

J. R. PAYSON.
Bolt for Doors.

No. 216,695.

Patented June 17, 1879.

Fig. 1.

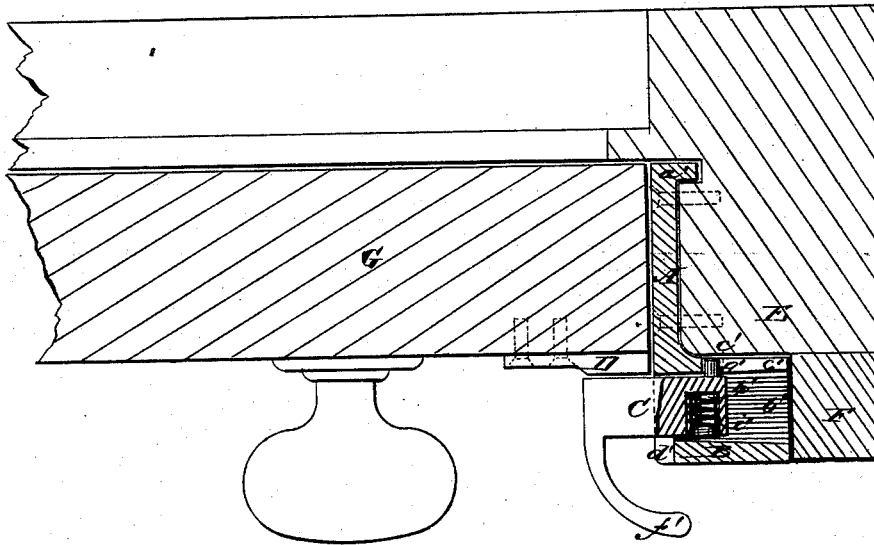


Fig. 2.

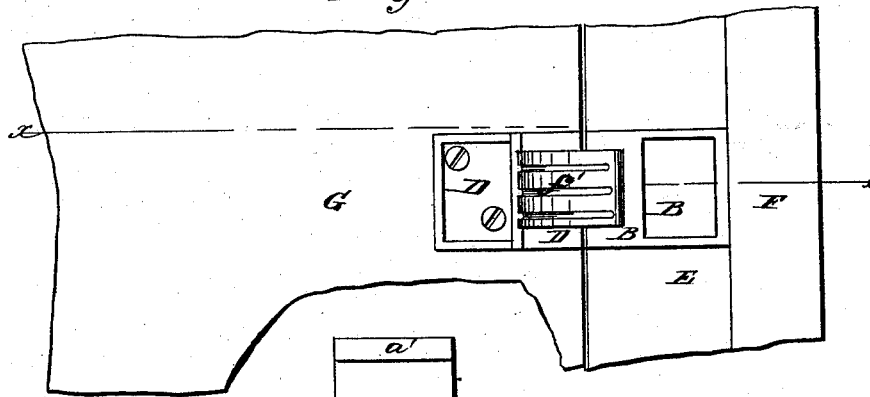
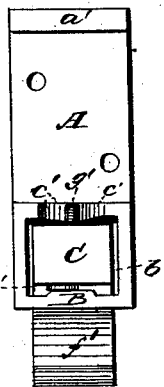


Fig. 3.



WITNESSES:

Francis McArroll.
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JOSEPH R. PAYSON, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN BOLTS FOR DOORS.

Specification forming part of Letters Patent No. **216,695**, dated June 17, 1879; application filed April 18, 1879.

To all whom it may concern:

Be it known that I, JOSEPH ROWE PAYSON, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Door-Bolts, of which the following is a specification.

Figure 1 is a sectional side elevation of the improvement applied to a door-jamb on line *x x*, Fig. 2. Fig. 2 is a front view of the same. Fig. 3 is a rear view of the same.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a compact, strong, inexpensive, and quick-acting door-bolt that can be applied to the jamb or frame of the door without injury to the finish, and be pushed out over the face of the door to fasten it without the use of a socket for the projecting end of the bolt to fit into, and that is not liable to be impeded in its action if the door settles or sags.

The invention consists of a screw-plate, upon the outer end of which, and at a right angle to it, is formed a bolt-frame, in which is inserted a bolt provided with suitable stop, spring, and thumb-piece.

A is a screw-plate, and *a'* is a rectangular projection formed upon the same, to serve as an anchor. Plate A is let in flush to the side of the door frame or jamb E. B is a bolt-frame formed upon the outer end of the plate A; and *b'* is an opening extending through frame B at a right angle to the face of plate A. *c'* is a slot in the rear side of frame B for the stop of the bolt to work in. *d'* is a recess in the front edge of frame B to receive the lip of the bolt. Frame B is let into the edge of the casing F. C is a bolt, which is made to fit and slide freely in opening *b'* of frame B. *f'* is a lip or thumb-piece formed upon the outer end of bolt C, which also serves as a

stop to limit the inward movement of the bolt. *g'* is a stop-pin, which works in slots *c'* and limits the outward movement of the bolt. *h'* is a recess in the bolt C to receive the spring *i'*, which presses outward against the front side of opening *b'* and regulates or steadies the bolt. D is a plate, which is screwed to the face of the door G, as a bearing for the end of the bolt.

In the position as shown in Fig. 1, with the bolt C pushed out over the plate D upon the door G, the latter is prevented from being opened from the outside.

To release the door, the bolt C is simply pushed back into the frame B. If, by chance, the bolt C is pushed out when the door is open, it will be thrown back by the door in closing, the edge of the door striking against the lip or thumb-piece *f'* of the bolt C. If the door settles it will not impede the action of the bolt.

The bolt combines great strength with a quick and easy movement.

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

1. Bolt C, with inclined lip or thumb-piece *f'*, in combination with frame B, opening *b'*, and plate A, substantially as shown, and for the purpose described.

2. The within-described door-bolt, consisting of plate A, having a rectangular projection, *a'*, frame B, opening *b'*, slot *c'*, recess *d'*, bolt C, lip or thumb-piece *f'*, stop *g'*, recess *h'*, and spring *i'*, constructed substantially as herein shown and described.

JOSEPH ROWE PAYSON.

Witnesses:

J. A. PAYSON,
GEO. A. PAYSON.