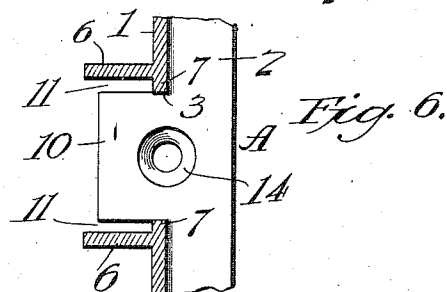
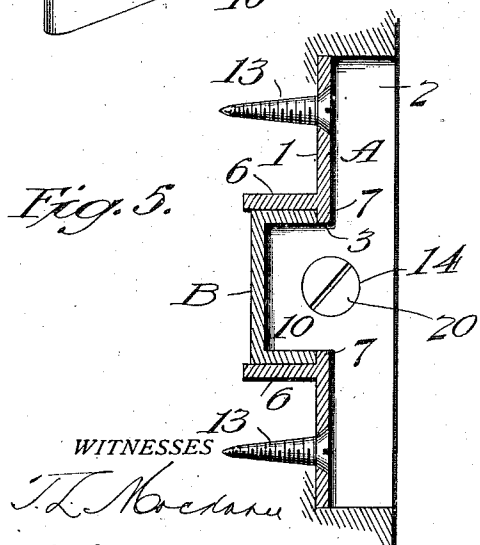
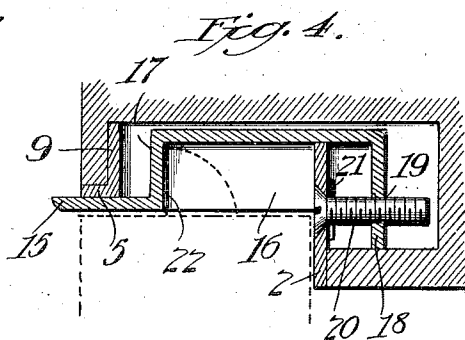
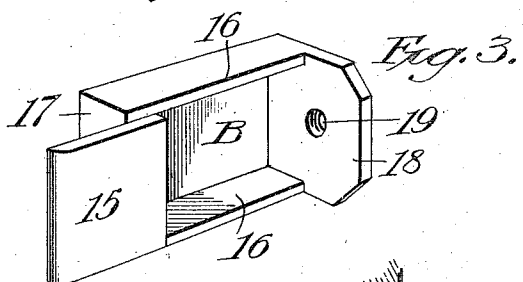
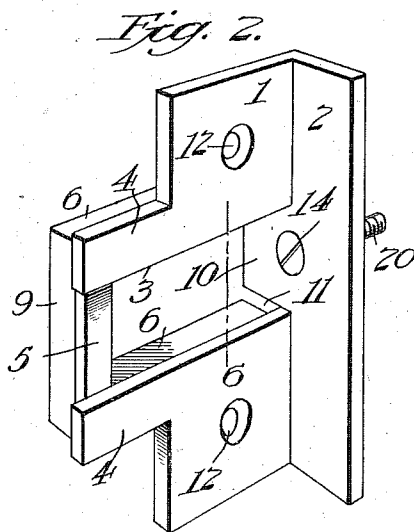
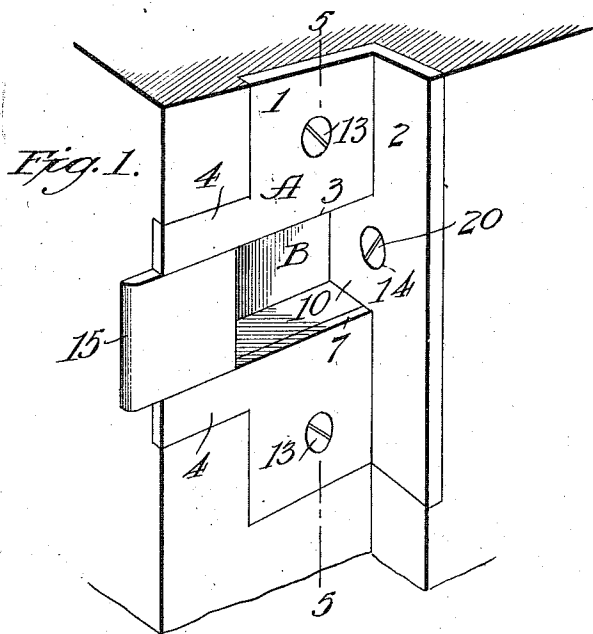


G. F. WITMAN.
 ADJUSTABLE STRIKE PLATE AND DOOR ANTIRATTLER.
 APPLICATION FILED FEB. 28, 1911.

1,005,914.

Patented Oct. 17, 1911.



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ADJUSTABLE STRIKE-PLATE AND DOOR-ANTIRATTLER.

1,005,914.

Specification of Letters Patent.

Patented Oct. 17, 1911.

Application filed February 28, 1911. Serial No. 611,490.

To all whom it may concern:

Be it known that I, GEORGE FRANK WITMAN, a citizen of the United States, residing at York, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Strike-Plates and Door-Antirattlers, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a strike plate for door locks and has for its principal object to provide an adjustable strike plate so that doors can be closed tightly against the rabbets of the door frame to compensate for shrinkage or warping of the door and to guard against the usual rattling of loose doors and prevent the entrance of cold air.

Another object of the invention is the provision of a strike plate having an adjustable section of novel construction and arrangement, together with an adjusting means that is concealed from view by being set into a mortise in the door frame, the adjusting means, however, being accessible at all times by means of an ordinary screw driver so that any unskilled person can set the adjustable section of the strike plate to the desired position for effecting the proper closing of the door.

With these and other objects in view, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawings, which illustrate one embodiment of the invention, Figure 1 is a perspective view of the adjustable strike plate shown in position on the door frame. Fig. 2 is a perspective view of the strike plate before being applied to a door frame and with the adjustable section removed. Fig. 3 is a perspective view of the adjustable section of the strike plate detached. Fig. 4 is a horizontal section of the strike plate taken in the plane of the adjusting means and showing the door and lock by dotted lines. Fig. 5 is a sectional view on line 5-5, Fig. 1. Fig. 6 is a sectional view on line 6-6, Fig. 2.

Similar reference characters are employed to designate corresponding parts throughout the views.

Referring to the drawings, A designates

the fixed section of the strike plate, and B, the adjustable section thereof, the adjustable section being supported on the fixed section and both being set into a suitably shaped mortise in the door frame.

The fixed section comprises a face plate 1 from the rear vertical edge of which extends a right angular rabbet plate that is set into the rabbet of the door frame, as shown in Fig. 1, and the face plate has a central rectangular opening 3 into which the bolt of the door lock is adapted to enter. Extending forwardly from the face plate 1 are guide lugs or extensions 4 that are connected together by a seat bar 5. The face plate is formed with horizontal flanges 6 that extend laterally at right angles thereto and are spaced above and below the top and bottom edges of the bolt-receiving opening 3 so that guide or retaining flanges 7, as shown in Figs. 5 and 6, are provided at the top and bottom of the said opening to assist in holding the adjustable section of the device in place. Formed integral with the seat bar is a wall 9 which, together with the walls 6, forms a box in which the adjustable section B slides. The rear wall of the said box or chamber is formed by a rectangular lug 10 on the rabbet plate 2 and this lug has its upper and lower ends spaced from the walls 6 so as to provide recesses 11 to accommodate portions of the adjustable section B of the strike plate. The face plate 1 has countersunk openings 12 for receiving screws 13 for fastening the device on the door frame, and in the rabbet plate is a countersunk opening 14 for receiving the adjusting device for the section B.

The adjustable section B of the device is constructed as shown in Fig. 3, and consists of a tongue or plate-like strike portion 15 that slidably fits between the guide lugs 4 of the plate 1, and said strike portion 15 bears against the seat bar 5. The body portion of the adjustable section is in the form of a box of such size as to fit between the walls 6 of the chamber of the fixed section of the device. The top and bottom walls 16 of the body of the section B slide between the walls 6 and engage the flanges 7 of the strike plate 1, and the front wall 17 of the said box-like body forms a support for the strike portion 15 that is integrally connected with such wall. The top and bottom walls or flanges 16 of the section B slide in the recesses 11 of the fixed section and the rear

wall 18 of the adjustable section extends behind the rabbet plate and lug 10 thereof, and this wall 18 has a threaded opening 19 disposed in line with the countersunk opening 14. The adjusting means is a screw 20, which, as shown in Fig. 4, has its head set to the countersunk opening 14, while its threaded shank screws into the opening 19, and passing through the screw just behind the rabbet plate 2 is a cotter pin 21 or equivalent device which coöperates with the head to form a swivel connection between the screw and fixed section A of the strike plate. Hence, by turning the screw by means of a screw driver, the adjustable section is moved horizontally inwardly or outwardly so that the shoulder 22 formed by the front end of the box-like body of the section or keeper B would be in the proper position to engage the bolt of the lock when the door bears snugly against the rabbet of the door frame. The door frame is mortised so as to accommodate the adjusting screw and the body portion of the adjustable section of the strike plate.

The design of the various parts is such that the strike plate is of neat and attractive appearance and the adjusting means is wholly concealed from view with the exception of the head of the screw thereof. Furthermore, the adjustment of the keeper section can be effected with ease and no special skill is required.

From the foregoing description, taken in connection with the accompanying drawings, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention, what I claim as new, is:—

1. The combination of a door frame having a mortise, with a strike plate consisting of a fixed section set into the mortise, an adjustable section having a body portion set into the mortise and provided with a strike portion projecting forwardly from the front edge of the fixed section, and an adjusting screw disposed parallel with the said strike portion and having a swiveled connection with one section and a threaded connection with the other section and disposed in the mortise.

2. The combination of a door frame having a mortise, with a strike plate consisting of a fixed section having guiding means set into the mortise, an adjustable keeper sec-

tion having a box-like body slidable in the said means and set into the mortise and provided with a forwardly-extending plate-like strike portion, said body extending rearwardly behind the rear portion of the fixed section, and an adjusting screw for the keeper section, said screw being located behind the opening of the fixed section and having its front end swiveled in the rear portion of the fixed section and its rear end threaded in the rear portion of the keeper section and concealed in the mortise.

3. An adjustable strike plate and door anti-rattler comprising a fixed section having an opening in its face, an adjustable keeper section having a box-like body disposed at the opening and provided with a plate-like strike portion extending forwardly from the front of the opening, and a device connected with the rear portions of the said body and the fixed section for adjusting the keeper section parallel with the said face, said device being located wholly behind the opening in the fixed section.

4. An adjustable strike plate and door anti-rattler comprising a fixed section formed of a face plate having a lock bolt opening and of a lateral rabbet plate at the rear edge of the face plate, an adjustable keeper section slidably mounted on the fixed section and provided with a plate-like strike portion projecting forwardly from the front of the opening and having a rear portion disposed to the rear of the rabbet plate, and a keeper section adjusting screw having its head swiveled in the rabbet plate and its threaded shank screwed in the rear portion of the keeper section.

5. An adjustable strike plate and door anti-rattler comprising a fixed section formed of right angular face and rabbet plates, said face plate having a lock bolt opening, walls around the opening forming a chamber; a keeper section having a box-like body slidable in the chamber and provided with a strike portion at the front end of the body; and a screw swiveled in the rabbet plate and extending rearwardly therefrom and threaded in the rear wall of the said body of the keeper section.

6. An adjustable strike plate and door anti-rattler comprising a fixed section formed of angularly disposed face and rabbet plates, said face plate having a lock bolt opening, lugs extending forwardly from the front edge of the face plate at the top and bottom of the opening, a seat bar extending from one lug to the other and disposed to one side of the plane thereof, and guides at one side of the face plate above and below the opening; a keeper section having a body slidable on the guides and provided with a plate-like strike portion slidably bearing on the seat bar and disposed between and flush with the said lugs; and means for ad-

justing the keeper section on the fixed section.

7. An adjustable strike plate and door anti-rattler comprising a fixed section 5 formed of angularly disposed face and rabbet plates, said face plate having a lock bolt opening, lugs extending forwardly from the front edge of the face plate at the top and bottom of the opening, a seat bar 10 extending from one lug to the other and disposed to one side of the plane thereof, and guides at one side of the face plate above and below the opening; a keeper section having a body slidable on the guides 15 and provided with a plate-like strike portion slidably bearing on the seat bar and disposed between and flush with the said lugs; and a screw swiveled in the rabbet plate and threaded in the rear portion of the 20 body of the keeper section for adjusting the position of the latter.

8. An adjustable strike plate and door anti-rattler comprising a fixed section 25 formed of angularly disposed face and rabbet plates, said face plate having a lock bolt opening, lugs extending forwardly from the front edge of the face plate at the top and bottom of the opening, a seat bar 30 extending from one lug to the other and disposed to one side of the plane thereof, and guides at one side of the face plate above and below the opening; a keeper section having a box-like body slidable between the said guides with its rear wall behind the 35 rabbet plate and provided with a strike portion extending forwardly from the front wall of the body and disposed between and

flush with the said lugs and slidably bearing on the seat bar; and a screw having its head swiveled in the rabbet plate and its shank threaded in the rear wall of the body 40 of the keeper section for adjusting the position of the latter.

9. An adjustable strike plate and door anti-rattler comprising a face plate having 45 an opening and formed with lugs extending forwardly from the top and bottom of the opening, a seat bar extending from one lug to the other, parallel walls at the under side of the face plate set above and below the 50 top and bottom edges of the opening respectively, a front wall on the said bar, and a rabbet plate having a portion forming a rear wall that has its end spaced from the said parallel walls to provide recesses; a 55 keeper section formed with a box-like body having its top and bottom walls slidable on the said parallel walls of the fixed section and passing through the said recesses, the rear wall of the said body being disposed 60 behind the rabbet plate, and a plate-like strike portion projecting from the front wall of the body and bearing on the said seat bar and disposed flush with and between the said lugs; and an adjusting screw 65 swiveled in the rabbet plate and threaded in the rear wall of the body of the keeper section to adjust the position thereof.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE FRANK WITMAN.

Witnesses:

HATTIE M. WITMAN,
W. HENRY KOCH.