June 4, 1940. J. C. LOGGINS 2,203,500

DOOR AND WINDOW LATCH

Filed July 20, 1939

Fig. 1

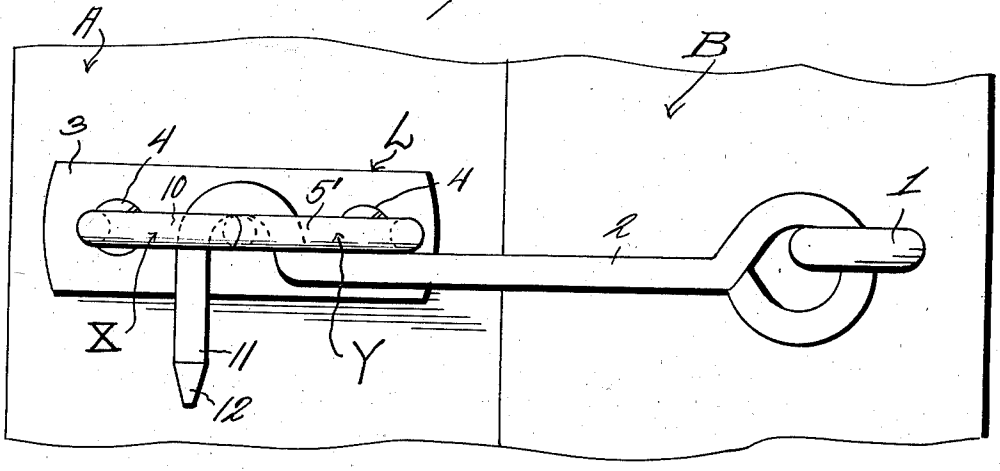


Fig. 2

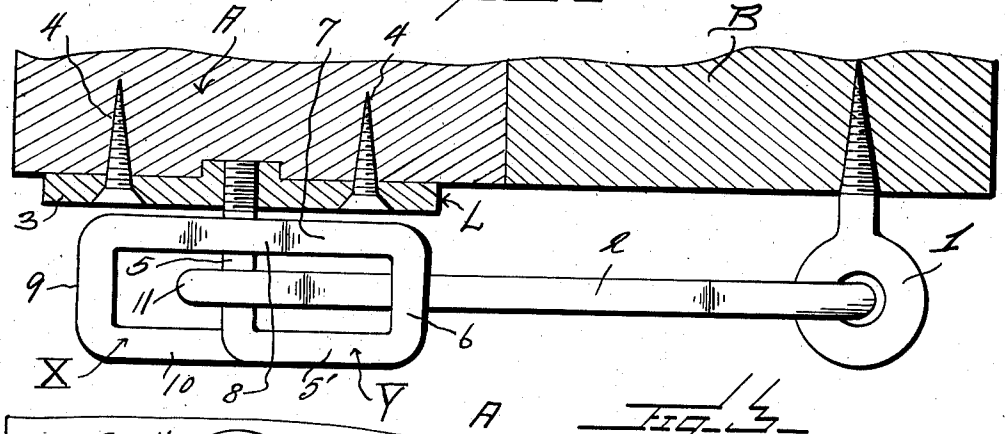
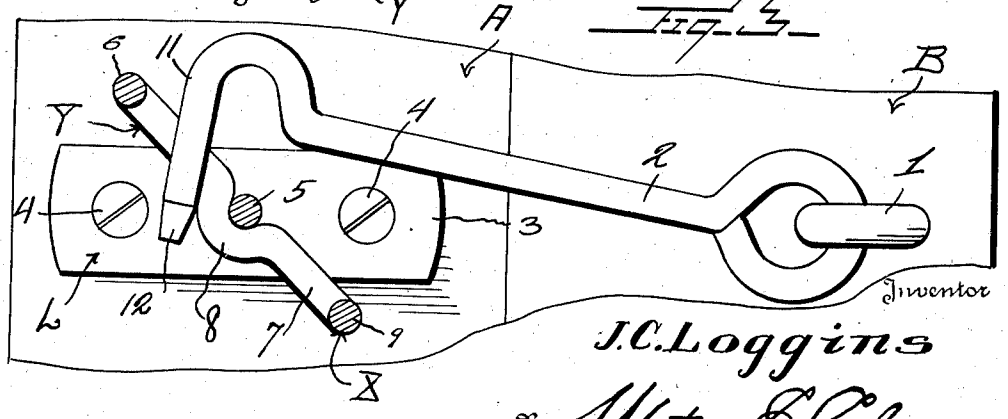


Fig. 3



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DOOR AND WINDOW LATCH

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2 Claims. (Cl. 292—108)

This invention relates to a door and window latch, and it is an object of the invention to provide a device of this kind particularly designed and adapted for use in connection with a conventional type of hook.

It is also an object of the invention to provide a latch of this kind which serves to provide means for effectively maintaining a hook against displacement or accidental or unauthorized release.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved door and window latch whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein—

Figure 1 is a view in elevation of a latch constructed in accordance with an embodiment of my invention and in locking or holding position;

Figure 2 is a view partly in section and partly in top plan of the assembly as illustrated in Figure 1;

Figure 3 is a view partly in elevation and partly in section illustrating a second position of the latch to permit release of the hook.

As disclosed in the accompanying drawing, A denotes a conventional door or window jamb and B the coacting stile or side member of a door, window or screen. Secured to the side member B in the usual manner, as at 1, is a conventional type of hook 2. This hook 2 is adapted to engage my improved latch L to maintain the door, window or screen in applied or closed position.

As illustrated in the accompanying drawing, my improved latch L comprises an elongated plate 3 secured in desired position upon the jamb A or other support by the screws 4 although the plate 3 may, if desired, be secured in position by any other means as preferred.

Threading into the plate 3 at substantially the center thereof is a shank 5 of desired length and which has its outer end continued by the substantially perpendicularly related arm 5'. This arm 5' has its outer end continued by the inwardly disposed and substantially perpendicularly related arm 6. This arm 6 is continued by a bar 7 which is disposed inwardly toward the shank and extends beyond the opposite side thereof. This bar 7, as is illustrated in Figure 2, is substantially equi-distantly extended beyond opposite sides of the shank 5 and the central portion of the bar 7 is offset, as at 8, to permit said bar 7 to bridge or straddle the shank 5.

The end of the bar 7 remote from the arm 6 is continued by the arm 9 extending outwardly therefrom and substantially parallel with the arm 6. This arm 9 is also substantially coextensive in length with the arm 6 and has its outer end continued by the inwardly disposed arm 10 which terminates in close proximity to the outer end of the shank 5.

The arms 5', 6, 9 and 10 together with the bar 7 and the shank 5 provide a double loop member while the portion of the shank 5 outwardly of the bar 7 constitutes a keeper with which the hook 2 engages. The mounting of the shank is such to permit the same to rotate.

In practice, the loop members X and Y are of a combined length in excess of the length of the bill 11 of the hook member 2 but the length of each of such loops X and Y is less than that of the bill 11.

In Figures 1 and 2 the latch is shown in its locking position but when it is in released position the loops X and Y are in reverse position from that shown in Figures 1 and 2 and as suggested in Figure 3 of the drawing. With the loops X and Y in such reverse position the bill 11 is inserted from above through the outer loop Y and as said loop Y is swung upwardly and inwardly of the shank of the hook member 2 the arm 9 of the loop X will contact the tapered extremity 12 of the bill 11 so that the hook member 2 will raise sufficiently to permit the arm 9 to continue in its upward movement and to offer no hindrance or obstruction to the bar 6 of the loop Y being brought in contact from above with the shank of the hook member 2 as illustrated in Figures 1 and 2 of the drawing. With this adjustment of the latch it is believed to be apparent that the hook member 2 is effectively held against displacement with respect to the latch or more particularly its engagement with the shank 5.

As disclosed in the accompanying drawing, the bill 11 of the hook member 2 is of a length in excess of the length of the loop X so that with the hook 2 in contact with the shank 5 and if the loop X should swing downwardly from any cause, the bar 9 will contact with the lower portion of the bill 11 above the taper 12 thereby

further assuring the hook 2 being held by the latch.

When it is desired, however, to disengage the hook 2 from the latch the loop X is swung downwardly and rearwardly with the hook member 2 slightly raised as is illustrated in Figure 3 so that after the arm 6 of the loop Y has been passed over the bill 11 and the bar 9 of the loop X passed below the bill 11, the hook 2 can be readily raised and released from the latch.

From the foregoing description it is thought to be obvious that a door and window latch constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:

1. A latch member for a hook comprising a shank, means for mounting the shank for rotary movement, rigid loops carried by the shank and extending in opposite directions therefrom, each of said loops having outer arms substantially in parallelism with the shank, one of said arms being adapted to contact the hook to hold the same against release from the shank.

2. A latch member for a hook comprising a shank, means for mounting the shank for rotary movement, rigid loops carried by the shank and extending in opposite directions therefrom, each of said loops having outer arms substantially in parallelism with the shank, one of said arms being adapted to contact the hook to hold the same against release from the shank, the shank and loops being formed from a single length of material.

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