

A. Leich,

Door Lock.

N^o 62,645.

Patented Mar. 5, 1867.

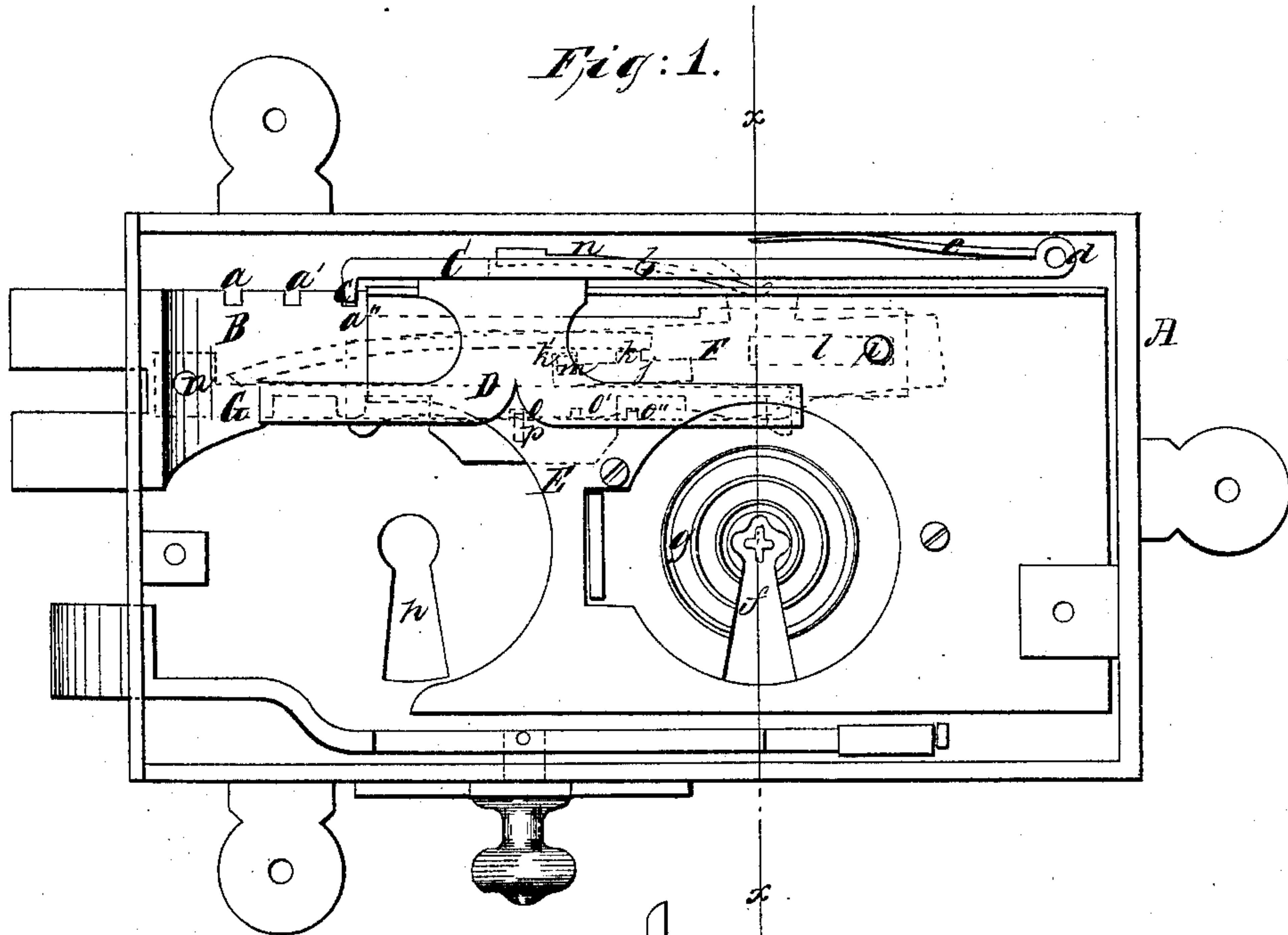
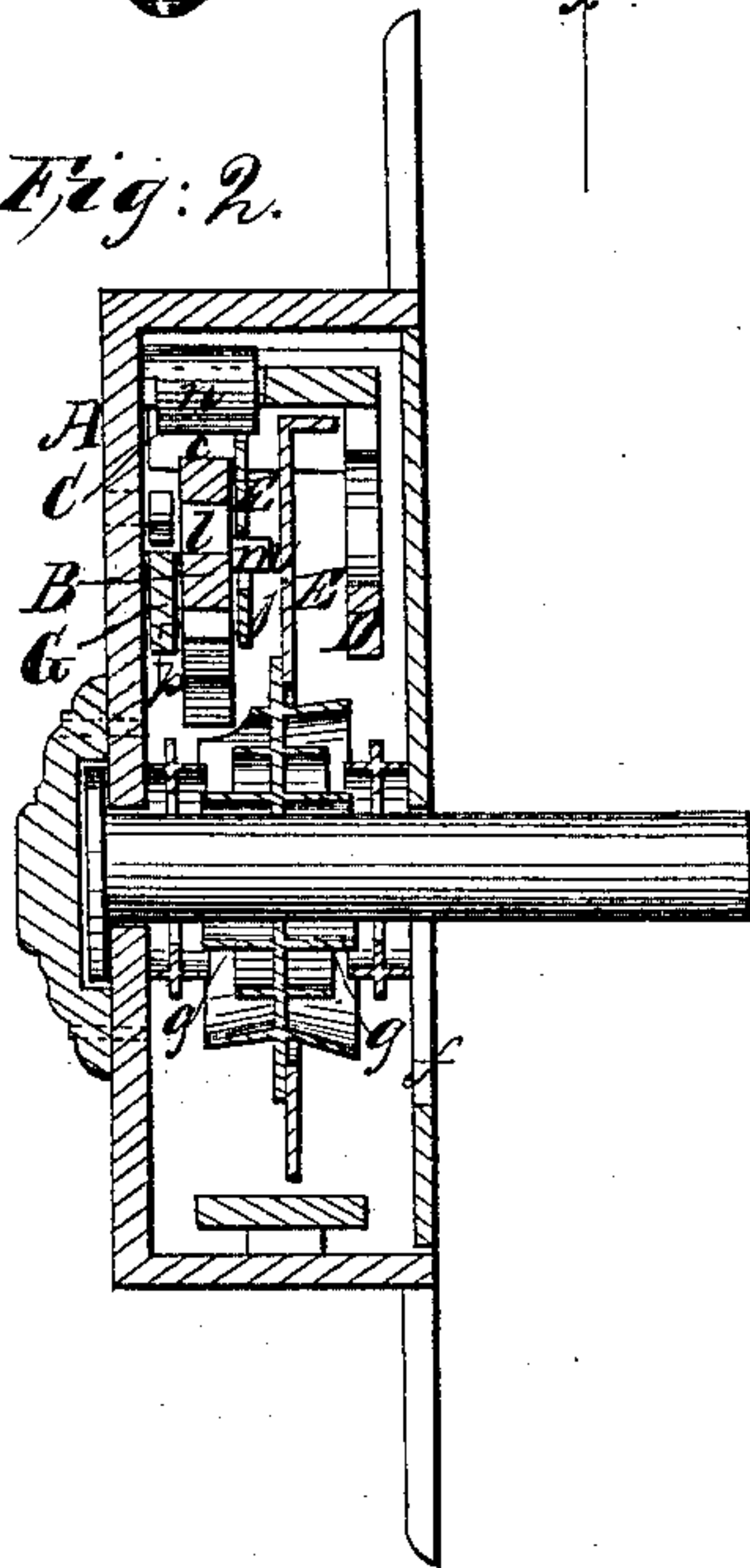


Fig: 2.



Witnesses:
Alex F. Roberts

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United States Patent Office.

ADAM LEICH, OF BROOKLYN, NEW YORK.

Letters Patent No. 62,645, dated March 5, 1867.

IMPROVEMENT IN 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, ADAM LEICH, of Brooklyn, in the county of Kings, and State of New York, have invented a new and improved Burglar-Proof Lock; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an internal view of a lock with my improvement applied to it.

Figure 2, a transverse vertical section of the same, taken in the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

This invention consists in applying three checks to the bolt of the lock in such a manner that the whole three of the checks will require to be operated upon by the key at the same time, and held in a position free from the bolt while the bolt is moved by the key. The invention also consists in combining with the three checks, aforesaid, a partition plate, so arranged as to prevent the bolt and checks being operated upon except by a proper key.

A represents the case of the lock, which may be constructed in the usual or any proper manner, and B is the bolt, so arranged as to slide freely when set free and acted upon by a proper key. In the upper edge of the bolt B there are made, at equal distances apart, three notches, *a a' a''*, all of which are shown in fig. 1; and C is a catch or check composed of a plate, *b*, bent or curved down at one end, as shown at *c*, to form a lip to catch into the notches *a a' a''*, and having its other end fitted loosely on a pin, *d*; a spring, *e*, being attached to the plate to cause the lip *c* to engage with said notches, as will be fully understood by referring to fig. 1. The plate *b* has a bar, D, attached to it, the form of which is shown clearly in fig. 1, and this bar D extends down over or in front of a partition plate, E, secured in the lock, and covering the bolt B, said plate being between the bolt and the outside key-hole *f* of the lock. Within the lock, and in line with the outside key-hole *f*, there are placed a series of wards, *g*, which will admit of the entrance of a proper key only; the other key-hole *h*, which admits of the insertion of the key at the inside of the door, does not, of course, require any wards. On one side of the bolt B there is placed a catch or check, F, which is composed of a flat plate fitted at one end on a pin, *i*, and having an oblong slot, *j*, made in it, with the notches *k k'* in its upper side, as shown by the dotted lines in fig. 1. The pin *i* is attached to the lock-case A, and passes through an oblong slot, *l*, in the slide-bolt, also shown by dotted lines in fig. 1. The slide-bolt has a pin, *m*, projecting laterally from it, which extends through the slot *j*, and the plate F has a spring, *n*, pressing or bearing upon it, by which the pin *m* is made to engage with either of the notches *k k'* of slot *j*. G is a catch or check, which is placed at the opposite side of the bolt between the latter and the inner side of the lock-case. This catch or check works on a pin, *o*, and it has three notches, *o' o''*, made in its under side to receive a pin, *p*, on the bolt. These three different checks, it will be seen, require to be all acted upon at the same time by the key in order that the bolt may be liberated, and as the partition plate E is interposed between the catch or check F, and the bar D of the catch or check C, and the outer key-hole *f* provided with wards, *g*, it will be seen that the lock is rendered extremely intricate to pick.

I am aware that catches or checks have been applied to lock-bolts, but I am not aware that they have been applied to opposite sides of the bolt, and in connection with a partition plate and wards, as herein shown and described.

I claim, therefore, as new, and desire to secure by Letters Patent—

1. The catches or checks C F G, applied to opposite sides of the bolt B, in combination with the partition plate E, arranged in relation with the bolt and the bar D of the catch or check C, substantially as and for the purpose set forth.

2. The wards *g*, placed in line with or applied to the outer key-hole *f*, in combination with the partition plate E, and the catches or checks C F G, all arranged substantially as herein shown and described.

The above specification of my invention signed by me this 10th day of October, 1866.

ADAM LEICH.

Witnesses:

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