No. 789,747. PATENTED MAY 16, 1905.

W. R. LOVE.

DOOR SECURER.

APPLICATION FILED JULY 22, 1903.

2 SHEETS—SHEET 1.

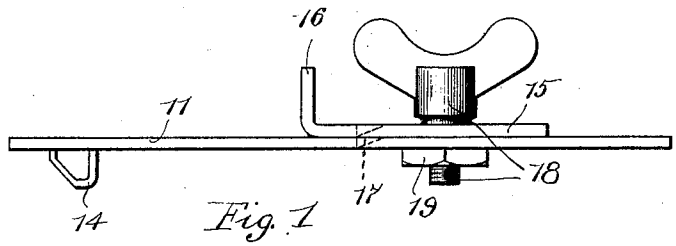


Fig. 1

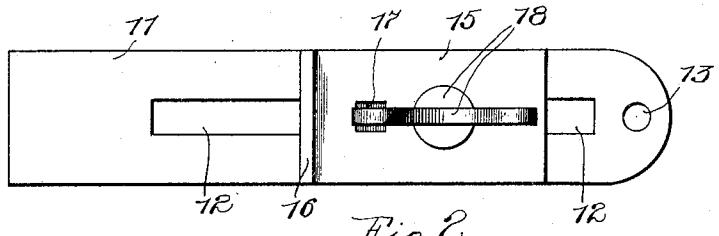


Fig. 2

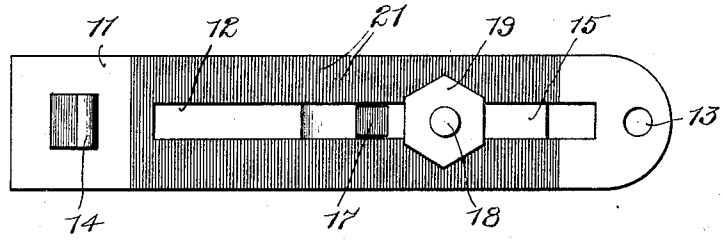


Fig. 3



Fig. 5 Fig. 4

Witnesses

Leonard W. Novander.

Lyman A. Williams

By

Inventor

William R. Love

Charles A. Brown

Attorney

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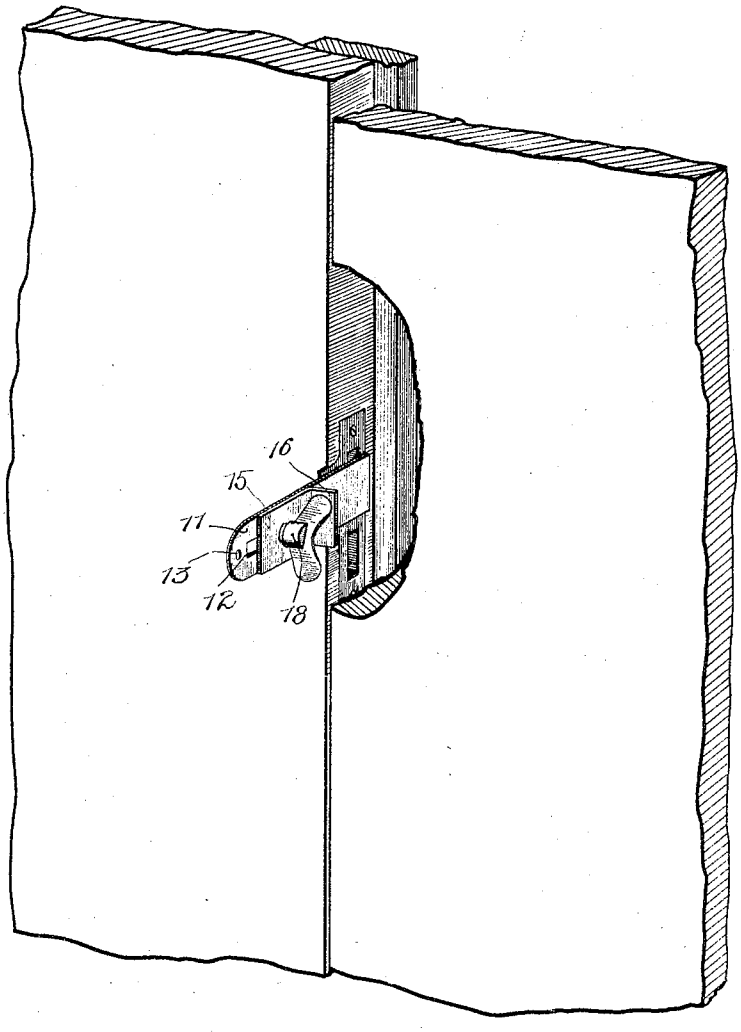
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2 SHEETS—SHEET 2.

Fig. 6



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No. 789,747. Patented May 16, 1905.

UNITED STATES PATENT OFFICE.

WILLIAM R. LOVE, OF CHICAGO, ILLINOIS.

DOOR-SECURER.

SPECIFICATION forming part of Letters Patent No. 789,747, dated May 16, 1905.

Application filed July 22, 1903. Serial No. 166,540.

To all whom it may concern:

Be it known that I, WILLIAM R. LOVE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Door-Securers, (Case No. 1,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to door-securers, particularly to those of a detachable nature, which may be readily carried from place to place and applied to a door or window whenever desired without the use of screws, nails, or any other means which might mark or mar.

The object of my invention is to secure simplicity and improved construction of a device of this class, and the details of my invention will be more clearly understood by reference to the accompanying drawings, in which—

Figure 1 illustrates a top view of the preferred embodiment of my invention. Fig. 2 illustrates an elevation of the same from the front. Fig. 3 is a rear elevation. Fig. 4 is a front view of the clamping-nut when removed from the remainder of the device. Fig. 5 is an end elevation of the same, and Fig. 6 is a perspective view showing the method of application of my improved locking device to a door and its jamb.

I have shown a flat steel tension-bar 11, having a longitudinal slot 12 running the larger part of the length of the tension-bar. There may be a hole 13 formed at the outer end of the tension-bar by which the device may be hung upon a nail or hook. At the inner end the tension-bar is provided with a lug or hook 14, the hook in the present instance being shown as of a form adapted to fit within one of the two openings usually provided in the jamb-plate of a door-lock.

There is provided on the front of the tension-bar a sliding foot 15, having an outturned toe 16. This sliding foot is provided also with an inwardly-extending projection 17, adapted to slide within the slot 12 of the tension-bar, this projection thus serving to guide the longitudinal movement of the foot.

Clamping means are provided whereby the foot may be secured in position upon the tension-bar. The clamping means which I have herein shown comprises a thumb-screw 18, the threaded portion of which engages a clamping-nut 19. The clamping-nut is provided upon its front or inner side with a rectangular projection 20, adapted to fit and slide within the slot 12. The tension-bar is provided upon its surface with substantially equally spaced serrations or teeth 21, the surface of the nut 19, which engages the back surface of the tension-bar, being provided with similar teeth 22. Upon tightening the thumb-screw the clamping-nut is drawn into tight engagement with the back of the tension-bar, whereby the teeth of the nut engage the teeth of the tension-bar to clamp the sliding foot securely in adjustment.

The mode of applying my improved device is as follows: The lug or hook portion is inserted within a suitable opening in the jamb of a door, as shown in Fig. 6. In this figure the lug is shown as inserted within the opening in the jamb-plate provided for the reception of the door-latch. This sliding foot is loosened and moved toward the extreme outer end of the tension-bar. The door is then closed, the outer end of the tension-bar being given a slight rotary motion toward the left, if necessary, in order to permit the door to clear the thumb-screw. After the door has cleared the wings of the thumb-screw and the toe of the sliding foot the inner end of the tension-bar is clamped between the edge of the door and the door-jamb. This tends to hold the tension-bar of the locking device firmly in position and perpendicular to the plane of the door. The sliding foot is then moved up until the toe 16 engages the inner side of the door, where the foot is clamped in position by tightening the thumb-screw, thereby bringing the teeth of the clamping-nut into register with the teeth on the face of the tension-bar. It will be seen that when secured in this position the locking device serves to prevent the door from being opened, and it is of course apparent that the locking device cannot be reached or manipulated from the out-

side of the door, as can be a lock of the usual form. Hence my improved burglar-proof locking device may be used in conjunction with the usual locking devices provided or separately and alone. On account of the adjustable nature of the sliding foot and its associated clamping means my invention may be applied to a door of any thickness or to a window in a manner which will be apparent.

It will of course be apparent to those skilled in the art that many modifications of the device herein particularly shown and described may be used without departing from the spirit of my invention. I do not, therefore, wish to limit myself to the precise construction herein set forth; but,

Having described my invention, I claim as new and desire to secure by Letters Patent—

In a device of the class described, the combination with a flat tension-bar 11 stamped from sheet metal and having a longitudinal slot 12 therein, of a lug 14 at one end of the bar adapted for engagement with the inner face of a door-jamb, a sliding foot 15 stamped entire from sheet metal, said foot having an outturned toe 16 for engaging the door and having a projection 17 stamped therefrom to guide the foot in the slot 12, a thumb-screw 18 passing through a hole in said foot and through said slot, and a clamping-nut 19 acting in conjunction with said thumb-screw to clamp said foot in position on said tension-bar, said nut having a projection 20 for engaging in said slot 12, the lower part of the tension-bar and the engaging face of the nut being serrated.

In witness whereof I hereunto subscribe my name this 20th day of July, A. D. 1903.

WILLIAM R. LOVE.

Witnesses:
LYNN A. WILLIAMS,
CHARLES J. SCHMIDT.