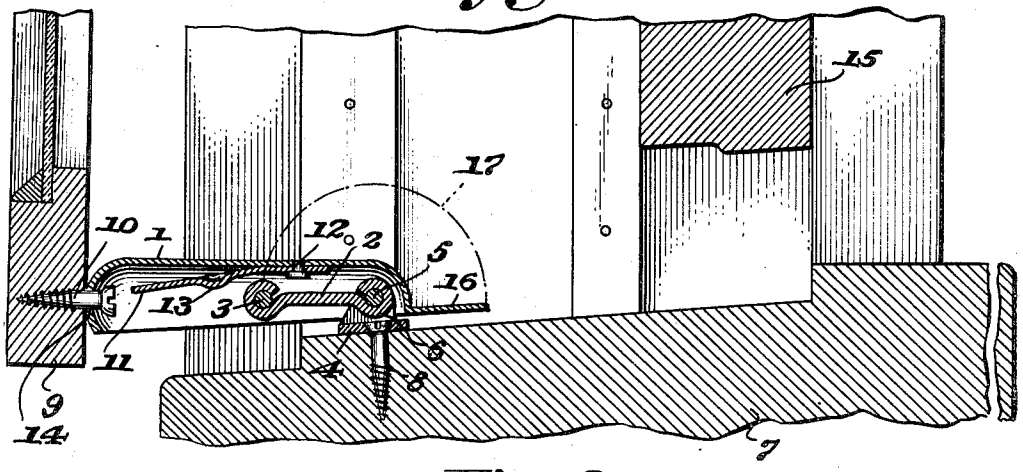



Fig. 3.

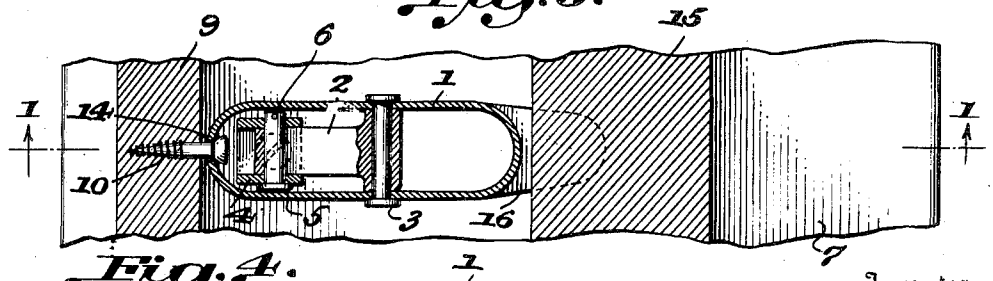



Fig. 4.

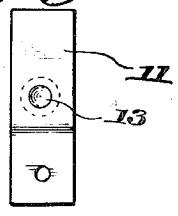
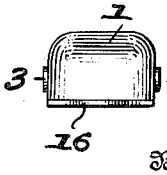



Fig. 5.




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# UNITED STATES PATENT OFFICE

2,555,329

## WINDOW OR SCREEN LOCK

Edwin E. Foster, Austin, Tex.

Application February 7, 1947, Serial No. 727,125

10 Claims. (Cl. 292—263)

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This invention relates to a window or screen latch which is particularly adapted to be used in connection with a window screen, or storm window or other types of windows. The latch is to be used in place of the usual and well known hook and eye to keep a screen or window in place.

It is therefore an object of the invention to provide a window or screen latch which can be easily installed with two or more screws.

A further object of the invention resides in a latch which is mounted to operate on a link and which has an extension to fit under a window sash to maintain the latch in locked position.

A still further object of the invention resides in the provision of a sounding element in the form of a spring operable by movement of the parts to sound an alarm when the latch is operated.

Another object of the invention resides in the provision of a lever which may be actuated to prop the window in a partially open position.

Further objects will be apparent from the following description when considered in connection with the accompanying drawing in which;

Figure 1 is a longitudinal sectional view of the latch applied to a window frame and a screen or storm window.

Figure 2 is a view similar to Fig. 1 with the screen or window in the partially open position.

Figure 3 is a cross sectional view of the latch and windows.

Fig. 4 is a plan view of the spring, and

Fig. 5 is an end view of the latch.

The latch comprises a stream-lined stamping or housing 1 to which is pivoted a connecting link 2 by means of the rivet or shaft 3. The opposite end of the connecting link 2 is pivoted to a U-shaped bracket 4 by means of the removable pin 5 and cotter pin 6. The bracket 4 is fastened to the base 7 of the window frame by means of the screw 8 and the housing 1 is fastened to the window frame 9 by means of the screw 10. A leaf spring 11 is riveted to the shell 1 by means of the rivet 12 and is provided with a cupped indentation 13, which makes it give out a loud clicking noise when flexed. To install the device the hole for the screw 8 is located the required distance from the edge of the window screen frame 9 and the bracket 4 screwed down firmly to the base 7. The screw 10 which fits through a slot 14 in the shell 1 is inserted in line with the screw 8, with the shell in a 45° angle pivoted around the screw 10. The pin 5 is inserted and the cotter pin 6 locked. The cover 1 should draw

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the window screen frame 9 firmly into closed position by means of the toggle action in the position shown in Fig. 1. If it is still too loose in this position, a screw-driver will fit into the head of the screw 10 when the shell is raised to a 45° angle. The inside window sash 15 rests on a flat extension 16 of the shell or frame 1. In order to unlock the window 9, it is merely necessary to raise the sash 15 at least a number of inches and assuming that this could be done by means of an ice pick from the outside of the window, the next operation for a prowler would be to raise the shell 1 upward about the pivot point 14. As the shell approaches the 45° angle, the spring 11 would cause a loud popping noise and thus sound an alarm. The window could then be opened to the position shown in Fig. 2 which would still not allow the prowler to remove the window frame or reach his hand inside. For authorized use however, this device would open and close the window easily and would allow it to open far enough for the base of the window frame to be cleaned. If one forgets to lock the window, it would still be burglar proof. The spring 11 causes the well-known "cricket" or "frog" clicker to pop as the devive is locked and again as it is unlocked. In order to remove the window for spring cleaning, it is merely necessary to remove the cotter pin 6 and pin 5, and this could be done from the inside of the house by holding the shell 1 at a 45° angle.

It is of course obvious that the device could be applied to a screen as well as a window 9. The device would operate in the same manner in which as shown in Fig. 2, the housing 1 swings in an arc with the pin 3 following the path as indicated by the dash line 17. As shown in Figs. 1 and 2 the housing 1 pivots on the screw 10 at one end and the other end moves in an elongated arc restricted by the toggle or link 2.

Referring to Fig. 1 it will be observed that the lip 16 holds the housing 1 securely down on the window frame 7 so that the window or screen 9 cannot be opened. If it is desired to open the window 9 it is only necessary to raise the sash 15 slightly to free the lip 16 and then by lifting the lip 16 and moving it forward with the housing 1 to the position as shown in Fig. 2. At the same time the window 9 is moved outwardly a distance equal to the lateral distance that the housing 1 moves to the left and as the spring 11 moves out of contact of the lever 2 the concavo-convex portion 13 of the spring 11 will snap over to form or produce a clicking noise to warn the occu-

pant of the room or house that the outer window has been moved.

It is preferable to leave some play between the head of the screw 10 and the housing 1 to permit the latter to pivot when the window 9 is opened or closed. The screw 10 should be adjusted into the frame 9 to provide a fairly tight operation of the toggle 2 when it snaps across center in the closed position.

I claim as my invention:

1. A latch for a storm window, screen or the like for a window sash comprising a housing pivotally connected to the storm window, a toggle lever connected at one end to a window frame and at the other end to the housing, said housing having means to prevent movement of the housing and toggle lever when the window sash is in the closed position.

2. A latch for a storm window, screen or the like comprising a housing pivotally connected to the window, and a toggle lever connected at one end to a window frame and at the other end to the housing, and an extending lip on the housing adapted to cooperate with a window sash to prevent actuation of the housing and toggle lever to prevent the opening of the window.

3. A latch for a screen or window and the like comprising a housing pivotally connected at one end to the window, a link connected at one end to the housing at approximately intermediate its ends and the other end connected to a window frame, and a lip extending from the other end of the housing to contact a window sash and the frame to lock and maintain the screen or window against the window frame, said housing being pivotally movable to the extent governed by the arc of the link to shift the housing laterally to open the screen or window.

4. A latch for a screen or window and the like comprising a housing pivotally connected at one end to the window, a link connected at one end to the housing at approximately intermediate its ends and the other end connected to a window frame, a lip extending from the other end of the housing to contact a window sash and the frame to lock and maintain the screen or window against the window frame, said housing being pivotally movable to the extent governed by the arc of the link to shift the housing laterally to open the screen or window, and means in the housing to produce an audible sound when the housing and link are actuated.

5. A latch for a screen or window and the like comprising a housing pivotally connected at one end to the window, a link connected at one end to the housing at approximately intermediate its ends and the other end connected to a window frame, a lip extending from the other end of the housing to contact a window sash and the frame



to lock and maintain the screen or window against the window frame, said housing being pivotally movable to the extent governed by the arc of the link to shift the housing laterally to open the screen or window, and means in the housing operable by the link to produce an audible sound when the housing and link are actuated.

6. A latch according to claim 3, in which the housing is U-shaped in cross section and the link is pivotally mounted between the sides of the housing.

7. A latch for a screen or storm window and the like comprising a U-shaped housing having a curved portion at one end and a lip extending from the other end, a link pivotally secured at one end to the housing approximately intermediate its ends and the other end to a window frame, and means for loosely securing the curved portion to the storm window to permit the housing to pivot when the housing is moved from a position to open the storm window to one in which the storm window is closed governed by the pivoting movement of the link around its pivotal connection with the window frame, said lip cooperating with a window sash to maintain the storm window in a latched position.

8. A latch according to claim 7, in which an audible alarm device is secured to the housing operable by the link to sound an alarm when the storm window is opened.

9. A latch according to claim 7, in which a spring is secured to the housing and having a deformed portion and extending into the path of the link whereby when the housing is shifted the link will deflect the spring to produce an audible sound by means of the deformed portion.

10. A latch for a storm window, screen or the like comprising a housing which is elongated and has a concavo-convex shape with the concave side facing downwardly, said housing being pivotally connected at one end to the storm window, and a link pivotally connected at one end to a window frame and the other end pivotally connected to the concave side of the housing at approximately the mid portion thereof, said link being concealed in the space under the concave side of the housing in the open and closed positions of the windows and both the housing and the link swinging on their pivotal mountings when the window is opened and closed.

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