

March 19, 1929.

R. H. BLISS

1,706,100

WINDOW LATCHING DEVICE

Filed July 5, 1928

FIG. 1.

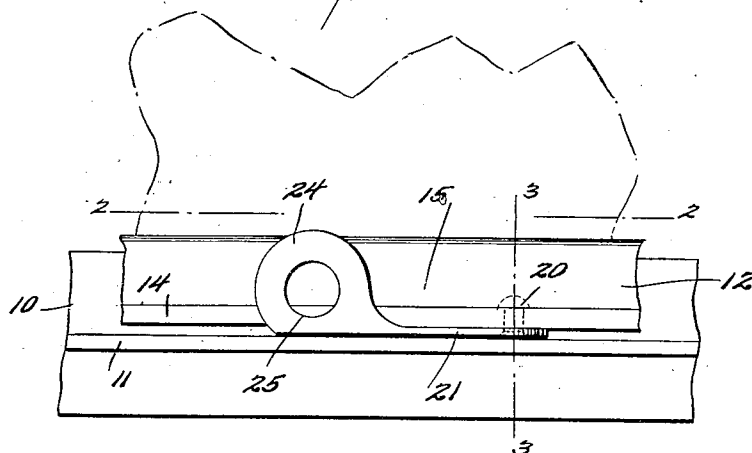


FIG. 2.

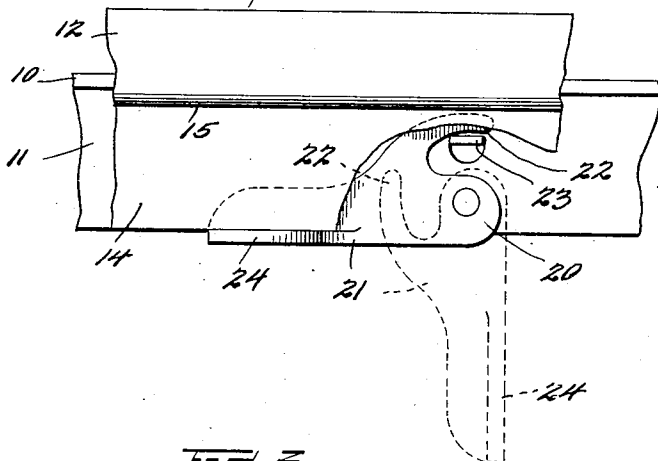
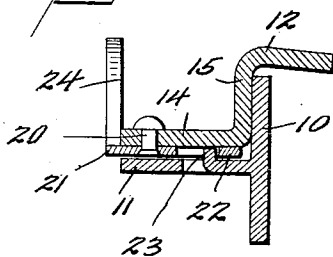


FIG. 3.



Inventor

Robert H. Bliss

By

Watson, Coit, Morse & Brindle
Attorneys

UNITED STATES PATENT OFFICE.

ROBERT H. BLISS, OF EAST SYRACUSE, NEW YORK.

WINDOW-LATCHING DEVICE.

Application filed July 5, 1928. Serial No. 290,554.

This invention relates to window latching devices, and more particularly to devices of this character which are adapted to latch a metal window sash to another sash, or to the stationary frame in which they are mounted.

Among the objects of the invention is the incorporation of a fastening means in a metallic window construction, with minimum mutilation or alteration of the adjacent frame and sash members which are to be secured together.

Another object of the invention is to provide a fastening means of this character which is almost wholly concealed when the sash is latched, and which permits the frame and sash members which are to be secured together to be in close proximity to each other.

Further objects of the invention are ease of application, saving of expense, and simplicity of construction and operation of fastening means of this character.

Other objects and features of novelty will be apparent as the following description proceeds, as taken in connection with the accompanying drawing, which illustrates one embodiment of the invention by way of example, and in which:

Figure 1 is an elevation of a portion of a window frame showing my improved latching device applied thereto;

Figure 2 is a horizontal section taken along the line 2—2 of Fig. 1; and

Figure 3 is a vertical cross section taken along the line 3—3 of Fig. 1.

Referring more particularly to the drawings the invention is illustrated in connection with a window having a stationary frame indicated generally at 10, which is provided with a horizontal flange 11 adapted to receive the movable frame or sash indicated generally at 12.

As shown in Fig. 3 the movable frame 12 comprises an angle having a leg 14 adapted to overlie the flange 11 and lie parallel thereto, and a vertical leg 15 adapted to abut against the member 10. The leg 12 is extended and bent down so as to overlie the member 10.

Secured to the flange 14 by a pivot rivet 20 is a latching lever 21. This lever is essentially flat, and adapted to lie between the leg 14 and the flange 11 and provided with a cam portion 22 adapted to move behind a

lug 23 struck up from the material of the flange 11 as shown in Figure 3. One side of the member 21 is bent up to form a thumb portion 24 provided with a central aperture 25.

It will be obvious that when the member 21 is in the position shown in dotted lines in Fig. 2 the window is unlatched and the movable frame 12 may be opened or closed as desired. If the window is to remain open the member 21 may be moved about its pivot to the position shown in full lines in Fig. 2 and also Figs. 1 and 3, in which case it lies snugly under the flange 14 and the thumb piece 24 is its only projection. When the window is to be closed the member 21 is moved to the position shown in dotted lines in Fig. 2 and the member 12 is urged against the frame member 10. A slight lateral pressure on the thumb piece 24 will cause the cam 22 to ride behind the lug 23 to the position shown in full lines in Fig. 2. This will securely latch the window in the closed position and the thumb piece 24 will be the only projection from the window in the latched position, as the member 21 lies snugly between the flange 14 and the flange 11.

While the invention has been described in great detail for one embodiment thereof, the broad idea is not limited to these details, but includes such embodiments as come within the scope of the sub-joined claims.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. In a window, the combination of a metal frame member and a metal sash member adapted in closed position to lie parallel and slightly spaced from each other, a lug struck up from the metal of said frame member, and a flat lever pivoted to said sash member in position to lie between said members in closed position having a portion adapted to move about the pivot and ride behind the lug to secure the two members together.

2. In a window, the combination of a metal frame member and a metal sash member adapted in closed position to lie parallel and slightly spaced from each other, a lug struck up from the metal of said frame member, and a flat lever pivoted to said sash member in position to lie between said members in closed position having a portion adapted to

move about the pivot and ride behind the lug to secure the two members together, said lever being housed entirely between said members when in locked position, with the
5 exception of a single handle portion which projects therefrom for operating the device.

3. In combination with a metal window frame mounted for opening and closing movement with respect to a stationary
10 frame, a lug struck up from the metal of one of said frames, and a flat member pivoted to the other of said frames and adapted to lie therebetween when in closed position and having a portion adapted to ride behind
said lug when the flat member swings about
15 its pivot to secure the two frames together in closed position, the end of said flat member remote from the pivot being bent up laterally to form a thumb piece.

In testimony whereof I hereunto affix my
signature.

ROBERT H. BLISS.