(No Model.)

J. FRIEDMANN.

PADLOCK.

No. 389,215 Patented Sept. 11, 1888.

FIG. 1.

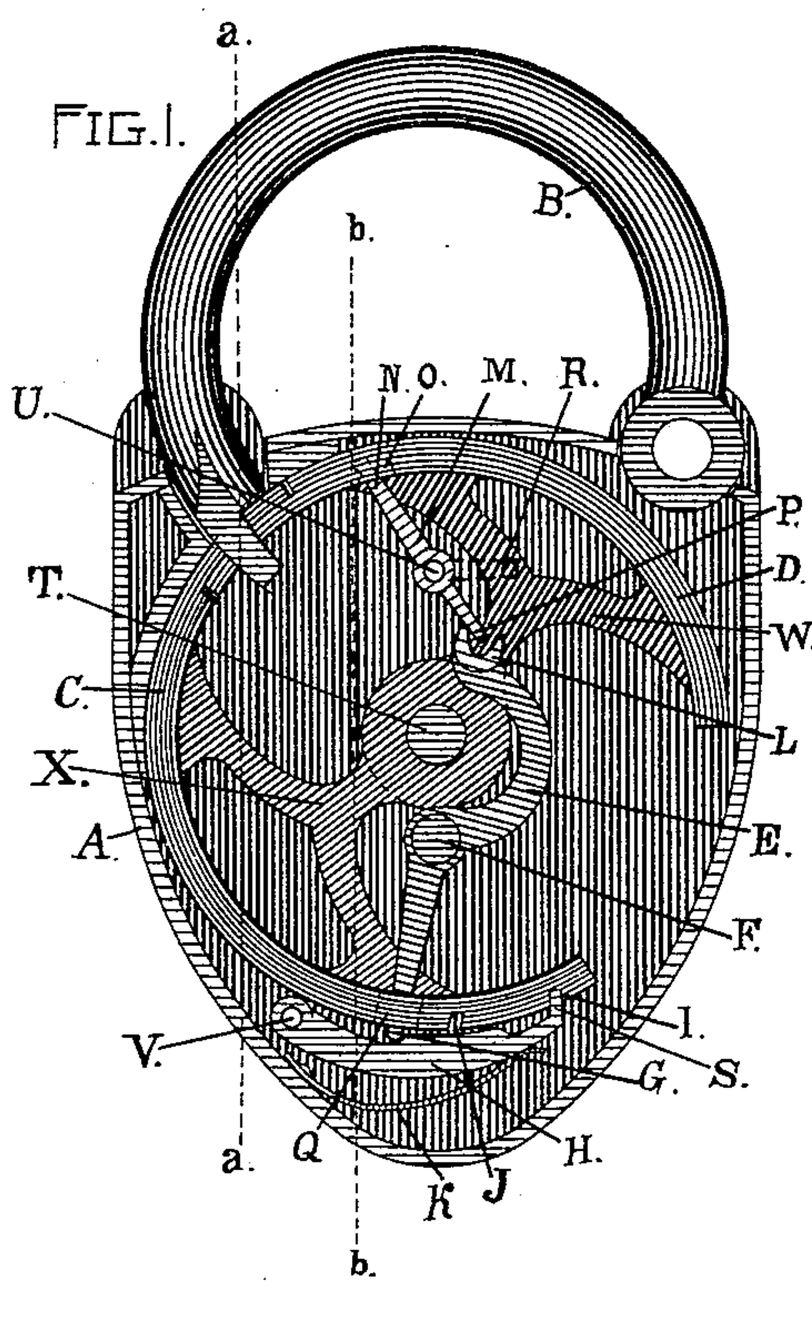


FIG. 2.

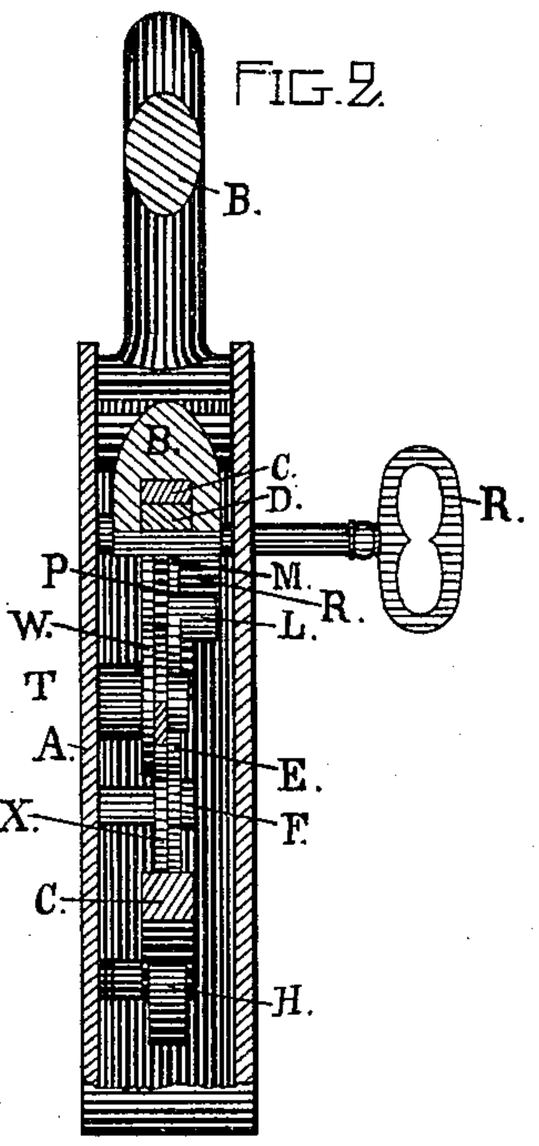
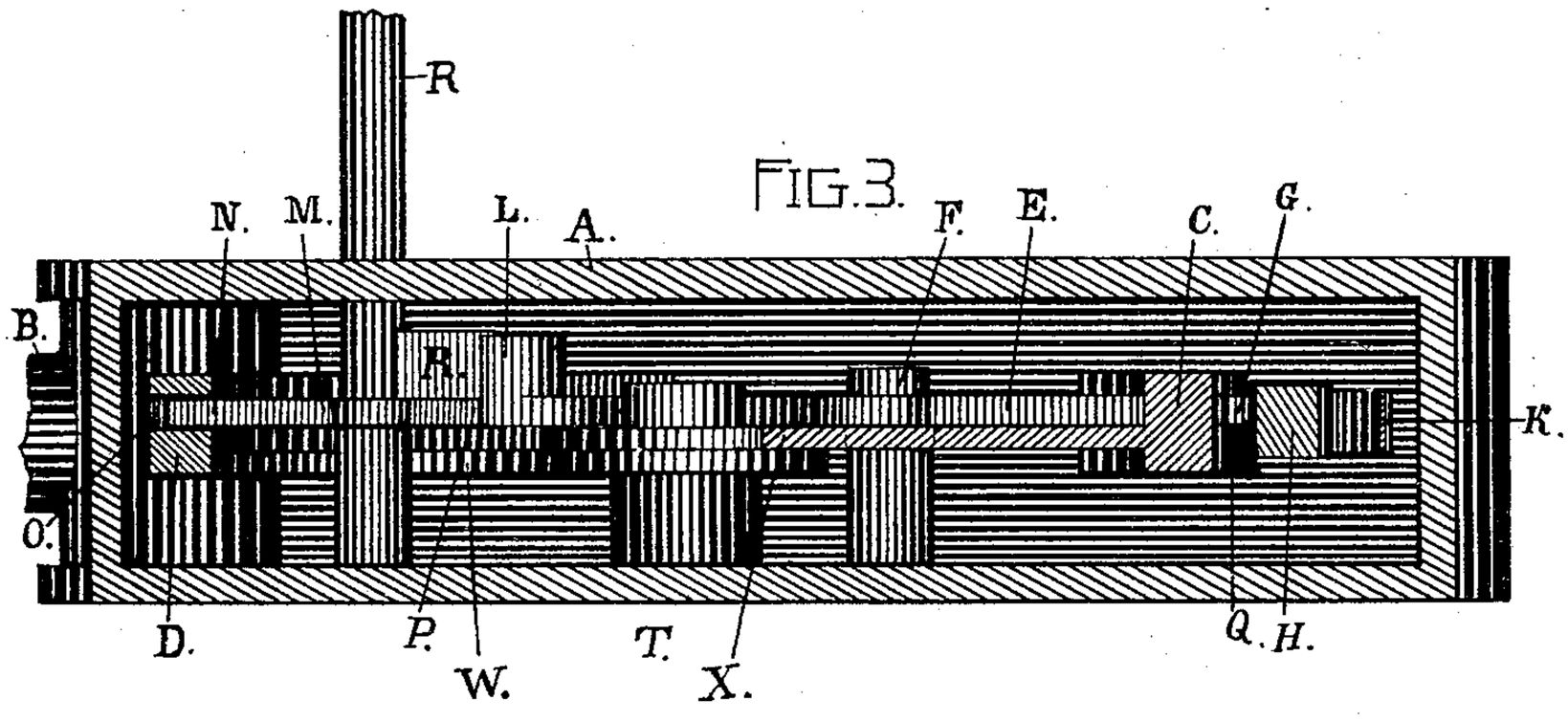


FIG. 3.



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UNITED STATES PATENT OFFICE.

JOSEPH FRIEDMANN, OF SAN FRANCISCO, CALIFORNIA.

PADLOCK.

SPECIFICATION forming part of Letters Patent No. 389,215, dated September 11, 1888.

Application filed November 1, 1887. Serial No. 254,011. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH FRIEDMANN, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented certain new and useful Improvements in Padlocks, of which the following is a specification.

My invention relates to improvements in padlocks, which will be understood by reference to the accompanying drawings and the letters referring thereto.

Figure 1 is a sectional elevation of the devices embodying my invention; Fig. 2, a sectional view cut vertically through the broken line *a a*, Fig. 1; and Fig. 3, a sectional view cut through the broken line *b b*, Fig. 1.

A represents the outer shell or case of the lock; B, the link, designed to pass through the staple in locking; C, the lower lock-bolt; D, the upper lock-bolt; E, the lever which connects with the lower lock-bolt, C, and with the connecting-lever M by means of the key-notch L; F, the pivot upon which the lever E turns; G, the projection upon the lever E to force the tumbler H out of the notches I and J; H, the tumbler; I and J, the tumbler-catch notches; K, the tumbler-spring for returning the tumbler H into the catch-notches I and J and holding the bolt either locked or unlocked.

L represents the key-notch for the levers E and M.

M represents the lever, which connects with and operates the upper bolt, D, by means of the upper arm, N.

N represents the upper arm of the lever M.

O represents the upper bolt-mortise.

P represents the lower arm of the lever M, which is operated by the notch L.

Q represents the mortise or slot through which the lower arm, G, of the lever E passes.

R represents the key-bit.

S represents the catch projection upon the end of the tumbler H to hold the same in place either locked or unlocked.

T represents the central pivot, to which the bolts C and D are hinged.

U represents the pivot of the upper bolt-connecting lever.

V represents the tumbler-pivot.

W is the connecting-arm for the upper bolt, D, and X the connecting-arm for the lower bolt, C.

The following is the construction and operation of my improved lock.

I form the lock of such metals as are usually employed in the construction of the class of manufacture to which it is related. I hinge the bolts C and D upon the pivot T by means of connecting-arms W and X. The lever E connects the key-bit with the bolt C directly through the mortise Q. It also connects the same with the bolt D by means of the lever M, key-notch L, and the mortise O. The key-bit may be fitted with any required variety of gains or slots to operate in connection with corresponding slots or gains in the key-notch L, none of which are shown, as they may be of any desired form or combination.

I construct the tumbler H with the catch S to hold by means of the notches I and J. In Fig. 1 it is shown with the bolts C and D passed through the mortise of the link B and locked. To open the same, the key-bit R is turned down into the key-notch L, and the lever E is forced back, turning upon the pivot F, and the lower arm, G, impinging upon the tumbler H, forces the same down, withdrawing the catch projection S, and, continuing, strikes the edge of the mortise Q, and moves the bolt C out of the mortise in the link B. At the same time the lower arm, P, of the lever M is operated by the key-notch L and turns upon the pivot U, throwing the upper arm, N, over and withdrawing the bolt D from the link B and freeing the same, thus unlocking and allowing the link to be opened out, as in other padlocks.

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

In a padlock, the combination, with a pivoted lever, E, having the key-notch L, and the pivoted lever M, of the bolts D and C, pivoted at T, and provided with the mortises O and Q, respectively, for engagement with the levers, said bolt C having the notches I and J, and the tumbler H, adapted to engage said notches and the link, substantially as and for the purpose set forth.

JOSEPH FRIEDMANN.

Witnesses:
JOHN H. REDSTONE,
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