

(No Model.)

G. A. DAVIES.
COMBINED LATCH AND LOCK.

No. 343,893.

Patented June 15, 1886.

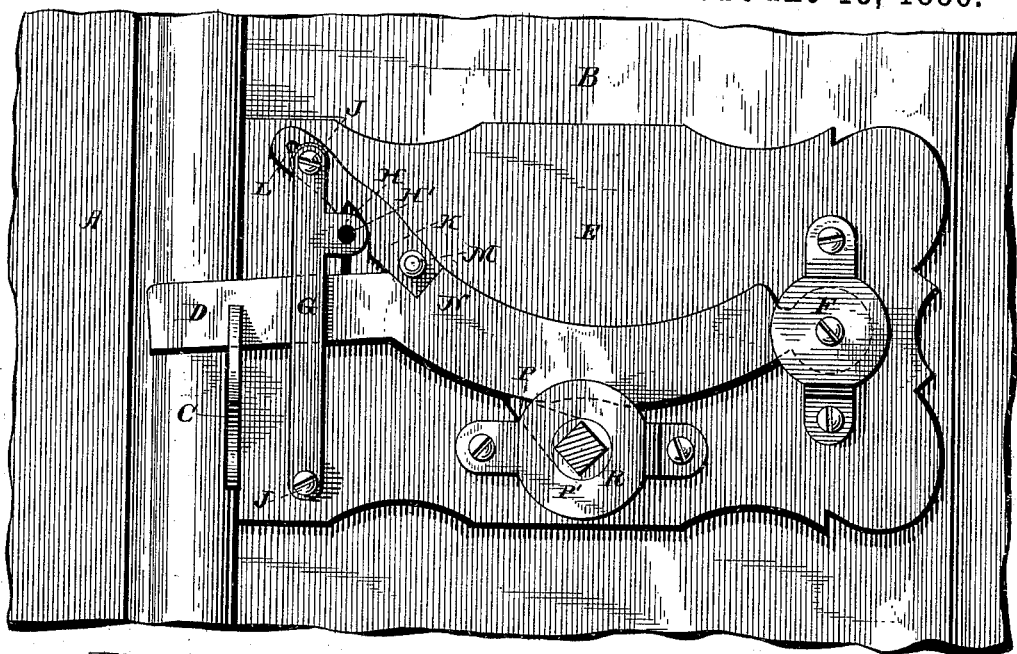


Fig. 1.

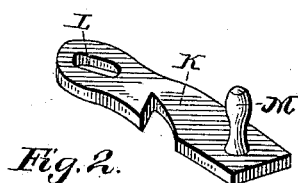


Fig. 2.

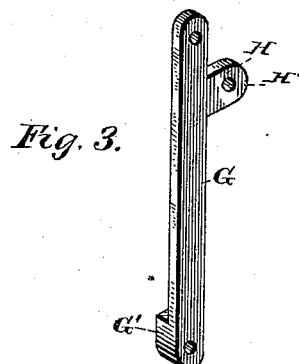


Fig. 3.

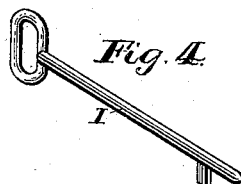


Fig. 4.

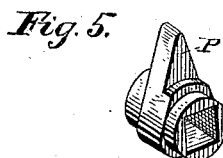


Fig. 5.

WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

GEORGE A. DAVIES, OF ST. LOUIS, MISSOURI.

COMBINED LATCH AND LOCK.

SPECIFICATION forming part of Letters Patent No. 343,893, dated June 15, 1886.

Application filed April 21, 1886. Serial No. 199,645. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. DAVIES, a citizen of the United States, residing at St. Louis, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in a Combined Latch and Lock; and I do 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 make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of my invention, and is a front view of the same. Fig. 2 is a detail view of the locking-lever. Fig. 3 is a detail view of the guard-bar. Fig. 4 is a view of the key. Fig. 5 is a view of the trip-arm.

My invention relates to a combined latch and lock; and it consists in the construction and novel combination of parts, as hereinafter described, and pointed out in the claim.

Referring by letter to the accompanying drawings, A designates the door-frame, and B the door, which is hinged thereto in the ordinary manner, so as to open inwardly.

C designates the keeper or catch, which is let into the door-frame, and is secured in place by screws, and projects inwardly far enough to engage the pivoted latch D, which is pivoted at one end between the latch-plate E and the bridge-plate F; the other end of said latch D passing between the latch-plate E and the vertical guard-bar G, the latter of which is provided near its upper end and at the rear side thereof with a short integral arm, H, having a single hole, H', therein, which hole forms the bearing or seat for the point of the key I when the latter is in place in the lock.

The guard-bar G has a shoulder, G', on its inner face at its lower end, and the securing-screw J is passed through this shouldered end, through the latch-plate, and into the door.

Between the upper end of the guard-bar and the face of the latch-plate E is pivoted the locking and sliding lever K, the upper securing-screws, J, passing through the upper end

of the guard-bar, through the elongated slot L in the upper end of locking-lever K, and through the latch-plate into the door itself. At its lower end the locking and sliding lever K is made rectangular in form in outline, and is provided on its outer face, near said lower end, with a stud or finger-piece, M, by which said locking and sliding lever K may be manipulated to bring its lower end into engagement with the V-notch N in the upper edge of the latch D. The latch D is preferably curved downwardly between its pivotal point and the V-notch N, so that it will be engaged by the trip-arm P on the knob-spindle P' when the knob is turned in either direction to lift the pivoted latch when the locking-lever is disengaged from the V-notch N in the latch D. When it is desired to leave the latch unlocked, the slotted slide is lifted out of the V-notch N and slid back on top of latch D. The latch D may be lifted then to open the door by simply turning the knob, if the key be removed. The key can only be inserted from the outside of the door, and should be removed after unlocking the door, in order that it may not interfere with the working of the latch, although the key will only interrupt the working of the latch when the guard of the key is turned downwardly. The knob-spindle P' has its inner bearing in a bridge-plate, R, secured to the latch-plate E below the curved portion of the latch D.

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

The combination, with the latch-plate, the bridge-plates, and the guard-bar having the lateral arm, with a hole therein aligned with the key-hole, of the pivoted latch provided with the V-notch in its upper edge, the slotted and notched sliding and locking lever, and the knob-spindle with the trip thereon, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE A. DAVIES.

Witnesses:

C. SHARP,
JAS. O. HALL.