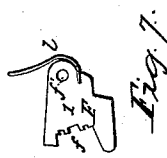
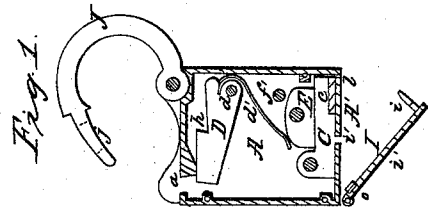
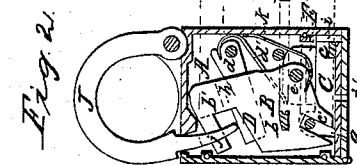
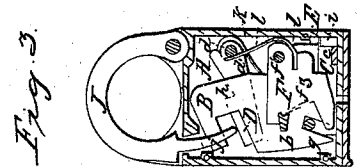
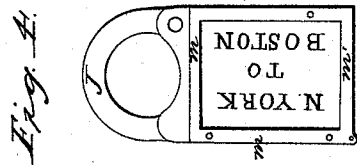
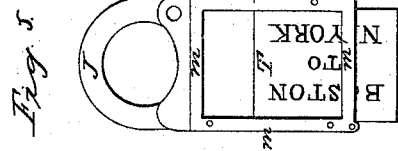
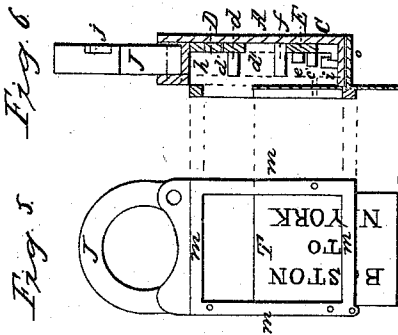


*J. L. Chambers,  
Indicator Lock.*

*N<sup>o</sup> 70,409.*

*Patented Nov. 5, 1867.*



*Witnesses:  
John D. Bloor  
J. L. Kistwill*

*Inventor:  
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# United States Patent Office.

J. L. CHAMBERS, OF BROOKLYN, NEW YORK.

Letters Patent No. 70,409, dated November 5, 1867.

## IMPROVEMENT IN REGISTER-PADLOCK.

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, J. L. CHAMBERS, of the city of Brooklyn, county of Kings, and State of New York, have invented certain new and useful improvements in Tablet-Locks for Mail-Bags, Freight Cars, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, and to the letters of reference marked thereon, making part of this specification, in which—

Figure 1 is a plan view of the lock, the face-plate being removed, as well as the tumblers and main bolt, only leaving that portion of the mechanism which is permanently attached to the bottom of the case.

Figure 2 is a plan view of the above, with the main bolt attached, and also side view of the main bolt.

Figure 3 is a plan view of the lock, the face being removed, and showing the entire mechanism.

Figure 4 is a plan view of lock with tablet attached.

Figure 5 is a plan view of the lock with tablet partially withdrawn.

Figure 6 is a side sectional view of No. 1.

Figure 7 is a plan view of one of the series of tumblers.

Figure 8 is a plan and side view of the lower bolt; and

Figure 9 is a plan view of key.

The nature of my invention consists in constructing a lock with two independent bolts, which are so arranged that they act together, simultaneously locking both the hasp and the bottom lock, said bolts being operated by a series of tumblers, which are worked by means of a flat key.

My invention also consists in constructing a "tablet-lock." On the face of the lock, by means of flanges, having projecting lips or other equivalent device, I arrange a suitable frame to receive the tablet. Three sides of this frame are permanently secured to the face of the lock, while the bottom is slotted, in order to allow of the free insertion and withdrawal of the tablet, as occasion may require. The slot in the lower portion of the tablet-frame is entirely closed, by means of the bottom of the lock, so that when the lock is fastened the tablet is permanently secured in position, and cannot be interfered or tampered with until the lock is again unfastened, which removes the bottom of the lock from the slot, leaving the latter perfectly free.

In order to enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is the lock-case, which is constructed in the usual manner. To the case A is secured the hasp J. The hasp J is furnished with a slot, *j*, which receives the main bolt, which secures the hasp when the lock is fastened. To the bottom of the case A is permanently attached the boss E. The lower portion of this boss E is perfectly straight, and serves as a guide for the lower bolt C, which works between the boss E and inner casing A'. On this bolt C there is a raised ledge, *c*, by means of which the bottom I is held in position when the lock is fastened, the bottom I being provided with a hasp or catch, *i*, through which passes the ledge *c*. This bottom plate I is firmly secured to the lock, and is furnished with a small spring, *e*, the object of which is to throw the bottom I out of position the moment the lock is unfastened. To the bottom of the case A, by means of the pivot-bolt *d*, is attached the hasp-dog or check D. This pivot-bolt *d* projects sufficiently far above the dog D to furnish a suitable bearing for the unattached end of the springs *l*, which are secured to the tumblers F. The check or dog D is provided with a recess, *h*, so arranged as to receive the boss *b'*, which is on the main bolt B. Motion is imparted to the dog D by means of the spring *d'*, one end of which is permanently attached to the dog, while the free end rests against the upper portion of the boss E. On the upper face of the boss E there is a stump, *e*, which receives and on which works the main bolt B. This main bolt B is provided with a boss, *b'*, as already stated, which rests in the recess *h* when the lock is unfastened, but whose projecting head enters the slot *j* when the lock is fastened, and securely holds the hasp J. It will be observed that a space only sufficient to allow of the free action of the bolt B is left between its upper edge and the lock-case. The object of this is, if an attempt should be made to force the hasp when the lock is fastened, the bolt will be brought in contact with the case, thus freeing the bolt of much of the strain, transferring the same to the case. There is attached to the main bolt B a spring, *k*, the free end of which rests against the side of the case. The tendency of this spring is to retain the bolts in a closed condition until such time as the tumblers are acted upon by the key K. The main

bolt B is also provided with a catch-check, *b*, and a slot, *g*. In this slot *g* enters and works the stump *c'*, which is secured to the upper head of the bolt C, and by means of which, acting on a principle similar to the cam, an alternating motion is imparted to the bolt C, the direction of whose action is by this means invariably controlled by and is simultaneous with the action of the main bolt B. F F F are tumblers, which are attached to and revolve upon the pin *f'*, which is secured to the bottom of the case A. These tumblers are each provided with a spring, *e*, one end of which is firmly attached to the tumbler, while the other end rests against the bolt *d*. The position of these tumblers, except when acted upon by the key, as well as the entire mechanism, is as shown in fig. 3. On the face-plate of the lock there are formed three flanges, one at the top and one on each side, leaving the bottom open. On these flanges rest the frame *m*, projecting sufficiently far to form, as it were, inner lips to the flanges. This frame *m* also projects sufficiently far over the lower end of the lock to completely cover the bottom plate when the lock is fastened. By means of the slot between the frame and the face-plate, the tablet T can readily be inserted and withdrawn. But so soon as the lock is fastened, the bottom plate I completely closes the slot, and renders it impossible to interfere with the tablet, unless the lock be opened.

The operation of my invention is as follows: I use a flat key, *k*, of the form shown in fig. 9. The tablet T being inserted, as shown in figs. 4 and 5, the key enters the hole *i*, and is brought in immediate contact with the tumblers, which are forced until the catch-check *b* has entered the slot *f* of each tumbler; the main bolt B is then moved, which gradually withdraws the bolt-head out of the slot *j*, and at the same time, by means of the slot *g* and stump *c'*, forces the bolt C back, which withdraws the flange *c* on the bolt C out of the slot *i* of the bottom I. As soon as the bolt-head of the main bolt B, and the flange *c* of the lower bolt C are free of the slots *j* and *i* of the hasp J and bottom plate I, the recoil of the spring *d'*, attached to the dog D, forces the dog against the hasp with sufficient force to drive the hasp entirely clear of the opening *a*, while at the same time the spring *o* throws the bottom plate I entirely out of its former position, as clearly shown in fig. 1, when the tablet can be withdrawn and reversed, or a new one inserted, as occasion may require.

Having thus fully described my invention, what I claim therein as new, and which I desire to secure by Letters Patent, is—

1. Constructing a lock with two independent bolts, which are so arranged as to act together, simultaneously locking both the hasp and bottom plate of the lock, said bolts being operated by a series of tumblers, which are worked by means of a flat key, substantially as described.

2. Securely locking the tablet in position by means of the bottom plate I, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

J. L. CHAMBERS.

Witnesses:

JOHN S. HOLLINGSHEAD,

JOHN D. BLOOR.