Sept. 7, 1926. 1,599,256

A. F. W. VIEHWEGER

LOCK STRIKER AND KEEPER

Original Filed June 19, 1923

Fig. 1.

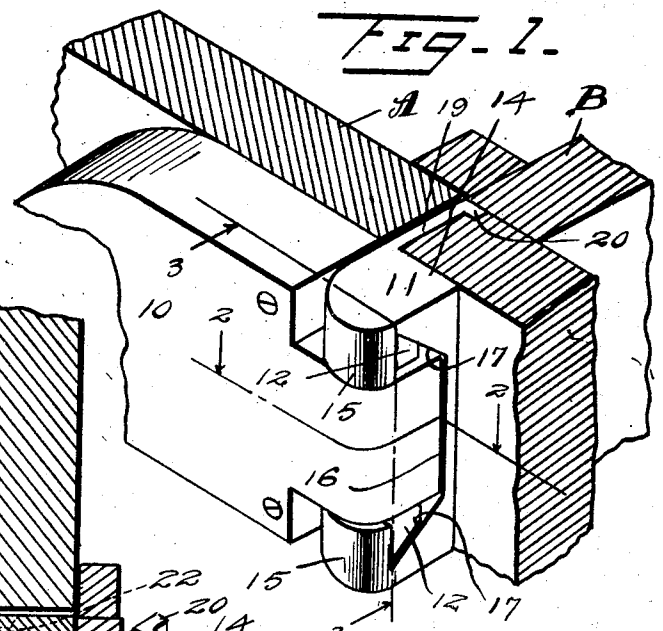


Fig. 2.

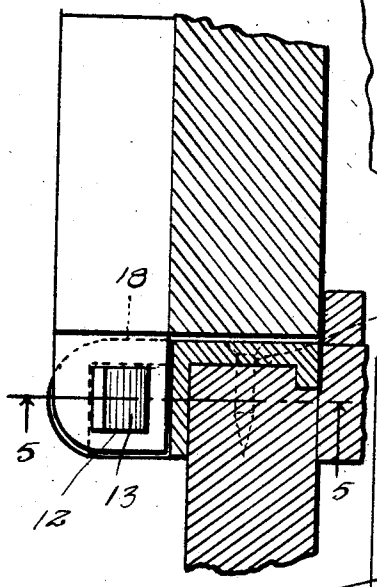
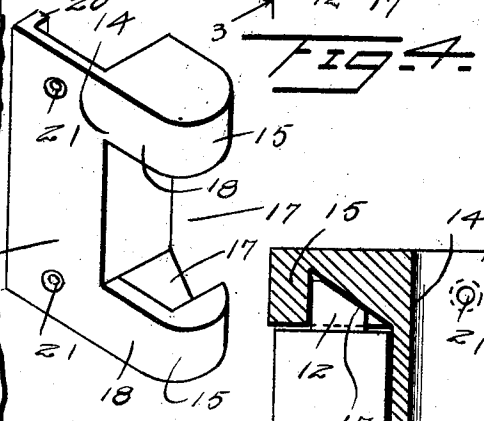


Fig. 4.



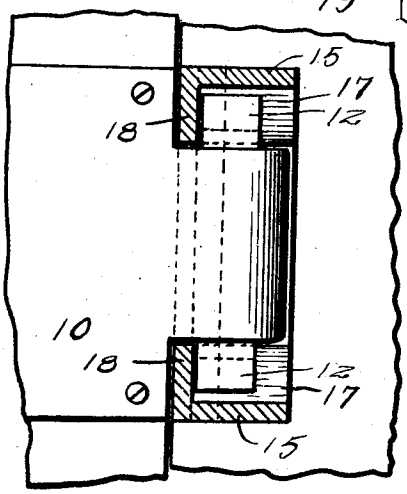


Fig. 3.

Fig. 5.

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UNITED STATES PATENT OFFICE.

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LOCK STRIKER AND KEEPER.

Application filed June 19, 1923, Serial No. 646,455. Renewed February 9, 1926.

This invention relates to a lock striker or keeper.

It is generally aimed to provide an improved and more efficient striker or keeper for door locks and the like of the general class of which that disclosed in Letters Patent No. 1,464,456, issued to me on August 7, 1923, forms an example.

It is particularly aimed to provide a construction which will minimize the liability of successful tampering or jimmying of the lock.

Still another object is to provide the striker or keeper of such construction that it may be made in a single piece, that the space accommodating the lock bolts may be substantially dovetail, that the hooks or portion receiving the lock bolts may be closed at one end by walls disposed between the bolts and the lock casing, and one which may be constructed so as to be fastened to give a more secure hold with respect to its support or door frame.

Various additional objects and advantages will become apparent from a consideration of the description following taken in connection with accompanying drawings illustrating an operative embodiment.

In said drawings:—

Figure 1 is a view in perspective showing a lock fastened by means of the improved striker and in connection with a door and door frame, the latter being shown fragmentarily;

Figure 2 is a sectional view taken on the line 2—2 of Figure 1;

Figure 3 is a sectional view taken on the line 3—3 of Figure 1;

Figure 4 is a detail perspective view of the striker or keeper; and

Figure 5 is a sectional view taken on the line 5—5 of Figure 2.

Like reference characters designate like or similar parts in the different views.

Referring specifically to the drawings, a door is fragmentarily shown at A as adapted to swing open and closed relatively to a frame fragmentarily shown at B. The door carries a lock 10 and the frame B has a striker or keeper 11 to coact therewith.

The lock 10 may be generally of the type or equivalent of that disclosed in my said patent aforesaid and has bolts 12 which are operable similarly to the bolt 9 of said patent to the end that when the bolts 12 are projected, they are in locked position and when retracted within the casing of the lock 10 are in open or unlocked position. The bolts 12 have their outermost ends inclined or of cam shape as at 13 to the end that they will be substantially wedge-like and collectively will form a dove-tail.

The striker or keeper 11 has a facing plate as at 14 adapted for disposition against one side face of the frame B. Projecting outwardly from the plate 14 and integral therewith are hooks or retainers 15 which are spaced apart as at 16 in order to receive a portion of the body or casing of the lock snugly between them. The retainers 15 have recesses 17 corresponding in shape to the bolts 12 and extending inwardly from the facing surfaces of the retainers.

Particular attention is called to the fact that the recesses 17 are closed at one end by a wall 18 which greatly adds to the security of the lock since it prevents the insertion of a jimmy or tampering instrument intermediate the lock 10 and the bolts 12 in such manner as to displace or retract the latter.

The striker or keeper may be fastened to the door frame in any suitable manner but preferably has an attaching plate 19 extending integrally from the plate 14 at one side edge. Plate 19 preferably has an integral rib or flange 20 adapted to be fitted into the door frame so as to give the keeper or striker a better hold. In addition, the plate 19 is provided with one or more apertures 21 to accommodate the passage of fastening screws 22 therethrough for engagement with the frame B.

In use, the bolts 12 are slidable toward and away from each other and in a vertical plane as suggested by the arrows in Figure 1. The bolts 12 through manipulation of the lock are capable of complete retraction within the casing of the lock 10 and in this condition, the door A may be readily swung as is necessary for opening and closing thereof. In the closed position of the door, the casing or lock 10 is bodily disposed in the opening 16, snugly occupying the same and if it is desired to lock the door, the same is actuated so as to project the bolts 12 into the position shown in the drawings where they occupy the recesses 17 and form a substantially dove-tail connection with the striker or keeper. In this position, the bolts

12 are beyond the wall 18 and hence are guarded against tampering on the part of a jimmy or other tool. The bolts 12 may be readily retracted in order to release the lock from engagement with the striker or keeper.

It will be noted that the striker or keeper 11 is capable of manufacture in a single piece as shown in the drawings.

Changes in the details may be resorted to provided they fall within the spirit and scope of the invention as defined in the claims.

What is claimed is:—

1. In combination, a lock, a keeper having retainers integral therewith and provided with a face adapted to be crossed by the lock, the lock being adapted to snugly fit intermediate the retainers, said retainers having recesses, means closing said recesses at said face opposite the casing of the lock in locked position, bolt means carried by the lock and movable in a straight path to engage said recesses, said bolt means in locked position being disposed against retraction accidentally, said bolt means at opposite ends being inclined along divergent planes, and the recesses being shaped similarly to the bolt means to provide a substantially dove-tail connection.

2. A one piece lock keeper having spaced retainers, said retainers in their facing surfaces having bolt-receiving recesses, walls at one end of and closing said recesses, the base walls of said recesses being on divergent planes, an attaching plate for said keeper, a flange, and said retainers and flange being at opposite longitudinal edges of the attaching plate and on the same side thereof.

3. A lock keeper having a face plate, retainers integral therewith and extending from one side thereof and in spaced relation, the surfaces of said retainers at said space having bolt-receiving recesses, walls closing said recesses at one end thereof, an attaching plate extending from said face plate on the opposite side to said retainers, and a flange extending from the distal longitudinal edge of the attaching plate and in substantially the same direction as the face plate.

In testimony whereof I affix my signature.

AUGUST F. W. VIEHWEGER.