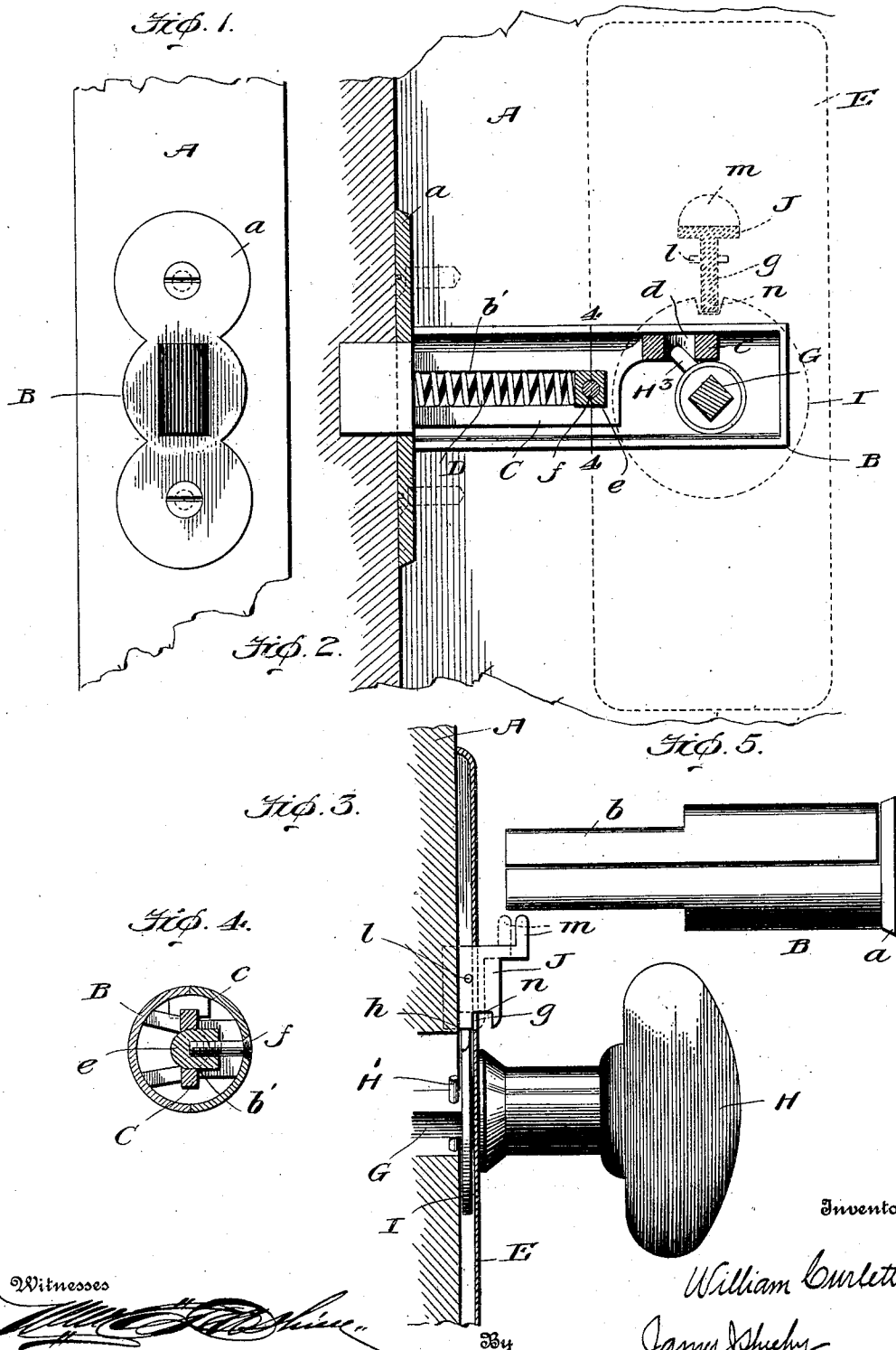


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DOOR LOCK.  
APPLICATION FILED NOV. 23, 1908.

933,630.

Patented Sept. 7, 1909.



Witnesses  
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# UNITED STATES PATENT OFFICE.

WILLIAM CURLETT, OF SAN FRANCISCO, CALIFORNIA.

## DOOR-LOCK.

933,630.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed November 23, 1908. Serial No. 464,024.

To all whom it may concern:

Be it known that I, WILLIAM CURLETT, citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Door-Locks, of which the following is a specification.

My present invention relates to locks such as are designed more particularly for use on the doors of buildings and apartments; and its novelty, utility and practical advantages will be fully understood from the following description and claims when the same are read in connection with the drawings, accompanying and forming part of this specification, in which:

Figure 1 is an edge elevation of a door equipped with a practical embodiment of my invention. Fig. 2 is a detail vertical section taken longitudinally through the lock and showing the escutcheon, the rotary disk, and the vertically slidable catch in dotted lines. Fig. 3 is a detail view, taken at a right angle to Fig. 2, and showing the spindle and the rotary disk of the lock and also showing the slidable catch by dotted lines in its idle position and by full lines in its effective position—i. e., in engagement with the notch of the rotary disk. Fig. 4 is a transverse section taken through the lock casing in the plane indicated by the line 4-4 of Fig. 2. Fig. 5 is a plan view of the lock casing as the same appears when removed from the door.

Similar letters designate corresponding parts in all of the views of the drawings, referring to which:

A is a door, B is the casing of my novel lock. The said casing is preferably cylindrical in form and provided with a face plate *a* and an inner reduced portion *b*, Fig. 5, and from this it follows that the casing may be expeditiously and easily positioned in and fixed with respect to the door subsequently to the provision therein of a socket of circular form in cross-section.

In the casing B is guided a rectilinearly movable bolt C which is slotted, as indicated by *b'*, and is provided with a tail-piece *c* in which is a vertically disposed aperture *d* for the reception of retracting means hereinafter described. The slot *b'* is designed to receive a coiled impelling spring D, and by reference to Fig. 2 it will be seen that the said spring is interposed between the forward or outer end wall of

the slot, and an abutment *e* which loosely rests in the slot and is connected through a screw *f* with the casing B.

E is an escutcheon, fixed to the inner side of the door A and having an opening *g*, preferably of T-form in outline.

G is a spindle equipped with a knob H and journaled in the escutcheon E and lock casing B, and H' is a lateral projection, preferably a pin as shown, carried by the spindle G and disposed at the inner side of the escutcheon. By virtue of this latter provision it will be manifest that in the event of a person at the outer side of the door removing the knob at that end of the spindle, the spindle cannot be displaced. In addition to the projection H', the spindle G is equipped with a lateral arm H<sup>2</sup>, fixed thereon, at a point within the casing B and loosely arranged in the aperture *d* of the bolt C; and said spindle G also has fixed thereon a rotary disk I, which, by preference, is interposed between the escutcheon and the lateral projection H' and is provided in its periphery with a notch *h* designed, when the bolt C is in its foremost position, to rest above and in the same vertical plane as the spindle.

With a view of holding the bolt C in its foremost position and thereby locking the door from the inner side thereof, I provide the catch J which is slidable in the opening *g* of the escutcheon and parallel to the casing B and bolt C, and is preferably of general T-form in cross-section, as shown in Fig. 2. The said catch J is provided at the inner side of the escutcheon E with a stop pin *l*, and at the outer side of said escutcheon with a finger-piece *m*; and it is also provided in its lower end with a notch *n*, as best shown in Fig. 3. When the said catch J is in the position shown by dotted lines in Fig. 3, it obviously will not interfere with the free turning of the disk I and the positioning of the bolt C by a person located either at the inner side or the outer side of the door, but when the catch is moved to the position shown by full lines in said figure, it will be manifest that its lower end will occupy the notch *h* in the disk I, and consequently will preclude turning of the disk I and the spindle G and retraction of the bolt C.

It will be readily understood from the foregoing that through the medium of the catch J a person at the inner side of the door may expeditiously and easily fix the bolt C in its foremost position, which is also

its normal position, and in that way preclude opening of the door by manipulation of the knob at the outer end of the spindle; and it will also be readily apparent that by simply moving the catch J to the position shown by dotted lines in Fig. 3, the disk I is released and the remainder of the lock left free for manipulation in the ordinary well known manner.

10 In addition to the practical advantages hereinbefore ascribed to my novel lock, it will be noted that the same is simple and inexpensive in construction, is well adapted to withstand the rough usage to which locks are ordinarily subjected, and is susceptible of quick and easy application to a door.

I have described the lock constituting the best practical embodiment of my invention of which I am cognizant with particularity in order to impart a full, clear and exact understanding of the same. I do not desire, however, to be understood as confining myself to the specific form and relative arrangement of the parts as herein set forth as in the future practice of the invention such changes or modifications may be made as fairly fall within the scope of my invention as defined in the claims appended.

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

1. The combination in a lock, of an escutcheon having an opening for the passage of a knob-spindle and also having an opening *g*, a knob-spindle extending through and adapted to turn in the first-named opening of the escutcheon, a disk arranged at the inner side of the escutcheon and mounted to

turn with the spindle and having a notch in its periphery, and a catch slidable horizontally in and out in the opening *g* of the escutcheon and provided with means for bringing up against opposite sides of the escutcheon to limit its inward and outward movements and also provided with means adapted in one position of the catch to rest in the notch of the disk and in another position of the catch to rest clear of the disk.

2. The combination in a lock, of a casing having an abutment, an escutcheon having an opening, a rectilinearly movable bolt disposed in the casing and having a longitudinal slot and also having a tail piece in which is an aperture, a spring disposed in the slot of the bolt and interposed between the forward wall of the slot and the said abutment, a spindle journaled in the escutcheon and casing and having an arm extending laterally into the aperture in the tail piece of the bolt, a disk mounted to turn with the spindle and having a notch in its periphery, a lateral projection on the spindle at the inner side of the escutcheon, and a slidable catch disposed in the opening of the escutcheon and having a portion adapted to rest in one position of the catch in the notch of the disk and also adapted in another position of the catch to rest clear of the disk.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM CURLETT.

Witnesses:

P. A. PIODA,  
EDITH W. BURNHAM.