

R. M. JOHNSON.
Combined Shutter Fasteners and Bowers.
No. 196,582 Patented Oct. 30, 1877.

Fig. 1.

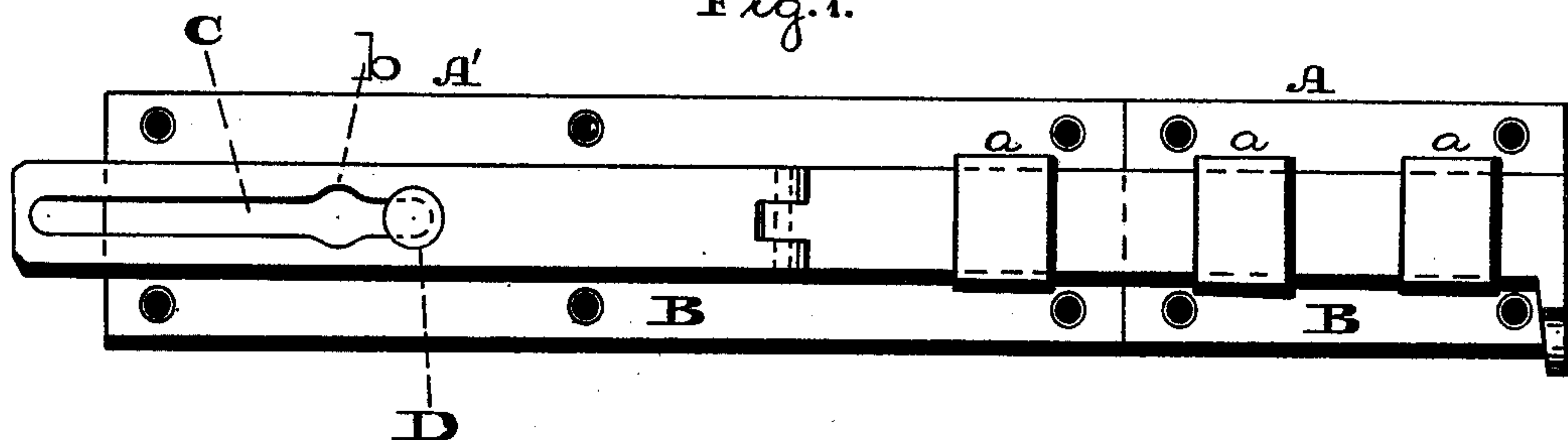


Fig. 2.

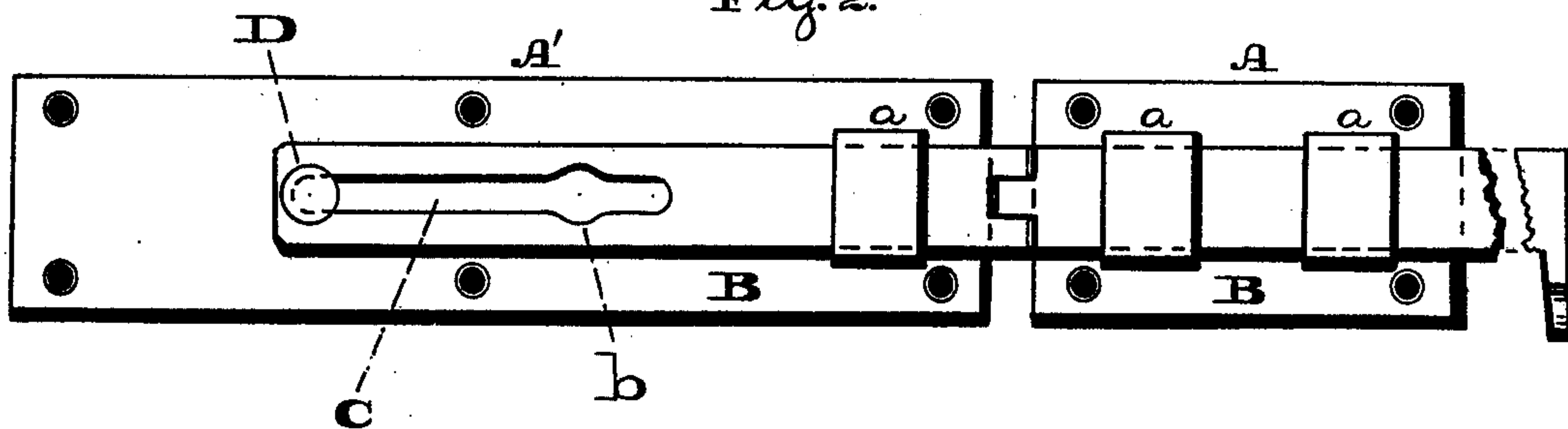


Fig. 3.

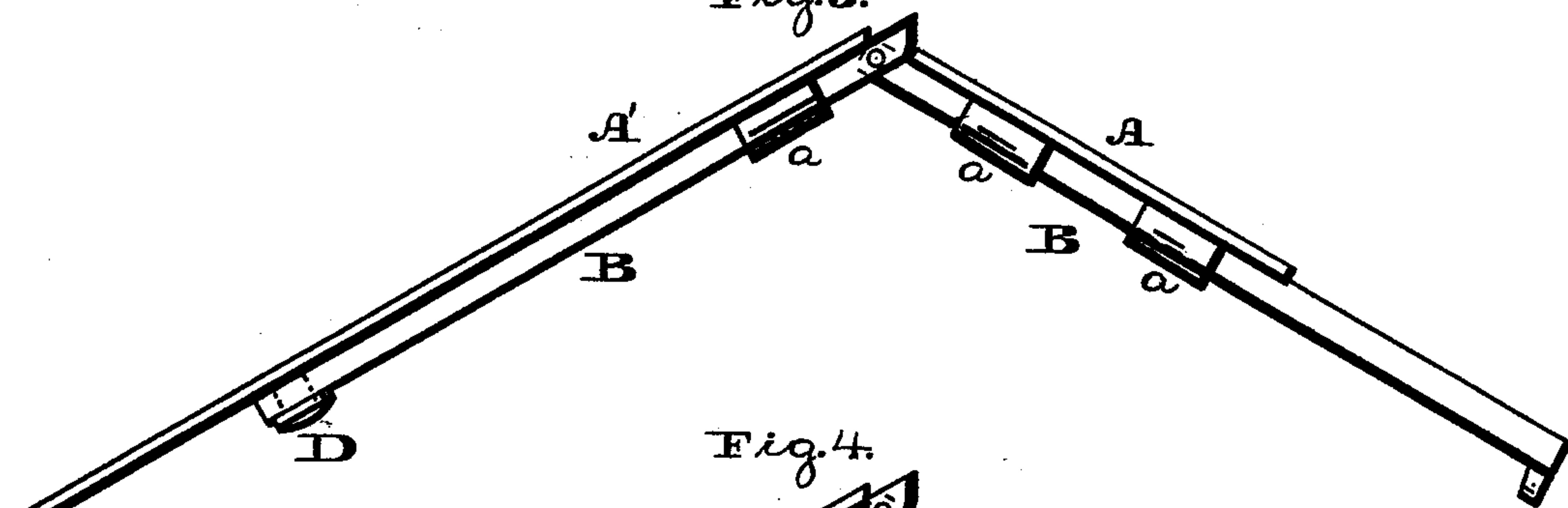
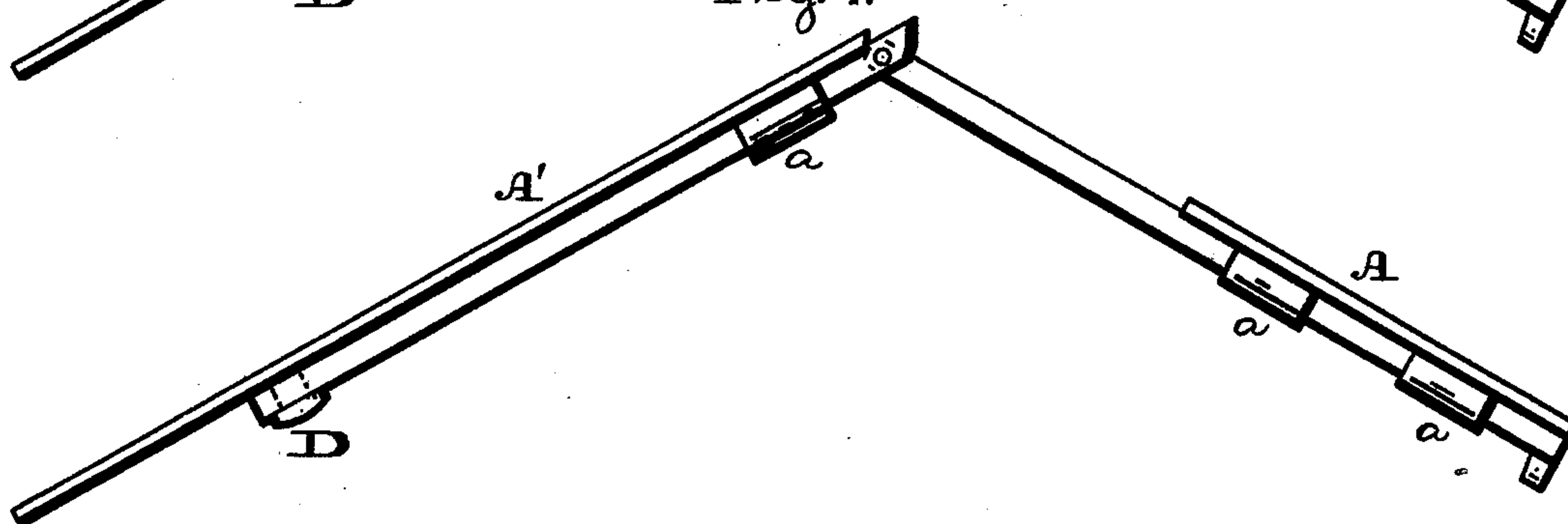


Fig. 4.



Witnesses:
Lewis F. Brown?
No. P. Grant.

Inventor:
R. M. Johnson.
by *John A. Dierschheim*
Attorney.

UNITED STATES PATENT OFFICE.

ROBERT M. JOHNSON, OF HAINESPORT, NEW JERSEY.

IMPROVEMENT IN COMBINED SHUTTER FASTENER AND BOWER.

Specification forming part of Letters Patent No. **196,582**, dated October 30, 1877; application filed August 24, 1877.

To all whom it may concern:

Be it known that I, ROBERT M. JOHNSON, of Hainesport, in the county of Burlington and State of New Jersey, have invented a new and useful Improvement in Shutter Fasteners and Bowers, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figures 1 and 2 are face views of the fastener and bower embodying my invention. Figs. 3 and 4 are top views, showing the operation thereof.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a sliding bolt formed of two or more hinged sections, one only of which is slotted, and engages with a pin or stud on one of the face-plates, the pin entering the slot through a swell formed in slot intermediate of the ends of the latter, whereby the shutter may be readily fastened, and likewise bowed, without liability of being opened from the outside.

Referring to the drawings, A A' represent two face-plates, and B a sliding bolt, which is passed through bosses or keepers *a* on said plates.

The bolt B is formed of two or more sections, hinged together in such a manner that the section which is adapted to rest against the plate A' may be swung therefrom; and said section is formed with a longitudinally-extending slot, C, at a point between the ends of which is a swell or enlargement, *b*, for the entrance of the head of a pin or stud, D, secured to and projecting from the plate A, at such locality that when the head of the pin and the swell *b* register the hinged section may be moved out from the plate A', and when said head overlaps the sides or walls of the main length or narrow part of the slot C the bolt will be locked or fastened to said plate A'.

The operation is as follows: When the shutter is to be fastened, and the two parts thereof are fully closed, the bolt will be pushed partially through the keepers *a*, and the hinged section raised sufficiently to pass over the pin or stud D, until the swell *b* is in line with the head of said pin. Now press the hinged sec-

tion against the plate A', and slide the bolt to the full extent of the slot C, whereby the head of the pin will overlap the walls of the narrow or main portion of the slot, and the hinged section of the bolt will be prevented from being swung from the plate A', the bolt thus being fastened or locked, the position of the parts being shown in Fig. 1.

In order to unlock the bolt, it is necessary to draw the same until the head of the pin D and the swell *b* of the slot C are in line or register, when the bolt may be swung from the plate A', clear of the pin D, and the subsequent withdrawal of the bolt clear of the keeper of the plate A may be readily accomplished.

When the shutters are to be bowed, the bolt being in position, Fig. 1, or moved to such position that the pin D may enter the swell *b*, the bolt will be moved to the full extent of the slot C, in the direction opposite to that shown in Fig. 1, whereby the joint of the hinged sections of the bolt will clear the keeper of the plate A', and be located at the joint of the two shutters, or at or near the place of union of the two plates A A'. (See Fig. 2.) The bolt is now locked; but the joint of the hinged sections thereof is uncontrolled, and thus the shutters may be pushed out or bowed, the bolt giving at its joint, as will be seen in Figs. 3 and 4, the shutters being bowed to full or partial extent, with liability of being opened or disengaged from the outside.

To open or again fasten the shutters, the latter must be closed, whereby the bolt is in position for such purposes.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The face-plates A A', keepers *a a*, and stud D, in combination with the hinged bolt B, one section of which is formed with the slot C, having a swell, *b*, intermediate of the ends of the slot, substantially as and for the purpose set forth.

ROBERT M. JOHNSON.

Witnesses:

JNO. A. WIEDERSHEIM,
SAML. M. GRICE.