

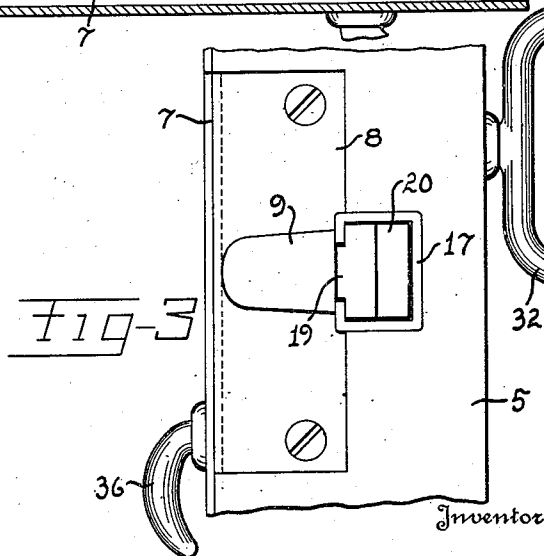
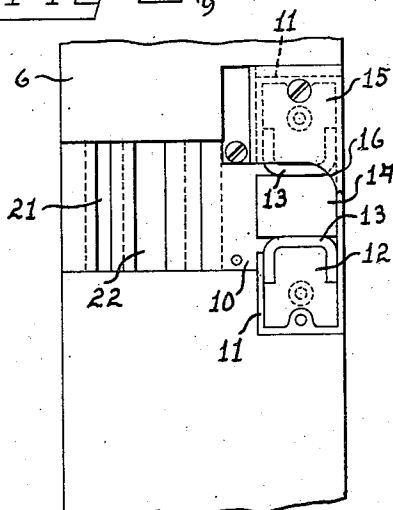
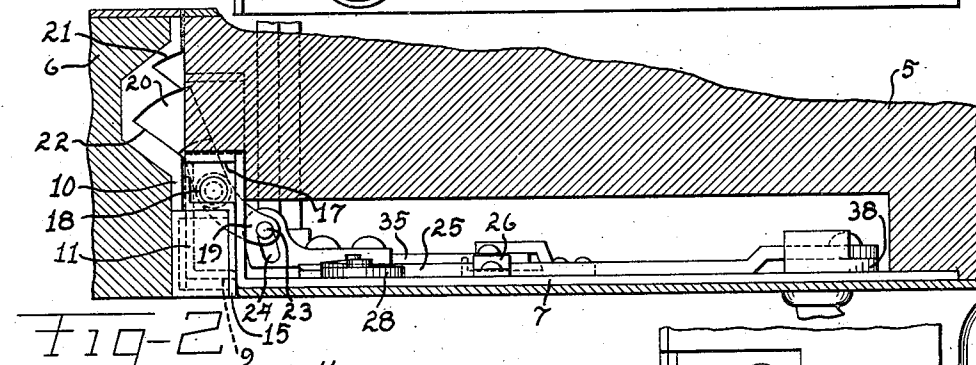
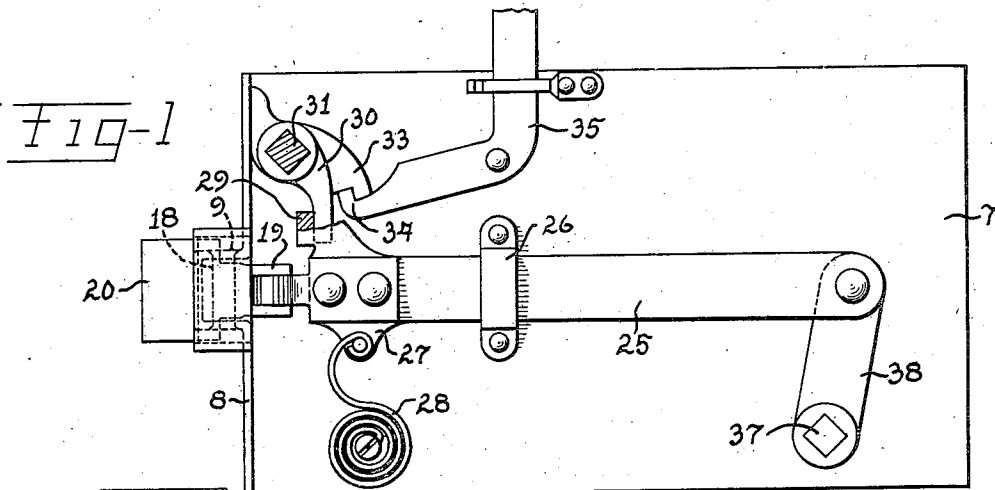
April 29, 1930.

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1,756,313

DOOR FASTENER

Filed Sept. 28, 1927



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DOOR FASTENER

Application filed September 28, 1927. Serial No. 222,509.

This invention relates to a fastener which has been perfected with special reference to its adaptability for use on sedans or other vehicles having closed bodies.

5 The object of the invention is to provide a device of the character described, which is of practical construction, and which may be produced by machinery on a considerable scale at a moderate cost. In its preferred
10 form, the invention includes an improved buffer and cushioning device to prevent rattling, and this is associated with a latch member and dog in a new and improved combination.

15 The specific construction of the invention in its present form, together with its objects and advantages, will be more particularly described in connection with the accompanying drawing illustrating the same.

20 In the drawing:

Figure 1 illustrates the fastener as viewed from the outside of the door, the latter being omitted.

25 Fig. 2 is a view looking from the bottom edge of Fig. 1, showing also the striker plate and adjacent portions of the door and door frame.

Fig. 3 is a fragmentary view of the edge of the door with the fastener mounted therein.

30 Fig. 4 is a view looking at the edge of the door frame, with the striker plate and buffer mounted thereon.

As indicated in the drawing, the invention is especially adapted for use in connection
35 with the door 5 of an automobile body 6. The latch mechanism is mounted within a housing 7 formed of sheet metal with its outer edge portion turned, as at 8, adjacent the edge of the door and having a nose or dovetail 9 formed integral therewith. On the
40 adjacent door jamb there is secured a striker plate 10 formed at its inner end with lateral opposed recesses or pockets 11 in which are mounted buffers 12. These buffers are composed of pliable rubber or similar material
45 and the inner face of each buffer is covered by a metallic shell 13. The striker plate 10 has a raised portion 14, the opposite edges of which form shoulders or abutments adapted
50 to be engaged by the metallic facings 13,

thereby positively limiting the inward movement of the buffers. The stop 14 is so arranged that, as the door closes, the nose 9 will frictionally engage the facings 13 forcing back the ends of the buffers so that the door will be held firmly without rattling. A
55 cover plate 15 is secured over the recesses 11 and cooperates with the stop 14 to retain the buffers within the recesses in proper position to receive the nose or dovetail 9. The middle portion of the cover plate 15 is cut away,
60 as shown at 16, to permit the dovetail to enter between the buffers.

The housing 7 also has an extension 17 behind the dovetail 9 and this extension is traversed by a pivot pin 18 on which a latch member 19 is pivoted. The outer portion of the latch member 19 terminates in a rounded end
65 20 which, as the door closes, is adapted to engage a safety notch 21 formed in the striker plate 10 and when the door is fully closed is adapted to engage a second notch 22 formed in the striker plate. The inner end of the
70 latch member 19 is forked and carries a pivot pin 23 which engages a slot 24 in a slide bar 25 mounted in a keeper 26 which is secured to the inner face of the housing 7. Connected
75 to the slide bar 25 is a depending lug 27 which is connected to the housing by a spring 28 so arranged that it will normally hold the slide bar in retracted position with the end
80 20 of the latch member projected.

An upwardly projecting lug 29 is also secured to the slide bar 25 and is engageable by a finger 30 secured to a door handle shank 31
85 which may be rocked by means of an outside handle 32 to unlatch the door. The finger 30 has also a notched rearward projection or heel 33 engageable by the toe 34
90 formed on the forward end of a dog 35 which is pivotally mounted on the housing 7 and is accessible from the inside of the car. This dog, when set in operative position, makes it impossible to unlatch the door from the
95 inside.

Any suitable means may be provided for operating the dog from the inside of the car. In the present construction the inside operating handle 36 is connected with a spindle 37
100

located beneath the rear end of the slide bar 25 and connected thereto by a lever arm 38.

From the foregoing description it will be seen that I have provided a practical construction, in which the dog and the anti-rattler device are combined in such a manner that they may be economically manufactured and installed as a unit. The assembly is very simple and the various elements are always maintained in their correct relative positions. It is to be understood, however, that many modifications may be made in the construction and arrangement of various details without departing from the scope of the invention as claimed.

What I claim is:

1. In a door fastener, the combination with a housing adapted to be attached to the door, of a latch member intermediately pivoted in said housing, a striker plate engageable by one end of said latch member to hold the door closed, a member slidably mounted in said housing and having a pin and slot connection with the other end of said latch member, a spring acting on the slidable member to retract the same and to hold the latch member normally in engagement with the striker plate, a rockable door handle shank having a projecting lug engageable with the slidable member to advance the same and thereby unlatch the door, said lug having a rearwardly and downwardly projecting heel, and a dog having a toe movable into position to engage said heel and thereby prevent the unlatching of the door by the operation of the handle.

2. In a door fastener, the combination with a housing adapted to be attached to a door, and formed with a nose projecting forwardly at the edge of the door, of a latch member pivoted within the base of the nose and projecting outwardly and rearwardly therefrom, a striker plate having an abutment engageable by the rearwardly projecting end of said latch member to hold the door closed, means for rocking said latch member to release the door, and buffers in advance of said abutment and adapted to receive the end of said nose between them when the door is closed.

3. In a door fastener, the combination with a housing adapted to be attached to a door and formed with a nose projecting forwardly at the edge of the door, of a latch member intermediately pivoted within the base of the nose and projecting outwardly and rearwardly therefrom, a member slidably mounted in said housing and having a pin and slot connection with the front end of said latch member, a striker plate having means engageable by the rearwardly projecting end of said latch member to hold the door closed, a spring acting on the slidable member to hold the latch member normally in engagement with the striker plate, a rockable door handle shank having a projecting lug engageable with the slidable member to advance the

same and thereby unlatch the door, and buffers in advance of the means engageable by the latch member and adapted to receive the end of said nose between them when the door is closed.

In testimony whereof I have hereunto signed my name to this specification.

LEO THOMAS TAFFE.