C. W. ERFFMEYER.

DOOR LOCK PLATE.

APPLICATION FILED JAN. 4, 1918.

1,295,458. Patented Feb. 25, 1919.

Fig. 1.

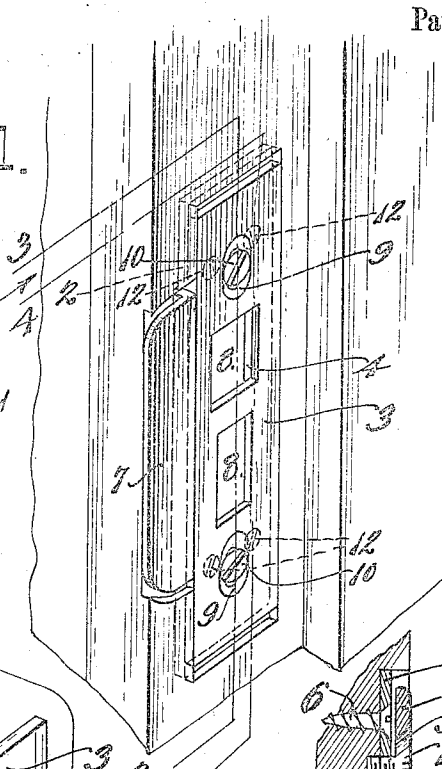


Fig. 2.

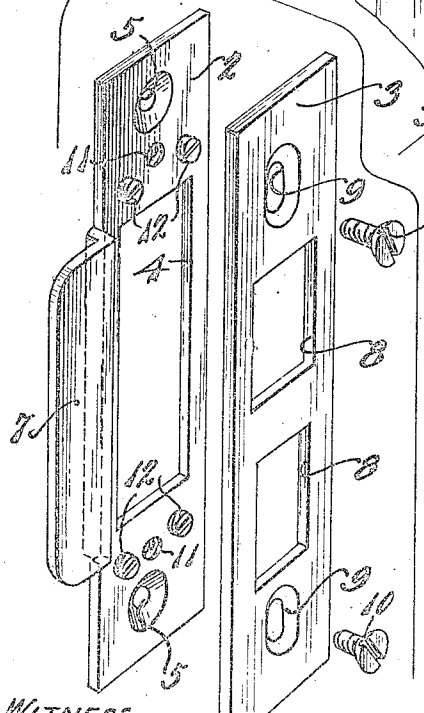


Fig. 3.

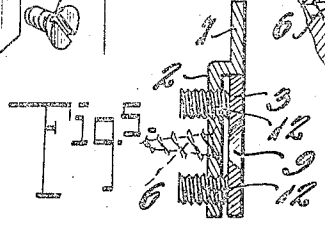
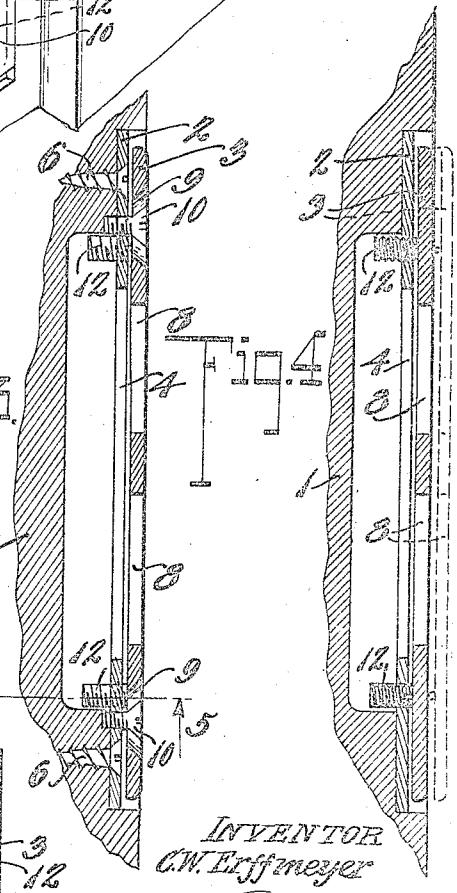


Fig. 4.



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DOOR-LOCK PLATE.

1,295,458. Specification of Letters Patent. Patented Feb. 25, 1919.

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To all whom it may concern:

Be it known that I, CHESTER W. ERFFMEYER, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Door-Lock Plates, of which the following is a specification.

The present invention has to do with improvements in strike plates and is characterized as to novelty by the provision for ready adjustment of said plate to accommodate for sagging and shrinkage of doors so that the latch and bolt elements thereof will properly engage with the plates.

I am aware that it has been proposed heretofore to provide devices of the above nature which take care of sagging condition of doors through the instrumentality of a vertically adjustable latch engaging plate, but my object has been to combine with such an arrangement means for adjusting said plate in directions toward or from the door casing so as to maintain the proper coöperation of the latch and lock members where the edge of the door by reason of ill fitting or shrinkage of the wood lies too remote for the said parts to interlock with the strike plate when flush with the face of the casing under normal conditions.

To this end the invention consists in the construction, combination and arrangement of parts all as hereinafter more fully described, claimed and illustrated in the accompanying drawing, wherein:

Figure 1 is a perspective view showing a portion of a door casing having my invention applied thereto;

Fig. 2 is a perspective view showing the parts of the device;

Fig. 3 is a sectional view on the plane indicated by the line 3—3 of Fig. 1;

Fig. 4 is a similar view on the line 4—4 of Fig. 1 showing more clearly the lateral adjusting means for the adjustable plate; and

Fig. 5 is a transverse sectional view on the line 5—5 of Fig. 3.

Referring to the drawing, 1 designates the door casing which is suitably recessed to receive the strike plate which in this instance consists of the relatively stationary plate 2 and the adjustable plate 3. The first mentioned plate is provided centrally thereof with a large rectangular opening 4 and adjacent to its ends with screw receiving apertures 5 by means of which the plate is fastened to the door casing as by means of the screws 6. This stationary plate includes the strike 7 which is bent at an angle adjacent to its connection with the plate 2 for the purpose of guiding the door latch upon the adjustable plate 3 in its adjusted positions. The said plate 3 is slightly shorter than the stationary plate, is provided with the bolt and latch openings 8 and elongated slot openings 9, the latter to receive attaching screws 10 which extend through the openings 9 into threaded openings 11 of the plate 2. By reason of the formation of the slots 9 it will be obvious that this plate 3 may be adjusted in a vertical plane so as to bring the openings 8 in proper position to receive the lock bolt and latch members whenever the door sags and these members get out of alinement with the openings 8. In addition to this vertical adjustment, the plate 3 has lateral adjustment with respect to the door casing or adjustment toward and from the stationary plate 2. To obtain said adjustment I provide a series of threaded studs 12, two at each end of the stationary plate. The heads of these screws under normal condition lie flush with the stationary plate 2, under which condition the plate 3 is in contact with the stationary plate but where the edge of the door, from shrinkage of the wood or from improper fitting, is so far spaced from the face of the door case that the lock bolts and latch will not properly engage the lock plate, the coöperation of the parts is obtained by adjusting the plate 3 outwardly from its stationary member. To accomplish this the screws 12 are unscrewed from the plate 2 so as to project from its face and the adjusting plate 3, previously displaced to accomplish this adjustment, is again positioned by the screws 10 against the heads of the screws 12.

When desired the screws 12 may be adjusted variably so as to give the plates 3 an inclination. From the foregoing it will be obvious that a dual adjustment of the device is provided for which will take care of the abnormal conditions to which doors are subjected by reason of sagging and shrinkage.

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

1. A strike plate comprising a relatively stationary member and an adjustable plate,

adjustable spacing means arranged between the two plates, and movable inwardly or outwardly to project more or less into the space between the said plates, and means for securing one of the plates to the other and adjustable to accommodate the adjustment of the spacing means.

2. A strike plate comprising a relatively stationary member and an adjustable plate, means mounted on one of said plates to project therefrom intermediate the two to regulate the distance between the two parts, and separate means for connecting the parts together and rigidly holding the adjustable plate against the intermediate means.

3. A strike plate comprising a relatively stationary member and an adjustable plate having openings therein, means extending through the openings and connecting with the stationary member, said adjustable plate being adjustable vertically upon adjustment of the connecting means aforesaid, and adjustable spacing means mounted on the stationary plate and movable inwardly and outwardly thereof between the adjustable plate and the stationary member for regulating the adjustment of one of said parts with respect to the other.

4. A two-part door lock plate comprising a relatively stationary strike plate and an adjustable plate, having slot openings therein, connecting members extending through said openings and connecting the adjustable plate to the stationary plate, and providing for vertical adjustment of said adjustable plate, and a plurality of threaded members mounted in the stationary plate for adjustment to project more or less from the face of said plate and against which the adjustable plate is received.

In testimony whereof I affix my signature.

CHESTER W. ERFFMEYER.