

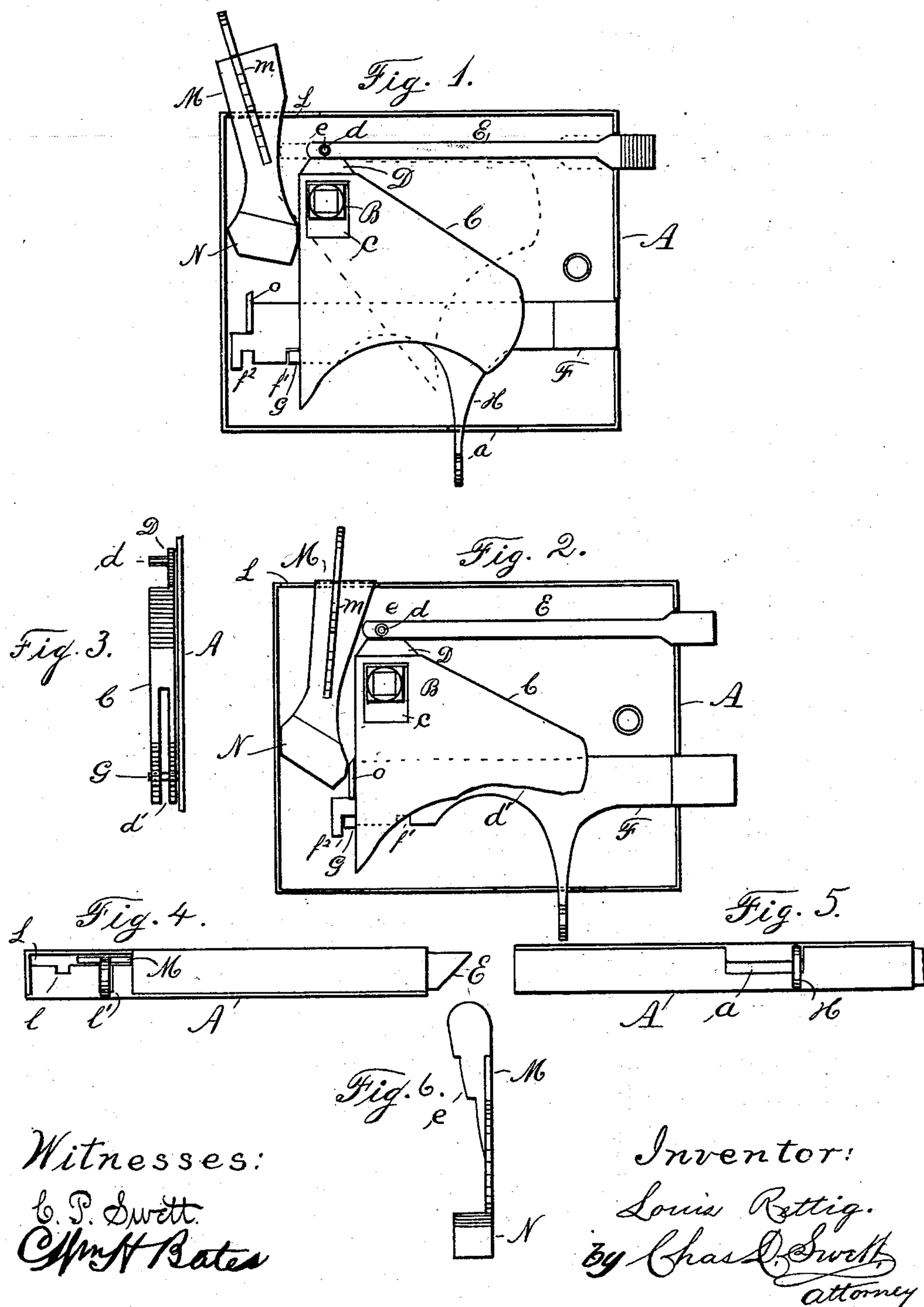
**No. 648,302.**

**Patented Apr. 24, 1900.**

L. RETTIG.  
LOCK.

(Application filed Feb. 5, 1900.)

(No Model.)



# UNITED STATES PATENT OFFICE.

LOUIS RETTIG, OF KASSON, INDIANA.

## LOCK.

SPECIFICATION forming part of Letters Patent No. 648,302, dated April 24, 1900.

Application filed February 5, 1900. Serial No. 4,024. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS RETTIG, a citizen of the United States, residing at Kasson, in the county of Vanderburg and State of Indiana, have invented certain new and useful Improvements in Locks; 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 the letters of reference marked thereon, which form a part of this specification.

This invention relates to locks which have both a catch-bolt and a lock-bolt, the latter being operated by means attached thereto, and it includes means for holding the catch-bolt only or both bolts while they are in a shot or thrown position. The bolt actuating and holding devices are attachable to spring-locks; but in this application they are shown as applied to a gravity-lock, for which an application for a patent, Serial No. 4,023, filed February 5, 1900, is now pending in the United States Patent Office.

The accompanying drawings illustrate the invention, in which—

Figure 1 is a side elevation with the rear side of the casing removed. The catch-bolt is thrown and the lock-bolt is drawn. Dotted lines show position of parts with catch-bolt drawn. Fig. 2 is a similar view with both bolts thrown and so held by the detent. Fig. 3 is a vertical edge of the tumbler and part of the casing. Fig. 4 is a plan of the top of the lock. Fig. 5 is a plan of the bottom of the same, and Fig. 6 is an edge elevation of the detent.

The letter A indicates the casing of the lock. B is an angular spindle-sleeve.

C is a gravity-tumbler, and *c* a slot therein adapted to receive the sleeve. The slot *c* is vertically elongated and permits a vertical motion of the tumbler.

D is a projection on the top of the tumbler, and *d* is a pin thereon.

E is a catch-bolt having a hole *e* in its rear end to engage the pin *d*. In the lower part of the tumbler is a slot *d'*, in which the lock-bolt F has longitudinal motion. Notches *f'* *f''* in this bolt are adapted to engage a cross-

bar G, by which the bolt is held in the desired position.

H is a projection on the lock-bolt extending downward through a slot *a* in the bottom of the casing. The rear end of the lock-bolt is slightly raised, and the bolt is moved back and forth by means of this projection, the weight of the tumbler causing it when released to catch by one of its notches on the bar G.

L is a slot in the top of the casing near its rear corner. *l l'* are notches at one side of said slot.

M is a detent adapted to move in the slot L and having an ear *m* to engage the notches *l l'*.

N is a block at the lower end of the detent, which when the ear *m* engages the notch *l'* and the lock-bolt is thrown enters the space between the cross-lug *o* on the end of the lock-bolt and the rear edge of the casing, and thus holds the bolt until the detent is lifted. The detent is inoperative when its ear occupies the notch *l*; but when the lock-bolt is thrown and the ear occupies notch *l'* the catch-bolt is held or locked.

What I claim is—

1. In a lock having a catch-bolt operated by a knob, a lock-casing provided with a slot near its upper rear corner and notches at a side of said slot, a detent adapted to move in said slot, an ear on the detent to engage said notches and a block on the lower end of the detent, for the purposes specified.

2. A keyless lock having a casing with a slot L in its top and notches *l, l'*, at a side of said slot, a slot *a*, in the bottom of the casing, a cross-bar near the lower rear corner of the casing, a detent movable in the slot L, an ear on the detent to engage notches *l, l'*, a lock-bolt having notches *f', f''*, to engage said cross-bar, a projection on said bolt extending through slot *a*, and a block on the lower end of the detent to hold the bolt in a thrown position, as herein set forth.

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

LOUIS RETTIG.

Witnesses:

JOHN H. LANG,  
F. C. GORE.