July 31, 1923.

1,463,384

S. D. BUTTERWORTH

STRIKER PLATE

Filed Feb. 20, 1922

Fig. 1

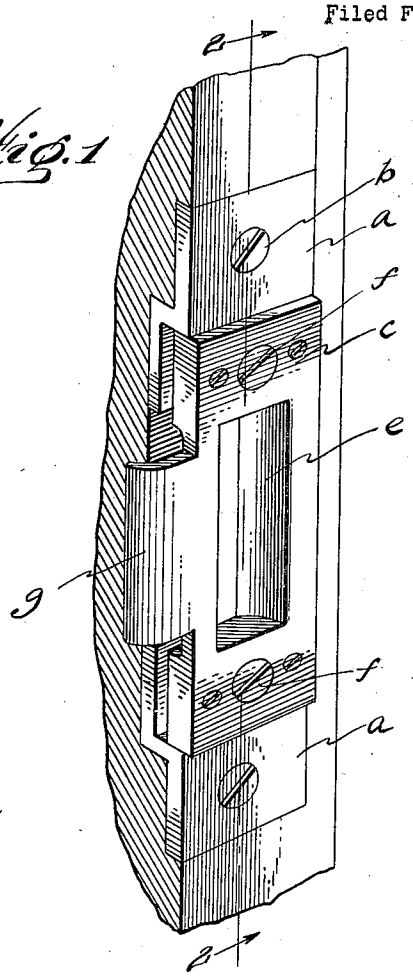
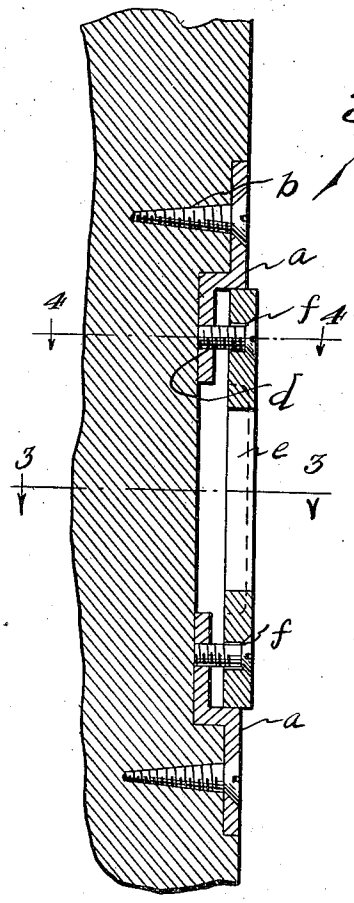


Fig. 2



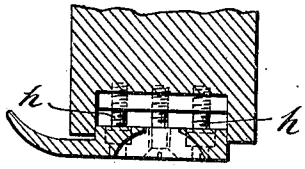


Fig. 3

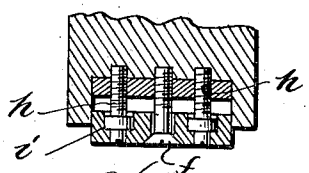


Fig. 4

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UNITED STATES PATENT OFFICE.

SAMUEL D. BUTTERWORTH, OF LANSING, MICHIGAN.

STRIKER PLATE.

Application filed February 20, 1922. Serial No. 537,787.

To all whom it may concern:

Be it known that I, SAMUEL D. BUTTERWORTH, a citizen of the United States, residing at Lansing, in the county of Ingham and State of Michigan, have invented certain new and useful Improvements in Striker Plates, of which the following is a specification.

This invention relates to lock strikers. It is the object of the invention to provide an adjustable lock striker which may be easily adjusted to compensate for a change of position of the door due to shrinkage or other defects. The striker is also useful in aiding the carpenter in setting the striker socket into proper position with respect to the head of the latch bolt. It is a well known fact that the strikers of doors are very troublesome in ordinary house construction. A great many of the doors do not close at all and others jar open on the least provocation. This is largely due to defects in the setting of the strikers or due to shrinkage of the door and often due to change of position of the door and the hinge.

It is the aim of the present invention to provide a striker which can be made at a minimum cost and which can be easily adjusted by anyone with the aid of a screwdriver.

In the drawings,—

Fig. 1 is a perspective of the striker attached to the door post.

Fig. 2 is a vertical section of the same on the line 2—2 of Fig. 1.

Fig. 3 is a cross section on the line 3—3 of Fig. 2.

Fig. 4 is a section on the line 4—4 of Fig. 2.

A mortise is cut in the door post and at the top and bottom of this mortise are placed a pair of metal Z bar seats *a*, *a*. One bar of the Z is countersunk into the post and secured thereto by a wood screw *b*. The other bar of the Z forms a seat for the keeper plate *c*. Each seat is bored and tapped for three screw holes. The two outside screw holes take the spacing screws *h* which have shouldered heads arranged to engage the counterbored holes *i* bored in the back of the keeper plate *c*. The center screw hole takes the clamping screw *f* which has a head engaging a countersunk portion so as to bear against the outside of the keeper plate. The reduced slotted heads of the spacing screws protrude through the keeper plate and their outside faces are flush with the keeper plate face.

Obviously by loosening the clamping screw *f* either spacing screw may be turned in or out. When the correct spacing has been secured the clamping screw may be tightened and the adjustment of the striker keeper plate thus maintained.

If the lock striker is away off in position either end may be separately adjusted or positioned by taking off the Z bar seat and either cutting the mortise deeper or putting in a shim, such as a piece of cardboard or the like.

What I claim is:

1. A striker plate, having in combination, a pair of seats, a keeper plate bridging the gap between the seats, and adjustable means on the outside thereof in connection with each seat for advancing the socket portion more or less away from the seats.

2. A striker plate, having in combination, a pair of seats, a keeper plate engaging the seats, shouldered spacing screws screwed into the seats said shoulders engaging the back of the keeper plate, and clamping screws engaging the face of the keeper plate.

3. A striker plate, having in combination, a pair of Z bar seats, means for securing the same to the door post, a keeper plate, shouldered spacing screws screwed into the seats said shoulders engaging the back of the keeper plate, and clamping screws engaging the outside of the keeper plate and screwing into the Z bar seats.

4. A striker plate, having in combination, a pair of Z bar seats countersunk into the door post, a keeper plate placed between the backs of the Z bars, and means for advancing the keeper plate more or less with respect to the Z bar seats, without disassembling the same.

5. A striker plate, having in combination, a pair of Z bar seats, a keeper plate arranged to be supported adjacent said seats, spacing screws screwing into said seats and having slotted shouldered heads, the shoulder engaging the back of the keeper plate and the slotted face exposed in the face of the keeper plate, and clamping screws screwed into the seats and having heads engaging the face of the keeper plate.

6. A striker plate, having in combination, a pair of Z bar seats, a keeper plate arranged to be supported adjacent said seats

having counterbored holes therein spacing screws screwing into said seats and each having an enlarged central portion forming a shoulder and an elongated head with a slotted face said shoulder engaging the face of the counterbore in the keeper plate and the elongated end extending thru said hole having the slotted face exposed in the face of the keeper plate for advancing the keeper plate more or less with respect to the Z bar seats without disassembling the same.

7. In a striker plate, the combination of a pair of seat plates, a keeper plate bridging the gap between the seat plates means adjustable from the outside of said keeper plate for spacing said keeper plate with respect to said seat plates, and clamping means adjustable from the outside of said keeper plate for clamping said keeper plate to said seat plates.

8. A striker plate, having in combination a pair of seats, a keeper plate engaging the seats, and bridging the gap between the seats, spacing screws screwed into the seats, provided with adjustable means on the outside thereof for advancing the keeper plate more or less toward the seat portion, and clamping screws adjustable from the outside of said keeper plate for clamping said keeper plate to said seat plates.

9. A striker plate, having in combination a pair of Z bar seats, means for securing the same to the door post, a keeper-plate, spacing screws screwed into the seats, adjustable from the outside of said keeper plate, engaging the back of the keeper plate and clamping screws engaging the outside of the keeper plate and screwing into the Z bar seats.

10. A striker plate, having in combination, a seating portion, a keeper portion, shouldered spacing screws screwed into the seating portion, said shoulders engaging the back of the keeper portion, and clamping screws engaging the face of the keeper portion.

In testimony whereof I affix my signature.

SAMUEL D. BUTTERWORTH.