

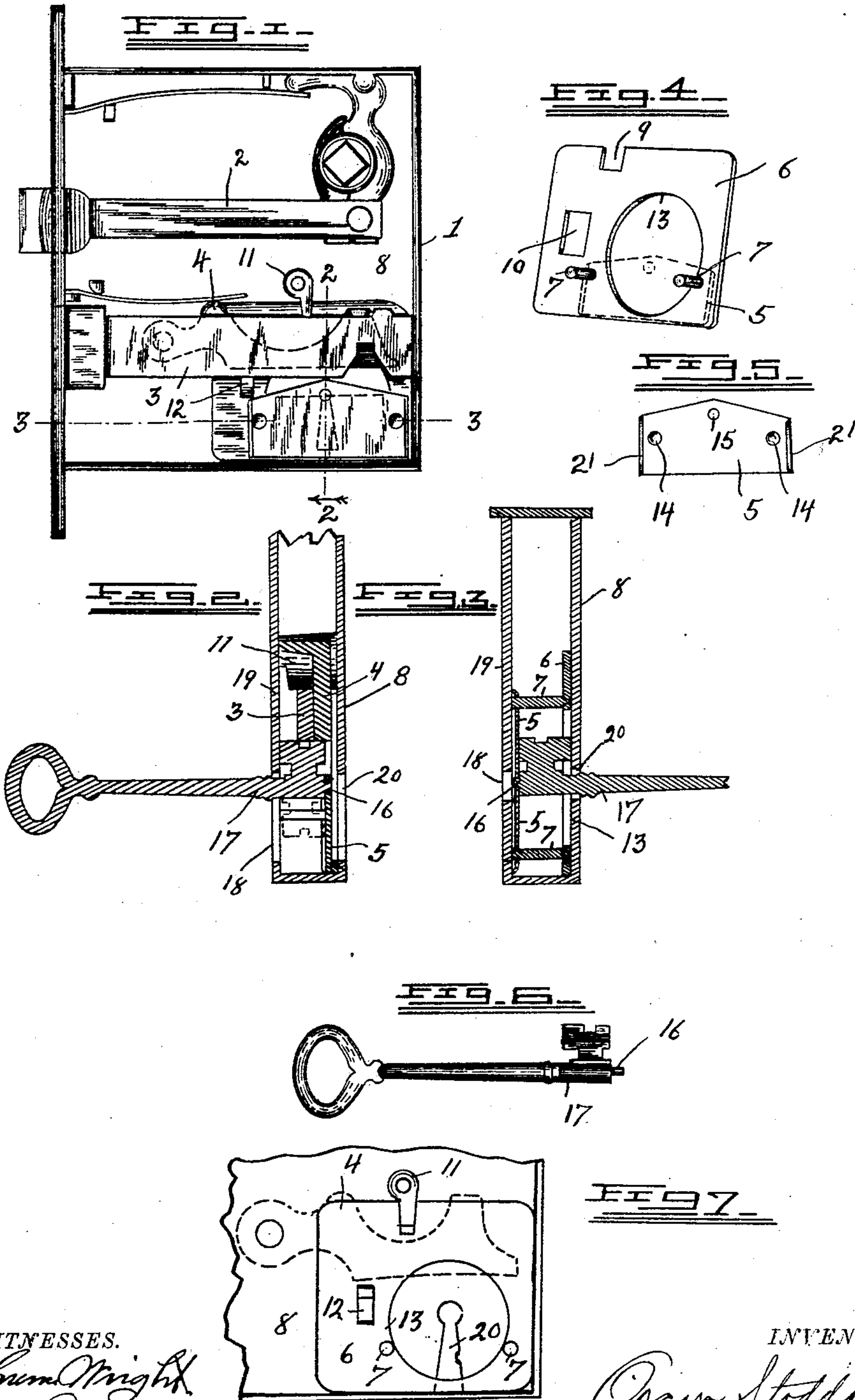
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O. STODDARD.
LOCK.

(Application filed July 28, 1902.)

(No Model.)



WITNESSES.
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LOCK.

SPECIFICATION forming part of Letters Patent No. 713,359, dated November 11, 1902.

Application filed July 28, 1902. Serial No. 117,279. (No model.)

To all whom it may concern:

Be it known that I, OSCAR STODDARD, a citizen of the United States, residing at Detroit, in the county of Wayne, State of Michigan,
5 have invented certain new and useful Improvements in Door-Locks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable
10 to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to door-locks; and it
15 consists in the construction and arrangement of parts hereinafter fully set forth, and pointed out particularly in the claims.

The object of the invention is to provide an attachment for door-locks by means of which
20 a guard-plate will be made to cover and close the keyhole-opening in the lock-plate opposite to that from which the key is inserted, whereby the picking of the lock is obviated when the door is locked and the key is left
25 therein, the arrangement being such as to enable the guard-plate to be placed in all locks of ordinary construction without changing their parts.

The above object is attained by the association of operative parts illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of the interior of an ordinary door-lock having my improved feature attached thereto. Fig. 2 is a vertical
35 sectional view through a portion of the lock, as on line 2 2, Fig. 1, the key being inserted in the lock and having the wing thereof turned to a vertical position. Fig. 3 is a horizontal section through the lock, as on line 3 3
40 of Fig. 1, showing the relative position of the parts with the key inserted therein and its wing turned to a horizontal position. Fig. 4 is a perspective view of the plate located within the lock, having the pins upon which
45 the guard-plate is adapted to slide, said guard-plate being illustrated by dotted lines. Fig. 5 is an elevation of said guard-plate. Fig. 6 is an elevation of the key. Fig. 7 is a fragmentary view showing the plate within the
50 lock upon which the guard-plate is adapted

to be mounted and the manner in which said plate is secured in position.

Referring to the characters of reference, 1 designates the lock-case, in which is the usual latch-bolt 2, lock-bolt 3, and its accompanying tumbler 4, all of which parts may be of
55 the usual or any desired construction.

The guard-plate 5 is adapted to cover the inside of the keyhole-openings in the plates of the lock-case and is moved from side to
60 side as the key is inserted upon opposite sides of the lock. In this transverse movement of said guard-plate it must be supported so as to enable it to slide easily and to maintain it in position. In order to avoid mounting the
65 guide-pins in the plate of the lock-case to carry said guard-plate, I provide a thin plate 6, of sheet-steel, in which are secured guide-pins 7. This plate 6 is adapted to be located within the lock-case and to lie contiguous to
70 the front plate 8 thereof. Within the upper edge of the plate 6 is formed a notch 9, and through said plate is formed an opening 10. When the plate 6 is placed in position in a lock of the character shown, a projection on
75 the boss 11, formed on the plate 8 of the lock-case and threaded to receive the screws which bind the plates of the case together, enters the notch 9, while a post 12, which engages the tumblers and lock-bolt, passes through
80 the opening 10, whereby the plate 6 is securely retained in position.

Formed through the main plate 6 is a circular opening 13, in which the wing of the key is adapted to turn freely when said key is in-
85 serted in the front plate of the lock-case. While the boss 11 and post 12 may not be conveniently present in every style of lock, there is always some projecting stud that the plate 6 may be made to engage with to hold it in
90 position, and in fitting a lock with this improved attachment it is only necessary to stamp the plate 6 in accordance with the particular arrangement of said lock, so that said plate may be made to engage with such posts
95 or studs as project from the plate thereof. By this arrangement no alteration need be made in a lock to enable it to be equipped with my improved keyhole-guard, which may be placed in any lock by simply forming the
100

plate 6 so that it will be retained in its proper position therein.

The guard-plate 5 is mounted upon the posts 7, which pass through the apertures 14 therein. It will be observed that the key when inserted in the lock does not find a bearing in the opposite keyhole-opening upon which to turn. To provide such a bearing, an aperture 15 is formed in the upper edge of the guard-plate, in which the pin 16, projecting from the stem 17 of the key, enters when inserted in the lock from either side, thereby affording a bearing upon which the key may turn. The guard-plate slides transversely of the lock upon the pins 7 when the key is inserted and closes the keyhole-opening in the lock-case opposite to that occupied by the key, as illustrated in Figs. 2 and 3.

When the key is inserted through the front plate 8 of the lock, it engages the guard-plate 5 and moves it across the lock, so as to cover the keyhole-opening 18 in the back plate 19, as shown in Fig. 3. When the key is inserted through the back plate of the lock, the guard-plate 5 is moved across the lock, so as to stand over the keyhole-opening of the plate 8, as shown in Fig. 2, whereby the picking of the lock is prevented when the door is locked and the key is left remaining in the lock.

When the guard-plate is in the position shown in Fig. 2 and by dotted lines in Fig. 4 and the door is locked, the key will bear against said plate over the opening 13 in the plate 6. The diameter of said opening 13 is such that the plate 5 has bearing only at a point near its ends, whereby it is allowed to spring inwardly, and is made of spring metal, so that its resiliency may be utilized to assist in binding the key in the lock and prevent the key from being jarred therefrom by any manipulation of the plate 5 through the keyhole which it closes. To obtain a like result when the key is inserted from the opposite side, as shown in Fig. 3, the plate 5 is provided at its ends with flanges 21, which bear against the inner face of the lock-plate 19,

holding the body of the plate 5 slightly away from the lock-plate and affording a slight spring movement to the guard-plate, which serves to bind the key in the lock, as said key is thereby confined between said spring guard-plate and the opposite plate of the lock-case.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a lock, the combination with the lock-case having the keyhole-openings therein, an insertible member in the lock-case carrying laterally-projecting guide-pins, and a movable guide-plate mounted upon said guide-pins in alinement with the keyhole-openings in the case of the lock.

2. In a lock, the combination of the lock-case having keyhole-openings therein, a main plate adapted to be inserted in the lock, and having an opening in which the key may turn, means for holding the main plate within the lock-case against movement, guide-pins fixed in the main plate, a guard-plate mounted to slide upon said pins and to alternately close the key-openings in the case when moved from side to side.

3. In a lock, the combination of the lock-case having keyhole-openings therein, an insertible plate fixed within the lock-case and having an opening through which the key may pass, guide-pins projecting from said plate on either side of said opening, a spring guard-plate mounted to slide upon said pins, and to bear upon the margins of said opening, said plate having a lateral flange at each end adapted to bear upon the plate of the lock when carried into contact therewith by the key.

In testimony whereof I sign this specification in the presence of two witnesses.

OSCAR STODDARD.

Witnesses:

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