

Feb. 26, 1924.

1,485,207

A. F. ACCETTA

BURGLARPROOF ATTACHMENT FOR LOCKS

Filed Sept. 30, 1922

2 Sheets-Sheet 1

Fig. 1.

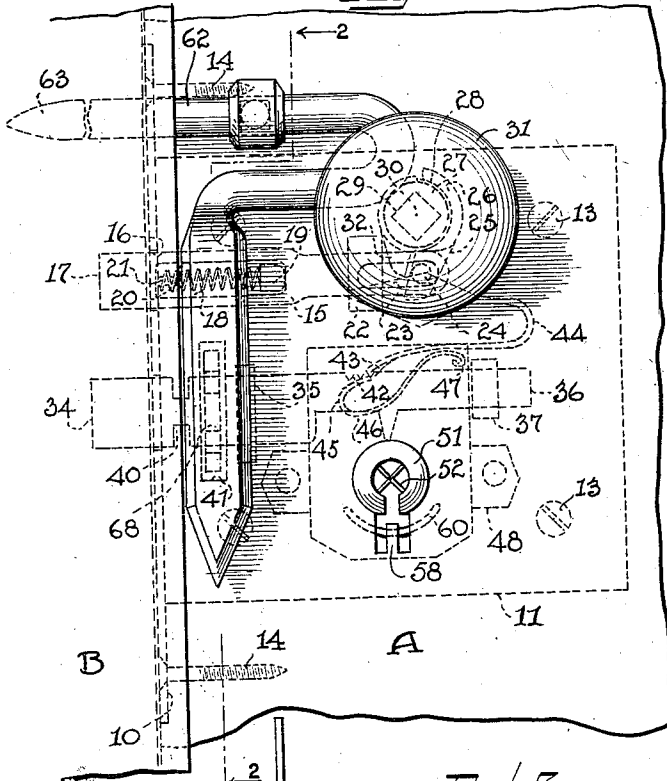


Fig. 2.

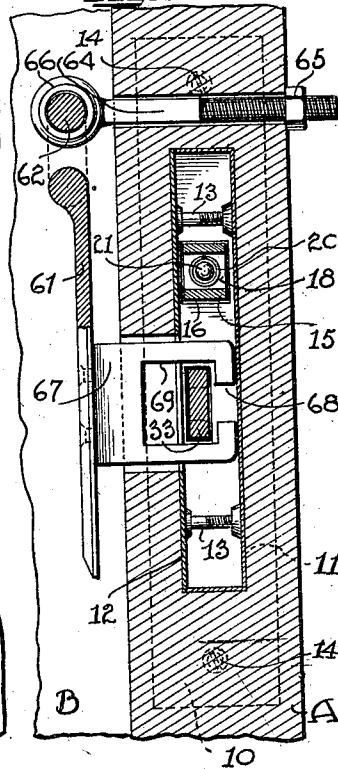
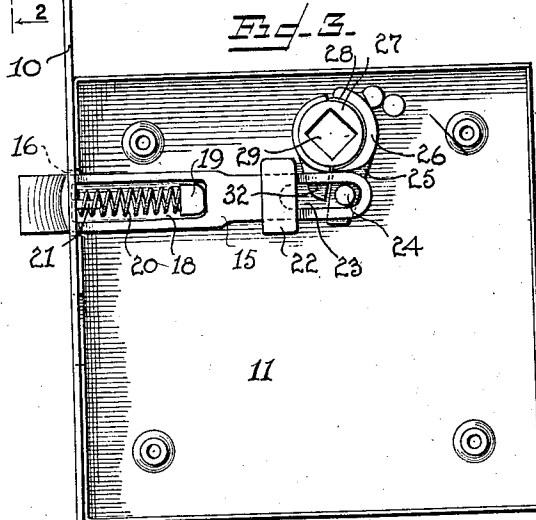


Fig. 3.



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Fig. 4.

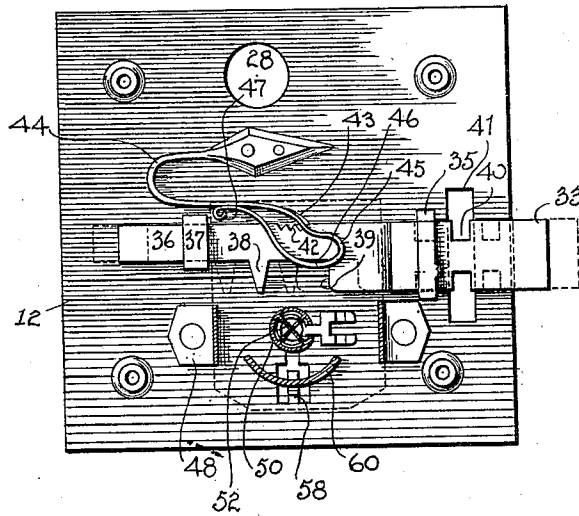


Fig. 5.

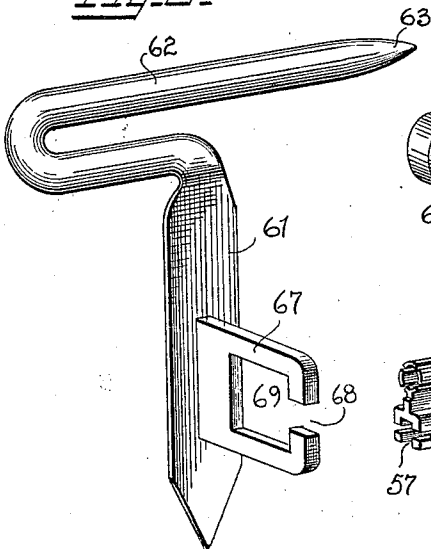


Fig. 6.

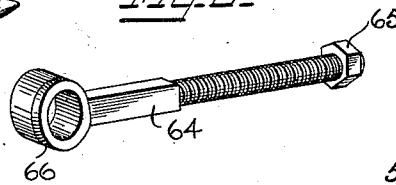
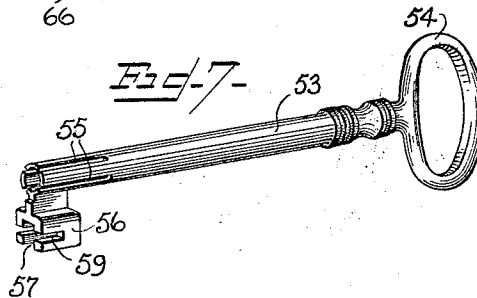


Fig. 7.



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UNITED STATES PATENT OFFICE.

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BURGLARPROOF ATTACHMENT FOR LOCKS.

Application filed September 30, 1922. Serial No. 591,612.

To all whom it may concern:

Be it known that I, ANTONIO FELICE ACETTA, a citizen of the United States, residing at West Dover, in the county of Cuyahoga and State of Ohio, have invented a new and useful Burglarproof Attachment for Locks, of which the following is a specification.

This invention relates to locking devices for doors, and has for its object the provision of a peculiarly constructed lock and attachment therefor designed to act as an auxiliary securing means and adapted particularly for use in holding a door securely, as for instance when the occupants of a dwelling or other building intend to be absent for a considerable time.

An important and more specific object is the provision of a device of this character, which includes a specially constructed lock having a bolt of peculiar formation which may be used in the ordinary manner and under the usual circumstances, but which is also capable of having the securing device engaged therewith, one portion of the securing device having penetrating engagement with the door jamb, and another portion having operative connection with the bolt, it being intended that the attachment be removed except when in actual use.

An additional object is the provision of a combined locking and securing device of this character which will be simple and inexpensive in manufacture and installation, efficient and durable in service, and a general improvement in the art.

To the attainment of the foregoing, the invention consists in the details of construction and arrangement to be hereinafter more fully described, illustrated and claimed, though it is to be understood that the form shown is merely an exemplification, as I reserve the right to make whatever changes will not depart from the spirit of the invention as defined in the appended claims.

Figure 1 is an elevation of a fragment of a door and its jamb showing my device applied thereto, the lock mechanism being illustrated by dotted lines;

Figure 2 is a section on the line 2—2 of Fig. 1;

Figure 3 is an elevation of the inside of one portion of the lock casing and showing the knob controlled latch bar;

Figure 4 is an elevation looking at the inside of the removable plate of the lock cas-

ing, the housing for the bolt mechanism being in section;

Figure 5 is a perspective view of the securing device attachment;

Figure 6 is a perspective view of the door carried retaining member for the securing device;

Figure 7 is a perspective view of the key.

Referring more particularly to the drawings, the letter A designates a portion of a door cooperating with a jamb. In carrying out the present invention, I provide a lock structure which includes a face plate 10, to which is secured a rectangular lock casing 11, having a removable cover plate 12 held in position by means of screws or bolts 13. The face plate is let into the edge of the door while the casing is recessed thereinto, the face plate being provided with holes for the passage of suitable securing screws 14 which pass into the door.

Slidably mounted within the upper portion of the casing 11 is a latch bolt 15, operating through the usual opening 16 in the face plate to cooperate with a socket 17 in the jamb. The latch bolt is formed with a slot 18 engaging upon a stationary guide 19 within the casing, and abutting against this guide is one end of a coil spring 20 which has its other end engaged upon a lug 21 projecting inwardly of the slot from one end thereof, the spring operating to press the latch bolt outwardly into engagement within the socket 17. The inner end of the latch bolt is guidably received within a U-shaped guide 22 secured upon the inside of the casing, and the inner extremity is formed with an elongated slot 23 within which operates a pin 24 carried by an arm 25 on a curved lever 26, which is concentrically disposed with respect to a sleeve 27, which has reduced ends rotatably engaged within openings 28 in the wall of the casing and in the cover 12 thereof. This sleeve 17 is formed with the usual rectangular bore 29 within which is engaged a shank 30 which carries knobs 31 in the ordinary manner. The sleeve 27 carries an arm 32 engageable with the arm 25 when the knob is turned, and which operates to retract the latch bolt 15 to permit opening of the door.

Slidably mounted within the casing below the latch bolt 15, is a locking bolt 33 designed to be projected into a keeper socket 34 in the door jamb B. This bolt has its outermost end portion mounted within a U-

shaped guide 35, and has its inner portion 36 reduced and operating within a U-shaped guide 37, both of the guides 35 and 37 being carried by the cover plate 12 of the lock casing. Intermediate its ends the reduced portion 36 is formed with a lug 38, while the juncture of the reduced portion with the outermost end portion defines a shoulder 39. The wider end portion of this bolt is formed at opposite edges with notches 40, which register, at times, with a slot 41 in the cover plate 12, for a purpose to be described. The upper edge of the reduced portion 36 of the bolt is formed with a series of notches 42, with which cooperates a tongue 43 formed on a leaf-spring 44, which has one end secured to the cover plate 12. This spring is of peculiar formation and is bent upon itself intermediate its ends, as shown at 45, to define a projecting portion 46 which extends below the lower edge of the reduced portion 36 of the bolt. The free end of the spring is coiled upon itself, as indicated at 47, and bears against the underside of the intermediate portion of the spring above the lock bolt. The numeral 48 represents a frame like housing carried by the cover plate 12 and extending over the spring structure, for the purpose of retaining the same in position and enclosing a portion of the lock mechanism.

The cover plate is formed with a key-hole 49 of peculiar shape which may be exactly as illustrated, or which may vary, if desired. Located between the cover plate 12 and frame member 48 is a sleeve 50 having one end formed with a flange 51 bearing exteriorly upon the cover plate 12, and formed at its other end with a trunnion pivoted within a hole in the housing frame. The sleeve is here illustrated as formed internally with intersecting ribs 52, though the arrangement thereof would naturally vary depending upon the exact type of key intended to be used in connection with the lock.

The specific key employed in connection with the lock mechanism illustrated includes a hollow cylindrical shank 53, provided at one end with a finger grip 54 and having its other end formed with slots 55 for the accommodation of the ribs 52. This key is illustrated as carrying a bit 56 bifurcated at 57 for the accommodation of a baffle lug 58 at the edge of the keyhole, the bit being furthermore provided at opposite sides of the bifurcation with slots 59, for the accommodation of an arcuate guard or baffle 60 mounted upon the inside of the housing frame 48.

In connection with the lock mechanism above described, I employ a securing device shown in detail in Figure 5, and including an elongated metallic strip 61 which merges into a hook 62, which has a pointed end 63 designed to be driven into the door jamb, as

shown in Figure 1. Extending transversely through the door above the lock casing therein is a bolt 64, having one end threaded and carrying a nut 65, and having its other end formed with an eye 66 through which the hook is passed. Carried by the plate or strip 61 is a retaining member 67 of plate-like formation designed to be inserted through the slot 41, and formed with an opening 68 into which leads a passage 69. The size of the passage 69 is substantially equal to but not less than the width of the lock bolt 33 between the notches 40, and the width of the retaining member 67 should be slightly less than the length of the slot 41, the opening 68 being of a width slightly greater than the width of the lock bolt 33.

Assuming that the lock device has been mounted upon a door, it will be apparent that the latch bolt 15 is controlled by movement of the knob 31 in the usual manner. The position of the lock bolt 33 is controlled by movement of the key. Assuming that the door is unlocked, the lock bolt 33 will of course be in fully retracted position, as indicated by the dotted lines at the left, the notches 40 being at this time out of registration with the slot 41. To lock the door in the ordinary manner, the operator inserts the key, the slots 55 receiving the ribs 52 and the bifurcation 57 receiving the baffle lug 58. After the key is inserted, it is turned one revolution in a counterclockwise direction, whereupon the bit 56 will engage the shoulder 39 and project the lock bolt 33 one step into the position shown by full lines in Figure 4. It should be stated that the baffle guard 60 is received within the slots 59 when the key is turned. This rotation of the bit, causes the bit to engage the downwardly extending portion 46 of the spring at about the time the bit engages the shoulder 39, so that the tongue 43 of the spring will be lifted sufficiently to permit the bolt to be projected the one step, as above mentioned. After the key is turned through one complete revolution, the tongue 43 will of course engage the next notch 42 and hold the lock bolt stationary. This operation locks the door sufficiently for ordinary purposes.

When the occupants of a dwelling intend to be absent for any appreciable time, it is intended that the auxiliary device shown in Figure 5 be used. In applying this device the key is turned once as above described whereupon the notches 40 will register with the slot 41. The hook 62 is passed through the eye 66 and driven into the jamb, and the retaining member 67 is inserted through the slot 41, the passage 69 passing over the lock bolt between the notches 40. The key is then given a second rotation in the same or counter-clockwise direction, whereupon the bit 56 will engage the lug 38 and move

the bolt 33 into fully projected position, as shown by the right hand dotted lines in Figure 4, the notches 40 being then out of register with the slot 41 and with the bolt engaged within the opening 68 in the retaining member 67, the spring tongue 43 at this time engaging the last one of the notches 42. After this double locking, the key is removed. In removing the auxiliary locking device and unlocking the door, the reverse operation is followed, and it is believed that further description is unnecessary.

From the foregoing description and a study of the drawings, it will be apparent that I have thus provided a very simple and easily applied and operated, non-pickable locking and auxiliary securing attachment therefor, which will be highly advantageous for use particularly in connection with doors for guarding dwellings or other buildings from intrusion by robbers or other unauthorized persons. As the structure is so simple, it is apparent that there is little to get out of order so that the device should have a long life and satisfactorily perform all its functions.

What is claimed is:

1. In combination with a lock having a slidable bolt, key-actuated means for moving the same, a securing device engaged with the door jamb, means for mounting said device on a door adjacent the lock, the casing of the lock having a slot, and said device having an element passed through the slot and formed with an opening through which the bolt of the lock may be projected so as to engage said element within the lock casing.

2. In combination with a lock having a slidable bolt, key-actuated means for moving the same, a securing device comprising a hook having one end pointed to be engaged with the door jamb at one side of the door, means for securing the device to a door adjacent to but independent of the lock, and means carried by said device to be engaged by the slidable bolt.

3. In combination with a lock having a slidable bolt, key-actuated means for moving the same, a securing device comprising a retaining member secured to the door equipped with the lock, and a hook having one end engaged within the jamb of the door and passing through said retaining member, said hook being provided with means to be engaged by the slidable bolt.

4. In combination with a lock having a slidable bolt, key-actuated means for moving the same, the casing of the lock being formed with a slot, a securing device comprising a retaining member secured to the door equipped with the lock, and a hook having one end engaged within the jamb of the door and passing through said retain-

ing member, said hook carrying an element insertable through said slot and said element having an opening through which the bolt may be projected.

5. In a door-securing device the combination with a lock structure including a casing, and a key actuated sliding bolt mounted therein, the lock structure being carried by a door and the bolt being received within a keeper in the door jamb; of a retaining member secured to the door, a hook insertable through said retaining member and having a pointed end adapted to be driven into the jamb, said hook having an elongated shank carrying an element formed with a hole having a constricted entrance passage, the lock casing being formed with a slot for receiving said element, the bolt being projectable through the opening therein and being formed with notches adapted to be brought into or out of register with the slot, the space between the notches passing through the constricted entrance passage when the element is inserted.

6. In a combined lock and door securing device the combination with a lock casing formed with a slot, a bolt slidable within the casing and projectable into a keeper in the door jamb, key-actuated means within the casing for moving the bolt step by step, the bolt being formed in opposite edges with notches registering with said slot when the bolt is projected one step, and a jamb-engaging member carrying an extension formed with an opening having a constricted entrance, said extension being insertable through the slot with the constricted entrance receiving the portion of the bolt between the notches therein, the opening in the extension receiving the bolt when the latter is moved a successive step.

7. In a combined lock and door securing device, a lock casing formed with a slot and a bolt slidable within the casing and key actuated to engage a keeper in the door jamb, in combination with a securing means adapted to be driven into the jamb and having a shank carrying an extension insertable through the slot of the lock casing and formed with an opening through which said bolt may be projected.

8. In a combined lock and door securing device, a lock casing formed with a slot, a bolt slidable within the casing and key actuated to engage a keeper in the door jamb, in combination with a hook adapted to be driven into the jamb, and having a shank carrying an extension insertable through the slot, and formed with an opening through which said bolt may be projected, and a bolt passing through the door and having one end formed with an eye through which said hook is inserted.

9. In combination with a door, a lock carried thereby and having a key operated

- slidable bolt engageable with a keeper in the door jamb, auxiliary securing means comprising a retaining eye carried by the door, a hook having its bill insertable through said eye and pointed for penetrating engagement within the door jamb, said hook having a shank carrying a retaining element engageable by the bolt when the latter is in locked position.
- 10 10. A locking device comprising a casing formed with a slot, a bolt slidable within said casing and formed with notches adapted to register with said slot, the lower edge of the bolt being formed with a shoulder and
15 a lug spaced therefrom, a spring having a bent portion extending below the lower edge of the bolt and having its intermediate portion formed with an offset tongue, the upper edge of the bolt being provided with notches engaged by the tongue, said shoulder and said lug being adapted to be successively engaged by the bit of a key upon successive revolutions thereof, whereby to move the bolt step by step to bring the notches into and out of registration with the slot, the key bit engaging the bent portion of said spring to release the tongue from the notches, and a jamb-engaging member having an element insertable into said slot and engageable with said bolt when said notches register with said slot.
- 20 25 30

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature.

ANTONIO FELICE ACCETTA.