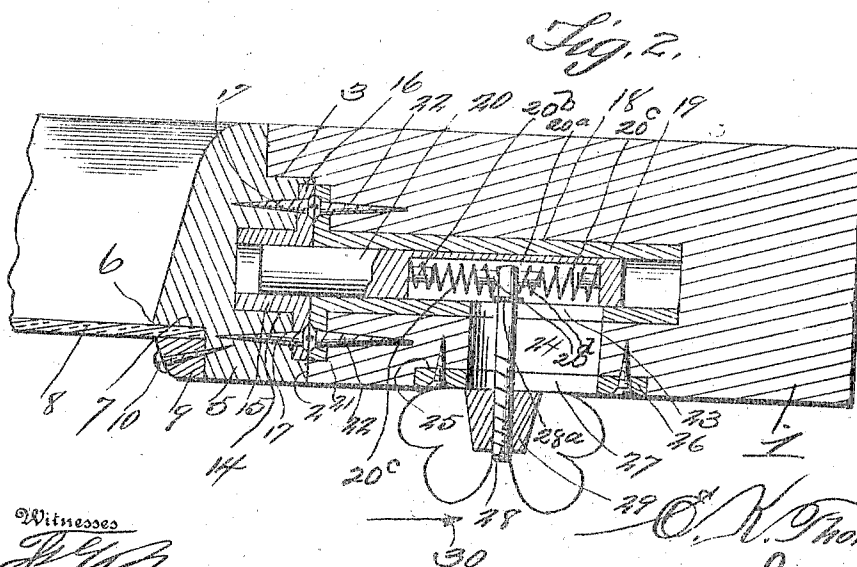
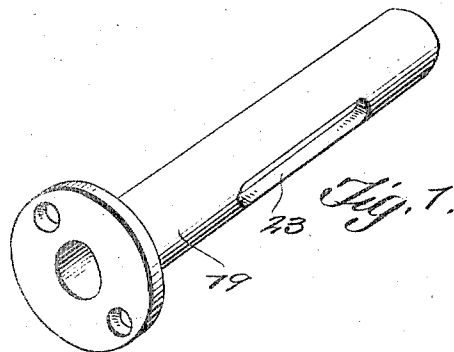


E. K. THOMAS.
BOLT.
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966,780.

Patented Aug. 9, 1910.



Witnesses
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UNITED STATES PATENT OFFICE.

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BOLT.

966,780.

Specification of Letters Patent.

Patented Aug. 9, 1910.

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To all whom it may concern:

Be it known that I, ERNEST K. THOMAS, a citizen of the United States, residing at Corinth, in the county of Saratoga and State of New York, have invented a new and useful Bolt; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates generally to bolts, and particularly to one designed to be used in securing a removable panel in a door.

The object of the invention is to provide an article of this character which is so constructed as to leave both hands of the operator free to secure adjustment of the panel and which is self seating; and which is simple in construction, efficient and durable in use, and which may be readily applied to position without mutilation of the structure with which it is combined.

With the above and other objects in view, as will appear as the nature of the invention is hereinafter set forth in detail, the same consists in the novel construction and arrangement of parts, as illustrated in the drawings and pointed out in the claim.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts:—Figure 1 is a perspective detail view of the bolt casing. Fig. 2 is a horizontal sectional view through a portion of a door and a section of a panel, showing the locking device applied.

Referring to the drawings, 1 designates the upper portion of a door, and 2 a screen arranged within the door thereof, and combined with a suitable frame 3.

The screen is held within the panel by a bolt which forms the essential features of the present invention.

The panel upon its side edges is recessed, as at 14, to receive a thimble or sleeve 15, having flanges 16, which receive screws 17, for fastening the sleeve securely in said recess.

The door, upon the inner edges of the opening is provided with cylindrical elongated bores or recesses 18, to receive a bolt casing 19 for the reception of the bolt 20.

The bolt 20 is provided with a longitudinal channel 20^a which terminates adjacent to the inner end of the bolt. Projecting from the opposed walls of the channel are

two inwardly projecting studs 20^b and these are engaged by one end of a pair of coiled springs 20^c, the other ends of which engage pins 20^d, extending transversely through the inner end of a screw 28, the outer end of which projects through the slots 23, 24 and 27 formed in the bolt casing, the door, and the plate 26. The flanges of this casing is provided with apertures and is received within a recessed portion 21 of the door, which apertures receive screws 22, for the purpose of fastening the casing within the bore or recess. This casing upon its circumference, is provided with an elongated slot 23, which is in registration with a similar elongated slot 24 of the door. Received by a recess 25 of the door proper is a plate 26 also provided with an elongated slot 27, disposed in registration with the elongated slots 23 and 24, as shown in Fig. 2 of the drawings.

The slots 23, 24 and 27 are for the purpose of allowing a screw 28 to move therein, which screw is fastened to the sliding bolt 20. To retain the screw within the bolt channel and against removal, the screw is provided with a washer 28^a, which bears against the inner wall of the bolt casing. Engaging the threaded portion of said screw is a wing nut 29, by which the bolt may be manipulated and by tightening said nut, the bolt may be held in locked relation with the panel of the door. By pushing the bolt in the direction indicated by the arrow 30, the bolt may be removed from the thimble 15, so that the panel may be removed from the opening 2 of the door, as will be clearly manifest. There may be four of these fastening means, used so as to hold the panel in proper position and flush with both faces of the door, each fastening means being similarly constructed, but to simplify the showing in the drawing, only one of the fastening means is disclosed. By this arrangement of the bolt, it is not positively projected, but is acted upon by the spring at the left hand side of the screw when moved to locking position, and by the right hand spring when moved to unlocking position. The object of this arrangement is to enable the operator to force the screw over and secure it in place, and then by manipulating the screen frame to cause the bolt to enter the sleeve 15.

From the foregoing description, it will be seen that while the improvements herein de-

scribed are simple in character, they will be thoroughly effective for the purposes designed, and will co-act in the production of a durable and thoroughly practicable bolt.

5 While the invention is shown and described in conjunction with a door and screen, it is to be understood that its use is not to be limited in this particular, as it may be employed in connection with other
10 removable panels.

I claim:—

An article of the character described, comprising a casing having a longitudinal slot, a bolt arranged therein and provided

with a recess, the opposite walls of which 15
carry pins, a stud screw passing through the slot in the casing and provided with a transverse pin, coiled springs engaging the sets of pins, and a thumb nut carried by the screw.

20 In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNEST K. THOMAS.

Witnesses:

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