(No Model.)

A. ARENS.

LOCK.

No. 475,914. Patented May 31, 1892.

Fig. 1.

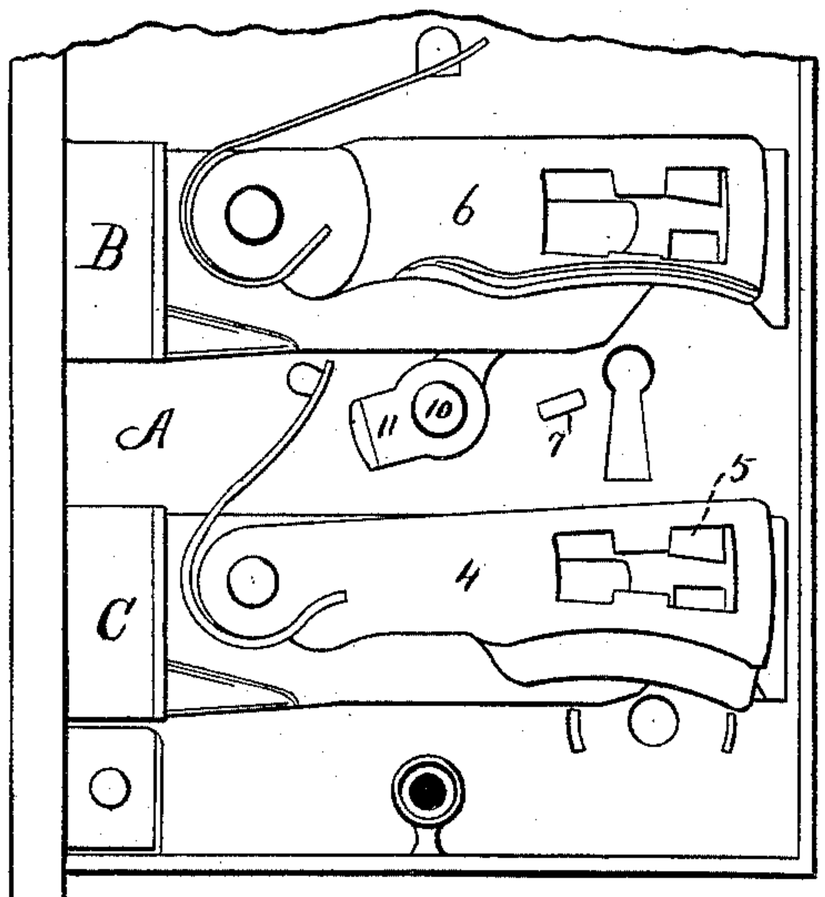


Fig. 2.

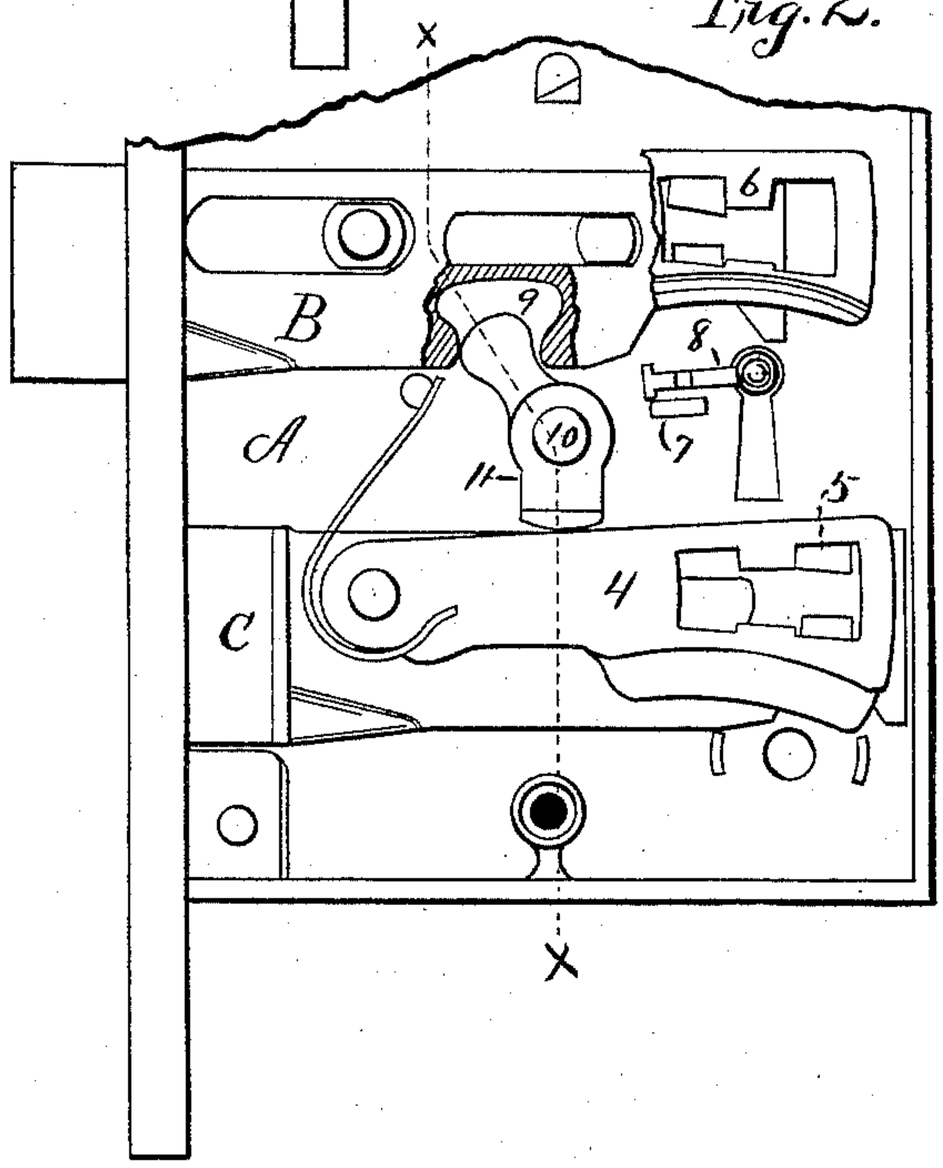
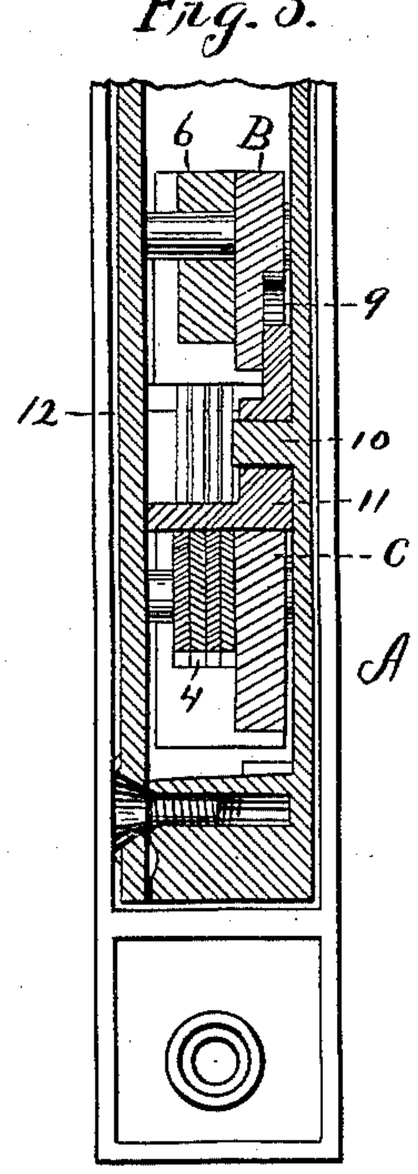


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

AUGUST ARENS, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE P. & F. CORBIN, OF SAME PLACE.

LOCK.

SPECIFICATION forming part of Letters Patent No. 475,914, dated May 31, 1892.

Application filed November 23, 1891. Serial No. 412,751. (No model.)

To all whom it may concern:

Be it known that I, AUGUST ARENS, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Locks, of which the following is a specification.

My invention relates to improvements in locks; and the objects of my improvement are to provide a stop that is operated by a bolt from the inside of the door for stopping the tumblers of the lock-bolt that is designed to be operated from the outside of the door.

In the accompanying drawings, Figure 1 is a front view of my lock, the cap-plate being removed and that position of the case that is occupied by the ordinary latch being broken away. Fig. 2 is a like view with some of the parts in a different position and a portion of the inside lock-bolt in section, and Fig. 3 is a sectional view of my lock on the line *x x* of Fig. 2.

A designates the case; B, the lock-bolt that is designed to be operated from the inside of the door, and which, for convenience of description, I designate as the "inner lock-bolt," and C is the lock-bolt that is designed to be operated from the outside of the door, and for that reason I call it the "outside bolt." This outside bolt is provided with a series of tumblers 4, which must be lifted to the proper height for the passage of the fence 5 on the bolt, as in other tumbler-locks. The inside lock-bolt B is provided with a tumbler or dog 6 of ordinary construction, and on the case is a stop-stud 7 to prevent the key 8 from being rotated far enough to be removed from the lock without turning it back, so as to withdraw the lock-bolt. On the back of the inside lock-bolt B (in the position illustrated in Figs. 1 and 2) is a shallow recess 9, the contour of which is shown in Fig. 2, and on a stud 10 of the case is a lever-stop 11, with its thin end resting in the recess at the back of said lock-bolt B, while its thicker end lies between the two lock-bolts, the same being thick enough to cover the edges of all the tumblers 4 of the outside lock-bolt C. When the inside lock-bolt B is withdrawn, as shown in Fig. 1, one side wall of the recess 9 (the side nearest the outer end of said bolt) engages one end of the stop-lever 11 and holds that lever in the position shown in Fig. 1, leaving the tumblers and outside lock-bolt C free to be operated by a proper key. When the inside lock-bolt B is thrown out to lock the door, as shown in Fig. 2, the opposite wall of the recess 9 engages one end of the stop-lever and forces said lever into the position shown in Figs. 2 and 3, with its wide end immediately over all the tumblers of the outside lock-bolt to hold them down, so that said bolt cannot be operated even with the proper key, either to force out or withdraw the bolt until the tumblers have been released by withdrawing the stop-lever.

I have shown only a round hole in the back of the lock-case to receive the stem of the key when it is used on the outside bolt, the keyhole proper being in the cap-plate 12, Fig. 3; but, if desired, a full keyhole might be made in both the back of the case and cap-plate, so that the key can be inserted and the outside bolt C operated from either side of the door. The bolts B C may be arranged so as to both be operated by the same key.

I claim as my invention—

1. The combination of the lock-bolt C and its tumblers, the inside lock-bolt B, having the recess 9, and an internal intermediate stop-lever connected with and actuated by said inside bolt, one of its ends lying between the side walls of said recess for automatically stopping and releasing said tumblers as said stop-lever is operated through the movement of said inside bolt B, substantially as described, and for the purpose specified.

2. The combination of the lock-case, the bolt C and its tumblers, the inside lock-bolt B, the stop-lug 7 on the case by the side of the keyhole for said bolt B, and an internal intermediate stop-lever connected with and actuated by said inside bolt, substantially as described, and for the purpose specified.

AUGUST ARENS.

Witnesses:
C. A. BLAIR,
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