Oct. 3, 1933. N. L. NELSON 1,928,734

SCREEN AND SASH FASTENER

Filed Oct. 17, 1932

Fig. 1.

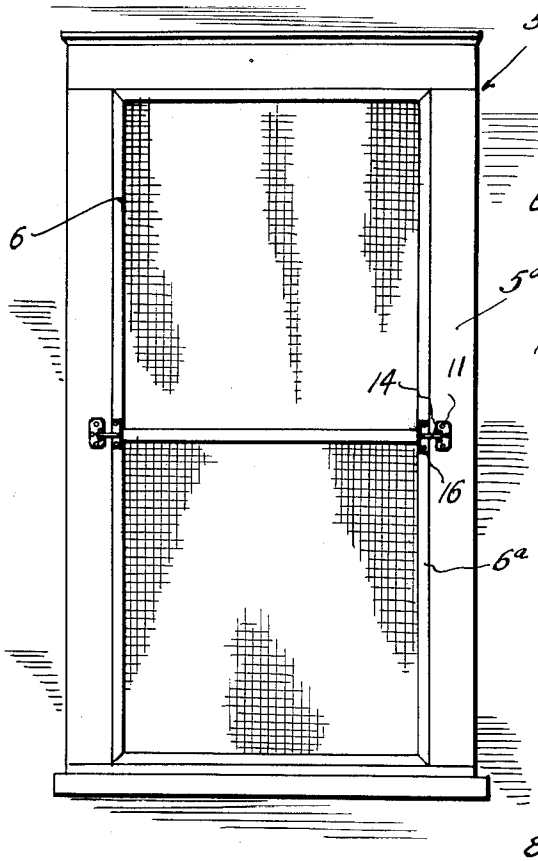


Fig. 2.

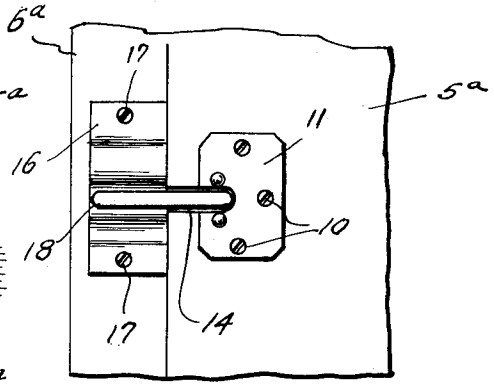


Fig. 3.

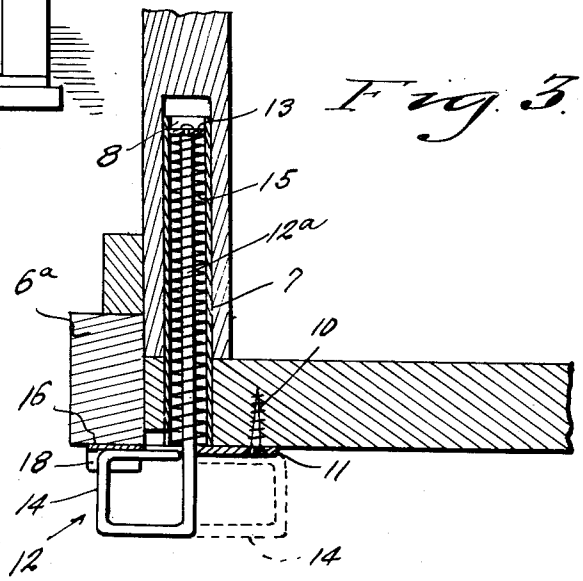
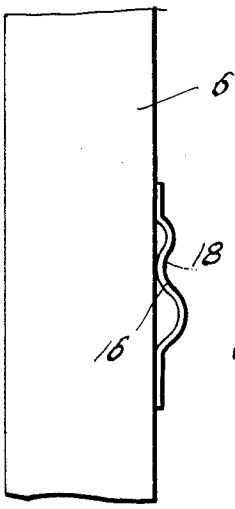


Fig. 5.



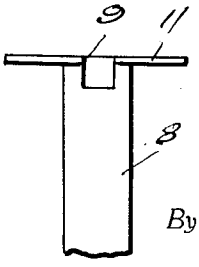


Fig. 4.

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UNITED STATES PATENT OFFICE

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SCREEN AND SASH FASTENER

Nels L. Nelson, St. James, Minn.

Application October 17, 1932. Serial No. 638,219

1 Claim. (Cl. 292—60)

This invention relates to a fastening device for use in conjunction with a window screen or sash for securing, when used in connection with a window sash, the sash at a desired opened or closed position; and in connection with a window screen, for securing the screen within a window frame in a manner to be readily removed therefrom.

Briefly, the invention consists in the provision of a spring-retracted latch member adapted to be mounted on the window frame, and a keeper plate adapted to be mounted on the window sash or screen as the case may be, and to be engaged with one end of the latch member for securing the window sash or the screen, as the case may be, in the desired position.

The invention, together with its numerous objects and advantages, will be best understood from a study of the following description, taken in connection with the accompanying drawing, wherein:

Figure 1 is an elevational view of a window, showing the device used in conjunction therewith for securing the window screen within the window frame.

Figure 2 is an enlarged elevational view showing the latch member in engagement with the keeper.

Figure 3 is a sectional elevational view, with the latch member shown engaged with the keeper.

Figure 4 is a plan view of one end portion of a cylinder or casing which slidably accommodates the latch member.

Figure 5 is an elevational view of a portion of a screen showing the keeper plate secured thereto, the keeper plate being shown in edge elevation.

With reference more in detail to the drawing, it will be seen that 5 designates generally a window frame, and 6 a full-length screen adapted to be arranged within the frame.

In accordance with the present invention, each vertical or side member 5*a* of the window frame 5 intermediate its ends is provided with a socket or recess 7 extending inwardly from the front face thereof and adapted to accommodate a cylindrical casing 8 which, on its outer end, is provided with a flange 11 suitably apertured for accommodating fastening screws or the like 10 for securing the casing in position. At said outer end the casing is provided with a lateral slot and the flange 11 with a notch, all of which is indicated generally by the reference numeral 9.

As will be clear from a study of Figures 2, 3 and 4 the flange 11 is in the nature of a rectangular plate to the rear side of which is secured one end of the casing 8 in any suitable manner. The marginal edge portions of the plate 11 form an attaching flange for the casing. At about the center thereof the plate forms an end wall for the casing 8 which has prior to the fixing to one end thereof of the plate 11, its ends substantially open. The plate 11 is provided at its center with an opening to accommodate the rod 12 and the slot in the plate extends radially with reference to said opening and across the outer end of the longitudinal notch in the casing 8, so as to accommodate the inner side of the finger receiving loop or frame 14 to permit the rod 12 to be drawn inwardly under the action of spring 15; the inward movement of the rod being limited by engagement of said inner side of the finger receiving loop or frame 14 with the inner end of the said notch in casing 8.

A latch member designated generally by the reference character 12 is formed from a single length of wire to provide a rod-like portion 12*a* slidably arranged within the casing 8 and provided on its inner end with a shoulder or washer 13, and at its outer end provided with a loop-like combination finger-piece and keeper plate engaging projection 14. The rod 12*a* is normally urged inwardly of the casing 8 through the medium of a spring 15 that is disposed about the rod, and which has one end bearing against the collar 13, and its other end bearing against the end wall of the casing 8 at the outer or flanged end of the casing as shown in Figure 3.

For cooperation with the latch member there is provided a keeper plate designated generally by the reference character 16, and the same is adapted to be secured to the side member 6*a* of the window screen frame, through the medium of fastening elements 17 engaged with the ends of the plate 16. The plate 16 will be directly opposite the flange 11, and the plate is corrugated or otherwise formed to provide a groove 18 with which the projection 14 of the latch member is engageable as shown in Figures 1 to 3 inclusive.

As is thought apparent, when the device is applied in the manner just described, the screen 6 will be securely retained within the confines of the window frame 5 by engaging the projection 14 of the latch with the groove of the plate 16. When it is desired to remove the screen 6, all that is necessary is to draw the rod 12 outwardly from the casing 8 by passing the finger through the loop projection 14 and pulling outwardly against the spring 15. Outward movement of the rod 12 will result in a movement of the projection 14 from out of engagement with the groove 18, and the keeper rod 12 may then be rotated for placing the loop in the dotted line position shown in Figure 3. With the loop 14 in said dot-

ted line position it is apparent that the screen 6 may be readily removed from the window frame.

While I have shown the invention as applied to a window screen, it is to be understood, obviously, that the device may be applied to a window frame and sash, or may be used in conjunction with a door and jamb.

Even though I have herein shown and described the preferred embodiment of the invention, it is to be understood that the invention is susceptible of further changes, modifications, and improvements coming within the scope of the appended claim.

What is claimed is:

In a closure fastener, in combination, an elongated casing open at each end, an attaching plate secured to the casing at one end and provided with a centrally located opening, said plate having its marginal edge portion projecting laterally with reference to the casing and being also provided with a slot extending radially from said aperture to one edge of the plate, said casing at one end being provided with a longitudinal notch opening into said slot; and a latch rod having an end slidably and rotatably mounted in said casing and extending through the aperture in said plate, a collar on the inner end of the rod fitting slidably within said casing, a spring disposed about the rod and having one end bearing on said collar, and its other end bearing against said plate and normally urging said rod inwardly of the casing, and a combined finger accommodating and keeper engaging loop on the outer end of the rod and extending laterally therefrom, said loop being accommodated by the slot in said plate and movable therethrough into and out of engagement with the notch in said casing.

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