

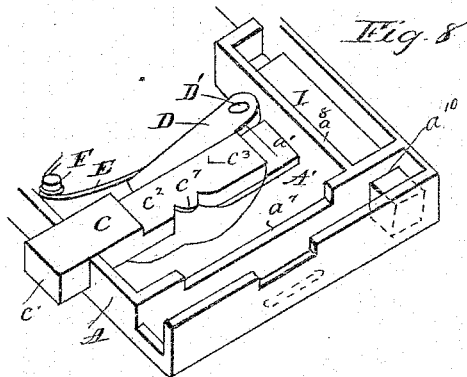
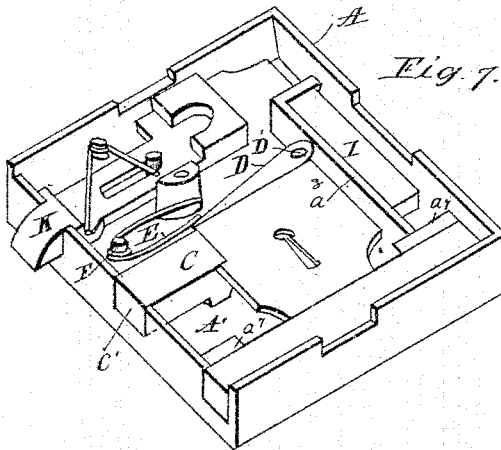
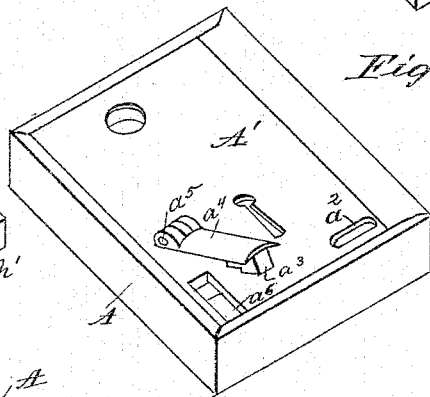
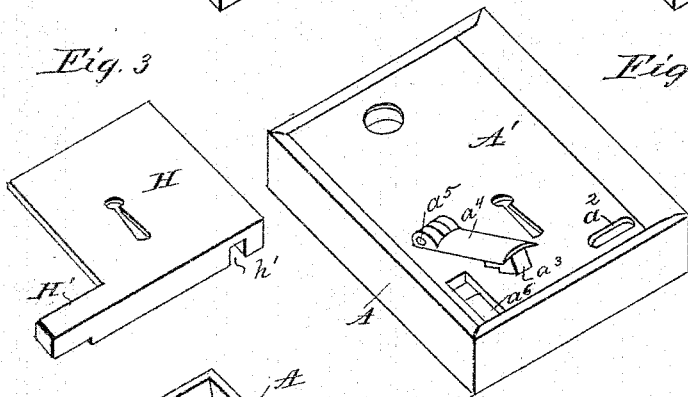
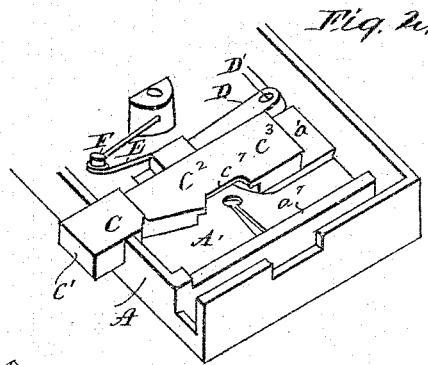
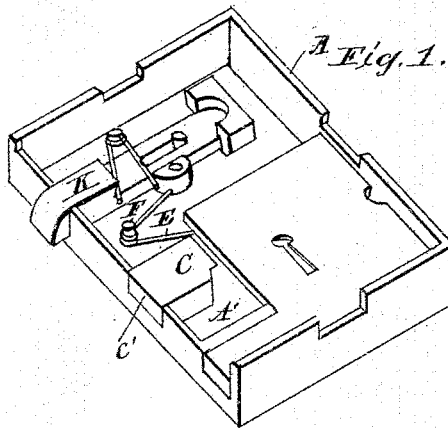
(No Model.)

2 Sheets—Sheet 1.

M. HIGGINS.
LOCK.

No. 491,352.

Patented Feb. 7, 1893.



Witnesses
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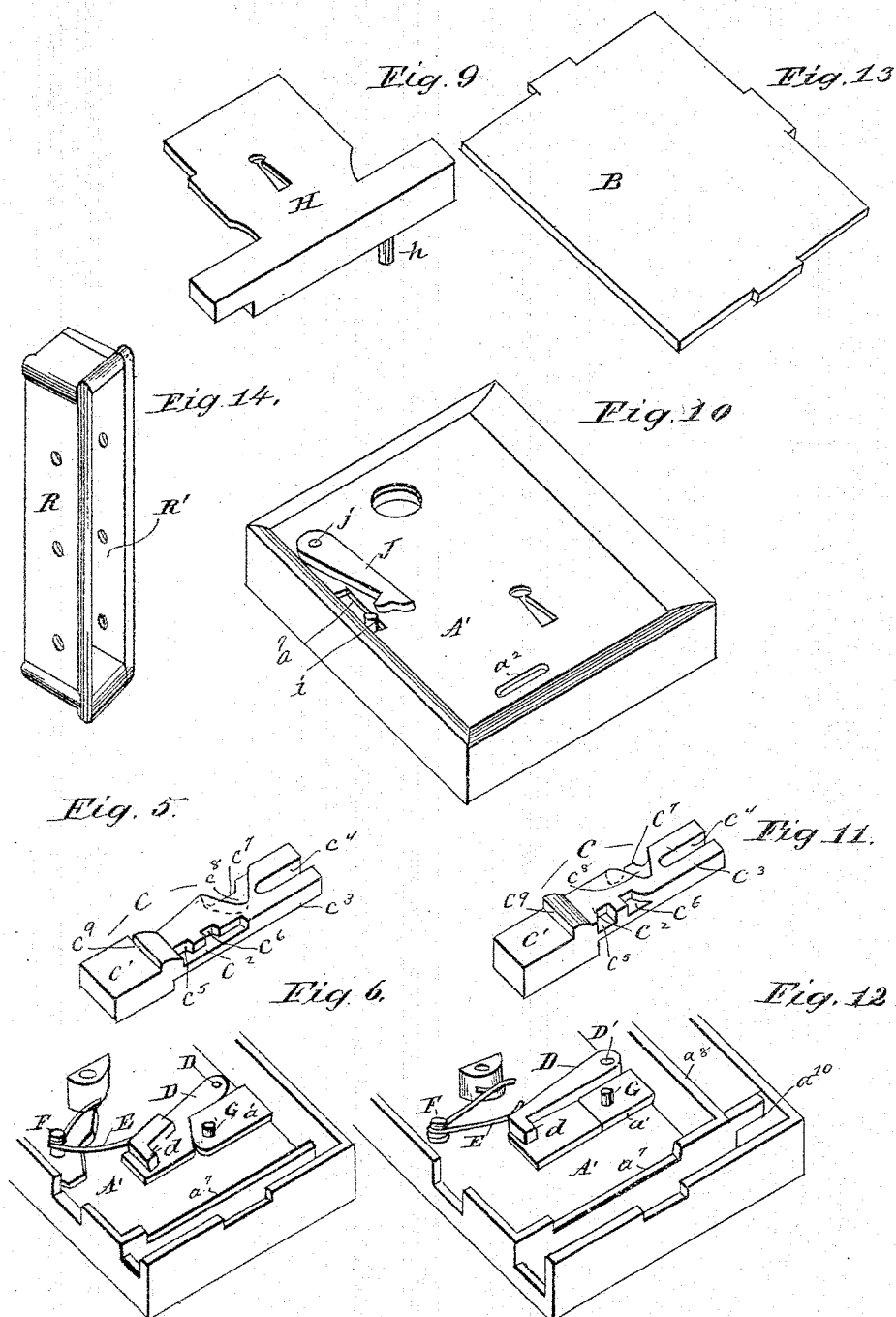
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2 Sheets—Sheet 2.

M. HIGGINS.
LOCK.

No. 491,352.

Patented Feb. 7, 1893.



Witnesses
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UNITED STATES PATENT OFFICE.

MARTIN HIGGINS, OF NILES, OHIO.

LOCK.

SPECIFICATION forming part of Letters Patent No. 491,352, dated February 7, 1893.

Application filed February 11, 1892. Serial No. 421,213. (No model.)

To all whom it may concern:

Be it known that I, MARTIN HIGGINS, a citizen of the United States, and a resident of Niles, county of Trumbull, State of Ohio, have
5 invented certain new and useful Improvements in Locks, of which I hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to
10 make and use the same.

My invention relates to locks, and is especially adapted to provide a nonpickable lock of simplest form, and adaptable to all usual situations.

15 My invention consists in the combination and arrangement of parts and details of construction, as hereinafter described, shown in the accompanying drawings and more specifically pointed out in the claims.

20 In the drawings Figure 1 is a view of the interior of a lock with the bottom plate removed; Fig. 2 is a similar view with protecting plate or shield, removed from the case; Fig. 3 is a view of this plate detached; Fig. 4 is an exterior
25 view of the case; Fig. 5 is a view of the locking bolt detached; Fig. 6 is a view of the top plate of case showing the pivoted locking dog in position; Fig. 7 is an interior view of a case containing similar mechanism; Fig. 8
30 is a view with shield plate removed; Fig. 9 is a view of this plate; Fig. 10 is an exterior view of case; Fig. 11 is a detail of locking bolt; Fig. 12 is a detail of pivoted locking dog in position; Fig. 13 is a view of the back plate of
35 one of the locks. Fig. 14 is a view of keeper for door post.

In the drawings A is the case and B the back-plate.

40 C is the lock bolt as in Figs. 5 and 11, provided with projecting portion C', central portion C², acted upon by the key and rear portion C³, slotted at C⁴.

45 D [Figs. 6 and 12] is the pivoted locking-dog, adapted to be raised in the manner of a tumbler by the key and provided with the projecting lug d.

D' is the pivot.

A spring E secured to the post F, depresses the locking-dog D.

50 A pin G adapted to fit in the slot C⁴ in the bolt C and guide its longitudinal movement

is firmly set in the front plate A' of the case, a raised boss a' serving for a bearing.

The projecting lug d on the locking-dog D is adapted to enter one or the other of the recesses C⁵, or C⁶ in the bolt C, according as the bolt is forced out or withdrawn after being
55 lifted by the key.

C⁷ is a thin projection adapted to fit in the ward of a lock, and C⁸ is a V shaped depression, against the sides of which the key bears
60 in pushing in or out the bolt.

C⁹ is a shoulder to prevent the withdrawal of the bolt from the exterior of the case.

H. is the protecting or shield plate for the key-hole which lies between the lock and base
65 plate and is adapted to prevent the entrance of the key or any picking instrument into the case from the exterior side of the door to which the lock is attached. This plate H is provided
70 with a key-hole which can be made to register with the key hole in the case or can be moved aside so as to cover the opening. It is made of
75 hardened steel so that it can not be drilled or broken.

H' is an additional bolt integral with the plate H and moving with it.

h. is a pin projecting through the slot a² in the case, by which the plate H may be moved
80 over or away from the key-hole.

In Fig. 3 is shown a notch h' which is adapted to receive the lug a³ upon the plate a⁴, pivoted on the exterior of the case at a⁵, the slot a⁶ permitting the lug to pass into the case. A
85 guiding partition a' receives and guides the bolt H'.

In Figs. 7 and 8 are shown a form of locking-bolt for the bolt H' consisting of the locking bolt I, guided by the partition a⁸ and provided
90 with a pin i, which projects through the slot a⁹ in the case, as in Fig. 10, and is retained by the catch J pivoted at j. The locking-bolt I passes through the partition A⁷ at a¹⁰.

The latch K at the upper portion of the lock is of any common construction of door latch
95 and is not included in this invention.

The keeper R shown in Fig. 14 is provided with a steel back plate R' so that the bolt can not be reached by drilling through the post,
100 but,

What I claim as new and desire to secure by Letters Patent is:

1. In a lock, the combination of a case A, provided with a base plate B, a locking dog pivoted to the front wall of the case, adapted to be lifted by the key, a locking bolt C provided with recesses adapted to be engaged by the locking dog at the different positions of the bolt, one or more thin portions on the bolt adapted to engage the wards on the key, means for guiding the bolt, substantially as described, a shield plate between the bolt and the front plate, an additional bolt integral with the shield plate, and a locking bolt I, adapted for locking said plate and bolt integral therewith, working in suitable guideways, substantially as described.

2. In a lock, a shield plate H, provided with a key-hole adapted to register with the key-hole of the case in one position thereof, a bolt integral with the shield plate, a pin *h* passing through a slot in the case, and a locking bolt I, substantially as described.

3. In a lock, a shield plate H, provided with a key-hole adapted to register with the key-hole of the case in one position thereof, a bolt integral with the shield plate, a pin *h* passing through a slot in the case and secured to the shield plate, and means for securing the plate and attached bolt in either position of its movement, comprising the locking bolt I, partition *a*⁸, slot *a*⁹, stud *i*, and pivoted catch J, substantially as and for the purpose set forth.

4. In combination with the pivoted and spring-actuated locking dog D, provided with lug *d*, the bolt C, provided with slot C⁴, recesses C⁵ and C⁶, thin projection C⁷, and V shaped depression C⁸ and pin G upon the lock case, substantially as described.

MARTIN HIGGINS.

Witnesses:

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