

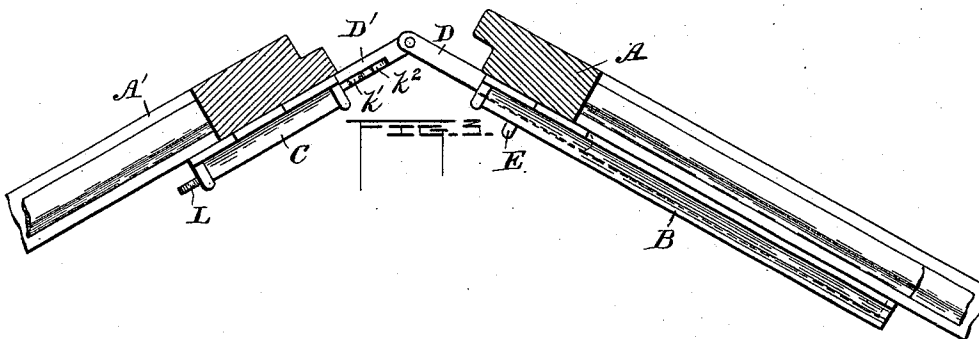
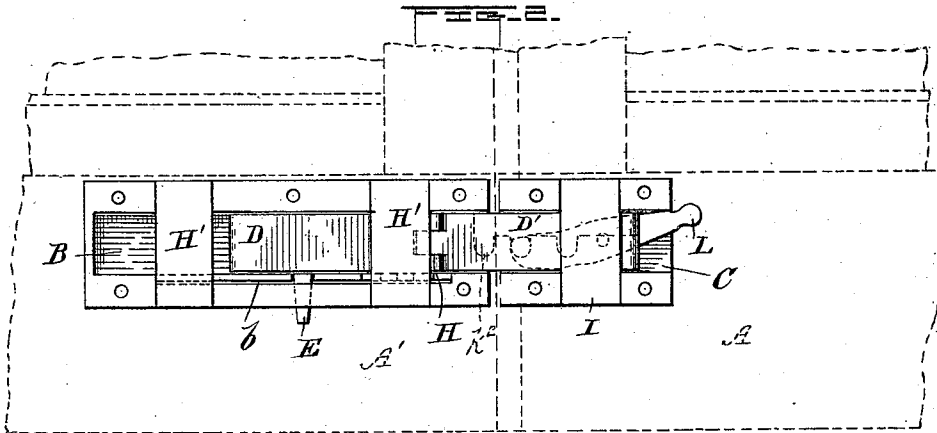
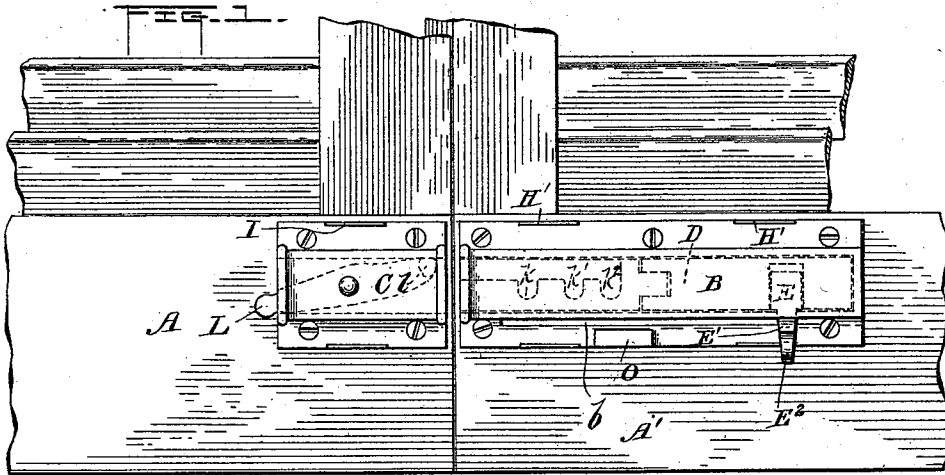
(No Model.)

2 Sheets—Sheet 1.

A. ISKE.
SHUTTER BOWER.

No. 468,941.

Patented Feb. 16, 1892.



Witnesses

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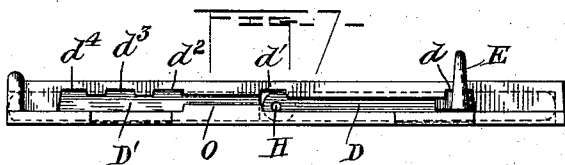
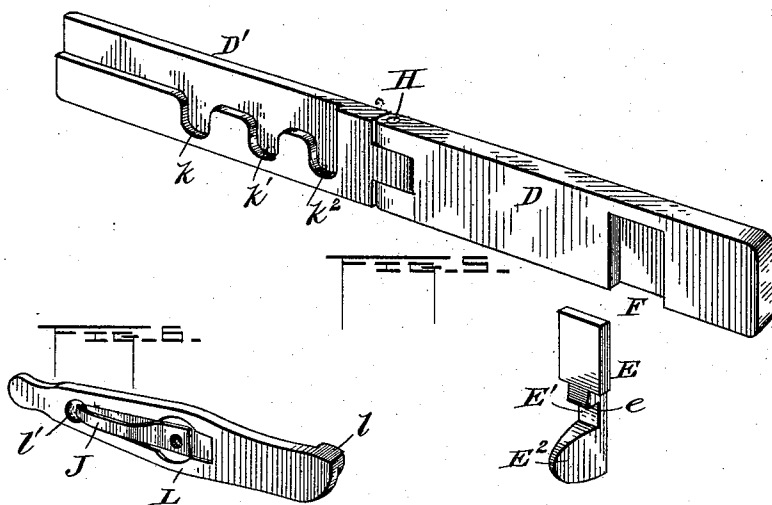
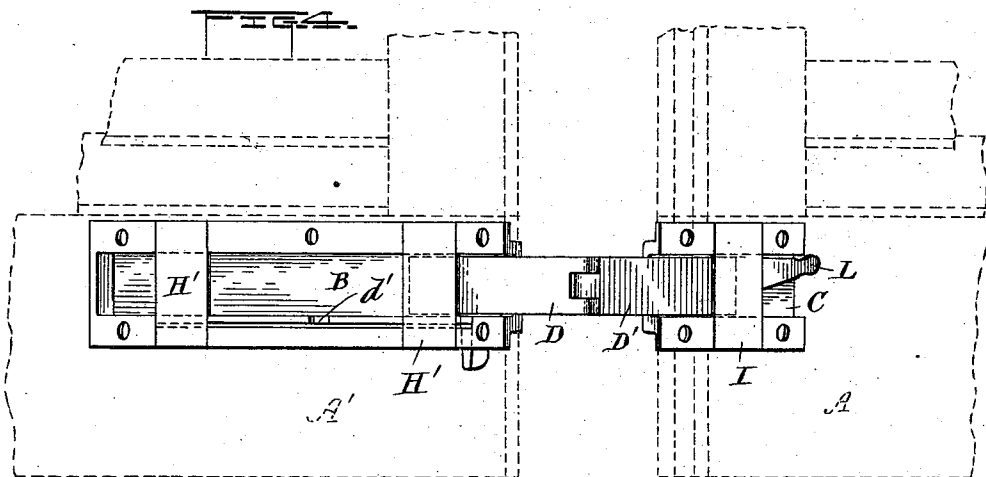
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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

ALBERT ISKE, OF LANCASTER, PENNSYLVANIA.

SHUTTER-BOWER.

SPECIFICATION forming part of Letters Patent No. 468,941, dated February 16, 1892.

Application filed June 15, 1891. Serial No. 396,344. (No model.)

To all whom it may concern:

Be it known that I, ALBERT ISKE, a citizen of the United States, residing at Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Shutter-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved shutter-fastening and shutter-bowing device consisting of a bolt, a catch and staple engaging therewith, and parts locking said bolt either in its inner or its outer position or in any intermediate position for bowing, the said bolt consisting of two parts hinged together and being otherwise adapted to the operations above described.

My invention consists, therefore, in the construction and combination of devices, hereinafter particularly set forth and shown.

In the accompanying drawings, Figure 1 represents a front elevation of a bolt and socket embodying my invention, the bolt being within its casing and the contiguous parts of the shutters being also shown. Fig. 2 represents a rear elevation of the said devices, the bolts being shot, the shutters being indicated by dotted lines. Fig. 3 represents a plan view of the same when the shutters are bowed. Fig. 4 represents a rear elevation of the devices as shown in Fig. 3. Fig. 5 represents a detail view of the bolt and the sliding locking-piece detached therefrom. Fig. 6 represents a detail rear view of the lever-catch, and Fig. 7 represents a bottom plan view of my bolt and socket.

A and A' designate the two shutters, the former having a bolt-casing B attached to it, the latter having similarly attached a socket C. The casing B contains a long flat bolt D, and has under the latter a long slot *b*. The horizontal flange forming the outer limit or boundary of said slot has several notches formed in its edge, every one of these being adapted to fit and interlock with a shoulder *e*, projecting from the shank E' of a sliding catch or locking-piece E. The upper part of this piece is broadened and sets freely in a recess F of the said bolt. At the lower end

of the said shank the said piece is provided with a projecting handle or grasping-lug E². The function of this piece is to move the said bolt backward and forward, as desired, and to lock it in any position to which it may thus be moved. For this purpose one of the said notches (marked *d*) is at the rear end of the said slot and locks the bolt wholly within its casing. Another notch *d'* is far enough forward to hold the bolt when shot into the socket C, the shutter being closed. Other notches *d*² *d*³ *d*⁴ are farther forward and hold the bolt when it is so far out that a hinge H in said bolt is beyond the casing. These notches *d* *d'* *d*² *d*³ *d*⁴ constitute catches for the sliding piece. This hinge connects end to end the two sections of which the said bolt consists. While the said hinge is within the casing the bolt is rigid throughout; but when the hinge is protruded the outer section D' of the said hinge may be bent at an angle for bowing the shutters. By moving the sliding piece from one of the notches *d*² *d*³ *d*⁴ to another the opening may be increased or lessened, as required. The upper part of the front of this bolt-section D' is cut away and provided with downwardly-extending recesses *k* *k'* *k*², arranged in longitudinal series for interlocking with a lug *l* on the inner face of a lever-catch L, pivoted within the said socket C. The rear end of the said lever-catch protrudes through the corresponding end of the said socket, and when the said rear end of the said catch is raised by hand the said lug engages with whichever one of the recesses *k* *k'* *k*² may be below it, this depending on the angle or degree of bowing of the shutters and the consequent distance between them.

To adjust the bolt outward for locking or bowing, the handle or grasping-lug E² is taken hold of and the sliding locking-piece E is lifted in its recess F, so as to raise the shoulder *e* above the recess *d*, and the bolt is drawn forward, the thinner part of said sliding piece between the said lug or handle and the said shoulder moving freely along the slot *b* until the desired notch *d'*, *d*², *d*³, or *d*⁴ is reached. The said sliding piece is then released and falls so that its shoulder *e* enters the said notch and locks the bolt against withdrawal until the said sliding piece is raised again.

When the bolt is to be withdrawn, the operation is reversed, and the engagement of the shoulder *e* with the recess *d* prevents the bolt from moving outwardly, thus guarding against the injury which frequently results from a protruding bolt being struck against the opposite shutter or the wall.

The rear of the bolt-casing B is provided with guide-straps H', which confine the bolt to its place and its line of travel. The socket C is provided with a similar strap I. A slightly-curved spring J is interposed between the wall of said socket C and the lever-catch L and partly in a shallow recess *e'* of the latter. This spring is on one side of the pivotal point of the said lever, the pivot passing through its end, and operates to hold the said lever-catch firmly in the position to which it is adjusted, whether of engagement or disengagement, so that there will be no danger of the accidental shifting of the said lever-catch, although the frictional resistance of the said spring will yield readily to hand-pressure.

The casing B is provided in the front of its flange below the slot *b* with an offset or fixed shoulder O, which, by engaging the handle E² of sliding piece E, affords additional security against the protrusion of the bolt so far as to leave the hinge beyond the casing. The said handle must be moved outward in front of the said shoulder O before the bolt can be moved into position for bowing the shutters.

Having thus described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

1. A bolt consisting of two sections hinged together end to end, one section being provided with a recess F for a sliding locking-piece and the other section being provided with a series of recesses, in combination with a catch for engaging the said recesses and a series of fixed catches for engaging the said sliding piece, substantially as set forth.

2. In combination with a shutter-bowing bolt having a series of recesses, a catch pivoted to the opposite shutter and movable at will into and out of engagement therewith, and a spring bearing against the said catch to hold it in either position against accidental dislodgment, substantially as set forth.

3. In combination with a shutter-bowing bolt consisting of two sections hinged together end to end, a casing for said bolt provided with a longitudinal slot *b*, notches in the edge of the horizontal flange forming the lower boundary of the said slot, and a shoulder O, arranged as shown, and a sliding locking-piece movable in said bolt and said slot and adapted to engage the walls of said notches and said shoulder, for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT ISKE.

Witnesses:

ANTHONY ISKE,

JAS. B. DONNELLY.