

M. ADLER.  
Safe-Bolt Work.

No. 201,146.

Patented March 12, 1878.

Fig. 1.

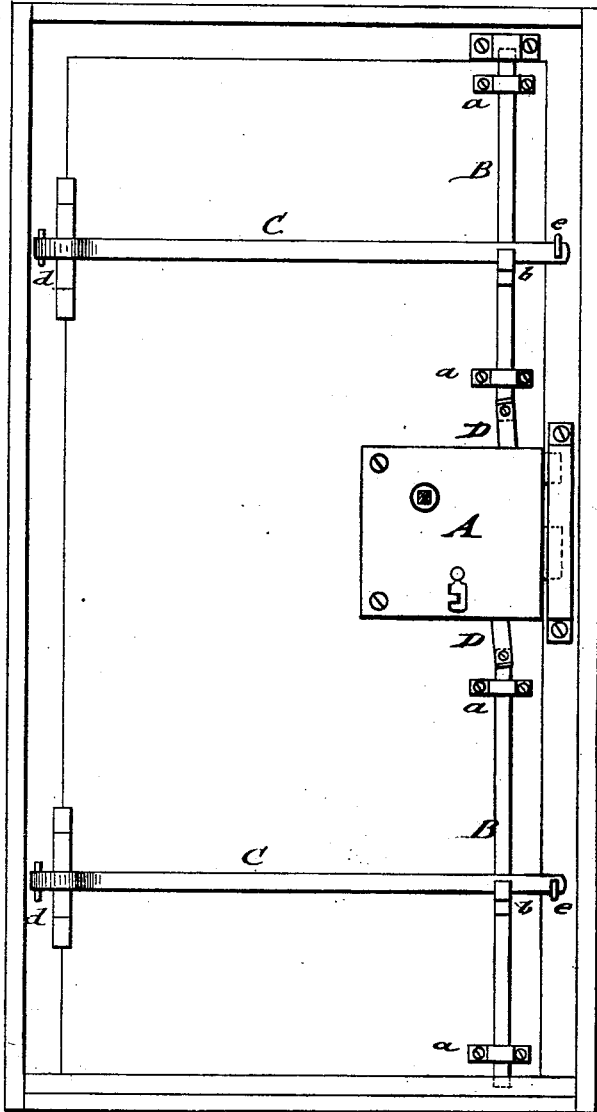


Fig. 2.

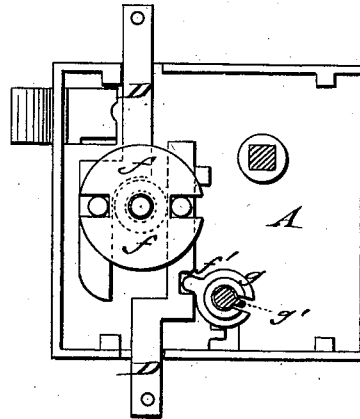


Fig. 3.

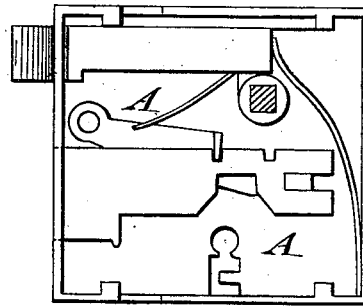
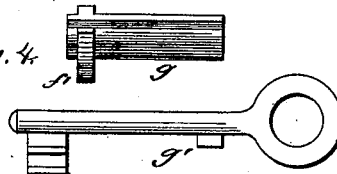


Fig. 4.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN SAFE BOLT-WORKS.

Specification forming part of Letters Patent No. **201,146**, dated March 12, 1878; application filed February 11, 1878.

*To all whom it may concern:*

Be it known that I, MAYER ADLER, of the city, county, and State of New York, have invented a new and useful Improvement in Bolting Doors, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a door with my improved system of bolts. Figs. 2 and 3 are sectional side elevations of the door-lock by which the bolts are operated, and Fig. 4 shows detail side views of the key-socket and key.

Similar letters of reference indicate corresponding parts.

The object of this invention is to secure doors of all kinds in strong and burglar-proof manner at the inside simultaneously with the locking of the door from the outside. The system of bolting is specially adapted for doors of stores, warehouses, residences, &c., especially as the different parts may be easily applied, and, if desired, at any time removed.

The invention consists of vertical sliding and lateral swinging bolts, that are jointly operated by coupled pivot-rods of the lock, which are extended beyond the lock or drawn back by a key-socket and cam, actuated by a lug of the key.

Referring to the drawing, A represents a door-lock of any approved construction; B, the vertical door bolts or bars, and C, the lateral or cross bars.

The vertical bolts B are guided in straps or bands *a*, screwed to the door, and thrown into sockets at the top of the door-casing, and of the sill when closed.

The vertical bolts support, in projecting seats *b*, the lateral bars, which are hung by end sleeves to fixed pintles *d* of the door-casing, so as to swing easily with the door into open or closed position.

The end sleeves of the lateral bars are of sufficient width to admit also the vertical swinging of the lateral bars by the action of the vertical bolts, so as to enter the locking-staples *e* at the opposite side of the door-casing, or clear the same.

The vertical bolts B are pivoted to short vertical rods D, that extend beyond the top and bottom of the door-lock A, and are connected at the interior of the same by a cen-

trally-pivoted crank-disk, *f*. The rod D next to the key-hole is recessed for the entrance of a cam, *f'*, of a slotted key-socket, *g*, that is turned by a lug, *g'*, of the key-stem simultaneously with the throwing of the lock-bolt.

The locking of the door by the lock causes thus the simultaneous motion of the pivot-rods D, which are pushed in outward direction, so as to lift and lower the upper and lower vertical and lateral bolts, and secure thereby the door in strong and effective manner. The withdrawing of the door-bolt causes also the drawing in of the pivot-rods, and thereby the releasing of the locking-bolts from the sockets and staples. The door may thus be bolted from the outside in very reliable manner, the actuating-lug of the key and the key-socket of the lock forming an additional safeguard to prevent tampering with the lock. The additional bolts may be quickly applied to the door, and also removed, in case it is desired, by lifting out the lateral bars and detaching the vertical bars from the pivot-rods of the lock.

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

1. The combination of the vertical bolts B and connected lateral bolts C with the pivot-rods D of the lock, in such a manner that the bolts are thrown or withdrawn simultaneously with the locking or opening of the door-lock, substantially as and for the purpose set forth.

2. The combination of the additional locking bars or bolts of the door with the crank-connected pivot-rods D, that are actuated by the cam of a slotted key-socket and lug or projection on the key-stem simultaneously with the door-lock, substantially as and for the purpose set forth.

3. The combination of the vertical sliding bolts or bars that are operated by the lock, and of the swinging lateral bolts supported on seats of the vertical bolts, with top and bottom sockets and side pintles and staples of the door-casing, substantially as described.

MAYER ADLER.

Witnesses:

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