

(No Model.)

2 Sheets—Sheet 1.

J. S. EBERT.
SHUTTER FASTENER.

No. 503,128.

Patented Aug. 15, 1893.

FIG. 1.

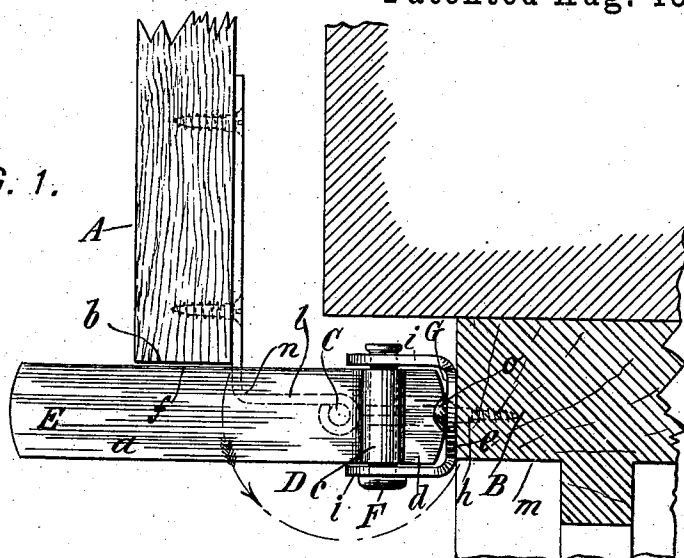


FIG. 2.

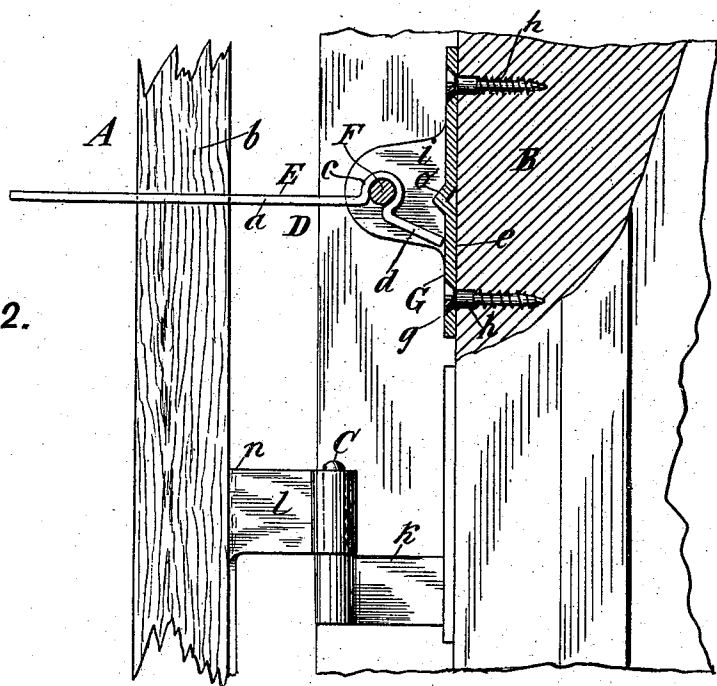
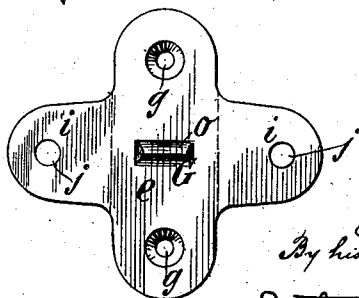


FIG. 3.



Witnesses:
John Becker
Fred White

Inventor:
John S. Ebert,
By his Attorneys:
Arthur C. Graves & Co.

(No Model.)

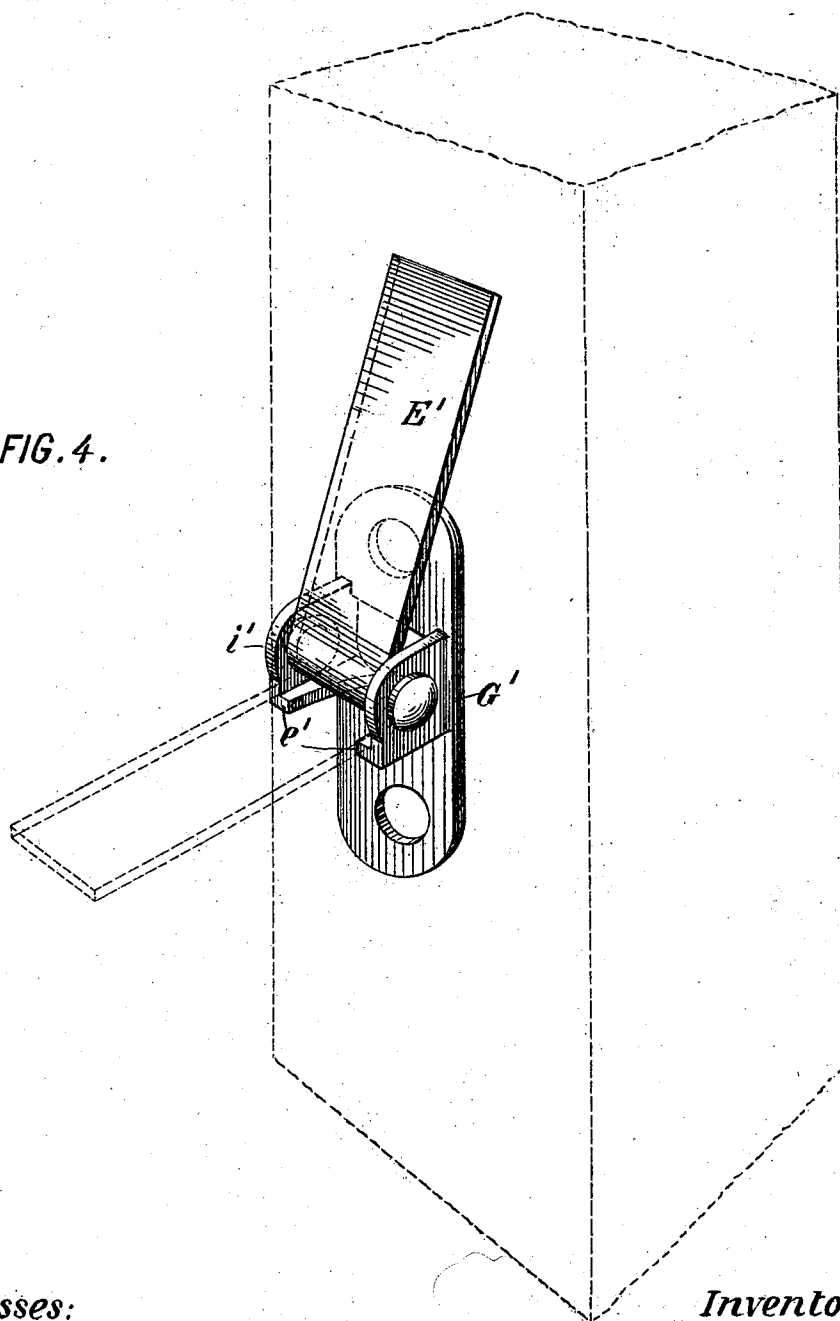
2 Sheets—Sheet 2.

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SHUTTER FASTENER.

No. 503,128.

Patented Aug. 15, 1893.

FIG. 4.



Witnesses:
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Inventor:
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UNITED STATES PATENT OFFICE.

JOHN S. EBERT, OF BROOKLYN, NEW YORK.

SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 503,128, dated August 15, 1893.

Application filed January 17, 1893. Serial No. 458,676. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. EBERT, a citizen of the United States, residing in Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Shutter-Fasteners, of which the following is a specification.

This invention relates to fasteners for locking shutters, blinds and similar devices in the open position, and aims to provide an improved fastener of this character which will be convenient of use, and effective, simple and cheap of construction.

To this end in carrying out the preferred form of my invention I provide an improved movable catch fixed near the edge of the shutter and movable into contact with the edge of the latter to prevent closing movement thereof, and preferably this catch consists of a swinging dog pivoted on a substantially horizontal axis extending substantially parallel with the plane of the shutter in a bracket carried by the window frame, and constructed when swung to the upper position to be out of the path of the shutter, and when swung to the outward position to project in contact with the adjacent edge or stile of the shutter and thereby prevent movement thereof.

In the accompanying drawings, which illustrate certain adaptations of my invention, Figure 1 is a fragmentary horizontal section of a shutter and the adjacent wall and window frame to which it is hinged, showing the shutter fastener in plan view and locking the shutter in the open position. Fig. 2 is a fragmentary elevation thereof showing the bracket of the fastener in vertical mid section, and the window frame partly in vertical section. Fig. 3 is a view of the blank from which the fastener bracket is formed, and Fig. 4 is a perspective view of a modified construction of shutter, the dog being shown in full lines in the inactive position and in dotted lines in the locking position, and the window frame being shown in dotted lines.

Referring to the drawings, let A indicate a shutter or blind, which may be of any known construction, B the frame of a window or other structure, and C a hinge joint or connection between the shutter A and frame B. These parts may be of any known construction.

According to my invention I provide an im-

proved lock or fastener D for locking the shutter A in the open position by engaging the edge of the shutter at the hinged side to prevent the swinging of the shutter away from the open position, which fastening is constructed to be swung into and out of the locking position. This fastening may be variously constructed but I prefer to construct it as shown in Figs. 1, 2 and 3, wherein it consists of a dog E, pivoted on a horizontal pivotal stud F, the axis of which stud extends substantially parallel with the plane of the shutter to a bracket G, fastened to the window frame B. The dog E is preferably constructed of a bar of sheet metal having an outer straight portion *a* of sufficient length to extend from the stud F outwardly to and across the vertical face *b* of the side stile of the shutter A when in the locking position, and this bar is preferably bent at its pivotal end into about two thirds of a circle or eye *c*, fitting the stud F and making the pivotal connection thereby between the latter and the bar. This bent portion preferably passes over the upper side of the stud F and terminates in a rearwardly inclined tail *d*, the end of which abuts against the face *e* of the bracket G when the dog is in the open position, whereby the tail and face of the bracket constitute a stop for limiting the movement of the dog. Preferably the dog stands substantially horizontal when in the locking position, and the parts are disposed so that it will swing vertically with its locking edge *f* in the plane of the face *b* of the shutter A.

The bracket G is preferably a sheet metal blank having screw holes *g g* for receiving screws *h h*, by means of which it is attached to the frame B, and having side ears *i i*, which are bent at right angles and have apertures *j* through which the stud F passes. The blank is formed by punching it out of sheet metal and then bending its ears *i* upwardly. A teat *o* on its face *e* will stop the tail *d* if this is too short.

The hinge C as usual consists of the pin bracket *k*, fixed to the frame B, and the socket bracket *l*, fixed to the shutter, and engaging the pin of the bracket *k*. As usual the pin bracket is disposed at a little distance from the edge *m* of the frame B against which the shutter closes, and the socket bracket

fastened to the shutter has an offset n from the shutter equal to the distance of the pin bracket from the latter. Hence when the shutter swings through an arc of one hundred and eighty degrees, from the closed to the open position, its face b will rest a distance at the outer side of the pin bracket equal to the distance between the latter and the face m of the frame B. This space is that in which the fastening swings, as best seen in Fig. 1, whereby when the dog E is swung up to the open or unlocked position it is out of the path of swing of the shutter, but when swung down to the locked position, it is directly in the path of swing of the latter, and, by reason of its engagement with the edge thereof, prevents any movement of the shutter. The pivotal stud F of the dog is disposed sufficiently outwardly from the face of the frame B to permit the dog to swing past the vertical when swung up, whereby its upper end in this position will rest against the face of the frame, and danger of its accidental falling is avoided.

In using my invention the fastener D, consisting of the dog, bracket, and stud, assembled, is applied to the frame of a window at any convenient point, being adjusted until its locking edge contacts with the edge of the shutter when open, and then fixed in place by the screws h . Thereafter it may be operated to fasten or free the shutter by simply swinging the dog on its stud.

It will be seen that my invention provides an improved shutter fastener which can be readily availed of, will be effective in operation and cheap of construction, and it is understood that the invention is not limited to the exact details of construction hereinbefore set forth as its preferred form, since it may be availed of according to such modified constructions as experience or the judgment of those skilled in the art may dictate.

Fig. 4 shows one modification in which the dog here lettered E' is of cast iron and has no rearward tail, while the bracket here lettered G' is likewise of cast iron and is provided with stops e' , on the lower sides of its ears i' , which engage the dog to limit the outward swing thereof. In other respects this construction is analogous to that previously described, and its operation is the same.

What I claim is, in shutter-fasteners and analogous devices, the following-defined novel features and combinations, substantially as hereinbefore set forth, namely:

1. In a shutter fastener, the bracket G, in combination with a vertically swinging dog E, pivoted thereto on a horizontal axis, and when swung to an outward position projecting behind the adjacent hinged edge of the shutter, and a stop maintaining said dog in its outward position, substantially as and for the purpose set forth.

2. In a shutter fastener, a bracket G, and horizontal stud F, in combination with the vertically swinging dog E, constructed with outer portion a , eye c for receiving said stud, and tail d constructed to engage said bracket to limit the motion of said dog.

3. In a shutter fastener, the bracket G, having stud F, and adapted to be fastened to the frame of a window, in combination with the dog E, of sheet metal, having straight outer portion a , bent around the stud F at c , and extending rearwardly as a tail d , substantially as and for the purpose set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

JOHN S. EBERT.

Witnesses:

GEORGE H. FRASER,
CHARLES K. FRASER.