May 23, 1950 E. J. BAUMÉ 2,508,702

LOCK OR LATCH BOLT MOUNT

Filed Nov. 24, 1945

Fig. 1.

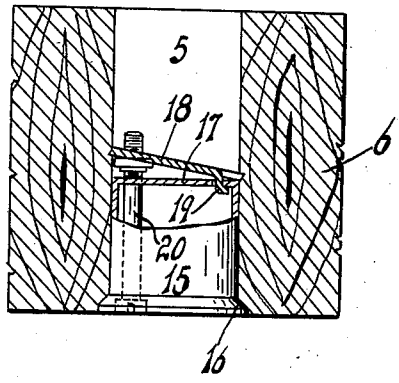


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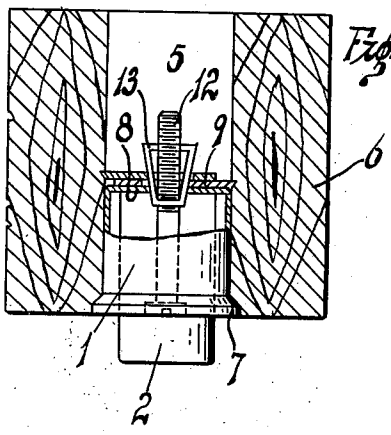


Fig. 4.

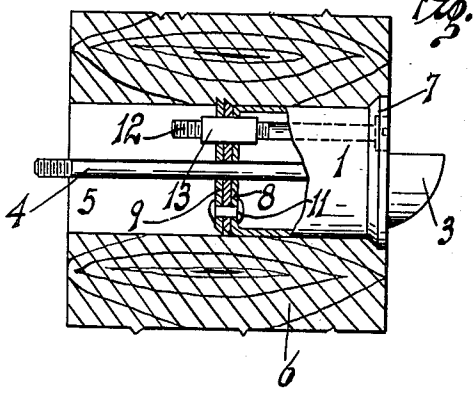


Fig. 2.

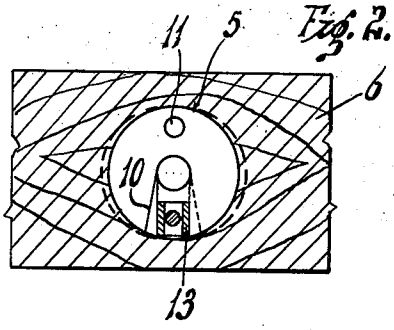


Fig. 5.

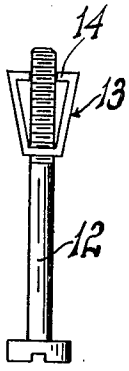


Fig. 6.

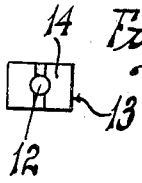
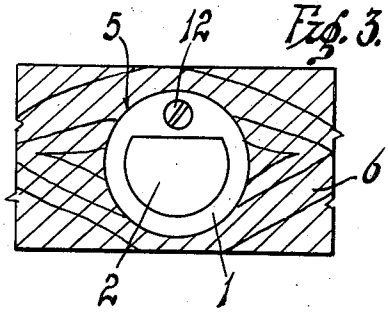


Fig. 3.



INVENTOR.
Edwall J. Baume.
BY
H. A. Dieckman
ATTORNEY.

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LOCK OR LATCH BOLT MOUNT

Edwall J. Baumé, Long Beach, Calif.; Betty L. Baume executrix of said Edwall J. Baume, deceased

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6 Claims. (Cl. 70—451)

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This invention relates to a novel means of mounting a lock or latch bolt and outer casing within a cylindrical bore drilled in a door or the like, whereby the bolt is securely mounted in a door or similar object from the outside of the door and also can be renewed from the outside with a minimum of effort.

An object of my invention is to provide a novel lock or latch bolt mount consisting of laterally projectible means which are forced against or into the wall of a bore formed in the door.

Another object is to provide a novel lock or latch bolt mount of the character stated in which the securing means for the mount also drawns the mount securely within the bore of the door, thus preventing rotation and longitudinal movement of the mount.

Still another object of my invention is to provide a novel lock or latch bolt mount which is simple in construction, inexpensive to manufacture, efficient in operation, and easy to mount without a mortise or face plate.

Other objects, advantages, and features of invention may appear from the accompanying drawing, the subjoined detailed description, and the appended claims.

In the drawing:

Fig. 1 is a side elevation of my lock or latch bolt mount with parts broken away to show interior construction.

Fig. 2 is a rear view of my lock or latch bolt mount, the actuating cam and screw being shown in sections.

Fig. 3 is a front elevation of my lock or latch bolt mount.

Fig. 4 is a side elevation of my lock or latch bolt mount with parts broken away to show interior construction, and the bolt being of the type used in connection with a releasing means.

Fig. 5 is a side elevation of the actuating screw and cam.

Fig. 6 is a top plan view of the same.

Fig. 7 is a side elevation of a modified form of lock or latch bolt mount with parts broken away to show interior construction.

Referring more particularly to the drawing, the numeral 1 indicates a cylindrical housing in which a bolt 2 is mounted. This bolt is slideably mounted in the housing and is usually spring pressed to an outward position; and if desired the housing may contain a bolt 3 to which a pin 4 is attached, the pin being connected to a suitable releasing mechanism such as the usual doorknob.

A cylindrical bore 5 is drilled in the door 6 and the housing 1 closely fits this bore and is

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fixedly held therein, as will be subsequently described.

A tapered shoulder 7, on the outer end of the housing or casing 1, fits against the outer edge of the door and holds the casing or housing against inward movement.

A wall 8 closes the inner end of the housing or casing 1.

One or more discs 9 are mounted on the wall 8 and as here shown there are two such discs. These discs are superimposed, and preferably, bear against or rest against the inner wall 8 substantially as shown.

The discs 9 are slotted radially, as shown at 10.

A pivot pin 11 pivotly mounts the discs to the inner wall 8; and note that this pivot pin is eccentric to the center line of the housing or casing 1.

A mounting screw 12 extends through the housing 1, from front to rear, and this mounting screw is also eccentric to the center line of the housing. Also the mounting screw is outside of and adjacent to the bolt 2, as shown in Fig. 3.

A cam rider 13 is threaded to receive the threads of the screw 12, and this cam extends into the slot 10 and engages one edge of the slot so that when the cam is pulled inwardly relative to the housing 1, the mounted discs 9 will be pressed laterally and outwardly against the wall of the bore 5.

The cam or wedge 13 may consist of a stamping bent from a flat piece of metal with two tapered side walls and a threaded hole to receive the screw 12, substantially as shown.

The inwardly extending tips 14 of the cam or wedge bear against the threads of the screw 12, and thus when the cam is engaging the discs, these tips will be pressed against the threads of the screw acting as a lock to prevent loosening of the screw by movement of the mount.

The wall engaging surfaces of the discs 9 are angularly cut so that the tendency will be to pull the housing 1 inwardly and thus pressing the shoulder 7 tightly against the outer edge of the door.

In Fig. 7 the housing or casing 15 contains the usual bolt (not shown) and includes the outer shoulder 16 and the inner wall 17.

A single disc 18 is provided with a hinged lip 19 which fits in the wall 17 and adjacent to the outer edge of this wall.

A screw 20 extends longitudinally through the housing 15 and is threaded into or attached to the disc 18 adjacent to the outer or swinging end of this disc. Thus rotation of the screw 20 will cause the disc 18 to move toward, or away from, the wall 17. On movement toward the wall 17,

the disc will be forced into the wall of the bore 5.

Having described my invention, I claim:

1. A lock or latch bolt mount comprising a housing adapted to fit in a door having a bore therein; laterally projectable engaging means mounted on the inner end of said housing, and a screw offset from the center line of said housing, said screw engaging said means and urging said means into engagement with the bore of the door, said engaging means consisting of a pair of superimposed discs, the edges of said discs being adapted to engage the bore of the door.

2. A lock or latch bolt mount comprising a housing adapted to fit in a door having a bore therein; laterally projectable engaging means mounted on the inner end of said housing and a screw offset from the center line of said housing, said screw engaging said means and urging said means into engagement with the bore of the door; said engaging means consisting of a pair of superimposed discs, the edges of said discs being adapted to engage the bore of the door; and cam means mounted on said screw and moveable by said screw on rotation thereof; said cam means engaging the discs and urging the same outwardly against the wall of the bore.

3. A lock or latch bolt mount comprising a housing adapted to fit in a door having a bore therein; laterally projectable engaging means mounted on the inner end of said housing, and a screw offset from the center line of said housing, said screw engaging said means and urging said means into engagement with the bore of the door; a cam mounted on said screw, said cam bearing against the engaging means; said cam including inwardly extending tips, the tips pressing against the threads of the screw to lock the screw in position, by pressure.

4. A lock or latch bolt mount comprising a housing adapted to fit in a door having a bore therein; laterally projectable engaging means mounted on the inner end of said housing, and a screw offset from the center line of said housing, said screw engaging said means and urging said means into engagement with the bore of the door, said engaging means resting on and bearing against the inner end of said housing; a cam mounted on said screw said cam bearing against the engaging means, said cam including inwardly extending tips, the tips presssing against the threads of the screw to lock the cam and screw in position.

5. A lock or latch bolt mount comprising a housing, laterally projectable engaging means, a pivot pin for said engaging means, said pivot pin being eccentric to the center line of the housing and positioned in the housing; an actuating screw, said screw extending longitudinally through the housing the head of said screw being exposed on the outer end of the housing and eccentric to the center line of the housing, said screw being operatively connected to the engaging means whereby rotation of the screw will urge the engaging means outwardly.

6. A lock or latch bolt mount comprising a housing, laterally projectable engaging means, a pivot pin for said engaging means, said pivot pin being eccentric to the center line and axis of the housing and positioned in the housing; an actuating screw, said screw extending longitudinally through the housing the head of said screw being exposed on the outer end of the housing and eccentric to the center line and axis of the housing; cam means threaded onto the screw, said cam means bearing against the engaging means to urge the engaging means outwardly.

EDWALL J. BAUMÉ.

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