WILLIAM H. ANDREWS' Improvement in DOOR LOCKS.
Assignor to Burton Mallory

PATENTED
DEC 10 1867

Fig. 1 71944

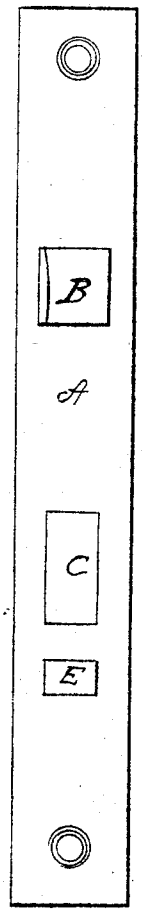


Fig 2

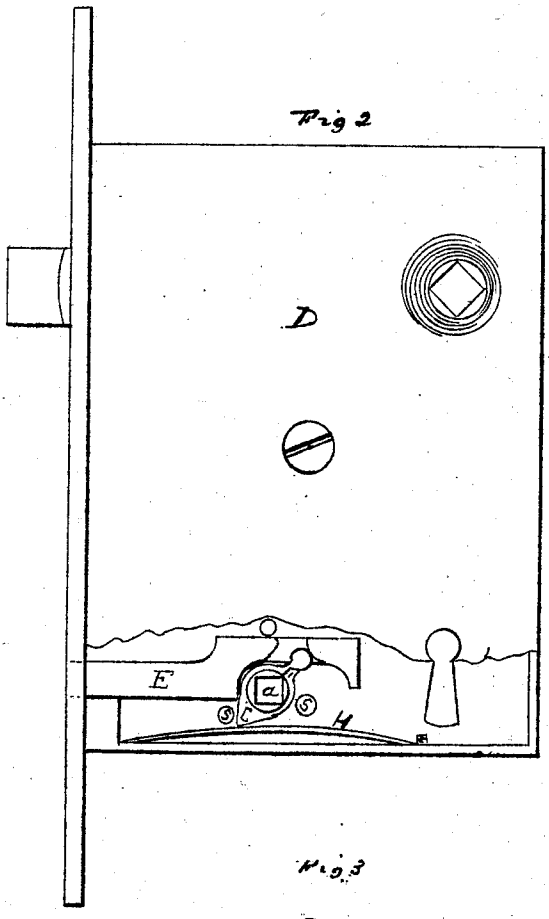
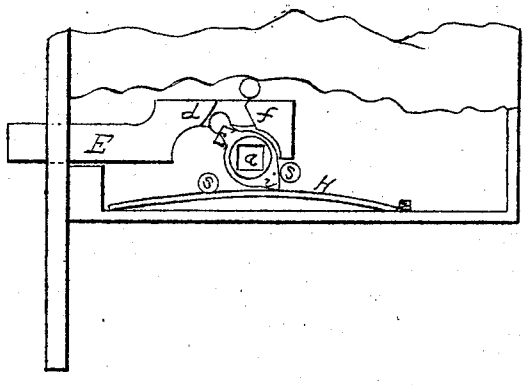


Fig 3



William H. Andrews.

WITNESSES.

A. J. Tibbetts

John N. Shumway

William H. Andrews
INVENTOR.

By his Attorney.

Wm E. Earle

United States Patent Office.

WILLIAM H. ANDREWS, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO BURTON MALLORY, OF SAME PLACE.

Letters Patent No. 71,944, *dated December* 10, 1867.

IMPROVEMENT IN BOLT-ATTACHMENT TO DOOR-LOCKS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, W. H. ANDREWS, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Door-Locks; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a face view,

Figure 2 a side view, a portion of the plate removed to show the improvement, and in

Figure 3 a like view, to illustrate its operation.

This invention relates more particularly to mortise-locks or latches, yet may be applied to locks or latches of other description, and consists in the peculiar arrangement and operation of the third or thumb-bolt; and to the better understanding of my invention, as well as to enable others to construct the same, I will proceed to a description, as illustrated in the accompanying drawings.

A is the face-plate; B the latch-bolt; C the lock-bolt, arranged and enclosed within a case, D, so as to operate in the usual manner. E is the third bolt, arranged within the case, its inner end formed into a yoke, *d* and *f*. F is the follower, arranged in the case like the follower of the latch-bolt, and formed with an opening, *a*, into which a spindle is placed, extending through to one side of the door, and on to the said spindle a knob or other contrivance is arranged, for moving the bolt. The lower side of the follower is formed as a double-inclined cam, *i*, beneath which is arranged a spring, H, so that as the follower is turned from the position in fig. 2 to that in fig. 3, or *vice versa*, the spring reacts to throw the follower over and hold it in either position. The upper end, F, of the follower, acts upon either side, *d* or *f*, of the yoke, as the case may be, to throw the bolt out, as in fig. 3, or draw in the bolt, as in fig. 2. The follower is prevented from being thrown too far out in either direction, by a projection, *s*, within the case, and when the bolt has been thrown out, as in fig. 3, the position of the follower, relatively to the bolt, is such that the bolt cannot be returned, except by the means which throws it out. Thus I have arranged within the lock-case a neat and compact third bolt, which is, in itself, far more secure than any of the known mortise or flush bolts, and is therefore applied to the door at very little additional trouble, and at a very trifling additional cost in the manufacture of the lock.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

The bolt E, constructed and arranged within the lock-case, in combination with the follower F, constructed with a cam, *i*, and spring H, so as to hold the bolt securely in both its locked and unlocked position, substantially in the manner herein set forth.

WM. H. ANDREWS.

Witnesses:

JOHN E. EARLE,

A. J. TIBBITS.