

N. PETRE.
Locks.

No. 215,664.

Patented May 20, 1879.

Fig. 1.

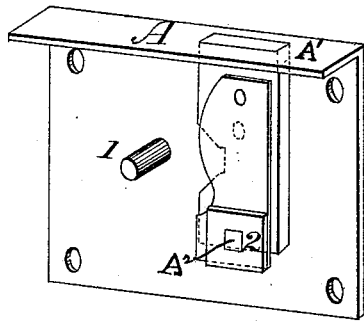


Fig. 2.

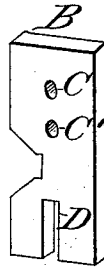
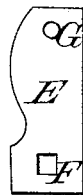


Fig. 3.

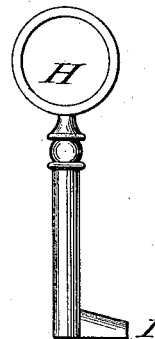


Fig. 4.

Attest:

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UNITED STATES PATENT OFFICE.

NICOLAS PETRE, OF GENEVA, OHIO.

IMPROVEMENT IN LOCKS.

Specification forming part of Letters Patent No. **215,664**, dated May 20, 1879; application filed February 19, 1879.

To all whom it may concern:

Be it known that I, NICOLAS PETRE, of Geneva, Ashtabula county, State of Ohio, have invented a new and useful Improvement in Locks, designated under the name of "Cabinet-Locks," which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

This invention consists in a spring combined with the bolt in such manner as to act as a tumbler, a cover, and a spring, as will be hereinafter fully shown.

In the drawings, Figure 1 is an elevation of a lock-plate of ordinary form having my improvements fixed thereto. Fig. 2 is the spring. Fig. 3 is the bolt, and Fig. 4 is the key.

A is the angle-plate, having a stud, 1, for the key, and a slot, A¹, for the outer end of the bolt, and provided with a supporting bolt or stud, A², for holding the inner ends of the bolt and spring. B is the bolt, constructed with a recess on its edge to permit the turning of the bit of the key. It is also provided with a longitudinal slot, D, which fits over the stud A², and permits it to slide freely, back and forth in the operation of locking or unlocking, and on its side near the outer end it has two retaining holes or notches, C C'.

E is the tumbler-spring, which covers and holds the bolt. It is provided with a hole, F, which fits on the end of the stud or bolt A², and on the top of the bolt B, in which position it serves as a cover, a tumbler, and a spring. It is riveted fast to the end of the stud or bolt A², and has near its outer end a small pin, G, so arranged that it will drop into one or the other of the holes C C' in the bolt B, according to the position of the latter.

The bolt and spring are placed together as shown in Fig. 1, and secured as hereinbefore indicated. The bolt B is supported in the slot A¹ and on the stud or bolt A², and the tumbler-spring E is secured so that it presses against the side of the said bolt.

H is the key, the bit I of which is made tapering, as shown, so that it will pass under the spring E and lift the pin G out of its position in one of the holes C C'.

It will be readily understood, however, that an ordinary key with straight bit may be employed by constructing the spring curved or beveled on its under side, so as to provide the necessary lifting capacity for the said key.

The operation of the lock can be readily understood by reference to the drawings and the description hereinbefore given.

It will be readily seen that by the construction and arrangement herein described I have provided a lock in which the ordinary cover or inner plate is dispensed with, thereby cheapening the manufacture, while at the same time I have preserved efficiency of operation of and have simplified the arrangement of all the parts.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the plate A and bolt B, having holes C C', of the spring E, having pin G, and held by the stud F over the bolt B, substantially as and for the purposes hereinbefore set forth.

NICOLAS PETRE. [L. S.]

Witnesses:

HENRY MEANS,
ALBERT J. TURNKEY.