Dec. 6, 1955 A. CONHAGEN 2,726,112

LOCK STRIKING PLATE

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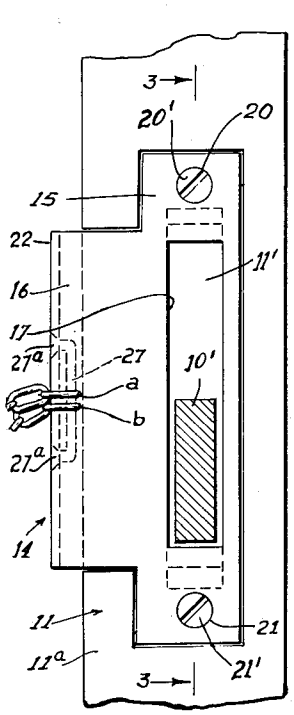


Fig. 2.

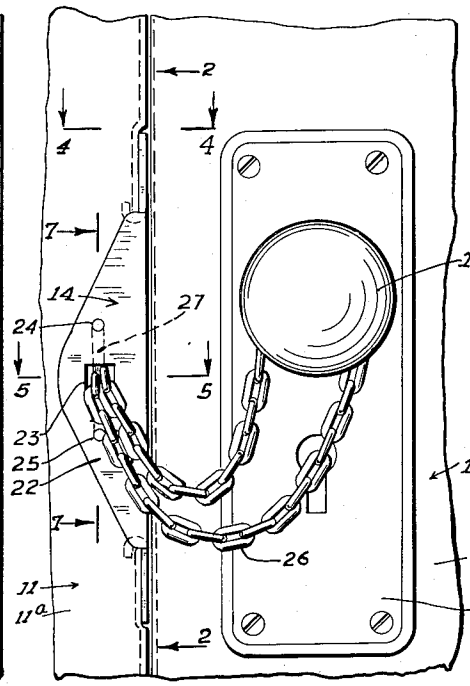


Fig. 1.

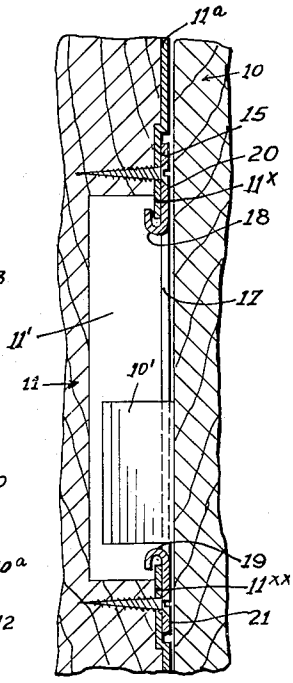


Fig. 3.

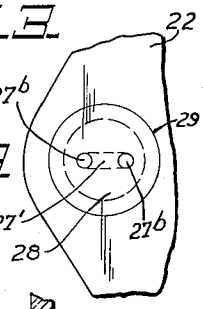


Fig. 9.

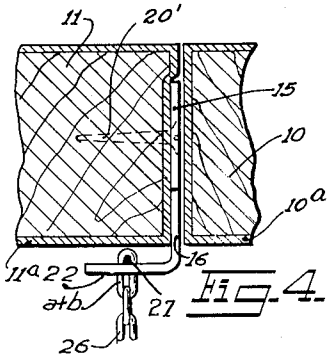


Fig. 4.

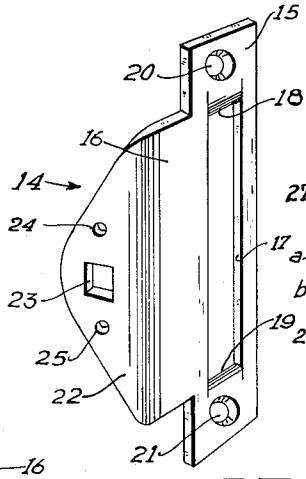


Fig. 6.

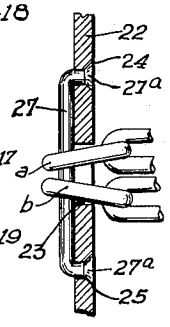


Fig. 7.

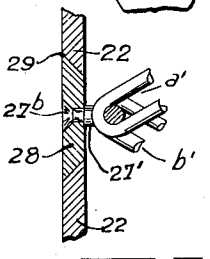


Fig. 8.

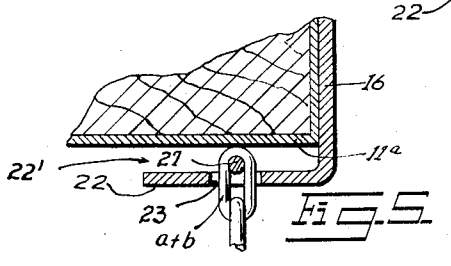


Fig. 5.

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LOCK STRIKING PLATE

Alfred Conhagen, New York, N. Y.

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4 Claims. (Cl. 292—264)

This invention relates to new and useful improvements in lock-striking plates for doors.

A principal object of the present invention is to provide a lock-striking plate for a door having means for holding the door in partly closed condition.

Another object of the invention is to provide a lock-striking plate for a door with improved means for attaching a chain for holding the door in partly closed condition, without marring the door or door jamb.

A specific object of the invention is to provide a lock-striking plate with an angled extension for attaching the ends of a door holding chain, whereby the chain is adapted to hang loosely from the striking plate.

Still another object of the invention is to provide a lock-striking plate of the kind described which is simple and rugged in construction and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is an elevational view of a fragment of a door and door frame showing a lock-striking plate embodying one form of the invention in operative position.

Fig. 2 is a vertical sectional view taken on the plane of the line 2—2 of Fig. 1.

Fig. 3 is a vertical sectional view taken on the plane of the line 3—3 of Fig. 2.

Fig. 4 is a cross-sectional view taken on the plane of the line 4—4 of Fig. 1.

Fig. 5 is an enlarged cross-sectional view taken on the plane of the line 5—5 of Fig. 1.

Fig. 6 is a perspective view of the lock-striking plate.

Fig. 7 is an enlarged vertical sectional view taken on the plane of the line 7—7 of Fig. 1.

Fig. 8 is a sectional view through the center of the chain supporting extension of the lock-striking plate showing a modified means for securing the chain to the lock-striking plate.

Fig. 9 is a front elevational view of the parts of Fig. 8.

Referring to the drawings in detail, in Fig. 1 is shown a fragment of a door **10** and door frame or jamb **11**. The door is shown with an ordinary escutcheon plate **12** secured thereto and a knob **13**. The door has a covering **10a** of sheet metal and the jamb has a similar covering **11a**. The door frame **11** is formed with the usual recess **11'** and the sheet metal covering **11a** is slotted in line with the recess to permit entrance of the ordinary locking bolt **10'** into the recess.

In accordance with the present invention, a lock-striking plate indicated generally at **14** is secured to the door frame or jamb **11**. The striking plate is formed of sturdy metal and comprises a flat base portion **15** and a lateral extension **16** disposed in the plane of the base **15**. The plate is formed with the usual slot **17** to permit the locking bolt **10'** to pass therethrough. The end wall edges of the slot **17** are extended and bent to form hooked portions **18** and **19** and above and below the slot are holes **20** and **21**, respectively. In mounting the plate on the door frame, one hooked portion, for example, hooked portion **18** is hooked under the projecting upper end wall edge **11x** of the slot in the covering **11a** and slid upwardly a sufficient distance to permit the lower hooked portion **19** to swing over clear of the projecting lower end wall edge **11xx** of the slot in the covering **11a** The hooked portion **19** is then dropped onto the lower end wall edge **11xx** into position. When the plate is thus positioned, fastening elements, such as screws **20'** and **21'** are passed through the holes **20** and **21**, respectively, to secure the striking plate to the indented face of the door frame. The interlocking hooked portions and end edges of the slot in the covering **11a** assist in holding the locking plate against displacement.

The lateral extension **16** of the lock-striking plate is formed with an integral 90 degree or right-angled bend constituting a chain supporting extension **22**. The extension **22** is spaced away from the outer face of the door frame **11** leaving a clearance **22'** between the extension and the door frame. The extension **22** is formed with a central slot **23** and with holes **24** and **25** spaced above and below the slot, respectively.

A link chain **26** for holding the door **10** in partly closed condition is attached to the striking plate **14** by inserting the end links *a* and *b* of the chain through the slot **23** in the chain supporting extension **22** and looping said links around a bar **27** positioned on the rear of the extension **22** in the clearance **22'**. The bar extends across the slot **23** and is formed with right-angled bent flaring ends **27a** which fit into the holes **24** and **25** of the base portion **15**. The chain **26** is thus supported in loose suspended condition by the extension **22** and the looped chain may be swung over the door knob **13** whereby the door **10** may be opened sufficiently to view a person standing on the outside but not sufficient to permit such person to come inside the door.

Figs. 8 and 9 illustrate modified means for attaching the end links *a'* and *b'* of the chain **26** to the chain supporting extension **22** of the striking plate **14**. In this form of the invention, a substantially U-shaped pin **27'** has its flaring ends **27b** extended through openings in a disc-shaped plate **28** secured in an opening **29** formed in the chain supporting portion **22** of the striking plate. The chain hangs loosely from the U-shaped pin **27'** and may be readily swung over the knob **13** of the door for holding the door closed.

In all other respects, the form of the invention shown in Figs. 8 and 9 is similar to the form shown in Figs. 1 to 7, inclusive.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent, is:

1. A lock-striking plate comprising a striker having a chain mounting extension member, said member being bent at right angles thereto, said chain mounting member being provided with a slot, a looped chain, the free end chain links of said looped chain being fitted into the slot in said chain mounting member, means for hanging said looped chain from said mounting member, said hanging means including a pin riveted to said chain mounting extension member.

2. A lock striking plate comprising a striker having a

chain mounting extension member, said member being bent at right angles thereto, said chain mounting member being provided with a slot, a looped chain, the free end chain links of said looped chain being fitted into the slot in said chain mounting member, means for hanging said looped chain from said mounting member, said hanging means including a pin riveted to said chain mounting extension member, each free end of said pin being bent at right angles thereto, said chain mounting extension member also having a pair of holes, said pin ends being snugly fitted into said holes and riveted over to secure said pin permanently to the chain mounting extension member.

3. A lock-striking plate comprising a striker having a chain mounting extension plate member, said member being bent at right angles thereto, said chain mounting member being provided with a countersunk opening, a beveled disc-shaped plate fitted in said opening, a looped chain, means for hanging said chain from said beveled disc-shaped plate, said means including a U-shaped pin secured to said disc-shaped plate and adapted to receive loosely the end links of a chain to provide means for hanging the chain from the chain mounting member.

4. A lock-striking plate comprising a striker having a chain mounting extension plate member, said member being bent at right angles thereto, said chain mounting member being provided with a countersunk opening, a beveled disc-shaped plate fitted in said opening, a looped chain, means for hanging said chain from said beveled disc-shaped plate, said means including a U-shaped pin secured to said beveled disc-shaped plate and adapted to receive loosely the end links of a chain to permit said chain to hang freely therefrom, said beveled disc-shaped plate having a pair of holes, said U-shaped pin having angled ends fitted in and secured to said holes.

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