(No Model.)

A. CORN.

BOLT.

No. 305,294. Patented Sept. 16, 1884.

Fig. 1.

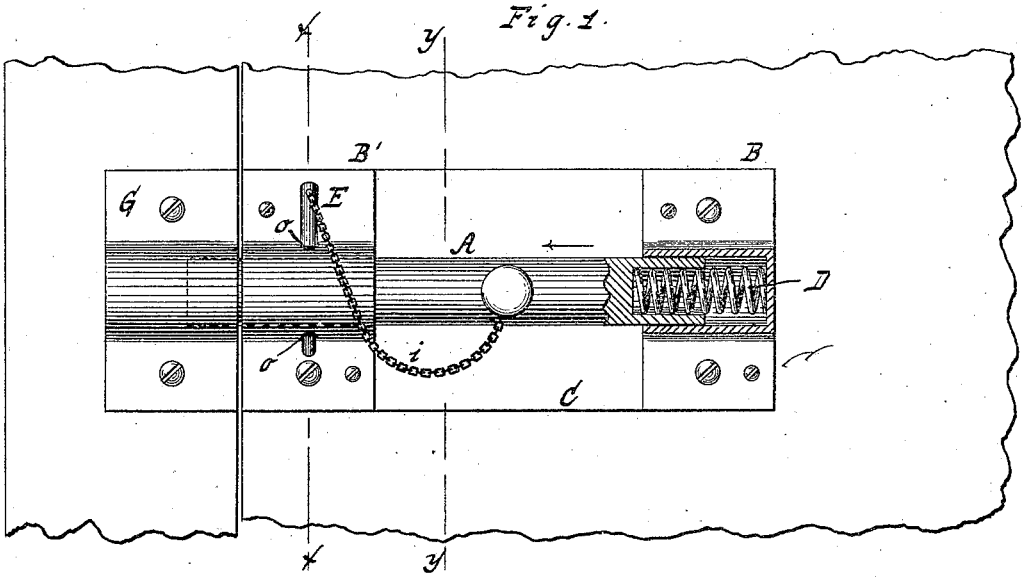


Fig. 5.

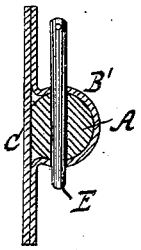


Fig. 2.

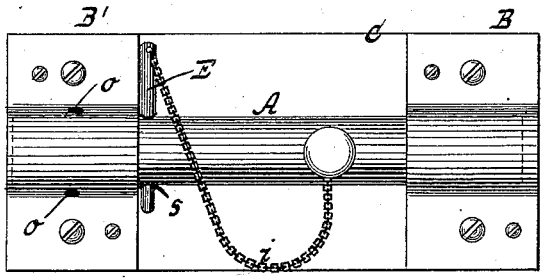


Fig. 6.

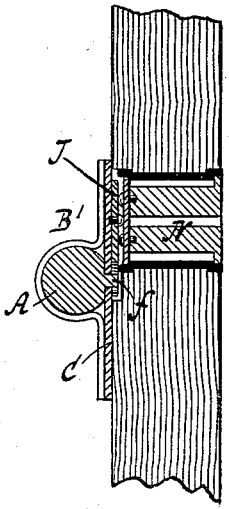


Fig. 3

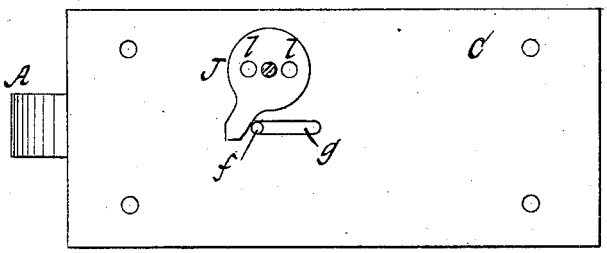
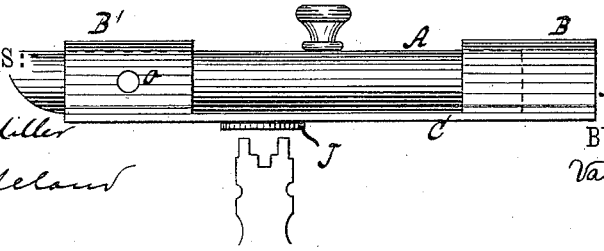


Fig. 4.



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BOLT.

SPECIFICATION forming part of Letters Patent No. 305,294, dated September 16, 1884.

Application filed April 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM CORN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Door-Bolts, of which the following is a specification.

This invention relates to means for operating door-bolts; and it consists in the novel features of construction hereinafter described, whereby such bolts are rendered self-acting and are adapted to be firmly locked either in a closed or open position, in addition to being capable of retraction by means of a key.

In the accompanying drawings, Figure 1 is a front view of my bolt when in a closed position. Fig. 2 is a similar view thereof when in an opened position. Fig. 3 is a rear view, and Fig. 4 a top view, of the same when in a closed position. Fig. 5 is a cross-section on the line *x x* of Fig. 1; and Fig. 6, a similar section on the line *y y*, Fig. 1.

Similar letters indicate corresponding parts.

The letter A designates the bolt proper, which is fitted into guides B B′, secured to a back plate, C. In the guide B is inclosed a spring, D, which acts on the bolt with a tendency to impel the same in the direction of the arrow shown in Fig. 1, causing it to engage a keeper, G, and thus assume a closed position, the free end of the bolt being beveled, so that it may be displaced by the keeper in shutting the door. In the guide B′ are two apertures, *o*, coinciding with each other, and in the bolt is an aperture, *s*, which registers with the guide-apertures when the bolt is in a closed position and is adjacent to one edge of the guide when the bolt is in an opened position, so that when the bolt is in a closed position a pin, E, may be inserted in the apertures of both the guide and bolt, as shown in Figs. 1 and 5, while when the bolt is in an opened position this pin may be inserted in the bolt-aperture alone, as shown in Fig. 2, thus locking the bolt in either position. The locking-pin E is fitted to the apertures *o s*, and is connected to the bolt by a chain, *i*, to obviate its loss or misplacement. On the bolt A is a pin, *f*, projecting through a slot, *g*, which is formed in the back plate, C, in the plane of the bolt, so that this pin and slot not only regulate the positions of the bolt, but also prevent it from rotating, which is essential to its correct operation. The back plate, C, carries a dog, J, which is adapted to engage the pin *f* of the bolt, and is constructed with holes *l*, to receive a suitable key, so that an oscillating motion may be imparted to the dog by means of the key, for retracting the bolt.

In applying the bolt to a door, the dog J is arranged in proper relation to a key-slot in a rotating spindle, N, which is inserted in the door at the proper place.

What I claim, and desire to secure by Letters Patent, is—

A door-bolt consisting of the back plate, C, having the attached end guides, B B′, the latter constructed with coincident apertures *o o*, the sliding and non-rotating bolt A, having its ends arranged in the guides, and provided with the transverse aperture *s*, the removable and replaceable pin E, adapted to pass through the bolt and the apertured guide when the bolt is shot forward, and to pass through the bolt alone and bear against the inner edge of the apertured guide when the bolt is retracted, and a chain or equivalent device for preventing loss of the pin, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

ABRAHAM CORN. [L. S.]

Witnesses:

CHARLES WAHLERS,

WILLIAM MILLER.