

R. Vollschwitz,

Lock.

N^o 51,498. Patented Dec. 12, 1865.

Fig. 2

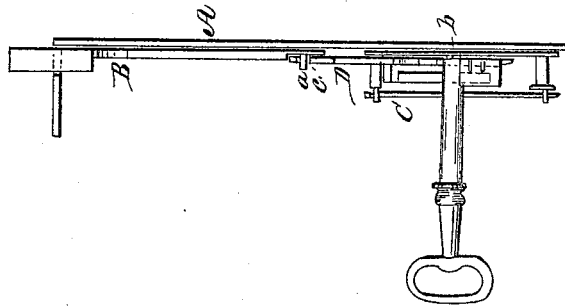
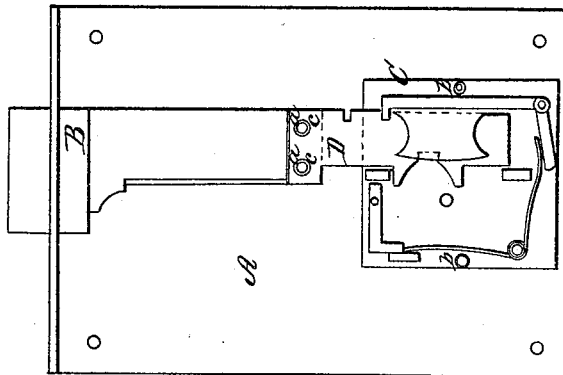


Fig. 1



Witnesses
Wm. Brown
Wm. Covington

Inventor;
Rudolph Vollschwitz
By Wm. L. Munnell
attys

UNITED STATES PATENT OFFICE.

R. VOLLSCHWITZ, OF NEW YORK, N. Y.

IMPROVEMENT IN LOCKS.

Specification forming part of Letters Patent No. 51,498, dated December 12, 1865.

To all whom it may concern:

Be it known that I, RUDOLPH VOLLSCHWITZ, of the city, county, and State of New York, have invented a new and useful Improvement in Locks; 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 represents an inverted plan of this invention. Fig. 2 is a longitudinal vertical section of the same.

Similar letters of reference indicate like parts.

This invention consists in combining with the sliding bolt and lock-plate a small detachable case containing the mechanism for locking and unlocking, from which a false bolt projects, the head of which is provided with holes to drop over studs or pins in the inner end of the shank of the sliding bolt, in such a manner that not more than two holes are required in the lock-plate to receive pins or rivets, for the purpose of securing to the same the case containing the mechanism for locking and unlocking, and the same case can be used for lock-plates of different size, nothing being necessary for different-sized locks but to change the length of the shank of the sliding bolt.

A represents the main or front plate of a lock of that class which are generally used for drawers, cupboards, wardrobes, book-cases, and all such doors or articles in which the locking and unlocking are always effected from the outside and never from the inside. The front end of the plate is turned up and provided with a slot to receive the head of the sliding bolt B, the shank of which is provided at its inner end with two studs, *a*, the object of which will be presently explained.

C is a case which contains the mechanism for locking and unlocking, and which is composed of a bottom and top plate similar to locks of the ordinary construction. This case is fastened to the lock-plate A by means of two pins or rivets, *b*, which project from said lock-plate through suitable holes in the bottom

plate of the case, and which are the only pins or studs required to be fastened in the lock-plate.

From the case projects the false bolt D, the head of which is provided with two holes, *c*, capable of dropping over the studs *a* in the inner end of the shank of the sliding bolt B, so that the reciprocating motion imparted by the key to the false bolt D is communicated to the bolt B.

The mechanism for locking and unlocking is so constructed that it can be inclosed in a case of the smallest possible size conformable with the requisite strength, and cases of one and the same size can be used for lock-plates of different sizes simply by shortening or lengthening the shanks of the sliding bolts B.

By this arrangement the manufacture of this class of locks is greatly simplified. The cases C, being all of one and the same size, require only one set of punches and dies; and the holes in the lock-plates for the rivets or pins *b* can also be made with the same punch and die, independent of the size of the lock to be produced, so that nothing is required but to punch the four holes in the corner, whereas with locks of the ordinary construction a separate set of dies and punches is required for locks of every size. Furthermore, the lock-plates of my locks contain only two rivets, and they can therefore be easier polished, and their surface is less liable to show a pin or rivet than the plates of ordinary locks, which contain a number of studs and rivets, and the additional cost in stock can be reduced in my locks by reducing the thickness of the lock-plates, which, having to sustain no strain, can be taken very light.

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

The case C, with the mechanism for locking and unlocking, in combination with the lock-plate A and bolt B, all constructed and arranged substantially as and for the purpose described.

RUDOLPH VOLLSCHWITZ.

Witnesses:

M. M. LIVINGSTON,
C. L. TOPLIFF.