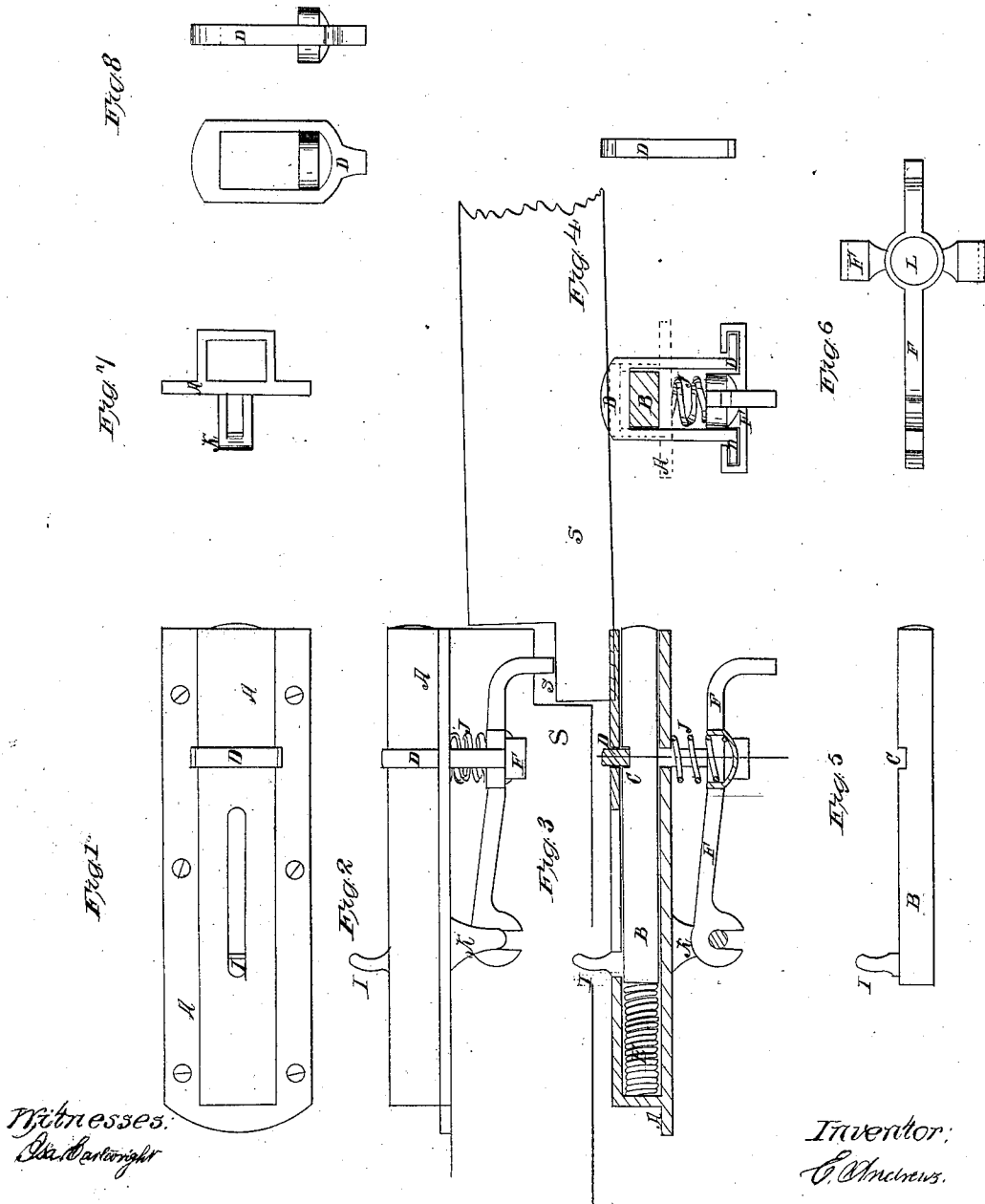


E. Andrews,

Shutter Bolt.

N^o 4,5963.

Patented Jan. 24, 1865.



UNITED STATES PATENT OFFICE.

EDWARD ANDREWS, OF PALO ALTO, PENNSYLVANIA.

IMPROVED SHUTTER-BOLT.

Specification forming part of Letters Patent No. **45,963**, dated January 24, 1865.

To all whom it may concern:

Be it known that I, EDWARD ANDREWS, of Palo Alto, in the county of Schuylkill and State of Pennsylvania, have invented a new and Improved Shutter-Bolt; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, the letters of reference in the various figures corresponding.

Figure 1 is a front view complete. Fig. 2 is a side view of the bolt complete, showing the shutters S S. Fig. 3 is a transverse view of the interior arrangement, and also showing the lever F under the bolt-case A and bolt B, with the spiral spring E operating against end of B. Fig. 4 is a view of cross-section through red line at C, showing the latch D connecting with the lever F and spring J, the spring J operating against bolt-case A and lever F. Fig. 5 is a detached side view of bolt B, showing the notch C and bolt-shifter I. Fig. 6 is a front view of lever F, showing the pocket L for spiral spring J to rest in. Fig. 7 is an end view of bolt-case A. Fig. 8 is a view of latch D with pocket for the spring J.

The object of my invention is to provide a shutter-fastening that will bolt itself when the shutters are closed to their proper position.

For this purpose I construct a sliding bolt similar to those in common use, having a slot crosswise through bolt-case, as shown at D, Fig. 1, to admit the latch D into it, as shown at Fig. 4—the latch D allowing the bolt B to slide under it freely, the bolt B having a

notch, as shown at C, for the latch D to fit in. The latch D connects to lever F, having a spring, J, resting in it, and operating against bottom of bolt-case A and latch D. The lever F is held in position by the fulcrum K, Fig. 2, and extends to be operated upon by the closing shutter at z, Fig. 2.

The manner of using my shutter-bolt is as follows: The bolt B being drawn back by the shifter I, the latch D is forced into notch C by the spring J, and held in this position until the shutter S strikes the lever F, as shown at z, Fig. 2, which raises the latch D out of notch C and allows the spring E to force the bolt into pocket on the opposite shutter.

I wish it distinctly understood that I do not confine myself to the position of F or D, shown in drawings, as they may be modified to suit differently-constructed shutters. The lever F may be dispensed with, and the latch D constructed as shown at Fig. 8, and placed at or near end of bolt-case, and allow the shutter to strike direct on latch D.

Having thus fully described the nature of my invention, the use, and manner of using it, what I desire to secure by Letters Patent of the United States is—

The combination and arrangement of the bolt B, the latch D, lever F, and springs E and J, when used for the purpose herein fully described.

E. ANDREWS.

Witnesses:

ISA. CARTWRIGHT,
D. A. LEIB.