

T. Dolan,
Lock.

N^o 59,981.

Patented Nov 27, 1866.

Fig 1

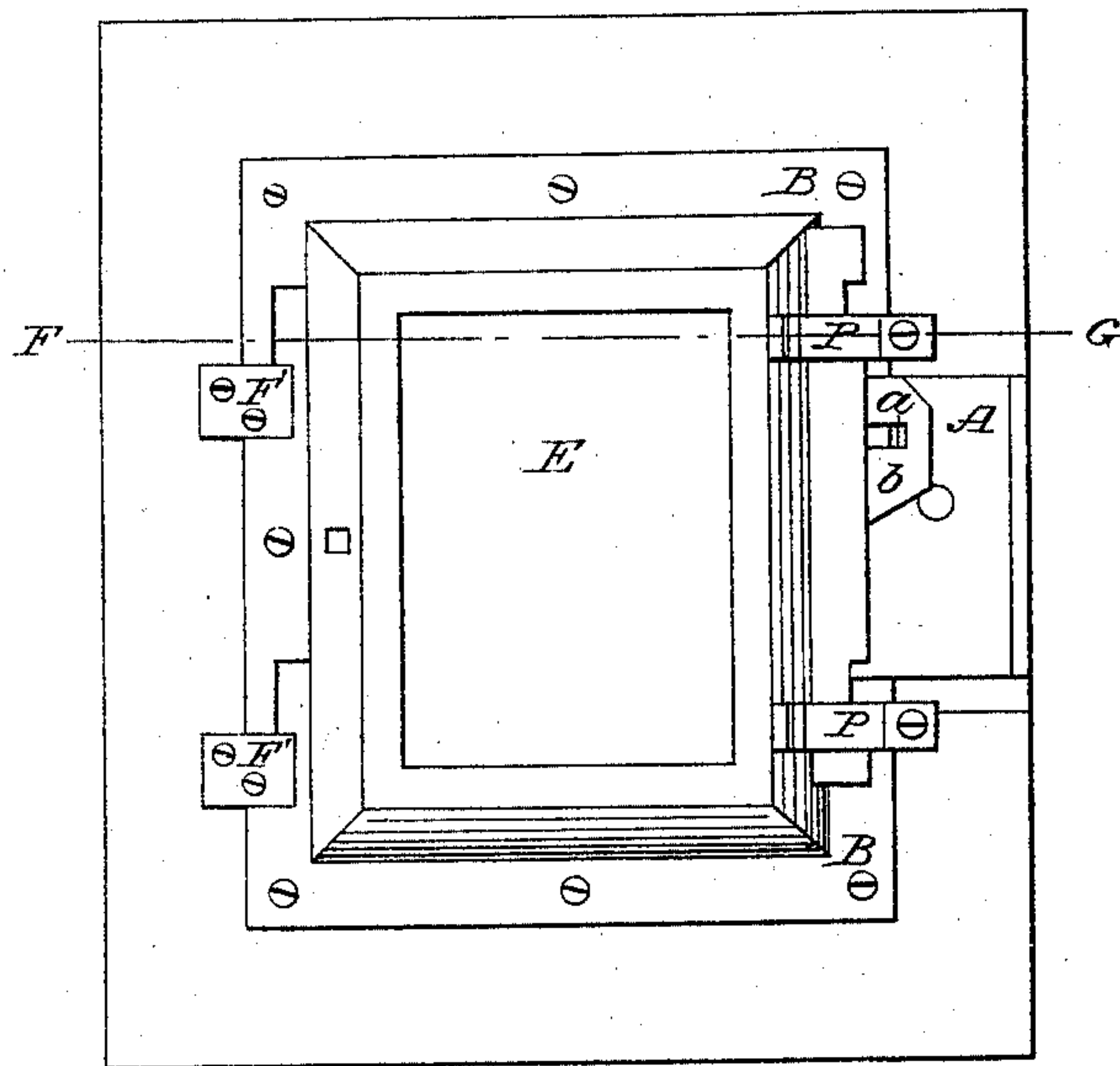


Fig 2.

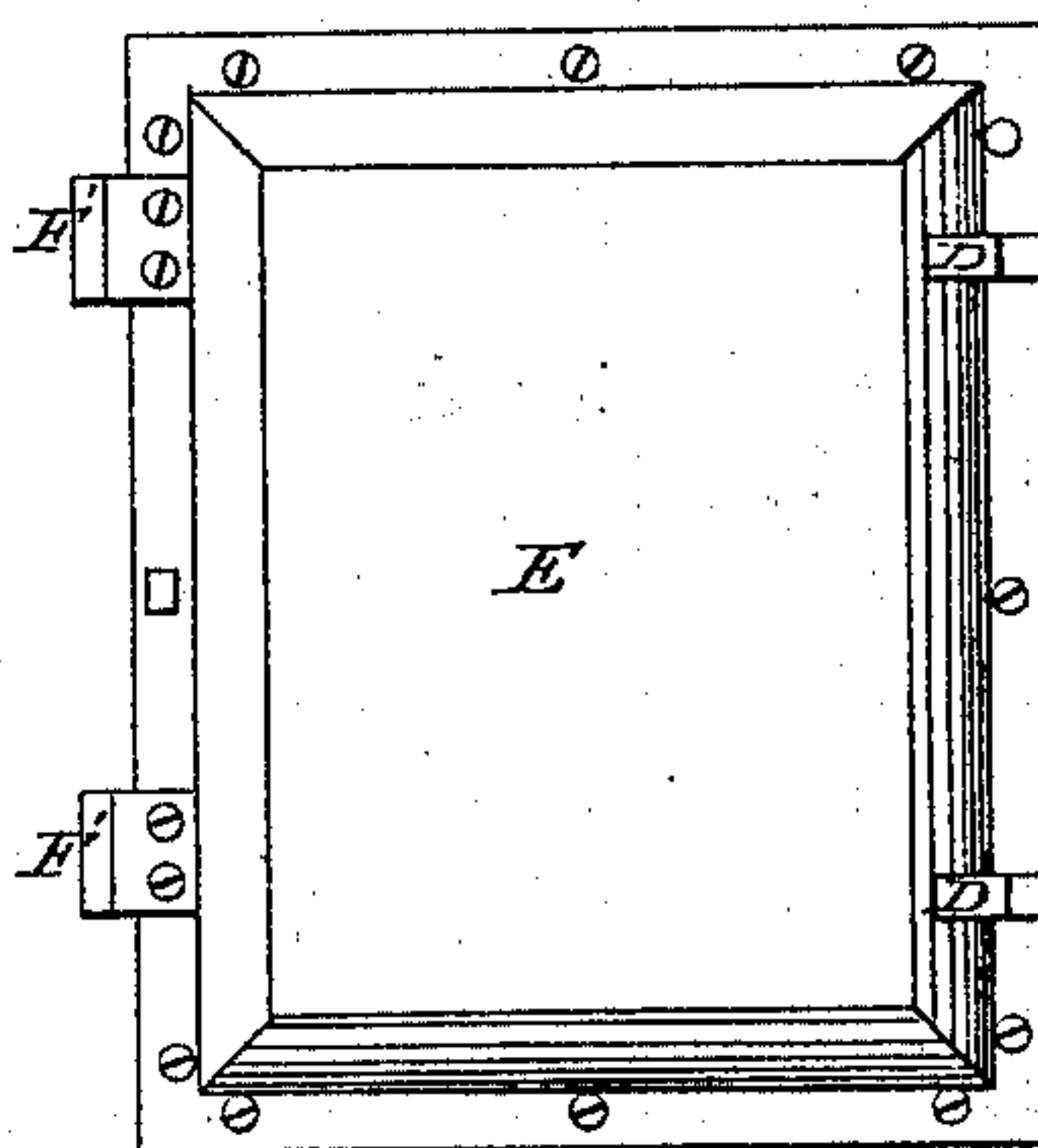


Fig 3

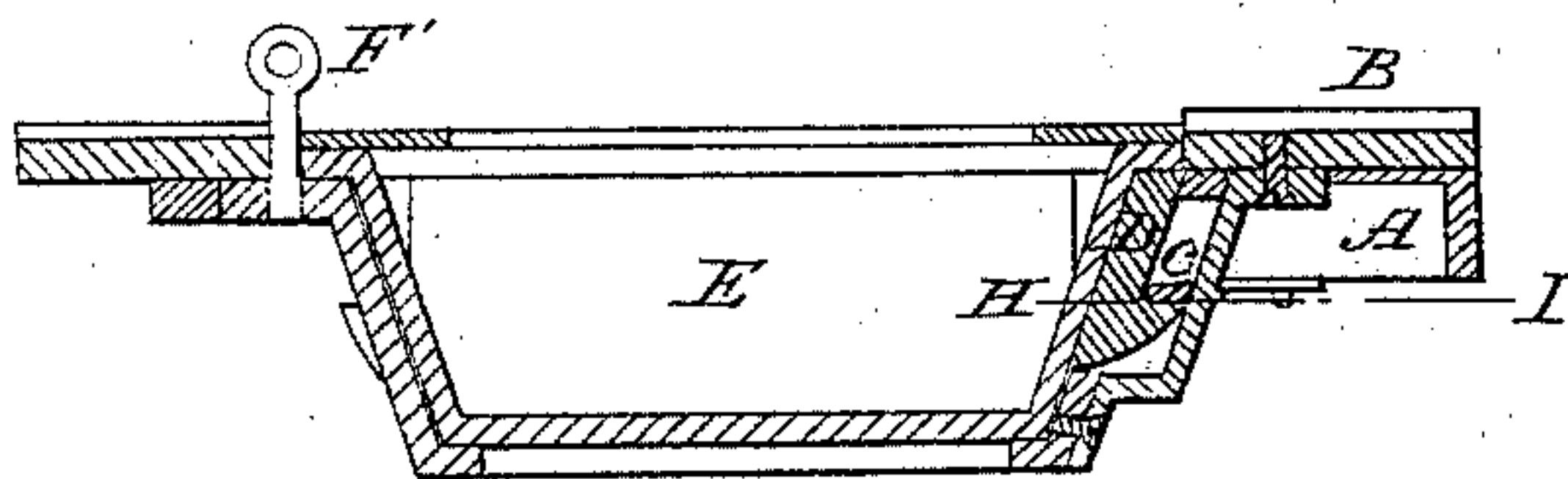
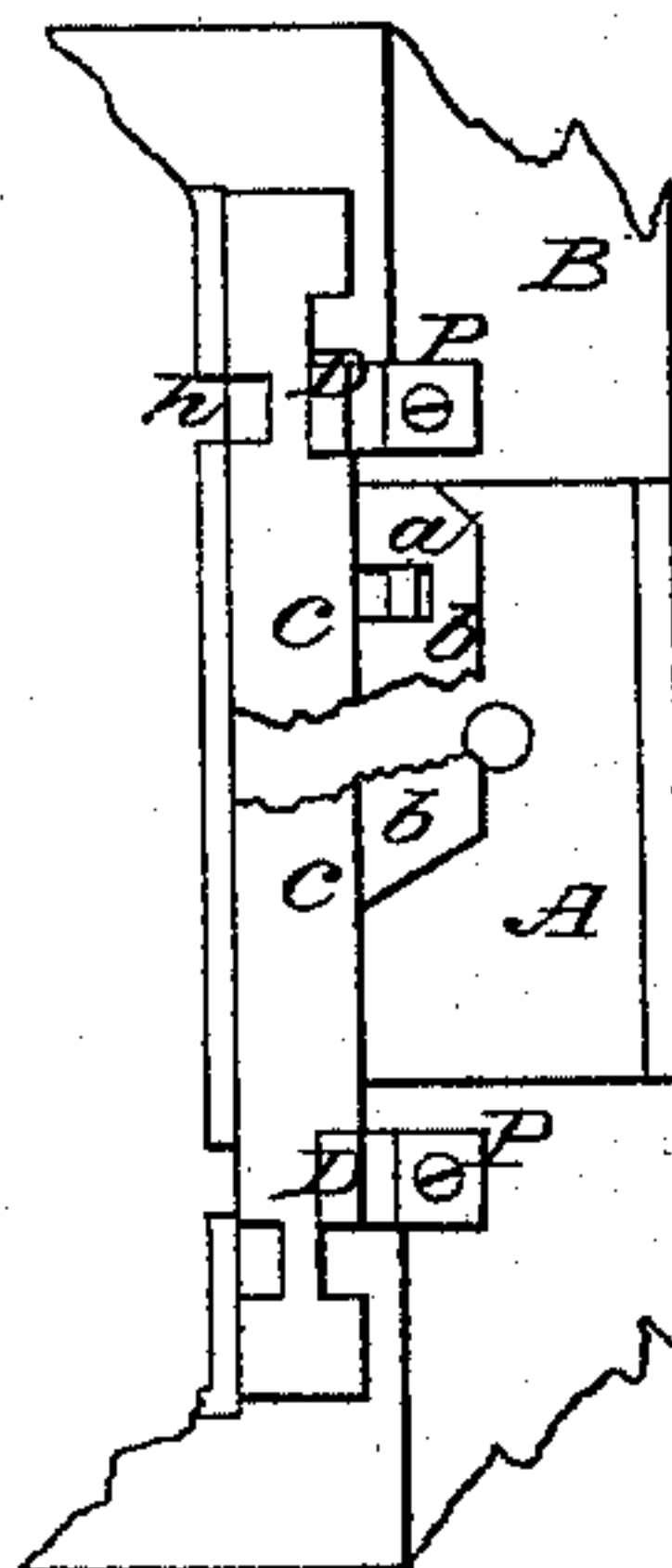


Fig 4.



Witnesses:

James Allen
Nathan Swartz

Inventor:

Thomas Dolan.

United States Patent Office.

IMPROVEMENT IN ATTACHING LOCKS TO SAFES, VAULTS, &c.

THOMAS DOLAN, OF ALBANY, NEW YORK:

Letters Patent No. 59,981, dated November 27, 1866.

SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS DOLAN, of the city and county of Albany, in the State of New York, have invented a new and useful Method of Attaching Locks to Fire-Proof Safes, Vaults, etc.; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is an inside elevation of a safe-door and door-frame, having the lock applied according to my invention.

Figure 2 is an inside elevation of the door, as detached from the safe.

Figure 3 is a horizontal section of the door and door-frame in the plane indicated by the line F G, fig. 1.

Figure 4 is a sectional elevation of the lock and the contiguous portions of the door and door-frame, the plane of section being indicated by the line H I, fig. 3.

Similar letters of reference indicate corresponding parts in the several figures.

The subject of this invention is a novel means of constructing and applying the locking devices of safes, vaults, and similar structures. The lock is located in or applied to the frame of such structure instead of being applied to the door, as heretofore practised, and is made to operate a sliding bar, which is also applied to the door-frame, and which, when in one position, shall engage with dogs or catches on the door, and thus securely hold the latter in its closed position, but which, when in another position, shall release said dogs or catches, and permit the door to be opened.

In order that others skilled in the art to which my invention appertains may be enabled to fully understand and use the same, I will proceed to describe it in connection with the accompanying drawings.

A may represent a lock secured to the inner side of the door-frame, B, of the safe, vault, or other structure with which it is to be employed. This lock may be constructed with a cylindrical hub, shown at 4, which is adapted to be partially rotated by a key, and through any suitable connections, such as a stud at a, working in a slotted plate, b, is made to elevate and depress a sliding and locking bar, C. E is the door, hung upon hinges, F', and provided at its opposite side with dogs, or catches, D, which may be attached to the door by any suitable means, or cast solidly in one piece therewith. Now, when the locking bar, C, is elevated, the recesses or notches, h h, (see fig. 3,) stand in line with the dogs, D, on the door, so that then the door may be opened or closed, as the said notches permit the dogs to pass across the plane of the bar, C, without being retarded. In order to lock the door, the bar, C, is depressed after the door is closed, and the notches, h, being thus thrown out of line with the dogs, the shoulders of the latter become engaged with the bar and the door is securely locked in its closed position. In fig. 4 the locking bar is represented as being divided in the middle, the figure being thereby made to illustrate the locking and unlocking positions of the said bar, C. The locking bar is properly confined in its operating position by the guides, P P, which are screwed or otherwise attached to the frame, B. The frame affords a more secure and stationary seat for the lock, and by locating the latter therein, as described, I am enabled to construct a safe or vault door with greater facility, and at a less cost than those made upon the plans hitherto devised.

Having thus described my invention, the following is what I claim as new herein, and desire to secure by Letters Patent:

I claim a locking mechanism for safes, vaults, etc., consisting of a lock A, and notched sliding bar C, applied to the door-frame, and dogs, or catches, D, applied to the door, all constructed, arranged, and operating substantially as and for the purpose herein set forth.

THOMAS DOLAN.

Witnesses:

WILLIAM WAIT,
ALVA H. TREMAIN.