

F. K. BAKER.  
 COMBINED DOOR LATCH AND BOLT.  
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915,536.

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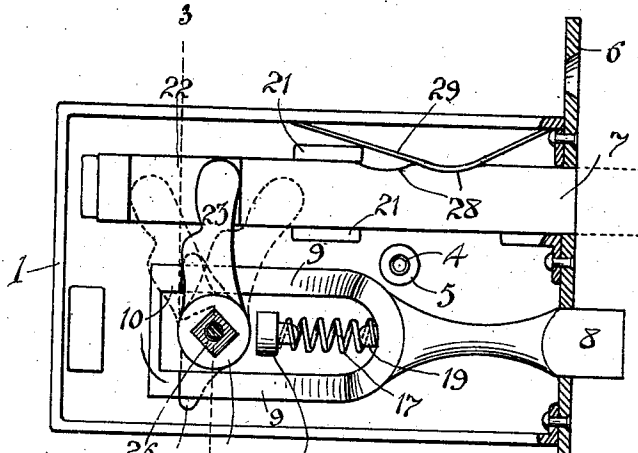


Fig. 1

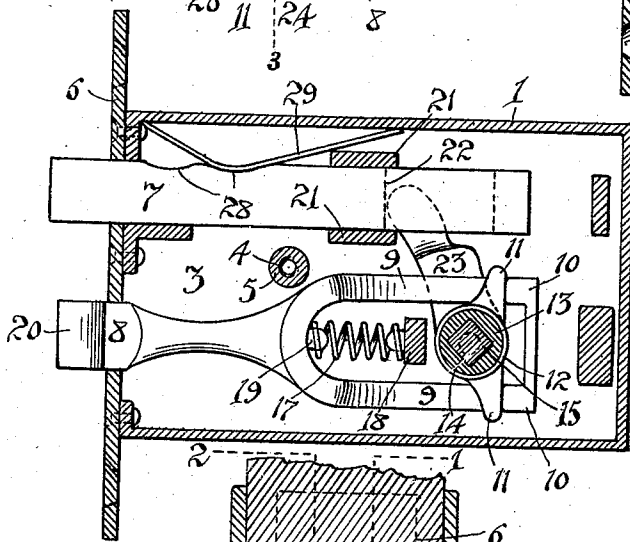


Fig. 2

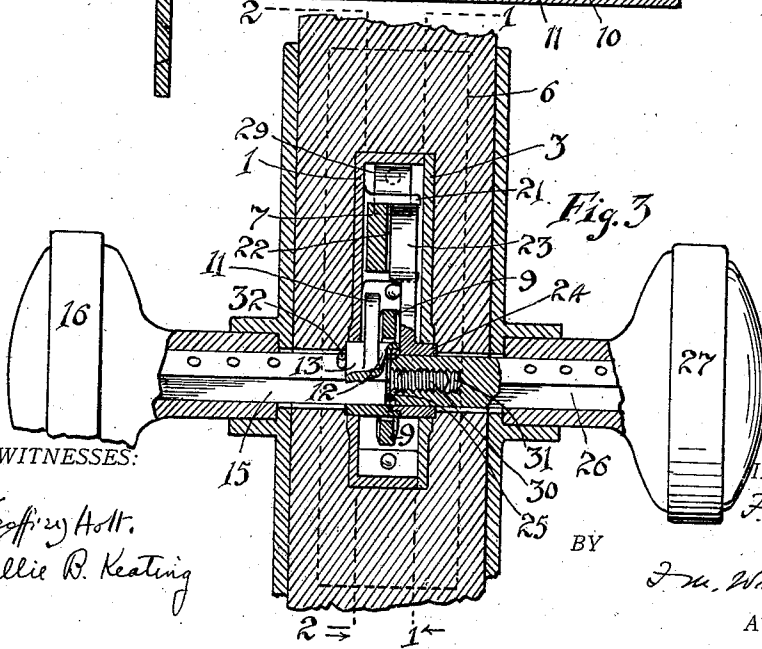


Fig. 3

WITNESSES:

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# UNITED STATES PATENT OFFICE.

FRANK K. BAKER, OF ALAMEDA, CALIFORNIA.

## COMBINED DOOR LATCH AND BOLT.

No. 915,536.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed August 1, 1908. Serial No. 446,395.

*To all whom it may concern:*

Be it known that I, FRANK K. BAKER, a citizen of the United States, residing at Alameda, in the county of Alameda and State of California, have invented new and useful Improvements in a Combined Door Latch and Bolt, of which the following is a specification.

The present invention relates to a combined door latch and bolt.

In the accompanying drawing, Figure 1 is a sectional view on the line 1—1 of Fig. 3; Fig. 2 is a sectional view on the line 2—2 of Fig. 3; Fig. 3 is a sectional view of the line 3—3 of Fig. 1, certain parts being shown in side view.

Referring to the drawing, 1 indicates a casing closed by a cover plate 3 adapted to be secured thereto by a screw, not shown, screwed into a threaded socket 4 in a post 5 formed upon the casing. Said casing is also formed with a door face plate 6, having upper and lower apertures through which project respectively the bolt 7 and the latch 8. The stem of said latch is, at the rear, loop-shaped in form, and each side 9 of the loop is formed with shoulders 10 on each side of the latch. Against the shoulders 10 on one side of the latch press lugs or arms 11 formed on a hub 12, which has a rounded portion 13 capable of rotary or oscillating motion in a round hole in the casing 1. It also has a square aperture 14 in which passes the end of a square stem 15 secured in the usual way to a handle 16. A coiled spring 17 within the loop presses at its rear end against a lug 18 formed upon the casing, and at its front end against the front end of the loop-shaped portion of the latch, which is formed with a stud 19 adapted to center said spring in position. By turning said handle in either direction the latch is withdrawn against the action of the spring. The shoulders 10 are formed upon both sides of the latch, so that the latch can be reversed, when desired, to cause the beveled surface 20 of the end of the latch to strike the striking plate to permit the door to swing from either side.

The bolt 7 slides between guide plates 21, and behind said guide plates it is formed with a recess 22, into which extends an arm 23 having a cylindrical hub 24, having a reduced portion 25 which is contained in a cylindrical recess formed in the hub 12. The hub 24 of

said arm is also formed with a square aperture into which can extend the end of a square stem 26 secured to a handle 27. When said handle is turned in one direction the bolt is projected, and when turned in the other direction it is retracted. The upper edge of the bolt is formed with two curved recesses 28 and a bent spring 29 extends into one or the other of said recesses according as the bolt is projected or retracted, thus maintaining said bolt in either position against accidental displacement therefrom.

It is thus seen that two separate stems are used, each actuated by its own handle, the handle 27 being used to project or retract the bolt, and the handle 16 to withdraw the latch. In general use the handle 16, will be arranged at the outside of the dwelling or apartment, so that the door can be unlatched from the outside, but the bolt cannot be operated therefrom. The handle 27 will extend into the inside of said dwelling, or apartment, so that the bolt can be actuated only from the inside. In order that the latch may be actuated also from the inside, the stem 15 is formed with a reduced threaded portion or screw 30, which screws into a threaded socket 31 formed in the end of the stem 26. A pin 32 is driven through the stem 15 so as to abut against the outer side of the hub 12 and limit the inward movement of the stem 15. The effect of this is that, when the handle on the inside is turned in the direction to the right, the screw being right handed, and screwed as far as possible into the socket, the turning of the handle 16 to the right turns also the stem 26 of the other handle, and thus retracts the bolt as well as the latch, if the bolt is in its projected position, but has no effect upon the bolt if already retracted, the arm then freely moving in the recess in the bolt. But when the handle 16 is turned in the other direction, while the latch is again retracted, the bolt is at the same time projected, if it is not already in its projected position. The result of this is that, from the inside, the door can be either bolted or unbolted, and can also be unlatched. It can also be unlatched from the outside, but the bolt cannot be operated from the outside.

I claim:—

1. The combination of a casing, a bolt and a latch therein, stems extending on opposite sides from said casing, one of said stems being

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provided with means for operating the latch, and the other stem being provided with means for operating the bolt, and also with means for operating the latch through the  
5 first named stem, substantially as described.

2. The combination of a casing, a bolt and a latch therein, stems extending on opposite sides from said casing, one of said stems being provided with means for operating the latch,  
10 and the other stem being provided with means for operating the bolt, and having a screw threaded connection with the other stem, substantially as described.

3. The combination of a casing, a bolt and  
15 a latch therein, stems extending from said casing on opposite sides thereof, said stems being operatively connected with each other, whereby, when one of the stems is turned in one direction only it actuates the other stem,  
20 an operative connection between one of said stems and the latch, and an operative connec-

tion between the other stem and the bolt, substantially as described.

4. The combination of a casing, a bolt and a latch therein, stems extending from said  
25 casing on opposite sides, arms extending from one of said stems and arranged to selectively engage a latch to withdraw the same, and an arm extending from the other stem and arranged to engage the bolt to project or  
30 withdraw the same, the latter stem being provided with means whereby, when turned in one direction only, it will actuate the other stem to withdraw the latch, substantially as described.  
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In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FRANK K. BAKER.

Witnesses:

T. F. BAIRD,  
PEARL K. WILSON.