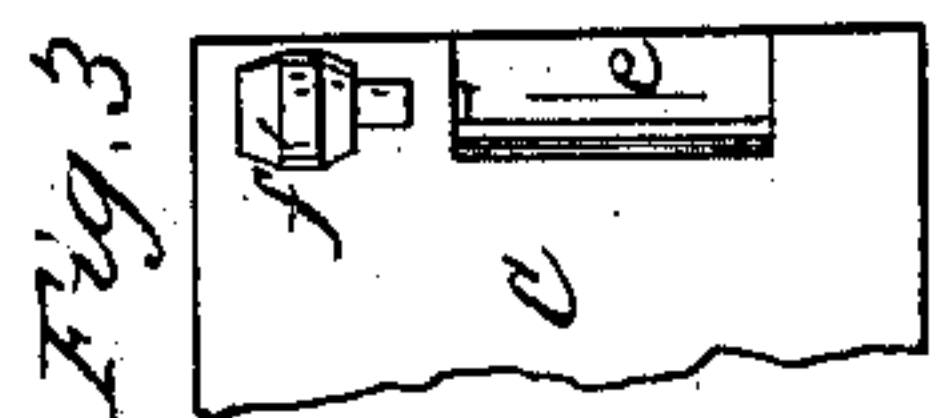
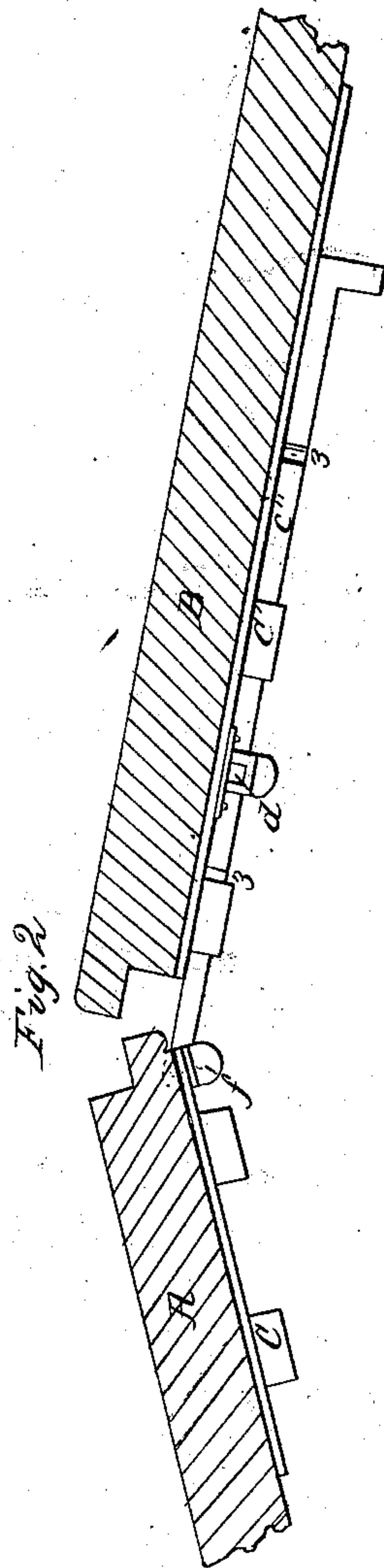
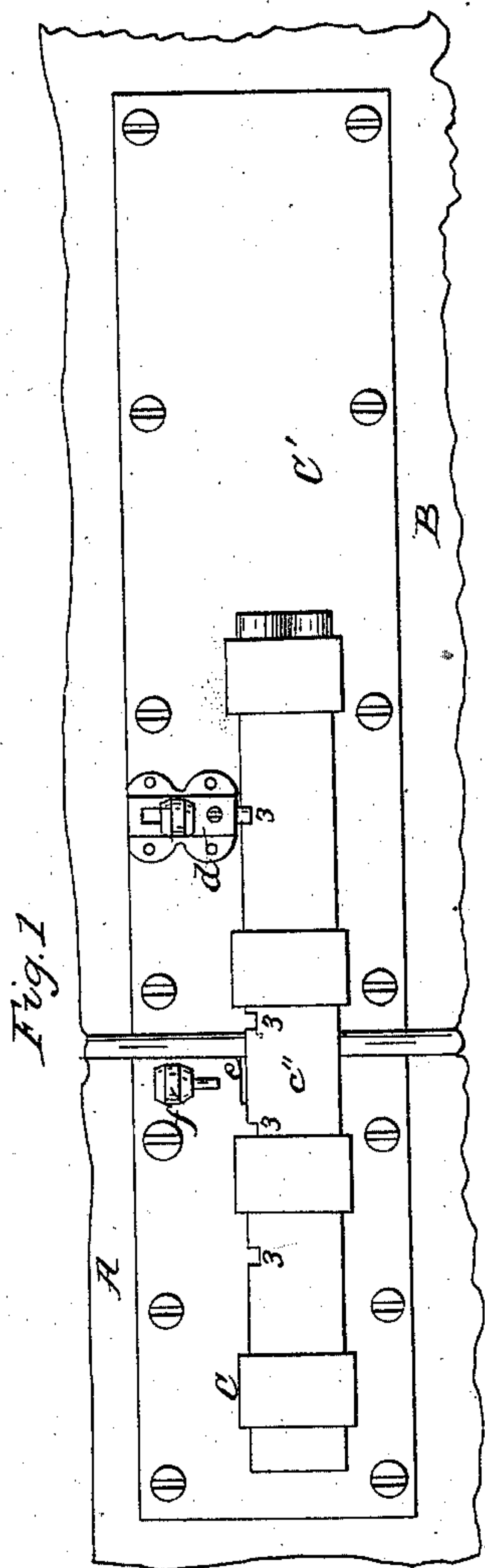


*W. H. Fitzgerald,*  
*Shutter Bolt.*

*N<sup>o</sup> 70,428.*

*Patented Nov. 5, 1867.*



*Witnesses:*

*Per Myerson*

*William R. Smith*

*Inventor:*

*Walter H. Fitzgerald*

# United States Patent Office.

WALTER H. FITZGERALD, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR  
TO HIMSELF AND W. H. SEXTON, OF THE SAME PLACE.

*Letters Patent No. 70,428, dated November 5, 1867.*

## IMPROVED SHUTTER-BOWING BOLT.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WALTER H. FITZGERALD, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Bolts for Window-Shutters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front view of the said improved bolt, as applied, the shutters and bolt being closed.

Figure 2, a top or edge view of the same, the shutters being "bowed;" and

Figure 3, a front view of a section of the left-hand or half of the said bolt, showing a recess and drop-bolt thereat for receiving and holding the end of the main bolt-bar, when used as a bower—

Like letters and numbers of reference indicating the same parts when in the different figures.

My invention relates to those bolts which are constructed to serve the twofold purpose of securing window-shutters together, in either a closed or bowed position, and consists in the peculiar arrangement and combination therewith of the devices hereinafter described and specified, whereby a more reliable, durable, and easily operated fastening for window-shutters, in either the closed or bowed position, is produced.

Referring to the drawings, A B are the window-shutters, and C C' the two halves of the bolt applied thereto. The bolt-bar *c''* slides in the two halves C C' of the bolt in the usual manner, except that, as there is not any fixed "stop" in rear of the bolt-bar as heretofore, the latter can at any time be freely drawn entirely out or removed for painting, &c. Instead of the said fixed stop for the bolt-bar, there is a small friction-bolt, *d*, secured to the plate *c'* in a vertical position, just above the bolt-bar C'', so that its lower end can be pushed down with facility, into or up out of any one of an indefinite series of rectangular notches, 3 3 3, which are cut in the upper edge of the bolt-bar *c''*. Two of these notches, 3, are placed so that the bolt-bar *c''* can be locked by the entrance of the friction-bolt *d* in either a fully backward or a fully forward position, whilst the intermediate notches are arranged to suit the different degrees of bowing the shutters A B that may be desired. In the inner or forward end of the plate C there is a recess, *e*, which is open in front and formed for the accurate reception of the rounded forward end of the bolt-bar *c''* in bowing the shutters. It is "let in" the edge of the shutter A, (see fig. 3,) and immediately above it is a small friction-bolt, *f*, which is secured to the plate C in a vertical position, and with its lower end passing through a small hole in the same into the recess *e*, so that it can be either raised out of or pushed down into the said recess sufficiently, as occasion may require. And in the rounded end of the bolt-bar *c''* there is a corresponding vertical hole for the reception of the lower end of the said small friction-bolt *f*, when the said end of the bolt-bar *c''* is in the recess *e*, (see the dotted lines in fig. 2.)

### Operation.

After the shutters A B are closed and the bolt-bar *c''* shot forward, as in fig. 1, the small friction-bolt *d* is then pushed downward, and, its lower end entering the notch 3 which is immediately under it, locks the bolt *c''* in place; and when the latter is released from *d* and drawn back, it can be either locked back by means of the said friction-bolt *d* or drawn entirely out for painting, as occasion may require. In bowing the shutters A B the forward end of the bolt-bar *c''* is pushed into the recess *e* in the plate C, and the small friction-bolt *f* pushed downward, so that its lower end enters the vertical hole in the end of *c''*, and then the latter is slid forward and the friction-bolt *d* pushed down into the nearest one of the series of notches 3, thus securing the shutters firmly in the bowed position required, (see fig. 2.) The friction-bolts *d* and *f* are intended to be made of brass to avoid rusting. This is a very simply-constructed, inexpensive, and reliable bolt for fastening shutters in either the bowed or the closed position, prevents rattling, and affords facility in painting the same.

Having thus fully described my improvement in shutter-bolts, what I claim as new therein of my invention, and desire to secure by Letters Patent, is confined to the following, viz:

1. I claim, in combination with a shutter-bolt, the small friction-bolt *d* on the plate C, and the notches 3-3 in the bolt-bar *c''*, the same being arranged to operate together as a stop or lock for the bolt-bar, substantially as set forth and described.

2. I also claim, in combination with the subject-matter of the preceding clause of the claim, the small friction bolt *f* and the recess *e* in the plate C, and the vertical hole in the forward end of the bolt-bar *c''*, the same being arranged to operate together substantially as and for the purpose set forth and described.

WALTER H. FITZGERALD.

Witnesses:

BENJ. MORISON,  
WM. K. SMITH.