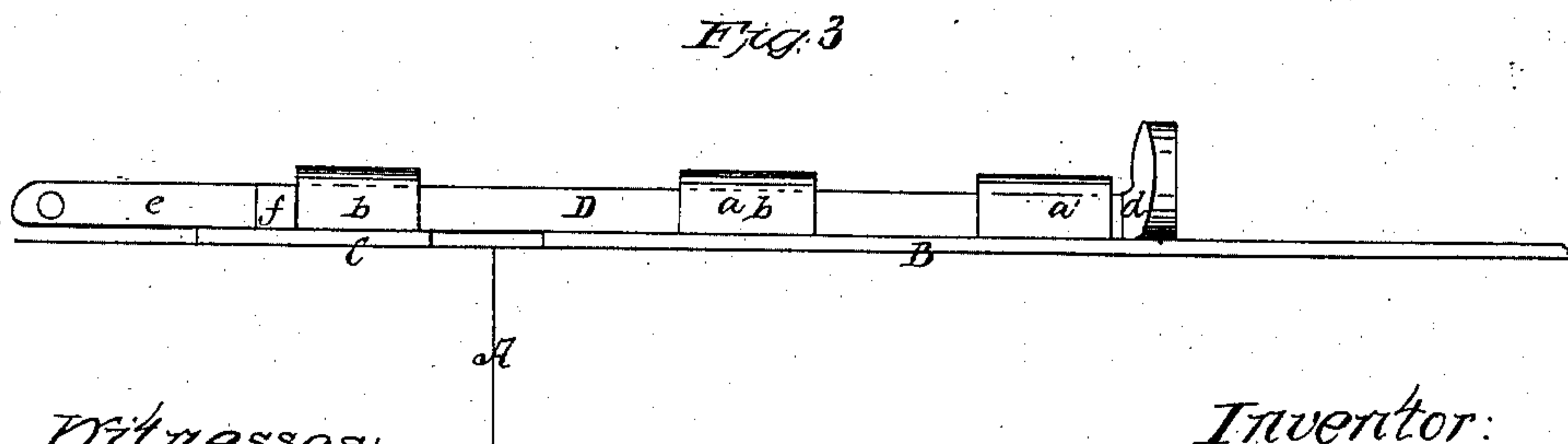
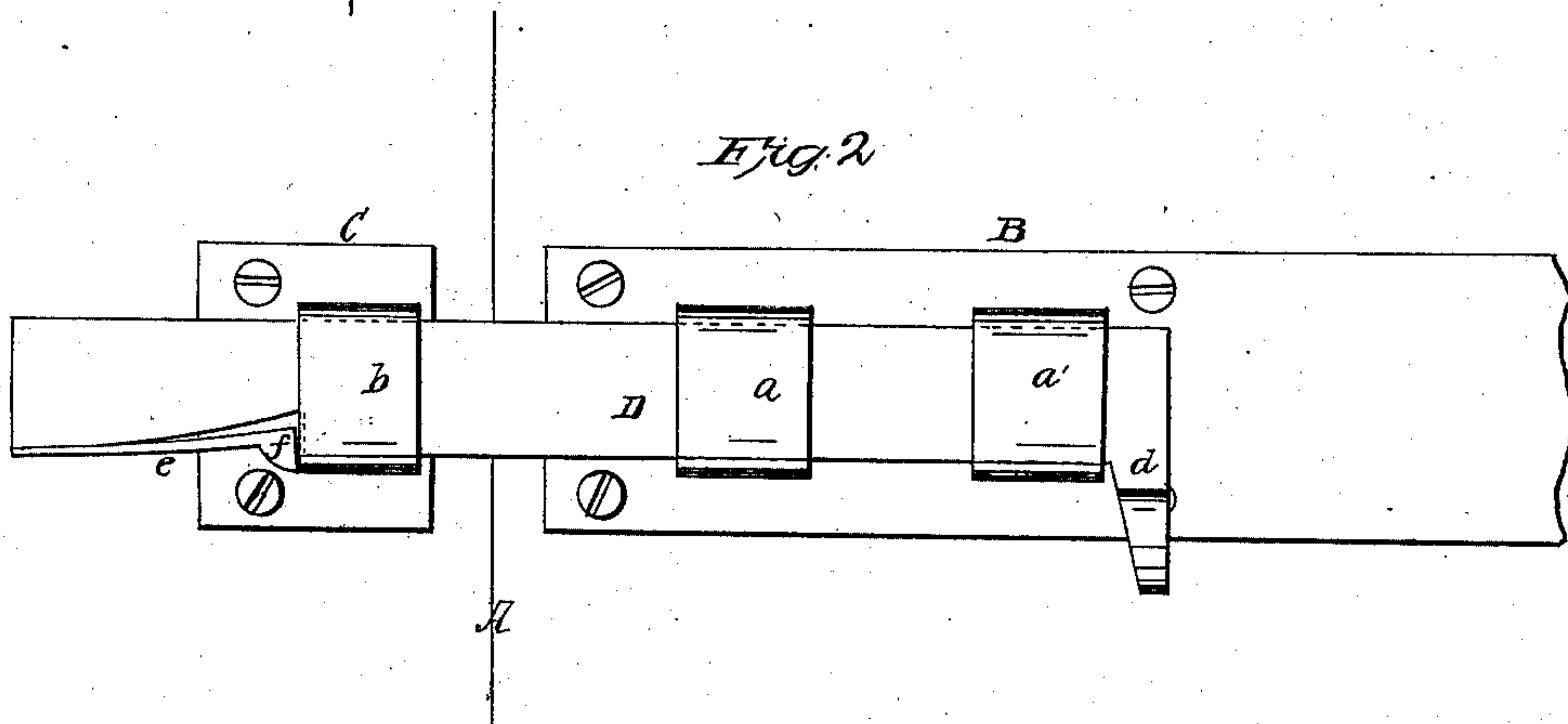
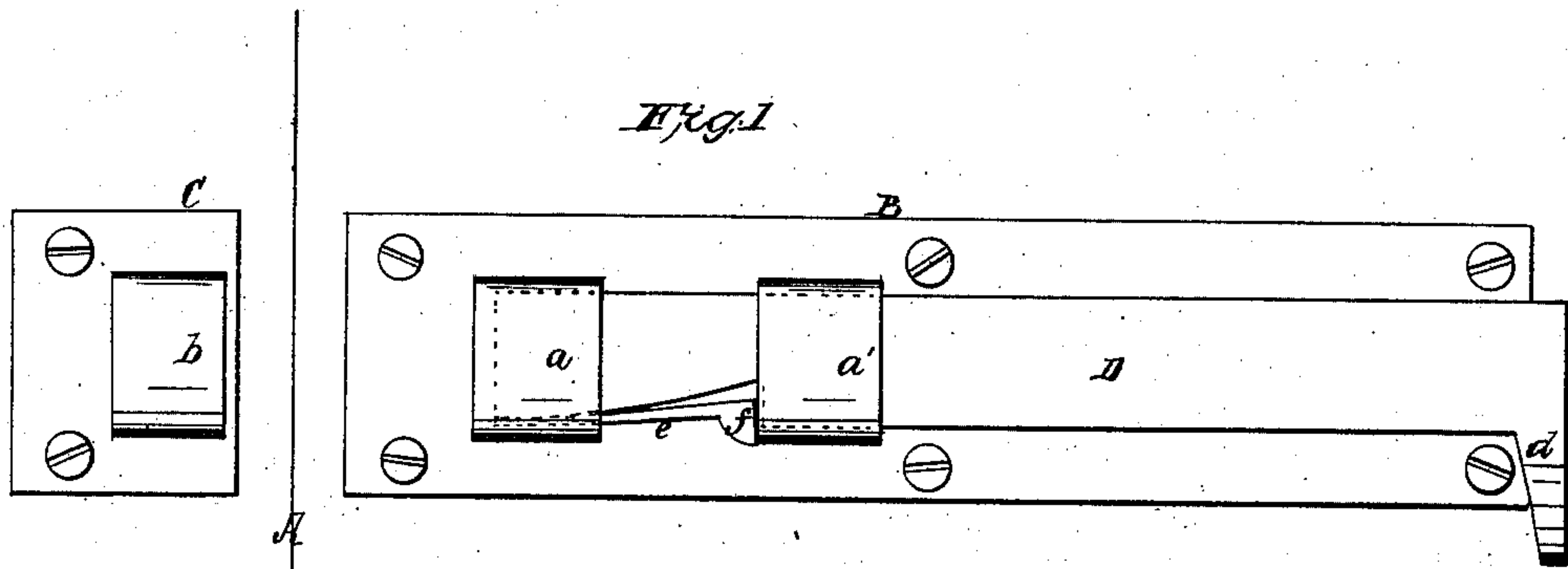


*T. Warner,*  
*Shutter Bolt.*

*N<sup>o</sup> 43,145.*

*Patented June 14, 1864*



*Witnesses:*

*A. Albert Hall.*  
*C. E. Foster.*

*Inventor:*

*Henry Howson*  
*Atty for T. Warner*

# UNITED STATES PATENT OFFICE.

THOMAS WARNER, OF GERMANTOWN, PENNSYLVANIA.

## IMPROVEMENT IN BOLTS FOR SHUTTERS.

Specification forming part of Letters Patent No. 43,145, dated June 14, 1864.

*To all whom it may concern:*

Be it known that I, THOMAS WARNER, of Philadelphia, Pennsylvania, have invented an Improvement in Bolts for Shutters, Doors, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists of a bolt with a spring having a projection of peculiar form, in combination with certain plates and staples, or their equivalents, the whole being constructed in the peculiar manner described hereinafter, so as to render the retraction of the bolt from the outside of the shutter or door to which it is applied a matter of difficulty.

In order to enable others to make and apply my invention, I will now proceed to describe its construction and operation.

On reference to the accompanying drawings, which form a part of this specification, Figures 1 and 2 are front views of my improved bolt for shutters, &c., and Fig. 3 an inverted plan view.

A represents the line of junction of two shutters with each other, or of a door with the door-jamb, the plate B being secured to one shutter or to the door, and the plate C to the other shutter or to the door jamb. Two staples or guides, *a* and *a'*, are secured to or form a part of the plate B, and a similar staple or guide is secured to or forms a part of the plate C, all these staples being arranged for the reception and guiding of the bolt D, which is furnished at the rear end with a suitable projecting handle, *d*. The under edge of this bolt near the front end is cut away, as seen in Figs. 1 and 2, and one end of a spring, *e*, is secured to this portion of the bolt, the other end of the spring having a projection, *f*, one end of which is straight,

the other end being rounded. When the bolt is drawn back, as seen in Fig. 1, the vertical edge of this projection *f* bears against the staple *a'* and prevents the further retraction of the bolt. On moving the bolt forward the rounded edge of the projection *f* of the spring *e* will strike the staple *a*, and the spring will consequently yield and permit the end of the bolt to be projected into the staple *b* of the plate C. After the projection *f* has passed the staples *b*, the spring will recoil, and will prevent the retraction of the bolt until such a pressure is applied to the spring that the projection can pass through the staple.

It will be evident that my improvement presents a formidable obstacle to the attempt of burglars to withdraw the bolt from the outside of the shutter or door, for should the usual plan of boring the shutters be resorted to it would be necessary to make holes at two points, which cannot readily be determined upon from the outside, and when the holes are completed the necessity of using two hands, one for the compression of the spring and the other for withdrawing the bolt, presents a further obstacle.

I claim as my invention and desire to secure by Letters Patent—

The bolt D, its spring *e*, and the projection *f*, straight on one edge and rounded on the other, in combination with the plates B and C, and their staples and their equivalents, the whole being constructed and arranged substantially as and for the purpose herein set forth.

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

THOMAS WARNER.

Witnesses:

CHARLES E. FOSTER,  
JOHN WHITE.