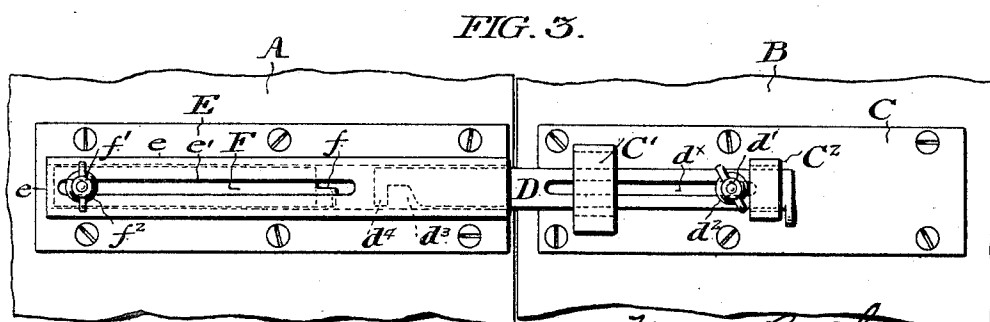
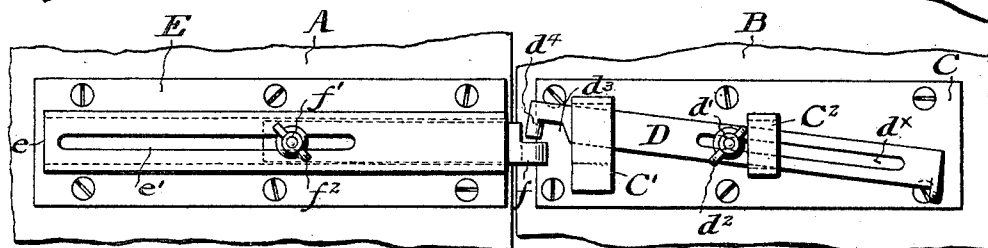
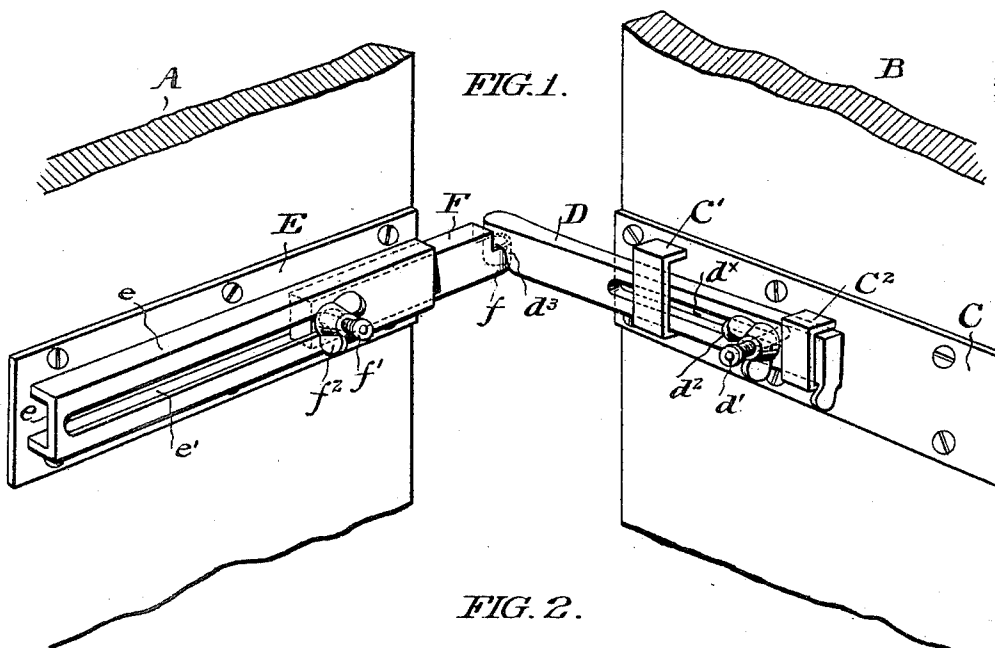


(No Model.)

H. C. SHARP & W. CONGEZER.
COMBINED SHUTTER FASTENER AND BOWER.

No. 581,871.

Patented May 4, 1897.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HOWARD C. SHARP AND WILLIAM CONGEZER, OF BERLIN, NEW JERSEY.

COMBINED SHUTTER FASTENER AND BOWER.

SPECIFICATION forming part of Letters Patent No. 581,871, dated May 4, 1897.

Application filed December 3, 1896. Serial No. 614,291. (No model.)

To all whom it may concern:

Be it known that we, HOWARD C. SHARP and WILLIAM CONGEZER, citizens of the United States, residing in Berlin, in the county of Camden, in the State of New Jersey, have invented certain new and useful Improvements in a Combined Shutter Fastener and Bower, of which the following is a specification.

Our invention relates to the bolts which are employed to secure in locked position, shutters of the ordinary two-leaved construction, and which are to that end mounted free for longitudinal movement in suitable keepers on the inner face of one leaf of the shutter, in such position that when the leaves of the shutters are closed, the bolt may be moved longitudinally to engage in a suitable keeper formed to receive it, in the other leaf of the shutter, with the result that both leaves of the shutter are secured in closed position.

It is the object of our invention to provide a shutter bolt of such form and arrangement, and equipped with such auxiliary devices, that it may be employed not only to lock the leaves of the shutters in closed position, but also to secure them in a partly open or bowed position.

In the accompanying drawings, we show and herein we describe a good form of a convenient embodiment of our invention, the particular subject-matter claimed as novel being hereinafter definitely specified.

In the accompanying drawings,

Figure 1 represents a view in perspective of our improved shutter iron, mounted upon leaves of a shutter, and arranged in such position as to secure the said leaves in open or bowed arrangement.

Figures 2 and 3 are views in front elevation of said shutter iron, illustrating different positions of the parts, the bolt being in Figure 2 shown as tilted in the act of engagement with the auxiliary bolt,—and the parts being in Figure 3 shown as in such position as to lock the shutter leaves in closed position.

Similar letters of reference indicate corresponding parts.

In the accompanying drawings,

A and B represent the respective leaves of a shutter, and C represents the bolt plate secured to the inner face of one shutter, and provided with suitable keepers or guides C' C²

in which a bolt D is mounted and adapted to have longitudinal movement.

E is a socket plate secured to the inner face of the shutter leaf A, in alinement with the guides C' C², and embodying or provided with a socket *e* adapted to receive the outer or free end of the bolt D.

The bolt D, the front end of which is slightly thicker and heavier than the rear end, is as to its body portion provided with a longitudinally extending slot *d*^x, through which is passed a screw-stud *d'*, the inner end of which is suitably entered or secured in the iron C, and the threaded protruding extremity of which is provided with a wing-nut *d*².

The outer or free end of the bolt D embodies as to its under face, a notch or recess *d*³ which imparts to the end of the bolt the formation of a hook, the bill of which, designated *d*⁴, is vertically disposed or axially at right angles to the axis of the bolt.

The guides or keepers C' C² through which the bolt D as stated extends, are of such dimensions as to allow of a slight up and down or tilting movement of the bolt D, to enable it to engage with the eye of the auxiliary bolt, whereof hereinafter. F is an auxiliary bolt, mounted within the socket *e* of the plate E, and adapted for longitudinal movement therein, said bolt being of length considerably less than that of the socket plate E, and provided at its front end with an eye *f*, adapted to receive the bill *d*⁴ of the bolt D.

The socket plate E is formed with a longitudinally extending slot *e'*, conveniently formed in the outer wall of the socket, through which extends a screw stud *f'*, the inner end of which is secured in any preferred manner to the body of the auxiliary bolt F, and the protruding threaded end of which is provided with a wing-nut *f*².

The operation of our improved shutter iron will be readily understood.

When it is not desired to use the auxiliary bolt F it may be drawn back to the outer end of the socket *e*, as shown in dotted lines of Figure 3, in which position of course it may be secured by tightening up the wing-nut *f*².

The bolt D may, when the leaves are in closed position, be longitudinally moved forward and backward to be engaged with and disengaged from the socket *e*, of the plate E,

to lock and unlock the shutter leaves, in the ordinary manner.

When it is desired to bow the shutters, the auxiliary bolt F is moved forward until its end protrudes beyond the edge of the shutter leaf A, and the bolt D is moved forward until its end protrudes beyond the edge of the shutter leaf B, the hook of the bolt D is thereupon manually engaged with the eye of the bolt F, and said bolts may be then secured in the positions to which they have been brought, by tightening the wing-nuts $d^2 f^2$, with the result that the shutter leaves will be secured in a bowed position or set.

By means of our improved shutter iron, the shutters may be secured in any desired bowed adjustment, as will be obvious, by simply loosening the wing-nuts $d^2 f^2$, moving the bolts D and F outward or inward as may be required, and, again tightening the wing nuts $d^2 f^2$.

As will be understood, by bringing the shutters to a closed position, as in Figure 2, and engaging the bill of the bolt D with the eye of the bolt F, and moving said bolts together to the left until the bolt D enters the socket e of the leaf A, not only will said bolt D serve to secure the shutters in closed position, but also, said bolt will be firmly locked in its closing position by reason of its engagement with the eye of the bolt F within the socket e , which snugly incloses both bolts.

When the parts are in this last named position, as will be obvious, it will be impossible for them to be released or unlocked, from the exterior of the building, by any of the ordinary devices used to unfasten from the exterior of the building the shutter irons of the

form ordinarily used, and this security of the parts may be further increased by tightening up the nuts $d^2 f^2$ when the parts are brought to the required position.

Having thus described our invention, we claim—

1. In combination, a bolt plate provided with a bolt keeper or guide, a bolt mounted in said guide, means for securing said bolt in selected positions of adjustment, a socket plate embodying a socket, an auxiliary bolt mounted in said socket, a slot formed in the wall of said socket, a stud entered through said socket, and engaged with the bolt, a nut mounted on said stud, and a hook formed on one bolt and an eye formed on the other bolt, substantially as set forth.

2. In combination, a bolt plate provided with bolt keepers or guides, a bolt mounted in said keepers or guides, and embodying a longitudinally extending slot, a screw-stud passing through said slot, and entered in the bolt plate, a nut mounted on said screw stud, a socket plate embodying a socket, an auxiliary bolt mounted in said socket, means for securing said auxiliary bolt in different positions of adjustment, and means for temporarily uniting the opposing ends of said bolts, substantially as set forth.

In testimony that we claim the foregoing as our invention we have hereunto signed our names this 30th day of November, A. D. 1896.

HOWARD C. SHARP.
WILLIAM CONGEZER.

In presence of—

WALTER C. PUSEY,
F. NORMAN DIXON.