

A. GLOCK.
 LOCK FOR FIRE ALARM BOXES.
 APPLICATION FILED SEPT. 13, 1910.

998,493.

Patented July 18, 1911.

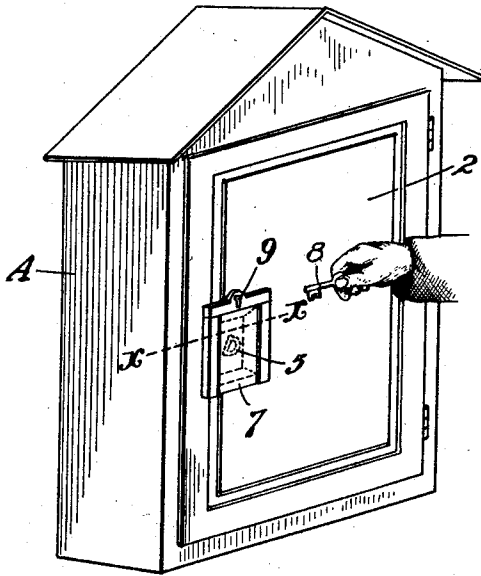


Fig. 1.

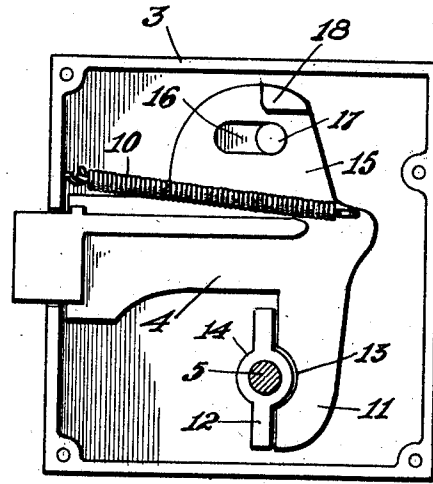


Fig. 2.

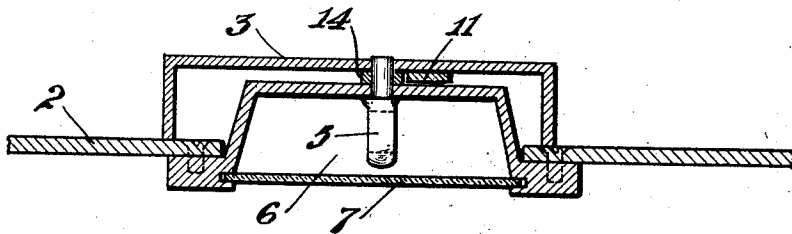


Fig. 3.

Witnesses;
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UNITED STATES PATENT OFFICE.

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LOCK FOR FIRE-ALARM BOXES.

998,493.

Specification of Letters Patent.

Patented July 18, 1911.

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To all whom it may concern:

Be it known that I, ANTON GLOCK, 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 Locks for Fire-Alarm Boxes, of which the following is a specification.

My invention relates to fire alarm boxes, and pertains particularly to a lock therefor.

The object of the present invention is to provide a simple, cheap, practical lock, for which there is provided two keys operating at different times and at different points within the lock. One of these keys is what I term the "permanent" key; that is, the key which remains in the box at all times and is guarded by a glass guard, this key only being used when a citizen or other person desiring to turn in an alarm breaks the glass, turns this permanent key, opens the box and gives the alarm. The other key is the operator's or repairer's key and this key is removable and is ordinarily used whenever the repairer or inspector wishes to have access to the box. In my invention a single lock serves to lock the door, and the lock may be opened by either key.

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 perspective view of a fire alarm box showing the invention as applied. Fig. 2 is an elevational view of the lock. Fig. 3 is a cross-section on the line X—X, Fig. 1.

1 represents a fire alarm box, 2 a door therefor and 3 the lock case secured inside the door.

4 is a latch bolt, 5 the permanent key which is housed in a recess 6 suitably formed on the outside of the door and guarded by the glass guard or window 7.

8 is a removable key adapted to be inserted into the keyhole 9 formed through the door just above the glass guard 7.

10 is a spring for projecting the latch bolt normally outward so as to engage its keeper on the door frame.

The latch bolt 4 has a downward projection 11 extending behind the shank of the permanent key 5 which latter carries a fixed cross-head 12; the projection 11 being shown as concaved at 13 to fit the rounded hub or

base 14 on crosshead 11. Thus it is seen that the arms of the crosshead 12 extend up and down, and both of them normally rest against the projection 11 so that no matter which way the key 5 is turned the latch bolt will be retracted.

15 is a projection on the latch bolt extending in the opposite direction from the projection 11, and it is provided with a horizontal slot 16 parallel with the line of reciprocation of the latch bolt and straddling the fixed guide pin 17; pin 17 being in line with keyhole 9 and adapted to telescope with the female key member 8.

18 is a lug projecting outwardly from the projection 15 and disposed adjacent to slot 16, and with which lug the key 8 engages when the latter is inserted into the keyhole to retract the latch bolt.

In practice, the permanent key 5 is protected behind the glass guard 7 and is never used except in emergency and after the breaking of the glass plate 7. The door, however, may be readily opened at any time by inserting the proper key 8 into keyhole 9, the key acting on the lug 18 to retract the bolt.

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

1. The combination with a fire alarm box and the door thereof, said door having a pocket with a glass plate forming a guard to the interior of the pocket, of a lock casing secured inside the door, a latch bolt mounted in the casing, a permanent key carried by the door at one side of the center thereof, said latch bolt having projections from each side of its center, one of said projections extending into the range of action of the permanent key, and a removable key insertible into the casing at the other side of the center of said latch bolt and adapted to engage the other extension thereof whereby the bolt may be operated independently of the permanent key.

2. The combination with a fire alarm box and the door thereof, said door having a pocket with a glass plate forming a guard to the interior of the pocket, of a permanent key carried by the door and located within said pocket, a latch bolt mounted in the door having oppositely extending portions one of which portions extends into the range of action of the permanent key, and the other portion having a projection from its

inner face, and a removable key adapted to
fit a key hole in the door and to engage said
projection whereby the bolt may be oper-
ated independently of the permanent key,
5 and a spring connected to the bolt adapted
to normally project the same into locking
engagement with the box.

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

ANTON GLOCK.

Witnesses:

CHARLES A. PENFIELD,
CHARLES EDELMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."