

A. GLOCK.
 GUARD FOR FIRE ALARM BOX DOOR KEYS.
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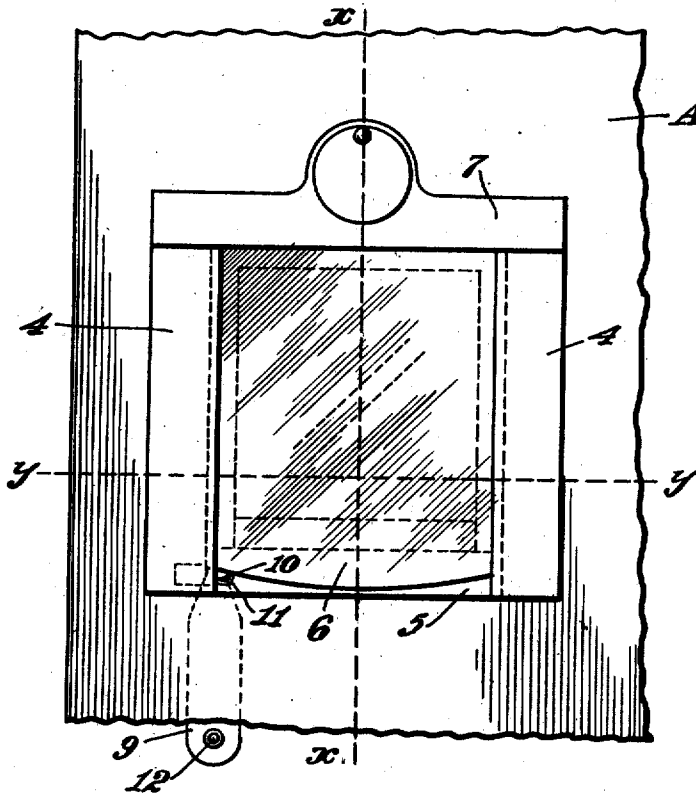


Fig. 1

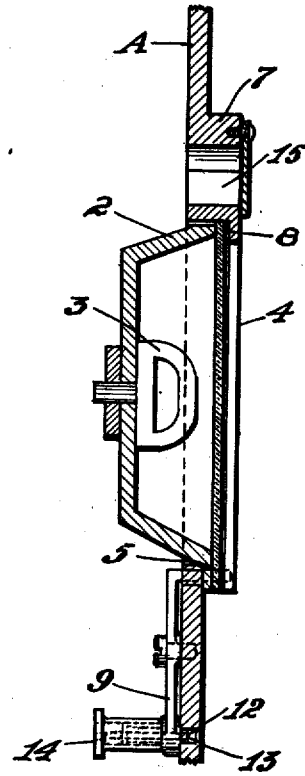


Fig. 2.

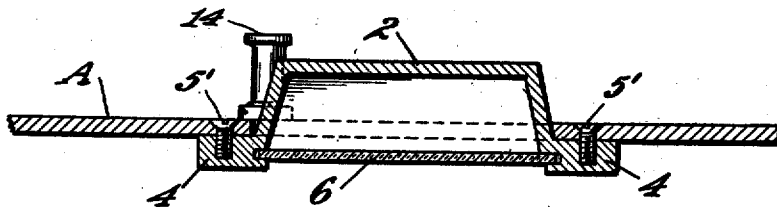


Fig. 3.

Witnesses:
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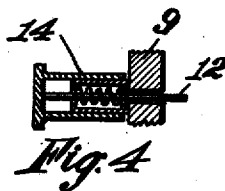


Fig. 4

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UNITED STATES PATENT OFFICE.

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GUARD FOR FIRE-ALARM-BOX-DOOR KEYS.

998,494.

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To all whom it may concern:

Be it known that I, ANTON GLOCK, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Guards for Fire-Alarm-Box-Door Keys, of which the following is a specification.

My invention relates to guards and housing means for the permanent keys of fire alarm boxes.

It is common in fire alarm boxes of the Gamewell and other systems to protect the key by which the box may be opened and an alarm turned in, by means of a glass window.

The present invention pertains to the means for holding this glass window or guard in place.

The invention consists of the parts and the construction and combination of parts, as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a front elevation of the invention. Fig. 2 is a vertical section on the line X—X, Fig. 1. Fig. 3 is a horizontal section on the line Y—Y, Fig. 1. Fig. 4 is a detail of the spring-pressed lever locking pin.

A represents a cover of a fire alarm telegraph station box, and 2 is a dish-shaped casting or plate inserted into and partly through an aperture in the door, and carrying the permanent key 3 by which the lock (not here shown) may be operated. This plate 2 has side flanges 4 and a bottom flange 5 fitting the outside of the door around the hole to prevent the plate going clear through to the inside of the door; the plate being held in place by a suitable means, as the screws 5' on the back of the door. The adjacent edges of the side flanges 4 are vertically grooved in a plane above the outside surface of flange 5 to receive a glass guard plate or window 6. The cover is provided with a grooved flange 7 just above the opening into which the key plate or pocket is inserted, and the groove 8 in this flange is co-incident with the grooves of the side flange members 4. The flanges 4—7 constitute, in fact, a window sash for the window pane or glass guard 6, which window sash is minus a lower rail, so that if the glass plate 6 is left unsupported at the bottom, it will drop out automatically; but in order to hold the

glass plate in so long as it remains unbroken and yet permit of a broken plate being replaced, suitable stop or guard means, as the following, are provided:

As shown, a lever 9 is fulcrumed on the inside of the door near the bottom of the plate and this lever 9 is provided with an outwardly projecting stop or trigger 10 which passes through an opening 11 in plate 2 and cover A, so that the stop 10 is interposable in the path of the guard 6. Suitable means are provided to keep the stop or latch 10 from being pushed back so as to release the plate, as, for instance, a spring-pressed pin 12 on the back of the lever 9, which is adapted to engage in a notch 13 on the back of the cover when the stop 10 is pushed out to intercept the guard 6. Pin 12 is withdrawn from this notch 13 by taking hold of the head 14 and compressing its spring, and by turning the lever to one side the latch 10 is carried to one side from beneath the guard glass 6 so as to allow a guard to be inserted.

In practice, the door A is usually closed and locked, and the key 3, by which a citizen or other person desiring to turn in an alarm may unlock the door, is guarded by the plate 6. In case it is desired to turn in an alarm, the glass guard 6 is broken whereupon it immediately drops out of its pocket provided by the vertical grooves in flanges 4 and the horizontal groove in top flange 7, allowing access to the key 3 so that the door can be opened and an alarm turned in. Subsequently, the repairer or the operator for the fire department inserts a new guard into the casing formed by the flanges 4—7, and locks this new guard 6 in place by means of the lever 9 and the latch 10; closing the door and locking it by the operator's key which is inserted into the keyhole 15.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. A guard for a fire alarm box door key, consisting of the combination with a box door having a vertical guide open at the bottom, of a recessed plate carrying the permanent key, a glass plate closing the recess, said glass plate having its side edges mounted in said guide, and a pivoted sidewise swinging latch engaging and supporting the lower edge of the glass plate and operated from inside the door.

2. The combination with a fire alarm box, of a suitable pocket formed therein and

housing a key, a casing formed on the outside of the door and around the pocket, said casing being open from below, a glass plate closing said pocket and inserted into the casing from below, and a pivoted latch acting on the bottom edge of the glass plate for supporting said plate against gravity and to hold the plate in place, said latch adapted to swing in a plane parallel with the face of the glass and to a point beyond the plane of the vertical edge thereof.

3. The combination with a fire alarm box, of a suitable pocket formed therein and housing a key, a casing formed on the outside of the door and around the pocket, said casing being open from below, a glass plate closing said pocket and inserted into the casing from below, and a pivoted latch acting on the bottom edge of the glass plate and supporting said plate against gravitating movement to thereby hold the plate in place, said latch adapted to swing parallel with the face of the glass and to a point beyond the plane of the vertical edge of said glass and being operated from the inner side of the door.

4. The combination with a fire alarm box having a pocket therein, of a recessed plate fitting said pocket, a glass plate said recessed plate having peripheral side and top flanges and being open from below, means for securing the recessed plate to the door, said flanges having grooves in the same plane forming a pocket into which the glass plate

may be inserted from below, to close the pocket in said plate, and means for retaining the glass plate in position and supporting said plate against gravitating action, said means including a vertically disposed latch pivoted at its lower end and having its upper end adapted to swing in a sidewise direction into and out of engagement with the bottom edges of the glass plate.

5. The combination with a fire alarm box having a pocket therein, of a recessed plate fitting said pocket, a glass plate, said recessed plate having peripheral side and top flanges, and being open from below, means for securing the recessed plate to the door, said flanges having grooves in the same plane forming a pocket into which the glass plate may be inserted from below to close the recess in said plate, and means for retaining the glass plate in position and supporting said plate against the action of gravity, said last named means comprising a pivoted latch member operated from the inside of the door and movable from one side to the other of the vertical plane of the side edge of the glass plate.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ANTON GLOCK.

Witnesses:

CHARLES A. PENFIELD,
CHARLES EDELMAN.