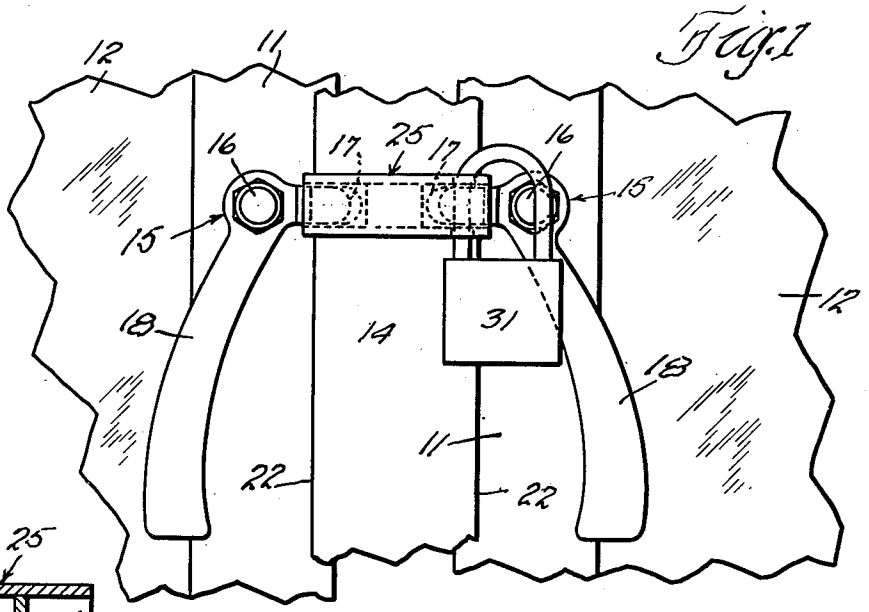
May 20, 1952 N. O. HOLMSTEN 2,597,583

FRENCH WINDOW LOCK

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Fig. 1



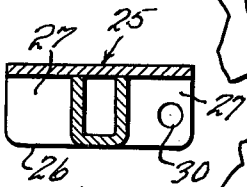


Fig. 3

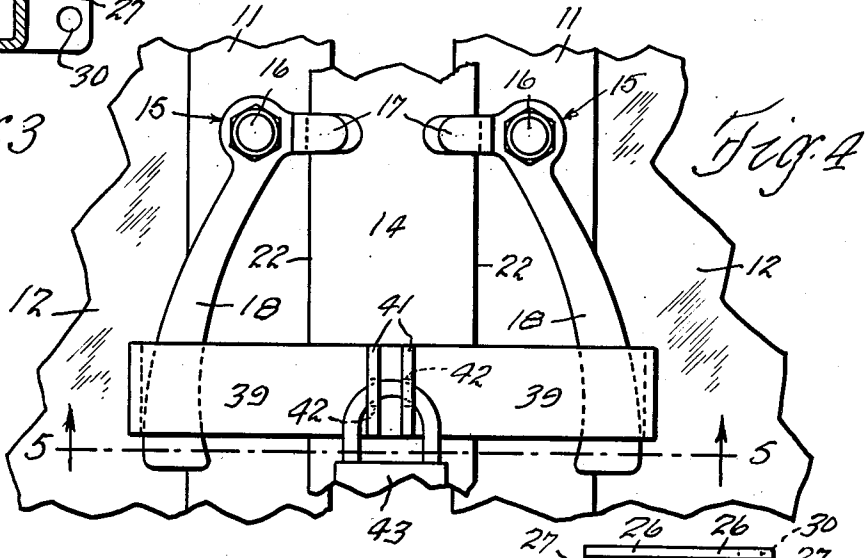


Fig. 4

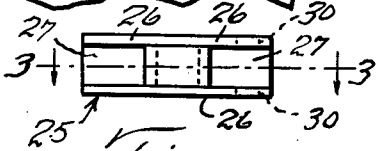


Fig. 2

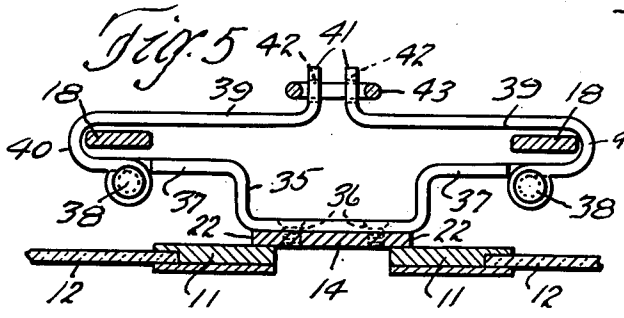


Fig. 5

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FRENCH WINDOW LOCK

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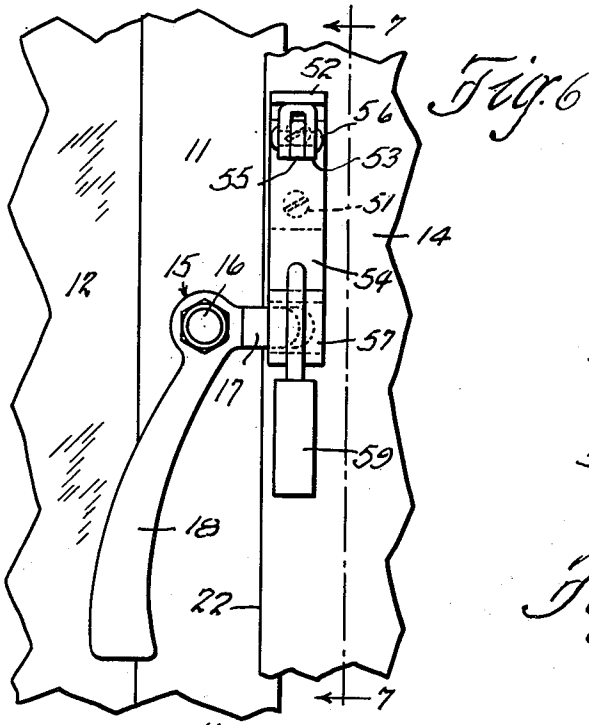


Fig. 6

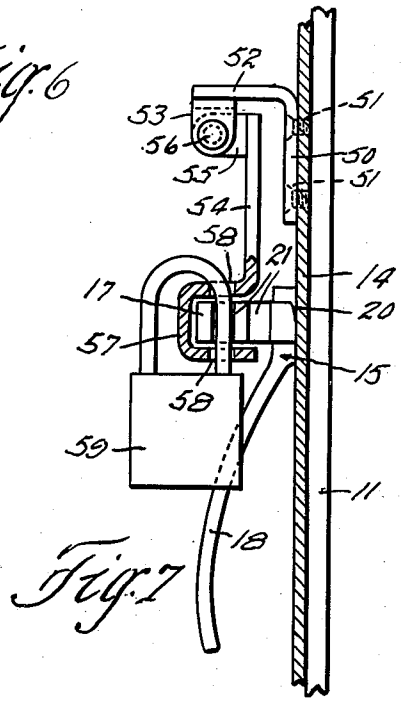


Fig. 7

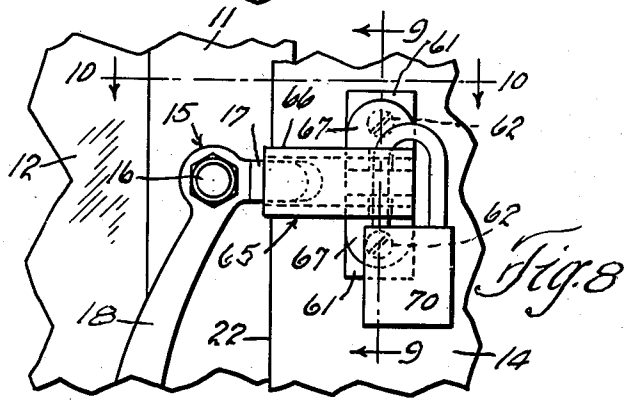


Fig. 8

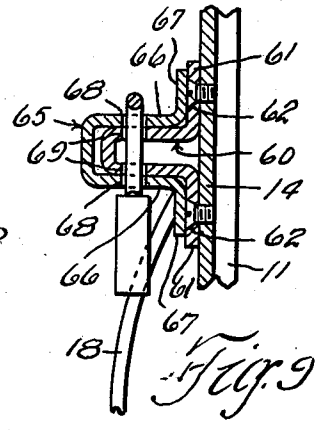


Fig. 9

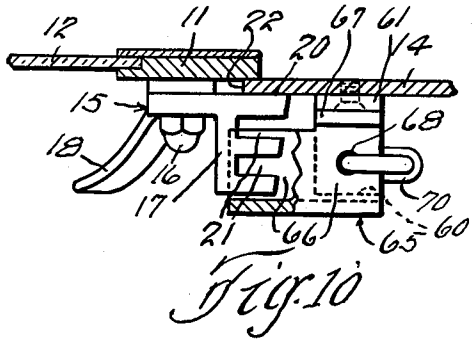


Fig. 10

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FRENCH WINDOW LOCK

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Application June 18, 1948, Serial No. 33,784

3 Claims. (Cl. 70—89)

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This invention relates to window latches and more particularly to a window latch for French windows having locking means to prevent unauthorized opening thereof when the window pane is broken.

An object of the invention is to provide a novel and improved window latch of the above type.

Another object is to provide a novel and improved locking means to be applied to window latches of the above type to prevent unauthorized operation thereof.

Various other objects and advantages will be apparent as the nature of the invention is more particularly disclosed.

The novel features which are characteristic of this invention will be better understood by referring to the following description, taken in connection with the accompanying drawings in which certain specific embodiments thereof have been set forth for purposes of illustration.

In the drawings:

Fig. 1 is a side elevation of a window latch embodying the present invention applied to a pair of French windows;

Fig. 2 is a detail view of the locking clamp therefor;

Fig. 3 is a section taken on the line 3—3 of Fig. 2;

Fig. 4 is a side elevation of a further form of locking device for use in conjunction with standard French window latches;

Fig. 5 is a horizontal section taken on the line 5—5 of Fig. 4;

Fig. 6 is a side elevation of a further form of latching device to be used with a single French window;

Fig. 7 is a vertical section taken on the line 7—7 of Fig. 6;

Fig. 8 is a side elevation of still another form of clamp and lock for a single French window;

Fig. 9 is a vertical section taken on the line 9—9 of Fig. 8; and

Fig. 10 is a horizontal section taken on the line 10—10 of Fig. 8 with parts broken away to show the construction thereof.

Referring to the drawings more in detail, the window latch is shown in Figs. 1, 2 and 3 as applied to a pair of swinging type French windows having sashes 11, window panes 12 and adapted to be closed against a frame including a central stationary bar 14 which may be made of wood or metal.

Each window sash 11 carries a latch 15 which is pivoted thereto by studs 16 and includes a latch arm 17 and an actuating handle 18. The

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latch arm 17 is adapted to engage the inner surface of the bar 14 for securing the windows in closed position and in the form shown the two latch arms 17 extend horizontally and are in registration when the two latches 15 are both in latching position with the windows closed.

The latch arms 17 are shown more in detail in Fig. 10 as being generally E-shaped and as having a cam surface 20 to engage the inner surface of the bar 14 for holding the window in closed position and having spaced slots 21 which are adapted to pass over the edge 22 of the bar 14 for holding the window in partly open positions.

The locking means in accordance with the present invention comprises a clamp 25 (Figs. 1, 2 and 3) having side flanges 26 and having end recesses 27 adapted to receive the aligned arms 17 of the latches 15 so that the clamp 25 may be positioned over the aligned arms as indicated in Fig. 1. At one end the flanges 26 are provided with aligned holes 30 which are adapted to register with one of the slots 21 of the arm 17 when the clamp 25 is in place and are adapted to receive a padlock 31 or the like which, when the clamp 25 is in place, extends through the holes 30 and through the registering slot 21 of the arm 17 so as to prevent removal of the clamp. When the clamp is positioned with the padlock 31 in place as shown (Fig. 1) the latches 15 cannot be actuated even though the panes 12 may be broken to provide access thereto.

For normal use the clamp 25 and padlock 31 are removed to permit the latches 15 to be actuated in the usual manner. However, when it is desired to lock the window against intruders, the clamp 25 and padlock 31 are positioned as above indicated.

In the embodiment shown in Figs. 4 and 5, the window frames and latches are of the type above described and have been given the same reference characters. In this embodiment, however, the clamp and lock comprises a base member 35 which is permanently attached to the stationary bar 14 of the window by suitable means as by screws 36 and is provided with outwardly extending arms 37 which carry hinge pins 38 at their ends. Straps 39 are hinged to the pins 38 and are formed with loops 40 which, in the position shown in Fig. 5, extend over the handles 18 of the latches 15. The straps 39 are provided at their ends with registering ears 41 having aligned holes 42 to receive a padlock 43 or the like for securing the straps 39 in locking position.

In this embodiment, when the straps 39 and padlock 43 are in place, as shown in Figs. 4 and 5, the handles 18 are locked against unauthorized actuation. When the padlock 43 is removed, however, the straps 39 are released to swing about the hinge pins 38 and may thus be opened to release the handles 18 of the latches 15 to permit the latches to be actuated in the usual manner.

It is to be understood of course that this embodiment is suitable for use with latches which are hinged to permit the handles 18 to swing outwardly about an axis parallel to the plane of the window as well as handles which swing about an axis normal to the window as indicated in the drawings.

The embodiments shown in Figs. 6 to 10 are suited for use with single windows having latches similar to those above described, the parts of which are given the same reference numerals.

Referring first to Figs. 6 and 7, the latch is shown as comprising a base plate 50 which is secured by screws 51 to the stationary bar 14 and is provided with an upstanding ear 52 carrying a hinge flange 53. A strap 54 is provided with a flange 55 which is hinged to the flange 53 by a pin 56 and at its free end is provided with a U-shaped clamping section 57 which is adapted to extend over the latch arm 17 of the latch 15 when the latter is in latching position as shown in Figs. 6 and 7.

The U-shaped section 57 is provided with a pair of holes 58 which are adapted to register with one of the slots 21 of the arm 17 when the strap is in locking position to receive a padlock 59 which passes through the aligned holes 58 and through the registering slot 21 for securing the latch in locking position as indicated. It is to be noted that the strap 54 when in locking position covers the rivets 51 so as to prevent removal thereof. When the padlock 59 is removed, however, the strap 54 is free to be swung out of registration with the arm 17 so as to permit the latch to be operated in the usual manner.

Referring now to the embodiment of Figs. 8 to 10, a keeper 60 is provided which is similar in section to the arm 17 and is provided with flanges 61 having holes 62 to receive attaching screws or rivets for attachment to the stationary bar 14. The keeper 60 is attached to the frame 14 in registration with the arm 17 of the latch when the latch is in closed position.

The locking means comprises a clamp 65 which is U-shaped in cross section and is provided with side flanges 66 adapted to span the arm 17 and the keeper 60 when in aligned position, and with outwardly extending flanges 67 which are adapted to cover the attachment screws 62 of the keeper 60. The flanges 66 are provided with holes 68 registering with holes 69 in the keeper 60 to rceive a padlock 70 or the like.

In this embodiment, when the clamp 65 is positioned and the padlock 70 is secured through the aligned holes 68 and 69, the latch arm 17 is prevented from actuation. When the padlock 70 and clamp 65 are removed, however, the latch 15 may be actuated in the usual manner. When in position the flanges 67 prevent removal of the keeper 60.

Although certain specific forms of the invention have been shown, it is to be understood that the invention is not restricted thereto, but that changes and modifications may be made therein as will be readily apparent to a person skilled in the art.

What is claimed is:

1. A lock for a pair of swinging windows adapted to close against a central vertical bar and having aligned latches pivoted thereto, said latches having latch arms mounted to engage said bar for holding said windows in closed position and in horizontal alignment when said latches are in latching position, a clamping member having recesses to receive said latch arms and extending over said aligned arms to prevent actuation thereof, and aligned holes in said clamping member and in one of said arms to receive a locking device to prevent removal of said clamping member.

2. A lock for latches for a pair of swinging windows adapted to be closed against a central vertical bar, each window having a latch arm pivoted thereto, said arms having surfaces to engage said bar for holding said windows in closed position and having slots to engage said bar for holding said window in partly open positions and extending in horizontal alignment when said latches are in latching position, and a clamping member spanning both of said arms and having recesses to receive the same and having holes aligned with a slot of one of said arms to receive a locking device for securing said clamping member against unauthorized removal.

3. A locking device for latches for a swinging window adapted to close against a stationary frame, comprising a latch pivoted to said window having an arm to engage said frame for holding said window in closed position and when in latching position extending substantially horizontally, a second arm having a cross section similar to that of said latch arm and positioned on the frame in horizontal alignment therewith, a U-shaped clamp extending over said latch arm and over said second arm to secure said latch arm against movement independently of said second arm, said second arm being fixed against movement with said latch arm, said clamp and one of said arms having aligned openings to receive a locking device for preventing removal of said clamp by unauthorized persons.

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