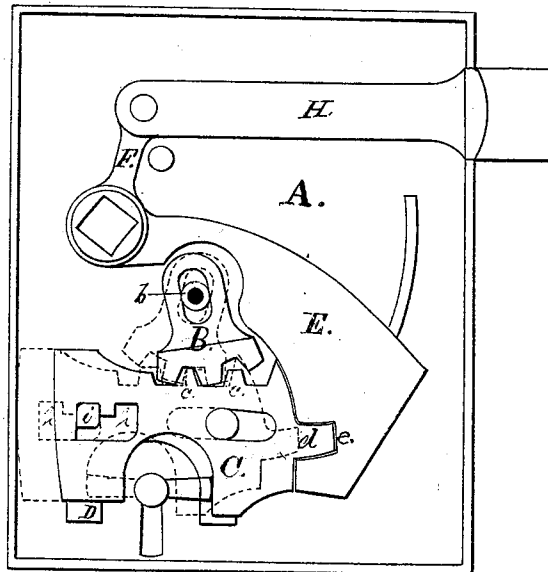


R. B. WARNER.
Locking-Latches.

No. 151,525.

Patented June 2, 1874.



Witnesses:~

Clarence Poole,
Baptist Whitney

Inventor:~

Robert B. Warner
By J. B. Worcester
Attorney

UNITED STATES PATENT OFFICE.

ROBERT B. WARNER, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LOCKING-LATCHES.

Specification forming part of Letters Patent No. **151,525**, dated June 2, 1874; application filed April 22, 1874.

To all whom it may concern:

Be it known that I, ROBERT B. WARNER, No. 218 North Second street, Brooklyn, East Division, in the county of Kings and State of New York, have invented certain new and useful Improvements in Locking-Latches for Doors and other purposes; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which is represented a front view of the working mechanism of my locking-latch.

My invention relates to door and cupboard latches, which may be locked to prevent unauthorized persons from entering or having access to the inclosure.

My improvement consists in the movable cog-segment weight, as constructed and arranged to operate in combination with a series of sliding cogged bolts, having notches therein, and intermediate stationary ward-plates, and a weighted lever and arm, to which the latch-bolt is attached, working by its own gravity, entirely dispensing with springs of any kind.

To enable others to make and use my improved locking-latch, I will describe it more in detail, referring to the drawing and the letters marked thereon.

The frame or box A, to which the parts are attached, and in which they are incased, may be made of wrought or cast metal, the same as other ordinary mortise-locks, the cap-plate being held in its place by a single screw, fitting the post or stud *v*, on which the cogged weight B is placed and held, the weight B having an oblong opening through it, so as to permit it to move up and down on the stud *v*, and also laterally at the same time, by the action of the series of sliding bolts C, which are provided with cogs *c c* to fit the cogs in the weight B, and also a projecting prong, *d*,

that fits into a notch, *e*, in the weighted lever E, and forms a lock to hold it from moving while the sliding bolts C are moved to the right. When the sliding bolts C are moved to the left by the action of the key the weighted lever E is released, and free to move or be lifted by the action of the door-knob or handle, and at the same time withdraw the sliding latch, which is attached to a right-angled arm, F, on the upper portion of the lever E, and moves with the raising of the said lever. The sliding bolts C are provided with openings through them, and notches *h* that engage with the pin *i*, which is attached to the case, and passes through the bolts and the intermediate stationary ward-plates D, so that the lock is exceedingly difficult to pick, although it is very simple and cheap in its construction, and of but few parts. The series of sliding bolts C and stationary ward-plates D are susceptible of as many changes and as much variation as any door-lock having the same number of pieces.

The arrangement of the sliding latch H, the arm F, and weighted lever E I do not claim; but

What I do claim as my improvement, and desire to secure by Letters Patent, is—

The movable cog-segment weight B, in combination with the series of sliding cogged bolts C, having notches *h*, the intermediate stationary ward-plates D, the weighted lever E, provided with a notch, *e*, into which the projecting prongs *d* enter to lock the same, the arm F, and latch-bolt H, all operating in the manner substantially as herein shown and described.

In testimony whereof I hereunto subscribe my name in the presence of two witnesses.

ROBERT B. WARNER.

Witnesses:

A. F. FOX,
J. B. WOODRUFF.