

No. 855,259.

PATENTED MAY 28, 1907.

E. C. RICHARDS.
STORM WINDOW FASTENER.
APPLICATION FILED MAR. 10, 1906.



Fig. 10

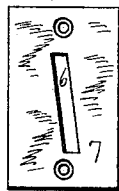


Fig. 7

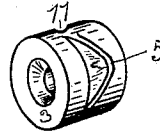


Fig. 8

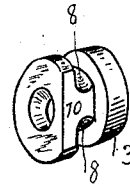


Fig. 9

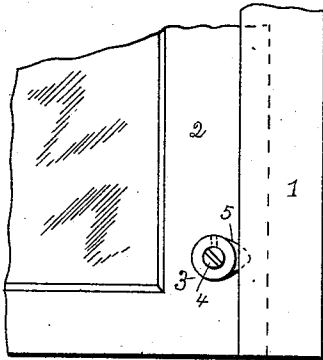


Fig. 1

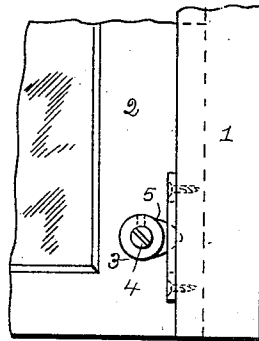


Fig. 2

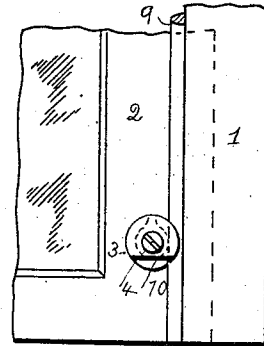


Fig. 3

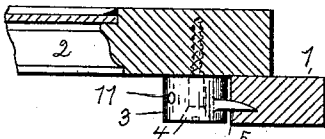


Fig. 4

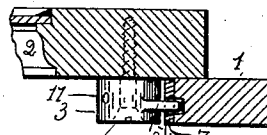


Fig. 5

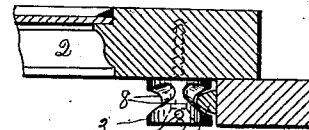


Fig. 6

Witnesses:
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UNITED STATES PATENT OFFICE.

ENOCH C. RICHARDS, OF PORTLAND, MAINE.

STORM-WINDOW FASTENER.

No. 855,259.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed March 10, 1906. Serial No. 305,224.

To all whom it may concern:

Be it known that I, ENOCH C. RICHARDS, a citizen of the United States, and a resident of Portland, in the county of Cumberland and State of Maine, have invented a new and useful Improvement in Storm-Window Fasteners, of which the following is a specification.

My invention relates to improvements in fastenings for storm windows and particularly to means for securing them in position without the use of nails, screws, etc.

It is also applicable to blinds, shutters, etc.

It consists of a drum pivotally secured to the face of the window and projecting inwardly therefrom, said drum being provided with means for engaging the edge of the window casing or the bead on which screens are mounted.

In the drawings herewith accompanying and making part of this application, Figure 1 is an elevation of a portion of a window frame and storm window showing one form of my improved fastener; Fig. 2 is a similar view, the edge of the window frame having a metal keeper; Fig. 3 is a similar view showing a modified form of my invention adapted to be used in connection with the screen bead; Figs. 4, 5 and 6 are transverse sectional views of 1, 2 and 4 respectively, the fastening device being shown in elevation; Fig. 7 is a plan view of the keeper shown in Fig. 2; Fig. 8 is a perspective view of the form of fastener shown in Fig. 2; Fig. 9 is a perspective view of the fastener shown in Fig. 3 and Fig. 10 is a perspective view of a lever to be used in operating my improved fasteners.

Same letters of reference refer to like parts.

In said drawings 1 represents a window frame, 2 a storm window, the edge of the window overlapping the face of the frame as shown in dotted lines in Figs. 1, 2 and 3. Secured to the inner face of the sash near the edge thereof is a drum 3 pivotally mounted on a post 4 preferably having its end threaded to take into the window frame, as shown in Figs. 4, 5 and 6, the drum being revoluble on the post. The drum is preferably made of metal and has integral therewith a lug 5

projecting from one edge thereof adapted when turned into the position shown in Fig. 2 to take into the edge of the window frame either directly as shown in Fig. 1 or through a slot 6 in a keeper 7 secured to the edge of the frame as shown in Fig. 2. When the lug is adapted to take directly into the wood it should be made with a sharp edge and beveled, as shown in Fig. 4 so as to give it a wedging force adapted to draw the window snugly against the frame. The same result is attained in the form shown in Fig. 5 by having the slot in the keeper slightly inclined.

Figs. 3, 6 and 9 illustrate a form of my device adapted to be used where the edge of the window frame is provided with a screen bead. In this case the drum is provided with spiral recesses 8 of a form rounded to correspond with the curved surface of the bead 9 and a portion 10 of one side of the face of the drum is removed to permit the proper positioning of the window relative to the frame. The turning of the drum within causes the bead to take into the spiral groove in the drum and with wedging action draw the window snugly against the frame. The drum may be provided with tool holes 11 to receive the end of a lever 12 by means of which the drums can be turned on their pivots.

The advantages of my improved device are that it is exceedingly cheap, is easily affixed to the sash and is capable of being used in connection with storm windows, screens, etc. which overlap the window frame, the locking device projecting out from the window and engaging the edge of the window frame.

Having thus described my invention and its use I claim:—

1. The combination with a storm window, screen, etc., of a fastener therefor comprising a rotatable drum secured to and projecting above the face thereof and provided with a locking lug adapted to be turned into and out of engagement with the edge of the window frame.

2. The combination with a storm window,

screen, etc., of a rotatable drum projecting inwardly from the face thereof and provided with a lug adapted to be turned into engagement with the edge of the window frame with
5 a wedging action.

3. The combination with a storm-window, screen, etc., of a rotatable drum projecting inwardly from the face thereof and provided with peripheral spiral grooves adapted to en-

gage a bead on the edge of the window frame 10 with a wedging action.

In testimony whereof, I have signed this specification in presence of two subscribing witnesses this eighth day of March, 1906.

ENOCH C. RICHARDS.

In presence of—

ELGIN C. VERRILL,
MARION RICHARDS.