

J. MITCHELL.
SHUTTER-BOLT.

No. 170,104.

Patented Nov. 16, 1875.

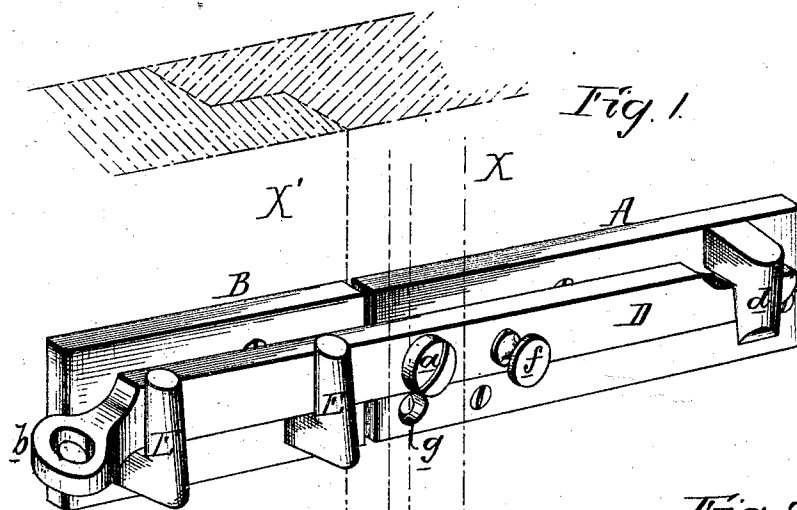


Fig. 1

Fig. 2

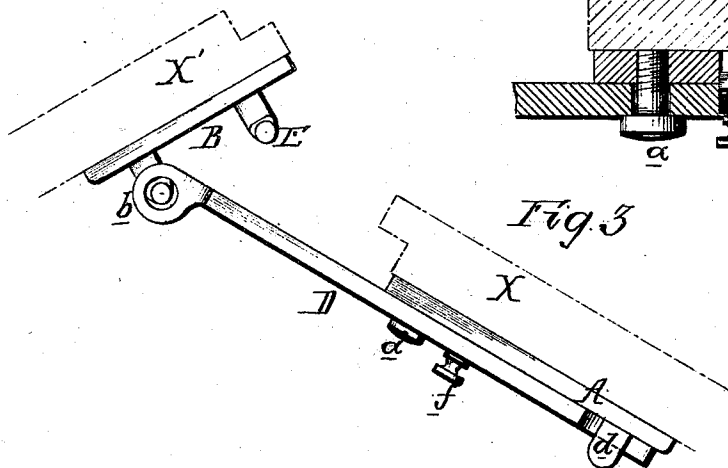
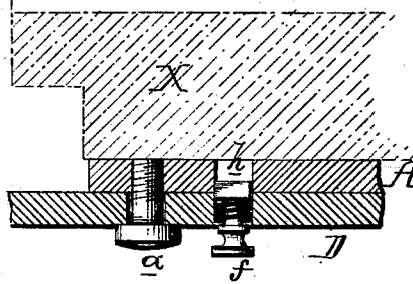


Fig. 3

Witnesses, Harry Smith
Thomas McLean

John Mitchell
by his Attorneys,
Howson and Son

UNITED STATES PATENT OFFICE.

JOHN MITCHELL, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SHUTTER-BOLTS.

Specification forming part of Letters Patent No. **170,104**, dated November 16, 1875; application filed October 2, 1875.

To all whom it may concern:

Be it known that I, JOHN MITCHELL, of Philadelphia, Pennsylvania, have invented an Improved Shutter Bolt and Retainer, of which the following is a specification:

The object of my invention is to construct a simple and efficient device which can be used either for locking or unlocking shutters, or for retaining the same in a bowed condition; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a perspective view, illustrating my improvement; Fig. 2, an enlarged section of a portion of the same; and Fig. 3, a plan view, showing the manner of using the bolt as a shutter-retainer.

A and B are two flat plates, secured one to one shutter, X, and the other to the other shutter, X'. To the plate A is pivoted a bar, D, by means of the pin *a*, and the plate B is provided with two hooked projections, E E, within which the bar can rest, as shown in Fig. 1. The outer end of the said bar D is provided with an eye, *b*, and its inner end is adapted to a hooked projection, *d*, near the outer end of the plate A, this projection receiving and retaining the inner end of the bar when the shutters are locked. The bar D is retained in the horizontal position, (shown by

plain lines,) as well as in its vertical position, (shown by dotted lines,) by means of a spring-bolt, *f*, the enlarged inner end of which fits into one or other of two openings, *g* and *h*, in the plate A, according to the position of the bar.

When the device is to be used for retaining the shutters in a partially-closed position the eye *b* on the end of the bar D is placed over one of the hooked projections E, and the said bar is then adjusted to a horizontal position, where it is retained by the spring-bolt *f*, so that any movement of either of the shutters is effectually prevented.

I claim as my invention—

1. The plate A, having the hooked projection *d*, and carrying a pivoted bar, D, provided at its outer end with an eye, *b*, in combination with the plate B and its two hooked projections, E E, all substantially as set forth.
2. The bar D and its spring-bolt *f*, in combination with the plate A and its openings *g* and *h*, as and for the purpose specified.

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

JOHN MITCHELL.

Witnesses:

JOHN M. DEEMER,
HARRY SMITH.