H. ZIMMERMAN.

SHUTTER BOWER.

APPLICATION FILED JAN. 7, 1907.

930,262. Patented Aug. 3, 1909.

Fig. 1.

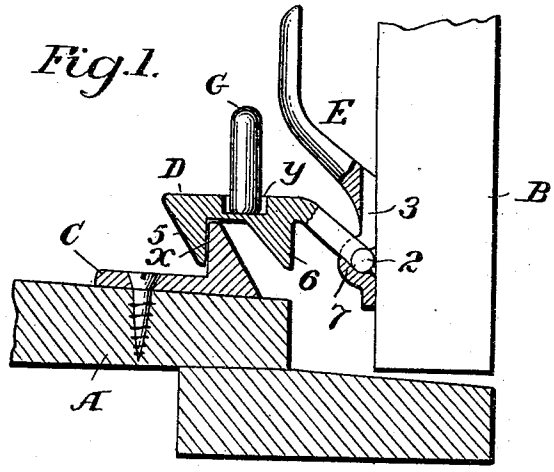


Fig. 2.

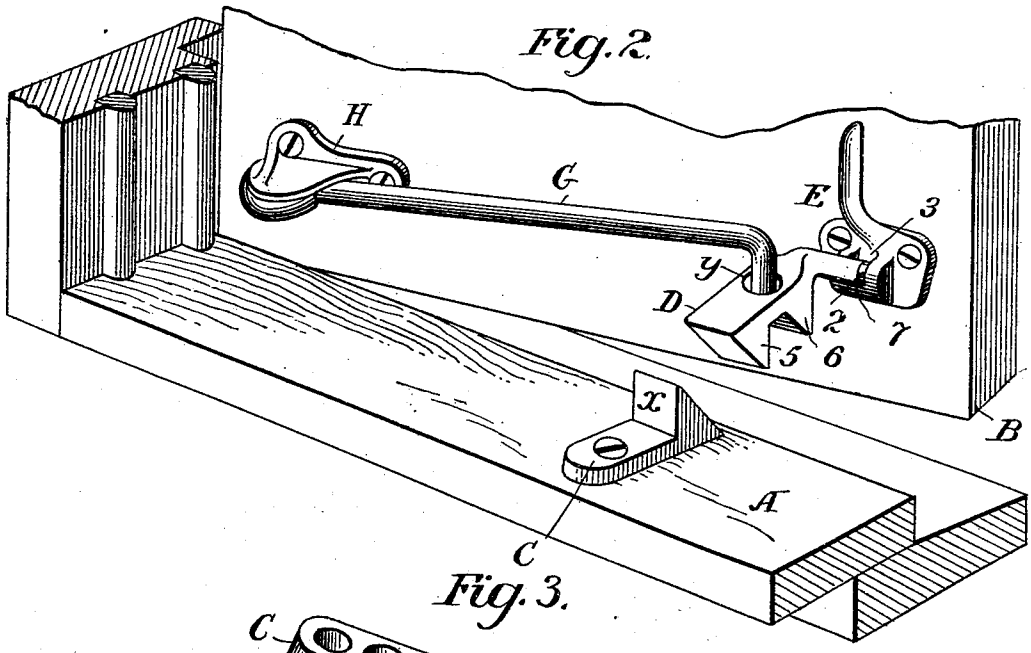
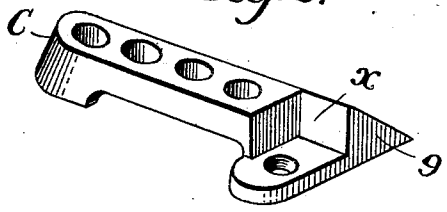


Fig. 3.



Witnesses
J. Stinkel
J. J. McCarthy

Inventor
Harry Zimmerman
by Foster Freeman Watson Coleman
Attorneys

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HARRY ZIMMERMAN, OF FREMONT, OHIO.

SHUTTER-BOWER.

No. 930,262. Specification of Letters Patent. Patented Aug. 3, 1909.

Application filed January 7, 1907. Serial No. 351,238.

To all whom it may concern:

Be it known that I, HARRY ZIMMERMAN, a citizen of the United States, residing at Fremont, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Shutter-Bowers, of which the following is a specification.

My invention relates to shutter bowers and consists of a sill plate having a shoulder, and a bracket provided with a hinged latch having a plurality of shoulders, and otherwise constructed as fully set forth hereinafter so as to permit the shutter to be firmly secured in its closed position, either against or at a distance from the face of the sill, as fully set forth hereinafter and as illustrated in the accompanying drawing, in which:

Figure 1 is a transverse sectional elevation showing a sill and a part of a shutter and illustrating my improved device in connection therewith; Fig. 2 is a perspective view of the sill and shutter and fastening device; and Fig. 3 a perspective view showing the sill plate with bowing openings.

A represents the sill and B the shutter or hinged sash.

C is the sill plate which, as shown, has a single shoulder *x* and D represents the latch which is provided with trunnions 2, 2 adapted to sockets at the sides of an opening 3 in a bracket E which is secured to the shutter B and has a hand grasp by means of which it may be seized to draw the shutter inward.

The latch, instead of having a single shoulder, as usual, is provided with a plurality of projections, two 5, 6 being shown in the drawing, each having a shoulder adapted to engage the shoulder *x* of the sill plate C, and while the projection 6 is adapted for the normal engagement when the shutter is set closed against the sill, the projection 5 is so arranged as to hold the shutter firmly in place in case it warps to an extent to prevent the projection 6 from engaging the shoulder of the sill plate, while it further serves in case there is no such warping, to enable the shutter to be set slightly open if desired.

It has been found to be frequently the case that where the sill plates and latches are adapted to engage perfectly when first put in place, the warping of the shutter interferes with this engagement and there then is no means of locking the shutter in its closed position. By the above arrangement I avoid this objection.

The above described devices may be used without the usual brace rod, but where it is employed, the said rod G is pivoted to a bracket H upon the shutter as shown, and the latch may be provided with a socket *y* in which the hooked end of the brace rod may rest, either when the shutter is closed or when it is open. Some means for preventing the latch from descending below a horizontal position is desirable, and I have shown a lip 7 on the bracket E for supporting the latch. The sill plate may also be provided with openings at suitable distances to receive the end of the brace rod G when the shutter is to be bowed in different positions, as shown in Fig. 3.

The projection or lug 9 on the sill plate has an inclined outer face, and each lug 5, 6 has an inner inclined face so that when the shutter is closed the latter will lift until one of its projections passes over the lug 9, when the latch will drop in engagement with the sill plate.

Without limiting myself to the precise construction and arrangement of parts shown, I claim as my invention:

1. The combination in a shutter bower, of a hooked brace rod, a sill plate having a shoulder *x* and adapted for attachment to the sill, a bracket E adapted for attachment to the shutter, a latch D having a socket *y*, with an inner bearing for the end of the rod, said latch being hinged to said bracket and adapted to engage the shoulder of the sill plate, and means for holding the bracket in a horizontal position.

2. The combination in a shutter bower of a hooked brace rod connected with the shutter, a sill plate having an inclined face, a shoulder and openings to receive the hook of the brace rod, a bracket attached to the shutter, and a latch hinged to the bracket to swing vertically and provided with an inclined end and a plurality of projections to engage said shoulder.

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

HARRY ZIMMERMAN.

Witnesses:

MATIE BISNETTE,

FRANK C. KISER.