C. B. ROBERTS.

LOCK.

APPLICATION FILED OCT. 30, 1920.

1,385,889. Patented July 26, 1921.

Fig. 2.

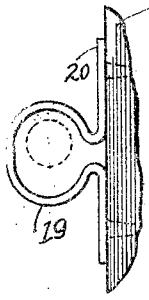


Fig. 1.

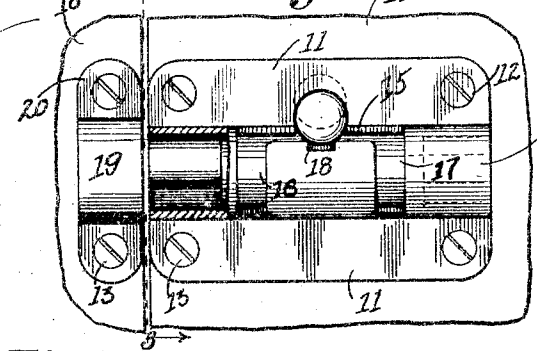


Fig. 3.

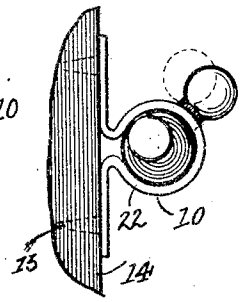


Fig. 5.

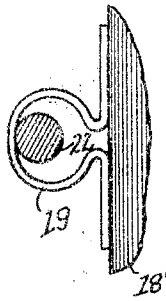


Fig. 4.

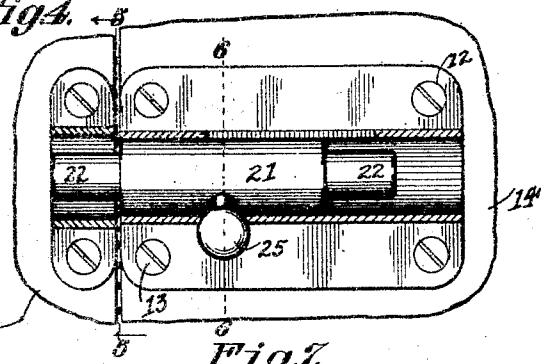


Fig. 6.

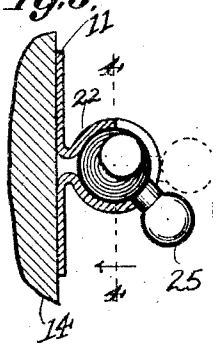


Fig. 7.

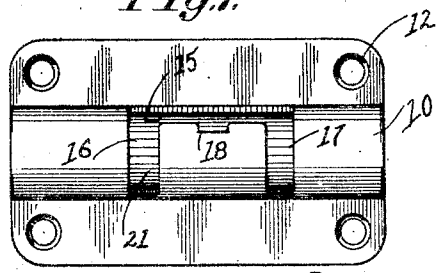
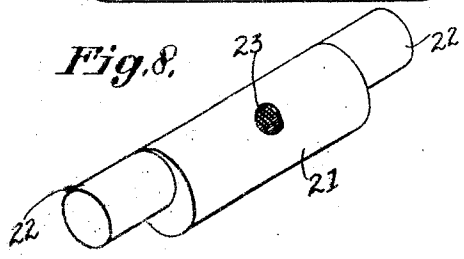


Fig. 9.



Fig. 8.



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LOCK.

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Application filed October 30, 1920. Serial No. 420,703.

To all whom it may concern:

Be it known that I, CHARLES B. ROBERTS, a citizen of the United States, residing at Berkeley, in the county of Alameda and State of California, have invented new and useful Improvements in Locks, of which the following is a specification.

This invention relates to improvements in locks and relates particularly to a door-lock.

One object of this invention is to provide a device which serves not only as a means for locking the door, but also functions to prevent a rattling of the door when the lock is in operative position.

Another object of this invention is to provide a main locking bolt having extremities mounted eccentrically with the center of rotation of the body of the bolt which serve to crowd the door upon which the device is used against the jamb and perform the above mentioned function of preventing a rattling of the door.

A still further object of this invention is to provide a lock which is simple in character, positive in action, strong and durable in construction, easily operated and which can be manufactured and installed at a compartively small price.

Other objects and advantages of the invention will be apparent during the course of the following description:

In the drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of the locking device attached to a door,

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1 and looking in the direction of the arrow,

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2 showing one of the eccentrical extremities disposed in the body of the bolt,

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 6,

Fig. 5 is a sectional view taken on the line 5—5 of Fig. 4,

Fig. 6 is a sectional view taken on the line 6—6 of Fig. 4,

Fig. 7 is a detail view of the locking chamber,

Fig. 8 is a perspective view of the locking bolt proper, and

Fig. 9 is a detail, sectional view showing a knob forming part of my invention attached to the locking bolt.

In the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 10 designates a bolt chamber, preferably semi-cylindrical in form, provided with integral flange elements 11 having openings 12 formed therein adapted to receive fastening elements 13, preferably screws, in order to detachably fasten the flange elements to the body of a door 14. The bolt chamber 10 is provided with a horizontal slot 15, a pair of vertical slots 16 and 17 connected by the first mentioned slot, and a notch 18 intermediately disposed between the pair of vertical slots.

In alinement with the bolt chamber 10 and detachably fastened to the door jamb 18′ by fastening elements, is a cylindrical keeper 19 of a smaller diameter than the bolt chamber 10, the keeper being provided with flanges 20.

Resting within the chamber 10 and adapted to be moved horizontal therethrough and rotated therein, is a bolt member including a main body portion 21 and integrally formed extremities 22. The extremities 22 are eccentrically mounted on the body portion 21 and are in alinement one with the other. Centrally located within the body portion 21 is a threaded bore 23 adapted to receive the spindle 24 of a knob 25 which serves as means for operating the bolt when the door is to be locked or unlocked.

From the detail construction of the device as just outlined, it is obvious that I have provided a lock which includes a novel type of bolt serving not only as a locking means but also as a means for preventing the rattling of a door when the bolt is adjusted into an operative position. It will be apparent that when the door is unlocked, as shown to advantage in Fig. 1, and then locked, as set forth in Fig. 4, that one of the eccentrically mounted extremities in position for use, will upon a rotation of the bolt and horizontal movement of the same contact with the inner periphery of the keeper 19, and thus prevent a rattling of the door.

By providing the intermediate notch means are set forth for retaining the knob therein against accidental displacement of the bolt when the same is in an operative

position, and by the provision of the pair of vertical slots further means are provided to retain the bolt in a fixed position when the locking device is applied to types of doors constructed to receive the device either on the right or left side thereof.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:—

1. In a door, the combination with a cylindrical keeper plate adapted for attachment to a door jamb, of a bolt including a main body portion having integrally formed therewith eccentrically mounted extremities, means secured to the door and adapted to receive said bolt therein, and a knob secured to said bolt and adapted upon rotary movement to cause one of the extremities thereof to contact with the inner periphery of said cylindrical keeper plate.

2. In a door lock, the combination with a cylindrical keeper plate adapted for attachment to a door jamb, of a bolt chamber having a pair of vertical slots and a horizontal slot formed therein, said chamber adapted to be attached to the door, and a bolt including a main body portion and eccentrically mounted extremities adapted to be rotated and moved horizontally within said chamber so that one of the eccentrically mounted extremities will contact with the inner periphery of said keeper plate.

In testimony whereof I affix my signature.

CHARLES B. ROBERTS.