

J. Post, Latch.

N^o 49,298.

Patented Aug. 8, 1865.

Fig: 1.

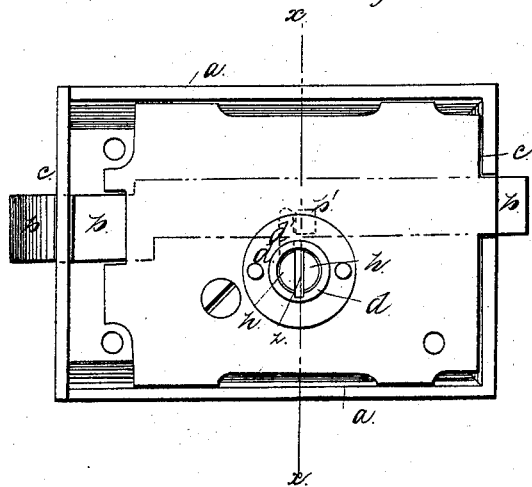


Fig: 2.

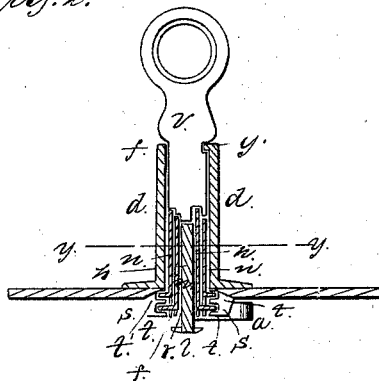


Fig: 4.

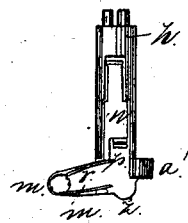


Fig: 3.



Witnesses:

Wm. Brown
Geo. Tinsch

Inventor:

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per Munn & Co
Attorneys

UNITED STATES PATENT OFFICE.

JACOB POST, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN LOCKS.

Specification forming part of Letters Patent No. **49,298**, dated August 8, 1865.

To all whom it may concern:

Be it known that I, JACOB POST, of Newark, in the county of Essex and State of New Jersey, 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 those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention consists in the use of a series of tumblers placed within the sides of the turning part or cylinder, and so arranged therein as to be adjusted by the turning movement of the key, so as to pass through the bridges of the lock when desired to withdraw the lock bolt or latch, they being retracted or thrown back to their original positions when the key is removed from the lock by means of a series of bent or other suitable springs.

In the accompanying plate of drawings my improvement is illustrated, Figure 1 being a view of one side of the lock; Fig. 2, a transverse section of the operating devices for moving the bolt or latch of the lock, taken in the plane of the line *x x*, Fig. 1; Fig. 3, a cross-section taken in the plane of the line *y y*, Fig. 2; and Fig. 4, a side view of the turning cylinder or part of the lock with its tumblers in place.

a a in the drawings represent the box or casing containing the latch-bolt *b*, in which it moves through suitable guiding-apertures in its end pieces; *c c*, it being arranged substantially in a similar manner to that described in the specification accompanying another application made by me this day for Letters Patent on an improved latch-lock, and therefore needs no particular description herein.

To one side of the lock-box, and projecting therefrom, is a hollow tube or casing, *d d*, made of sufficient length to extend through any of the ordinary thicknesses of materials used for house doors and other similar purposes, both ends of which are open, and the outer end, *f*, has a lip or edge, *g*, entirely around the same.

In the tube *d* is inserted the turning cylinder or part *h*, made of sufficient length to extend entirely through the same, resting by its end *l*, having a projecting arm, *m*, upon the opposite plate of the lock.

n n n n represent a series of tumblers, arranged two upon each side of the turning cylinder *h*, and with their flat sides toward each other in the cut-away portions or recesses *o o* of the same, which tumblers have their lower ends partially bent at right angles, or nearly so, to their main portion, the prong-pieces *p p* of each resting upon bent springs *r r* of the arm *m* of the tube.

At the lower opening of the tube, and either formed with the inner surface of the exterior plate of the lock to which the tube is secured, as before described, or attached thereto at points diametrically opposite to each other, are two bridges, *s s*, having grooves *t t*, corresponding to the number of tumblers upon each side of the turning cylinder, in and through which grooves the right-angular portions of the tumblers move as the turning cylinder in which they are arranged is turned by the key *v*, inserted within the opening or slot *z* of the same, the key being of the proper shape to move the tumblers sufficiently to bring their angular ends in position to move through the grooves of the bridges, as described, when the dog *a'*, upon the lower end of the cylinder, striking against the lug *b'* upon the bolt-latch, moves it in the proper direction to disengage or unlock it from the door, as is evident without further description.

By withdrawing the key from the tube of the lock the tumblers are retracted or thrown back by the force of the springs on which they rest, and into proper position for unlocking the latch again, the latch being thrown back as described in the other application hereinbefore particularly referred to.

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

The combination, in locks, of the turning cylinder *h*, with its series of tumblers *n n n*, outer casing or tube, *d*, and bridges *s s*, arranged together and operating substantially in the manner described.

JACOB POST.

Witnesses:

THOS. W. LANGSTROTH,
J. S. CRANE.