W. H. EISENHART.

LATCH BOLT LOCK.

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1,014,583.

Patented Jan. 9, 1912.

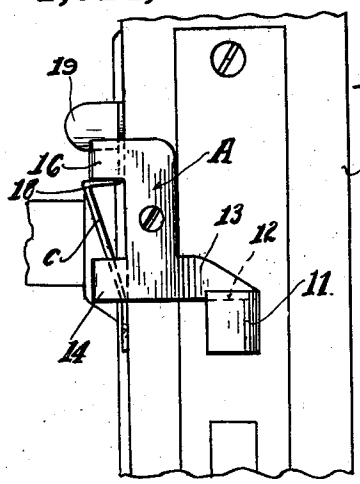

Fig. 1.

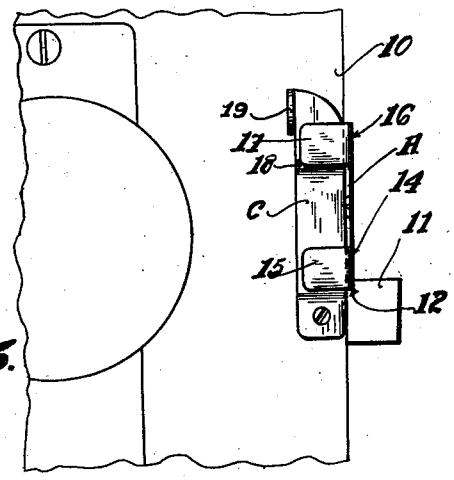

Fig. 3.

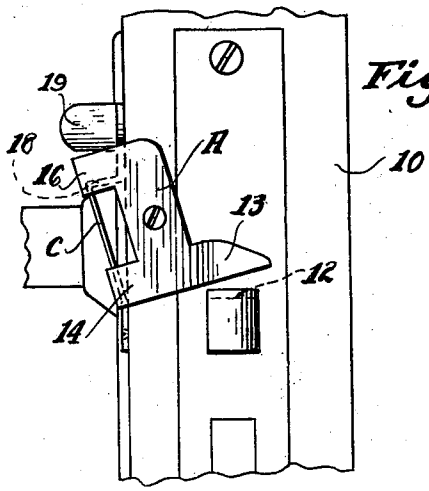

Fig. 2.

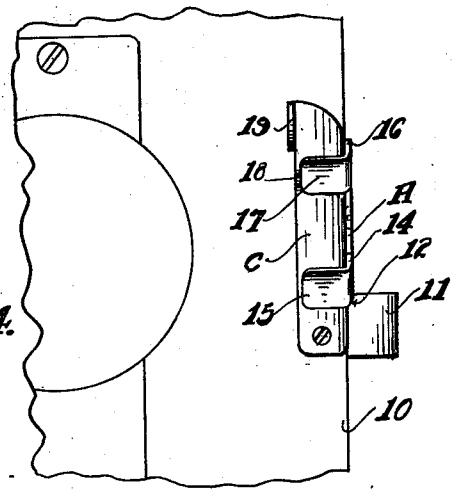

Fig. 4.

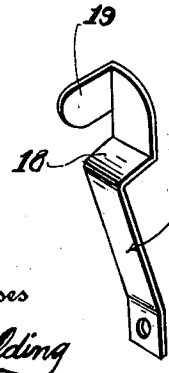

Fig. 6.

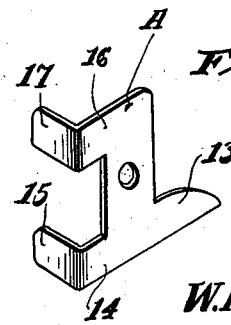

Fig. 5.

Witnesses

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LATCH-BOLT LOCK.

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Application filed December 22, 1910. Serial No. 598,728.

To all whom it may concern:

Be it known that I, WILLIAM H. EISENHART, a citizen of the United States, residing at York, in the county of York, State of Pennsylvania, have invented certain new and useful Improvements in Latch-Bolt Locks; and I do 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 make and use the same.

This invention relates to latch bolt locks.

The object of the invention resides in the provision of a latch bolt lock which may be applied to various forms of locks and latch bolts now in use and which includes a single means whereby the device may be secured in unlocked position against accidental movement to locked position, and in locked position so as to prevent the same from being operated to unlocked position except from the inside of the door.

A further object of the invention resides in the provision of a device of the character named which will be simple in construction, durable, and efficient in use, and which may be manufactured at an exceedingly small cost.

With these and other objects in view, the invention consists in the details of construction and the arrangement and combination of parts to be hereinafter more fully described and particularly pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawings, wherein like characters of reference denote corresponding parts in the several views; and in which,

Figure 1 is an edge view of a fragment of a door with the invention applied, showing the locking lever disposed and secured in locking position; Fig. 2, a view similar to Fig. 1 with the locking lever disposed and secured in unlocked position; Fig. 3, a view looking at the inside of a door with the parts of the invention in the position shown in Fig. 1; Fig. 4, a view similar to Fig. 3, with the parts in the position shown in Fig. 2; Fig. 5, a detail perspective view of the locking lever; and Fig. 6, a detail perspective view of the securing arm which cooperates with the locking lever.

Referring to the drawings, 10 indicates the door and 11 the latch bolt, which latter is provided on its upper face with a transverse recess 12. Pivoted on the free edge of the door 10 is a locking lever A, the lower end of which terminates in laterally extending arms 13 and 14, the former being adapted to be moved into and out of the recess 12, the movement of said arm into the recess 12 serving to secure the latch bolt against operation, while the movement thereof out of said recess will permit the free operation of the latch bolt. The outer end of the arm 14 is bent, as at 15, so as to extend transversely of the door 10 and lie in spaced relation thereto for a purpose that will presently appear. Extending from the upper end of the lever A on the same side as the arm 14 is another arm 16, the outer end of which is bent so as to be disposed transversely of the door 10 and in spaced relation thereto in a manner similar to the bent portion 15 of the arm 14. By this construction, it will be apparent that as the lever A is operated so as to move the arm 13 out of the recess 12, the bent portion 15 of the arm 14 will serve to limit such movement of the lever. Mounted on the inner side of the door 10 is an arm C which is stepped adjacent its free end so as to form a shoulder 18. The free end of this arm C is also provided with a lateral tongue 19 which is bent so as to afford a suitable grip for the manual operation of the arm C.

When the locking lever A is disposed in locking position, as shown in Fig. 1 and when the arm C is moved to a position substantially parallel with the vertical edge of the door 10, the lower edge of the bent portion 17 of the arm 16 will engage the shoulder 18 and thereby secure the lever A against movement to unlocked position. However, to move said lever to unlocked position, it is only necessary to swing the arm C on its pivot and disengage the shoulder from the bent portion 17 of the arm 16 and then move the upper end of the lever A toward the inner side of the door, this movement being limited by the engagement of the bent portion 15 of the arm 14 with the lower end of the arm C. When the lever A is in this position, as shown in Fig. 2, the arm C is again moved to a position substantially parallel to the vertical edge of the door and the shoulder 18 will lie positioned between the inner face of the bent portion 17 of the arm 16 and the inner side of the door and thus pre-

vent the movement of the locking lever A to locking position as the result of jarring or any accidental causes.

It will thus be seen that there has been provided a single means of exceedingly simple construction for maintaining the locking lever of the latch bolt either in locked or unlocked position, this dual function being accomplished without altering the relative relation of the parts of the securing means in either instance.

What is claimed is:—

1. The combination with a door and a latch bolt mounted therein having a transverse recess in one face thereof disposed exteriorly of the free end of the door when the bolt is in locking position, a lever pivoted on the free end of the door, one end of said lever being movable into and out of the recess in the latch bolt, and a single means movable into and out of the path of travel of the other end of said lever for holding same against movement when the first named end thereof is disposed in or out of the recess in the latch bolt.

2. The combination with a door and a latch bolt mounted therein having a transverse recess in one face thereof disposed exteriorly of the free end of the door when the bolt is in locking position, a lever pivoted on the free end of the door, one end of said lever being movable into and out of the recess in the latch bolt, and the other end thereof bent across the inner side of the door in spaced relation to the latter, and an arm pivotally mounted on the door having its free end stepped and forming a resultant shoulder, said shoulder in the active position of the arm engaging one edge of the bent portion of the lever when the latter extends into the recess in the latch bolt to hold same against movement out of said recess and interposed between the door and the bent portion of said lever when the latter is out of the recess in the latch bolt to hold same against movement into said recess.

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

WILLIAM H. EISENHART.

Witnesses:

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AUGUSTUS LOUCKS.