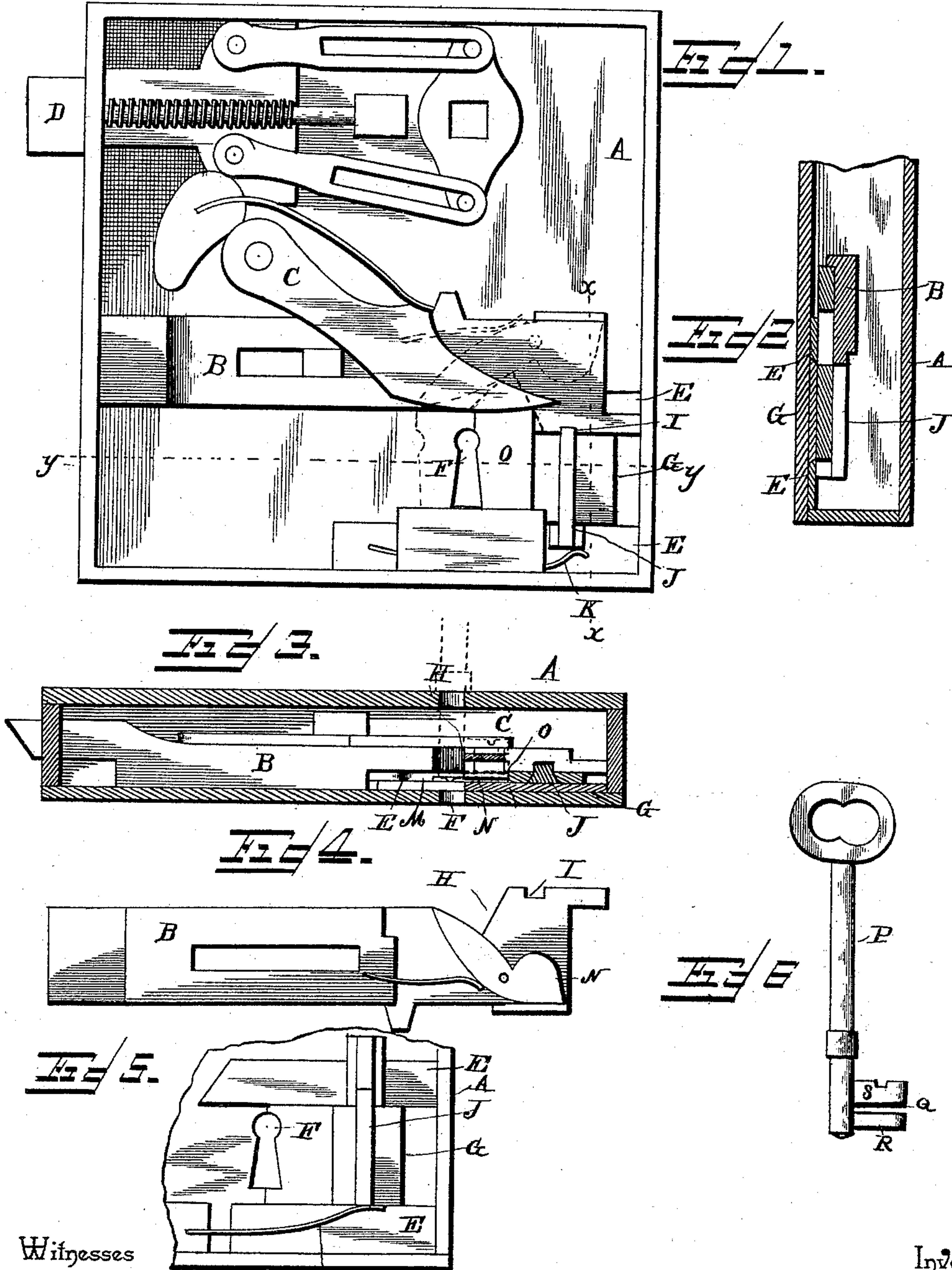


(Model.)

E. RILEY.  
KEYHOLE GUARD.

No. 495,517.

Patented Apr. 18, 1893.



Witnesses

W. E. Schneider. <sup>K</sup>

*[Signature]*

By his Attorneys,

*Calhoun & Co.*

Inventor  
E. Riley



# UNITED STATES PATENT OFFICE.

EDWARD RILEY, OF SALAMANCA, NEW YORK, ASSIGNOR OF ONE-HALF TO  
THOMAS J. RILEY, OF SAME PLACE.

## KEYHOLE-GUARD.

SPECIFICATION forming part of Letters Patent No. 495,517, dated April 18, 1893.

Application filed July 19, 1892. Serial No. 440,510. (Model.)

*To all whom it may concern:*

Be it known that I, EDWARD RILEY, a citizen of the United States, residing at Salamanca, in the county of Cattaraugus and State of New York, have invented a new and useful Keyhole-Guard, of which the following is a specification.

My invention relates to improvements in door-locks, and refers particularly to a keyhole guard which is so arranged as to cover the outside key-hole when the bolt is shot from the inside of the door, said guard being allowed to remain in a retracted position when the bolt is shot from the outside of the door.

My invention is fully described in connection with the accompanying drawings, and the novel features thereof are particularly pointed out in the claims.

In the drawings: Figure 1 is a view of a lock embodying my improvement, with the front plate removed, said view illustrating the lock as seen when looking at the inner side thereof. Fig. 2 is a transverse sectional view of the same on line  $x-x$ , Fig. 1. Fig. 3 is a longitudinal sectional view on line  $y-y$  of Fig. 1. Fig. 4 is a detail view of the bolt looking at the reverse side from that which is shown in Fig. 1. Fig. 5 is a similar view of the guard, with its attached slide. Fig. 6 is a similar view of the key.

A represents the case, B the sliding bolt, C the spring-actuated tumbler engaging said bolt in either its extended or retracted position, and D represents the latch and operating mechanism.

In parallel guides E E, secured to the interior surface of the outer plate of the lock-case and respectively above and below the outside key-hole F, operates the laterally-moving guard G, which is adapted, when in the position shown in Fig. 1, to allow of the insertion of the key into the lock from the outside; and when moved to the position shown in dotted lines in said figure, to prevent the insertion of the key.

The bolt is provided with the usual notch H for the engagement of the key after the latter has disengaged the tumbler from said bolt, and the latter is further provided, near its rear end, with a notch I, which is adapted to

be engaged by a spring-actuated detent or slide J, which is carried by the said guard, its actuating spring K being attached to the side of the case in a convenient position to engage the rear or lower end of the detent. The front end of the detent is extended under the rear end of the bolt, as shown in dotted lines in Fig. 1, and the under side of the latter is recessed, as shown at M, and in said recess is mounted a spring-actuated trip-lever N, the rear end of which lies in proximity to the front end of the spring-actuated detent, whereby when the front end of said trip-lever, which lies under the key-notch H, of the bolt, is repressed by the key, the detent will be depressed and disengaged from the notch in the rear end of the bolt.

O represents a ward, arranged in the lock above the front edge of the sliding guard.

The operation of my improved lock is as follows: In connection therewith I employ a key P, provided with a slotted web Q, said slot being adapted to receive and operate over the ward O, that portion R of the web which is adjacent to the end of the key being narrower than the portion S. When the key is inserted in the lock from the inside and is turned so that the slot in the web will ride over the ward, the narrower portion of said web will pass over the front end of the trip-lever without operating the same, and therefore, as the bolt is shot in the ordinary manner, the guard, which is normally connected to the rear end of the bolt by means of the spring-actuated detent, will be carried forward with the bolt and will cover and conceal the outer key-hole.

The key, from its shoulder  $p$  to the end is of such a length that when inserted in the key-hole of the inner plate it does not extend into the outside key-hole, but terminates short of the inner surface of the outer plate a sufficient distance to permit of the passage, therebetween, of the guard.

If the key is inserted into the lock from the outside, with the parts in the positions shown in Fig. 1, and the key is turned as before to shoot the bolt, the broader web of the key will engage the front end of the trip-lever and repress the same, thereby disengaging the nose



of the detent from the notch in the bolt and allowing the latter to be moved independently of the guard.

I desire it to be understood that I do not  
5 limit myself to the precise details of construction shown and described, but may vary the same, as the construction of the particular lock to which it is attached demands, without departing from the spirit of the invention.

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

1. In a lock, the combination with the bolt,  
15 of a sliding guard provided with a spring-actuated detent and a trip-lever mounted upon the bolt to engage said detent, substantially as specified.

2. In a lock, the combination with the bolt,  
20 of a sliding guard, a spring-actuated detent carried thereby to engage the bolt, and a spring-actuated trip-lever adapted to engage said detent to disengage it from the bolt, and adapted to be engaged by the key, substantially as specified.

25 3. In a lock, the combination with the bolt having an operating-notch H, of the sliding-guard, a spring-actuated detent carried by said guard and projecting at its forward end

under the bolt, and the trip-lever pivoted to the bolt in position to engage the forward end 30 of the detent and projecting at the opposite end under the operating notch of the bolt, substantially as described.

4. In a lock, the combination with a sliding bolt, the sliding guard provided with a spring- 35 actuated detent to engage the bolt, and a spring-actuated trip-lever carried by the bolt to engage said detent, an intermediate ward being arranged in proximity to said guard, of the key slotted to receive said ward and having 40 the portions of its web upon opposite sides of said slot of different widths, as described, whereby when the key is inserted into the lock from the inside it will be prevented from engaging the trip-lever by the position of said 45 ward, and when inserted therein from the outside will be enabled to engage the trip-lever to disengage the detent from the bolt, substantially as specified.

In testimony that I claim the foregoing as 50 my own I have hereto affixed my signature in the presence of two witnesses.

EDWARD RILEY.

Witnesses:

T. H. DOWD,

W. K. HARRISON.