E. WIKE.

LOCKS FOR DOORS.

No. 192,724. Patented July 3, 1877.

Fig. 2.

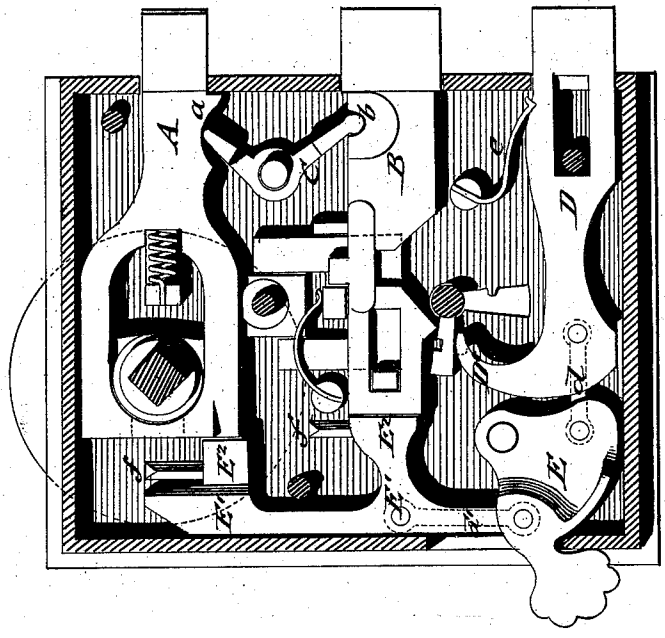
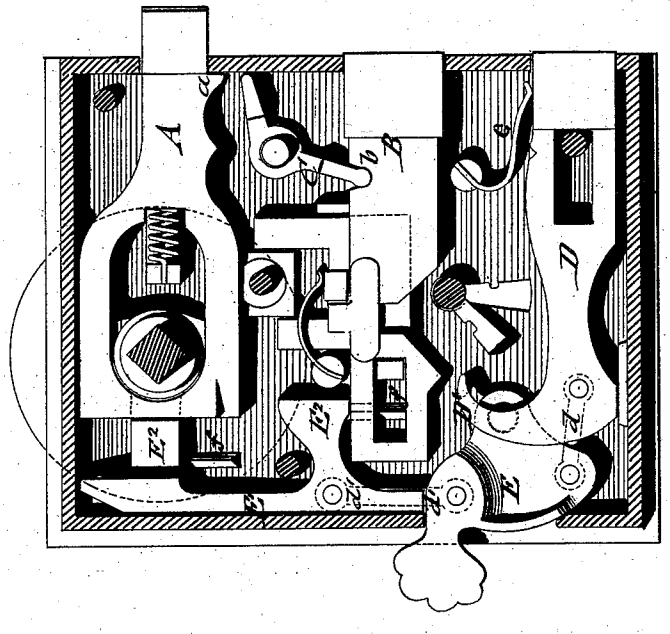


Fig. 1.



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IMPROVEMENT IN LOCKS FOR DOORS.

Specification forming part of Letters Patent No. **192,724**, dated July 3, 1877; application filed May 28, 1877.

To all whom it may concern:

Be it known that I, ELAM WIKE, of Dayton, in the county of Montgomery and State of Ohio, have invented a new and Improved Door-Lock, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved door-lock, showing it in open position; and Fig. 2 is a side view of the same as closed.

Similar letters of reference indicate corresponding parts.

The invention has reference to an improved burglar-proof door-lock which locks the latch on throwing the key-bolt, and the latch-key and key-bolt on throwing the night-bolt, forming thus a superior safety door-lock that cannot be tampered with from the outside, as the key cannot be pushed in, or a skeleton-key inserted, or any one of the bolts opened.

The invention consists of the combination of the latch, key-bolt, and night-bolt with a cam-piece and sliding lock-piece, and, finally, of the guard-extension of the night-bolt for locking the key in position.

In the drawing, A represents the latch, which is opened by the knob, and thrown again, on the release of the knob, by a spiral spring, in the customary manner. B is the key-bolt, which is operated in the usual manner, but connected by a fulcrumed crank or elbow-lever, C, with the latch A, the ends of the elbow-lever bearing against a curved shoulder, *a*, of the latch, and into a rounded-off recess, *b*, of the key-bolt B, so that when the latter is thrown the latch is rigidly locked and prevented from being drawn back, as shown in Fig. 2. Thus, a twofold locking arrangement is provided by merely throwing the key-bolt.

A night-bolt, D, is arranged below the key-bolt, and operated by a pivoted cam-lever, E, that extends to the outside of the lock, and is worked by the fingers along the side of the same. The night-bolt D is connected, by a pivot-link, *d*, with the cam-lever, and acted upon by a snap-spring, *e*, when thrown.

The cam-lever E is also connected, by a pivot-link, *d'*, with a slide-piece, E^1, that is guided along suitable rails *f*, and along the side of lock-case, at right angles to the latch, key-bolt, and night-bolt, and provided with rectangular extensions E^2, of which the upper extension passes into a central recess of the latch A, and the lower extension E^2 passes above the key-bolt B when the night-bolt is in open position, said extensions, however, sliding both down on the throwing of the night-bolt behind the solid portion of the latch and behind the key-bolt, so as to lock both thereby, in addition to the locking devices already described. The cam-lever and slide-piece form thus a bar to the three bolts, and prevent the withdrawing of the key-bolt and latch before the night-bolt is withdrawn.

The rear end of the night-bolt D is provided with a curved or hook-shaped upward extension, D', that serves to lock the key between the same and the key-bolt when turned into horizontal position, as shown in Fig. 2, to admit the passage of the extension D' below the key when closing the night-bolt. The key is thereby locked into a fixed position without the possibility of being removed from the outside, thus preventing the insertion of another key. This extension of the night-bolt forms an additional safeguard to the lock.

The lock has furthermore the advantage that the night-bolt cannot be thrown except when the key-bolt is thrown, which forms a very useful feature, as it prevents children from using the night-bolt and locking the door when the same is not required to be locked. Thus, a safety-lock of simple but effective construction is furnished, which is capable of producing a number of checks or safeguards by only two motions—namely, by the throwing of the key and of the night-bolt.

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

1. The combination, in a door-lock, of the latch A, key-bolt B, and night-bolt D with the cam-lever E and slide-piece E^1, having

locking-extensions E^2, substantially as shown and specified.

2. The combination in a door-lock, with the latch and key-bolt, of a slide-piece, E^1, having extensions E^2, of which the lower rests on the key-bolt when the latter is in open position, to prevent throwing of night-bolt, substantially as specified.

3. In a door-lock, the night-bolt D, having curved or hook-shaped rear extension D′, to secure the key in locked position, as set forth.

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Witnesses:
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