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A. B. ELLERY

STRIKER PLATE FOR DOORS

Filed June 16, 1923

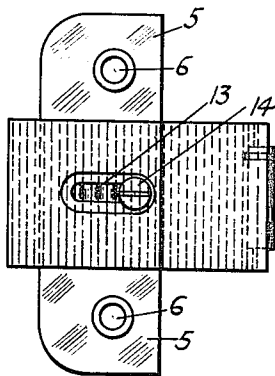


Fig-1

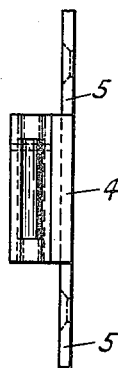


Fig-2.

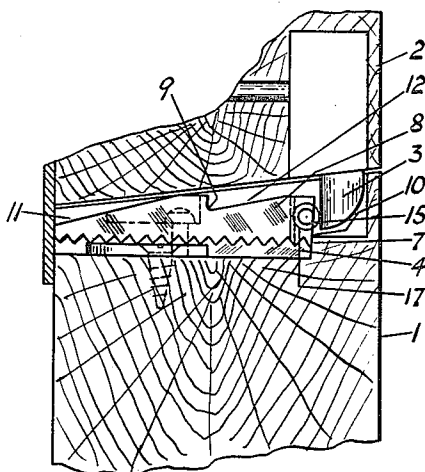


Fig-3.

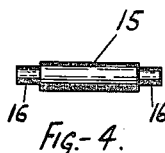


Fig-4.

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STRIKER PLATE FOR DOORS.

Application filed June 16, 1923. Serial No. 645,774.

To all whom it may concern:

Be it known that I, ARTHUR B. ELLERY, a citizen of the United States, and a resident of Akron, county of Summit, State of Ohio, have invented certain new and useful Improvements in Striker Plates for Doors, of which the following is a specification.

This invention relates to striker plates or keepers for doors, and while it is suitable for use on all types of doors, it is particularly intended for automobile doors, the object of the invention being to provide an adjustable keeper for the door, so as to enable it to be regulated in case the door becomes loose in service, and further to provide a roller bearing or rest for the door latch so as to prevent squeaking or rattling.

These and other objects will be apparent from the description of the invention and the drawings, it being understood that changes and modifications may be made within the scope of the invention and the claims.

In the drawings:

Figure 1 is a face view of the striker plate or keeper removed from the door;

Figure 2 is an end view;

Figure 3 is a section through a door in closed position; and

Figure 4 is a detail of the roller bearing for the door latch.

In the drawings, 1 represents the frame of an automobile or other vehicle or building to which the invention is applied, and 2 is a fragment of the door in which the spring latch is indicated at 3.

The striker plate or keeper is formed from a base plate 4 which is in general T-shape, its lateral extensions 5 being provided with apertures 6 by which the keeper is secured on the framework. The outer face of the main arm of the plate is provided with a plurality of corrugations or saw teeth 7 over which is received the adjustable striker or catch plate 8, the undersurface of which is provided with teeth to mate with the teeth 7, and the outer surface of which is formed with two abrupt faces 9 and 10, the former being about midway of the plate and providing a safety catch. Inclined surfaces 11 and 12 lead to the faces 9 and 10 in the usual manner.

The catch plate is arranged to be fastened in any adjusted position on the base plate by means of a slot 13 in the catch

plate through which passes into the base plate a screw 14 to retain the catch plate in adjusted position.

The rearmost surface on the catch plate is provided with a roller 15 set in the face 10, but projecting outwardly slightly from the surface so that the latch 3 rides therein when the door is fully closed. The roller 15 may be provided with reduced bearings 16 by which it may be secured in position by means of partial rings 17, if desired, although any suitable means for securing the roller in position may be devised.

The device as shown and described is extremely simple and easy to manufacture and adjust to take up wear or looseness in the door. The roller 15 prevents squeaking of the door, an object which may be furthered, if desired, by making the roller from a hard fibrous or non-metallic substance.

What is claimed is:

1. A bolt keeper for doors, comprising a base plate with means by which it may be attached to the door frame, a plurality of corrugations on the outer surface of the base plate, a catch plate, a plurality of mating corrugations in the underside of the catch plate, safety catch and closed catch surfaces on the catch plate, means to secure the catch plate in position on the base plate, and a roller mounted in the closed catch surface and adapted to form a bearing surface for the door latch.

2. A bolt keeper for doors, comprising a base plate having means by which it may be attached to the door frame, a plurality of corrugations on the outer surface of the base plate, a catch plate, a plurality of mating corrugations on the underside of the catch plate, safety catch and closed catch surfaces on the catch plate, the catch plate being provided with a slot and the base plate with a screw whereby the one may be secured in adjusted position with respect to the other, and a roller set within the closed catch surface but projecting slightly above it affording a bearing for the door latch.

3. A bolt keeper for doors, comprising a catch plate having an inclined surface, a catch surface at the upper end of the inclined surface, and a roller situated in the catch surface and projecting outwardly therefrom to provide a bearing for the door latch.

4. A bolt keeper for doors, comprising a

catch plate having two substantially parallel inclined surfaces leading to a safety catch and a closed catch, and a roller projecting within the closed catch and adapted to provide a bearing for the door latch. 5 to provide a bearing for the door latch. 10

5. A bolt keeper for doors, comprising a catch plate having two substantially par-

allel inclined surfaces leading to a safety catch and a closed catch, a roller projecting within the closed catch and adapted to provide a bearing for the door latch, and means to adjust the catch plate longitudinally.

ARTHUR B. ELLERY.