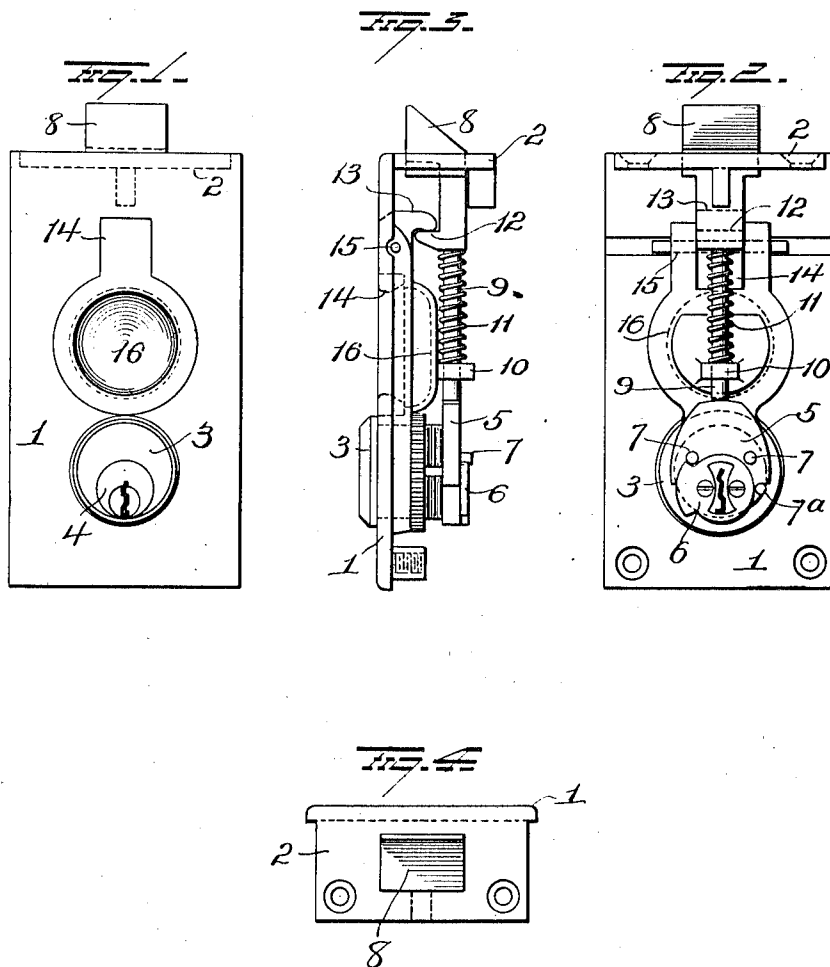


P. F. AUGENBRAUN.
 SPRING LOCK.
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1,035,073.

Patented Aug. 6, 1912.



WITNESSES
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UNITED STATES PATENT OFFICE.

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SPRING-LOCK.

1,035,073.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PETER F. AUGENBRAUN, of Stamford, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Spring-Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in spring locks, the object being to provide a lock with the bolt actuating member normally resting within a recess in the face plate of the lock, so that it may be secured to a floor-board or box, without having any members projecting to any great extent beyond its face plate.

A further object is to provide a spring lock of the character above described with means for deadlocking the bolt and for locking the bolt actuating member against movement.

With these objects in view my invention consists in the parts and combinations of parts and in the details of construction as will be more fully described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in plan of my improved lock. Fig. 2 is a view in bottom plan of same. Fig. 3 is a view in side elevation, and Fig. 4 is a view in end elevation of the same.

1 represents a face plate or casing adapted to be let into a floor-board, box, or other object where a projecting part would be objectionable, and 2 is an end flange, the plate and flange having suitable screw holes for the passage of securing screws. This plate 1 carries a lock 3, preferably of the pin tumbler type as shown, the plug 4 of which actuates a cam 5 which latter, in the present instance, is mounted to turn on the plug and is actuated by the cam 6 rigidly secured to the plug, the said cam engaging the pins 7 projecting from the outer face of cam 5, whereby the cam 5 may be turned by the rotation of the cam 6 in either direction. Pin 7^a forms a stop for limiting the movement of cam 5.

Mounted in the flange 2 of the face plate, is the bolt 8, provided at its inner end with a stem 9, which passes through the bearing 10 secured to or integral with the inner face of plate 1, and embracing the stem 9, is the

spring 11, which latter tends to normally hold the bolt 8 in its projected position as shown.

The bolt is recessed in its front face to form the shoulder 12, against which the inwardly projecting end 13 of the latch actuating member or lever 14 bears. This member 14 is pivoted at 15 to the face plate and normally rests within a recessed seat formed in the front face of the plate 1, so as to be flush with the outer surface of said plate as shown in Figs. 1 and 3. It is preferably made ring shape as shown so as to be conveniently grasped and actuated, and the portion of the face plate immediately below the open center of the bolt actuating member 14 is depressed as at 16 whereby the ends of the fingers may engage the ring shaped member from below or at its inner side, when it is desired to actuate the bolt.

It will be evident from the construction as illustrated that by grasping and pulling outwardly on the bolt actuating member 14, so as to turn same from its position flush with the face plate, up to an angle of about ninety degrees or less to said face plate, that the inwardly projecting end 13 of the bolt actuating member, bearing against the shoulder 12 on the bolt acts as a cam and forces the bolt inwardly to release it from its keeper. This movement of the bolt puts spring 11 under compression, hence as soon as the actuating member 14 is released, the spring forces the bolt outwardly and the shoulder 12 bearing against the bent end of actuating member, turns the same down into its recessed seat in the face plate, and holds it there against accidental movement. Cam 5 is located in the plane of the stem 9 of the bolt, and when turned, as in Fig. 2, to bear against said stem, it deadlocks the latter against movement and also locks the bolt actuating member 14 against outward movement. By turning the cam 5 one hundred and eighty degrees or less so as to carry its cam face away from the stem 9, sufficient room is provided for the full throw of the bolt, by the actuating member 14. With this improvement the spring bolt is normally in its locking position and is retracted by moving the bolt actuating member outwardly from its position flush with the face plate, and as soon as said member is released, the spring 11 acting against the bolt, throws the latter to its projected position.

tion and also turns the bolt actuating member back into its recess in the face plate. By actuating the lock 4, cam 5 will be turned to a position to deadlock the bolt, and obviously when the bolt is dogged by the cam, the bolt actuating member will also be held against movement from its flush position in the face plate.

It is evident that changes in the construction and relative arrangements of the several parts might be made without avoiding my invention and hence I would have it understood that I do not restrict myself to the particular construction and arrangement of parts shown and described, but,—

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is:

1. In a spring lock, the combination of a face plate or casing having a recessed outer face, a bolt provided with an outwardly projecting shoulder, a spring normally tending to hold the bolt projected, and a bolt actuating member pivoted to the face plate or casing, normally resting in said recess, and provided with an inwardly projecting part located in front of, and adapted to engage the outwardly projecting shoulder on the bolt.

2. In a spring lock, the combination of a

face plate or casing having a recessed outer face, a bolt provided with an outwardly projecting shoulder, a spring normally tending to hold the bolt projected, a bolt actuating member pivoted to the face plate or casing, normally resting in said recess and provided with an inwardly projecting part located in front of and adapted to engage the outwardly projecting shoulder on the bolt, and a key-lock for deadlocking said bolt.

3. The combination of a face plate or casing, a bolt, a spring normally tending to hold the bolt projected, a bolt actuating member pivoted to the face plate of the casing, and provided with a part engaging the bolt whereby when said actuating member is moved outwardly from the face plate the bolt will be retracted, a cam located in the plane of the rear end of the bolt and adapted to be turned to engage said bolt, and a key lock for actuating the cam to lock and release the bolt.

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

PETER F. AUGENBRAUN.

Witnesses:

SCHUYLER MERRITT,
EDITH M. CROZIER.