

T. F. KEATING & W. H. TAYLOR

DOOR-LOCK.

No. 191,861.

Patented June 12, 1877.

Fig 1

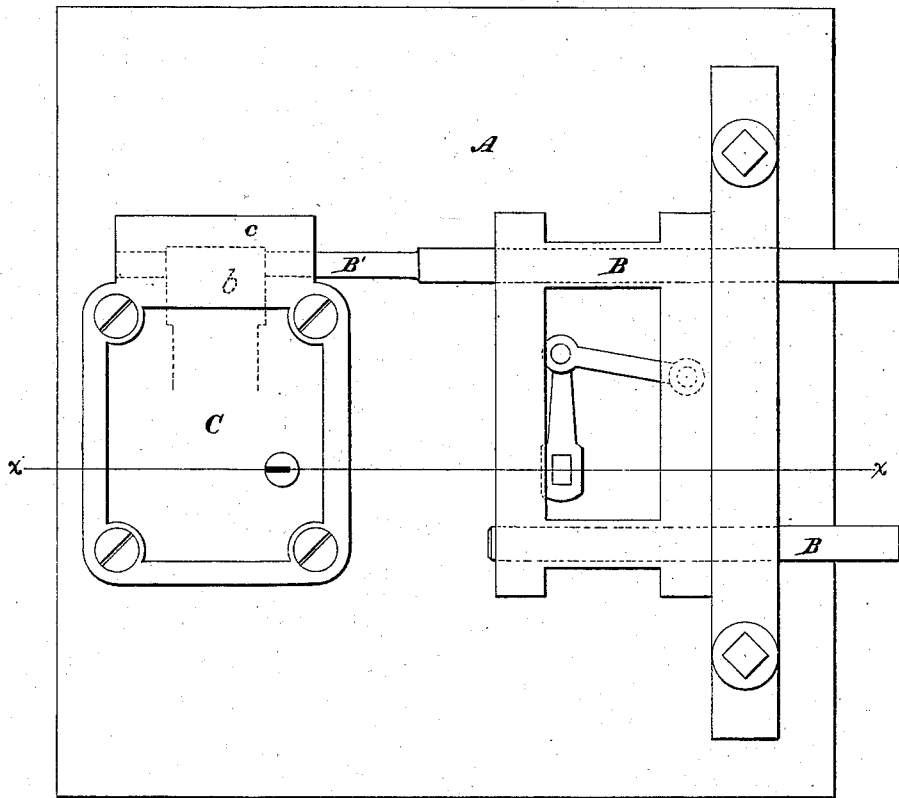
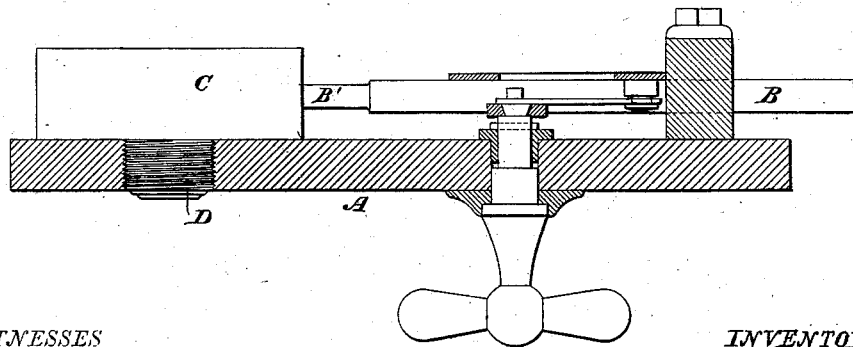


Fig 2.



WITNESSES

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THOMAS F. KEATING AND WARREN H. TAYLOR, OF STAMFORD, CONN.

IMPROVEMENT IN DOOR-LOCKS.

Specification forming part of Letters Patent No. **131,861**, dated June 12, 1877; application filed July 20, 1876.

To all whom it may concern:

Be it known that we, THOMAS F. KEATING and WARREN H. TAYLOR, of Stamford, in the county of Fairfield and State of Connecticut, have invented a certain new and useful Improvement in Locks, of which the following is a specification, that will enable those skilled in the art to which our improvement relates to make and use the same, reference being had to the accompanying drawings.

Our improvement is designed especially for use in connection with safe and vault doors, but may be applied elsewhere. It relates to means of attaching locks to doors; and consists in forming a screw-threaded hub or escutcheon on the back plate of a lock, projecting sufficiently to pass through a door on which it may be desired to apply the lock.

We have shown such an escutcheon applied in connection with an extension of the lock-case, within which is a lock-bolt, that presents its side to dog the bolt-work, instead of its end, and bears on its opposite side, to aid it in resisting strain applied on the bolt-work against the wall of the lock-case extension. The threaded hub or escutcheon is to be screwed into a suitable aperture in the door until it is flush with the outside, and it serves not only as an escutcheon, but, in connection with the ordinary fastening screws or bolts passing through the lock-case and into the door, as an additional security to maintain the lock firmly in its place against any strain upon the bolt-work, and, what is of especial importance, it prevents driving off the lock by applying force to the hub.

In the drawings, Figure 1 is a view of the inside of an ordinary safe-door with our improved lock applied, and Fig. 2 is a transverse section through the line *x x* of Fig. 1.

A represents the door; B B, the bolt-work or train of bolts; C the lock, and D the screw-threaded escutcheon. The lock-case is provided with an extension, *e*, at its upper end, having a recess for receiving the lock-bolt *b* when thrown by the key into the locked position. Transversely through this extension, and intersecting the path of the lock-bolt, is

an aperture, forming a bearing for the tongue B', which, as shown, is a part of the train of door-bolts.

The operation of locking, as we have illustrated it, is that, when the door is closed and the door-bolts have been thrown forward in the usual way into engagement with the jamb, the application of the key from the outside throws the lock-bolt up behind the tongue B', causing the side of the lock-bolt to bear against the end of the tongue B', and firmly dog the door-bolts. Thus, while the lock-bolt is entirely incased at all times, so as to exclude dust and dirt from the lock mechanism, the dogging of the door-bolts is rendered exceedingly secure and efficient on account of being effected by the side of the lock-bolt within the recess or mortise of the lock-case extension, thereby relieving the lock mechanism from all strain, and confining the strain to the lock-case extension and the strong fastenings of the lock-case.

We do not confine ourselves to any special locking mechanism to be operated by a key to throw the lock-bolt, but design to employ any of the well-known forms of locking mechanism that may be convenient for operating reciprocating sliding lock-bolts.

We do not claim to be the first to use the side of a lock-bolt to dog safe bolt-work, or to be the first to provide a mere screw-threaded hub or projection on the back plate of a lock-case, for we are aware that those things have been done before; but

What we claim as our improvement, and desire to secure by Letters Patent, is—

A lock-case provided with a screw-threaded escutcheon integral therewith, to pass into and through an aperture in a door for direct attachment of a lock to a door, substantially as described.

In testimony whereof we have hereunto subscribed our names.

THOMAS F. KEATING.
WARREN H. TAYLOR.

Witnesses:

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E. D. OGDEN, Jr.