(No Model.)

R. B. MONROE.

DOOR AND SHUTTER BOLT.

No. 266,498. Patented Oct. 24, 1882.

Fig. 1.

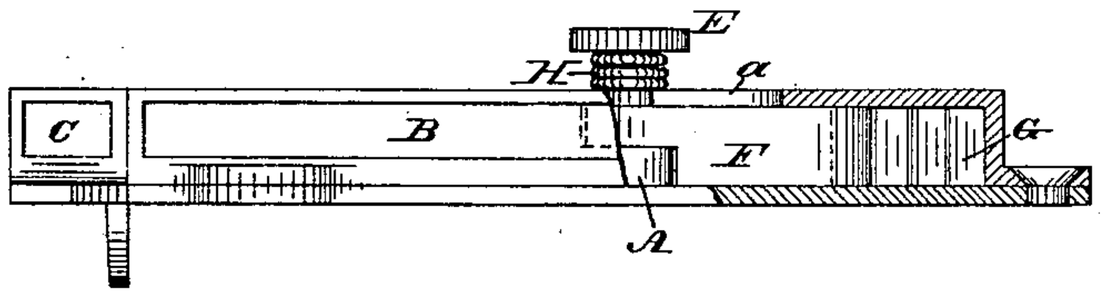


Fig. 2.

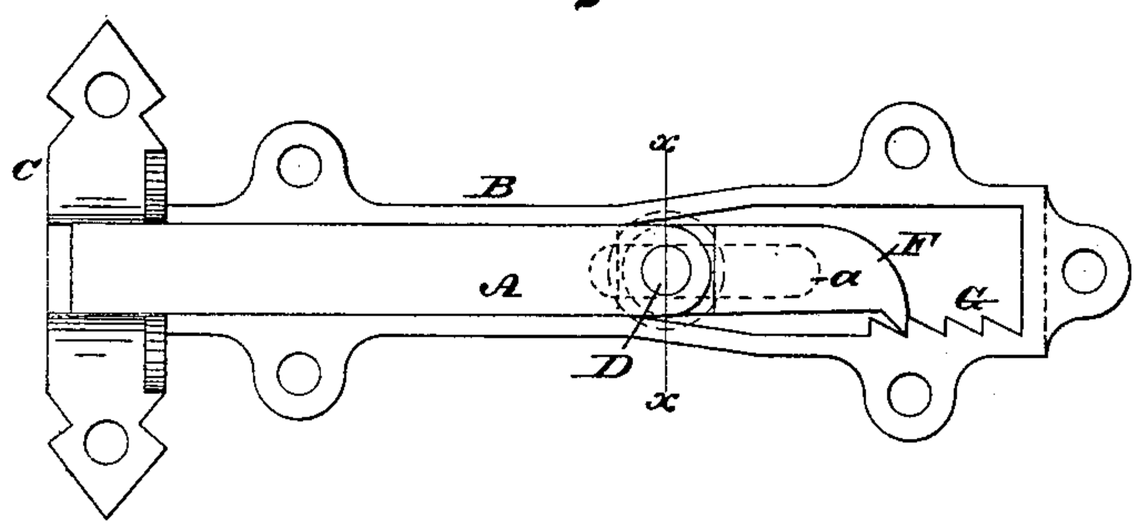


Fig. 3.

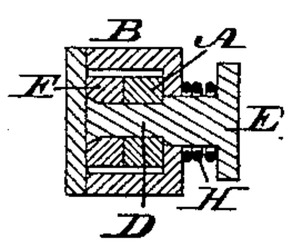
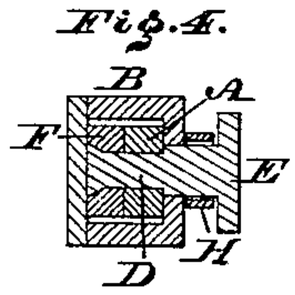


Fig. 4.



WITNESSES:

A. P. Grant,

W. F. Kirches

INVENTOR:

Robert B. Monroe,

BY John A. Diedersheim ATTORNEY.

UNITED STATES PATENT OFFICE.

ROBERT B. MONROE, OF PHILADELPHIA, PENNSYLVANIA.

DOOR AND SHUTTER BOLT.

SPECIFICATION forming part of Letters Patent No. 266,498, dated October 24, 1882.

Application filed March 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, ROBERT B. MONROE, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Door and Shutter Bolts, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a top or plan view, partly broken away, of the bolt embodying my invention. Fig. 2 is a side elevation of the interior thereof. Fig. 3 is a section in line *x x*, Fig. 2. Fig. 4 is a section in the same line of a modification.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a bolt provided at its heel with a tooth, which is adapted to engage with serrations on the inner face of the casing, whereby the bolt may be securely locked, as will be hereinafter set forth.

It also consists in providing the knob or button of the bolt by which the tooth of the latter is raised with a rotatable guard, whereby, should a wire be inserted through the door or shutter and applied to the knob or button in order to turn it, the guard will rotate without rotating said knob or button.

Referring to the drawings, A represents a sliding bolt, and B the casing thereof, which casing and the keeper C are adapted to be secured to a door and its frame or to shutters in a suitable manner.

To the heel or inner end of the bolt is journaled the stem D of the knob or button E, by which the bolt is moved, the casing having a suitable slot to permit the passage of said stem, as shown at *a* by the dotted lines, Fig. 2, and the broken away portion, Fig. 1. To said stem D is rigidly connected a tooth or pawl, F, whose point is at the end opposite to the place of connection of the stem D and projects downward.

On the inner or upper face of the lower wall of the casing A is a rack or series of serrations, G, the teeth projecting upward and occupying a position at the closed end of the casing, so as to be engaged by the tooth F of the bolt.

When the door or shutter is to be locked the bolt is shot forward by the knob E, and as the tooth is journaled to the bolt by means of the stem D of the knob, said tooth rides freely over the rack or serrations G until the bolt is stopped, when the tooth drops against the shoulder of one of the serrations G and remains there owing to its weight, and thereby locks the bolt, so that it cannot be opened or thrown back, except by properly rotating the knob from within.

In order to unlock the bolt the knob E is first rotated, thereby lifting the tooth F clear of the serrations G, and then run back, thereby withdrawing the bolt from the keeper, thus permitting the opening of the door or shutter, as is evident.

As the unlocking of the bolt depends primarily on the rotation of the knob, it is important to prevent said rotation by the application of wire or an implement from without. For this purpose I apply to the portion of the knob between the head thereof and the outer face of the casing A a loose sleeve or sleeves, H, which, circumscribing said portion of the stem, is adapted to rotate freely thereon. Consequently, should the sleeve be grasped and turned its motion is not communicated to the stem, and the tooth F remains engaged with the tooth of the serrations G, whereby the security of the bolt is preserved.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sliding bolt, in combination with a knob journaled to it, a tooth fixed to said knob, and the casing of the bolt having a rack or serrations, with which said tooth is adapted to engage or lock, substantially as and for the purpose set forth.

2. A tooth journaled to a sliding bolt, in combination with a rotatable guard fitted on a rotatable knob, which is rigidly attached to said tooth, substantially as and for the purpose set forth.

ROBERT B. MONROE.

Witnesses:
JNO. A. WIEDERSHEIM,
A. P. GRANT.