

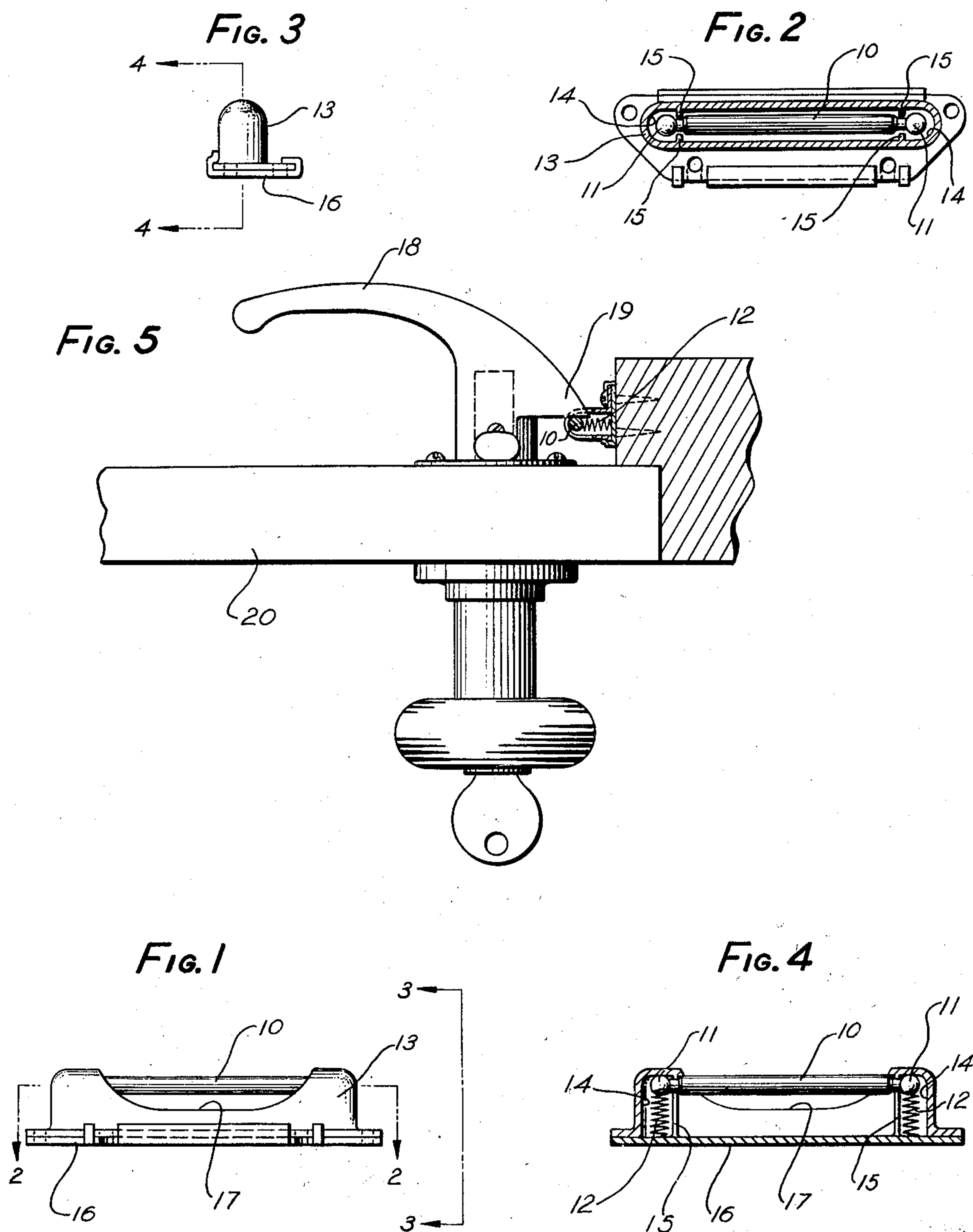
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STRIKE PLATE

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STRIKE PLATE

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1 Claim. (Cl. 292—341.15)

Our invention relates to an improvement in strike plates designed for use in connection with a hook latch, on a door or similar construction. It is the object of our invention to provide such a strike plate especially situated to be adapted for use on outside screen doors and storm doors which are in common use today. The use of our strike plate in conjunction with a hook type latch will provide for a simple and economical door lock installation. Further objects and advantages will appear in the drawings and specifications herein.

Fig. 1 of the drawings is a side plan view of our strike plate;

Fig. 2 is a cross section along the line 2—2 in Figure 1 showing the strike bar in position;

Fig. 3 is an end plan view of our device;

Fig. 4 is a cross section along the line 4—4 of Figure 3 showing the strike bar in position; and

Fig. 5 is a top plan view of a hook-type door latch on a door showing the door frame in cross section with our strike plate in position thereon.

Similar numerals refer to similar parts throughout the several views.

Our strike plate comprises a strike bar or rod 10 which has rounded ends 11 each of which is adapted to be seated in an end of a helical spring. The strike bar 10 is fitted into a strike bar case 13 of the general shape of the strike bar 10 and each end of the strike bar case 13 has a compartment 14 which is formed by partial separating walls 15.

Thus, the rounded ends 11 of the strike bar 10 will be inserted into the strike bar case 13 so that they will fit into the end compartments 14. The separating walls 15 also serve as guides for the strike bar 10. The helical springs 12 are then inserted in the end compartments 14 and a bottom or back plate 16 is slidably engaged and attached to the strike bar case 13 to retain the helical springs 12 in place and force the strike bar 10 to the end of the strike bar case 13 opposite to the back plate 16.

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While we prefer to slide the back plate 16 onto the strike bar case 13, it may be fastened by any suitable means such as riveting, pinching, soldering, etc. The strike bar case 13 has a cut-away portion 17 to permit operation of the strike bar 10.

We prefer to use our strike plate in conjunction with a hook latch door handle 18. As the door closes, the hook 19 strikes the strike bar 10 and forces it inwardly into the strike bar case 13 as the hook 19 passes the strike bar 10. After the hook 19 clears the strike bar 10, the helical springs 12 force the strike bar 10 back to its outer position and the strike bar 10 then engages the hook 19 and holds the door 20 in locked position.

In order to disengage the latch, the hook type door handle 18 is rotated until the hook 19 clears the strike bar 10 and the door 20 is pushed open.

While we have described the use of our strike bar with a rotating type hook bar handle 18, it may be used with any type of latch which may be designed to engage the strike bar and then be either rotated or slid, or in any other manner moved, away from the strike bar 10 to disengage the latch.

The entire device is made out of metal or strong plastic or equivalent material or combinations of the same.

While we have described herein a preferred form of our invention, it may be possible to construct the same in alternative forms within the scope of the claims following and we desire to be protected for all forms within the claim following.

Wherefore, we claim:

A strike plate comprising a strike rod having a substantially circular cross section with rounded end portions, and a frame having compartments at each end within which the rounded ends of the strike rod are positioned, said compartments being partially separated from the center portion of the frame by guides adapted to guide the rounded end portions of the strike rod and a helical spring in each of said end compartments bearing against the rounded end of the strike rod within the said end compartment and a portion of the end of the frame.

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