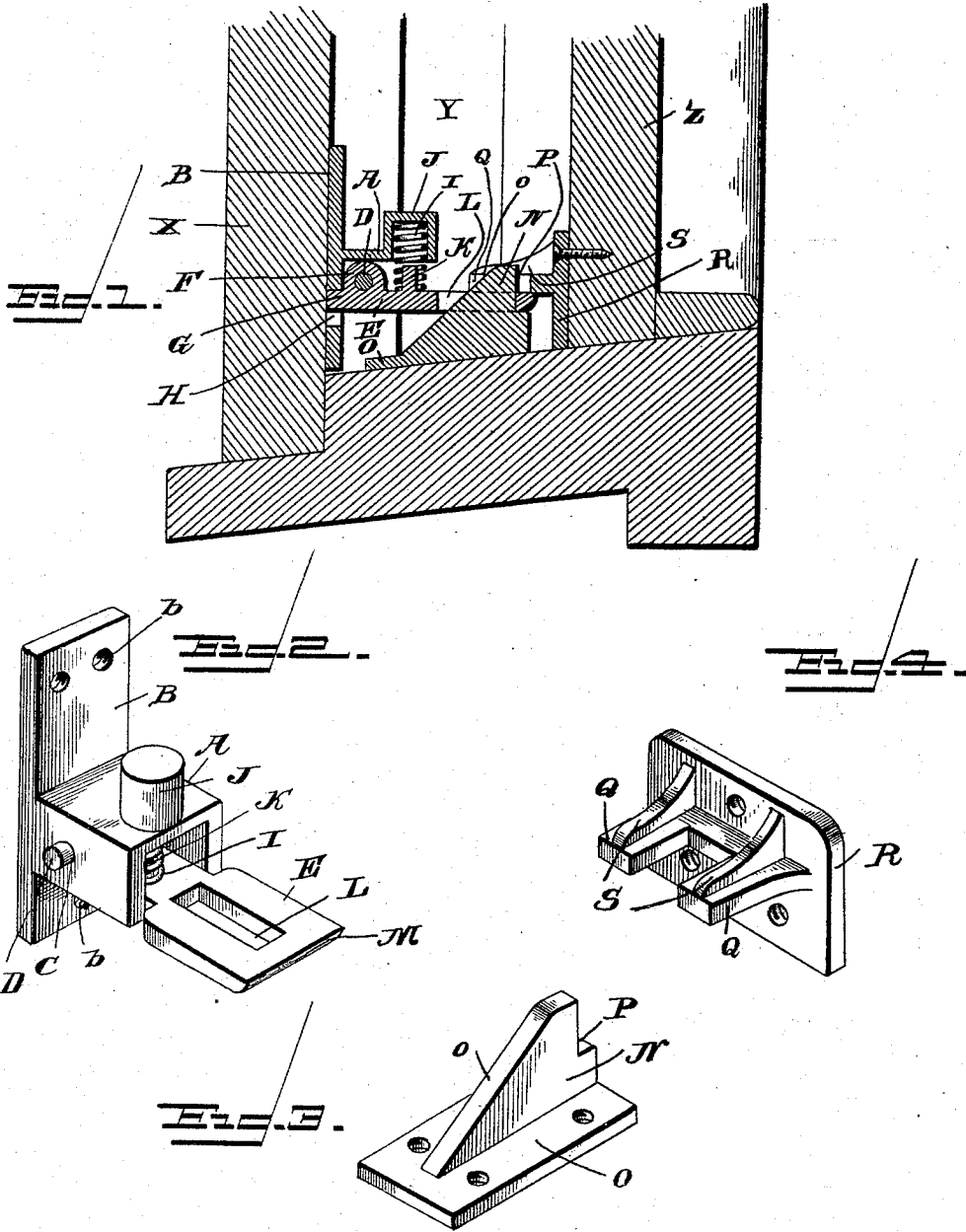


(No Model.)

R. McNAB.
SHUTTER FASTENER.

No. 526,729.

Patented Oct. 2, 1894.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT McNAB, OF PATERSON, NEW JERSEY.

SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 526,729, dated October 2, 1894.

Application filed March 6, 1894. Serial No. 502,575. (No model.)

To all whom it may concern:

Be it known that I, ROBERT McNAB, a citizen of the United States, residing at Paterson, in the county of Passaic and State of New Jersey, have invented a new and useful Shutter-Fastener, of which the following is a specification.

This invention relates to shutter fasteners; and it has for its object to provide a simple, efficient and automatic shutter fastener which shall provide means for securely locking a shutter or blind in its closed position and absolutely preventing the shutter from being opened from the outside or opened at all until the lower sash of the window is raised.

To this end the main and primary object of the present invention is to provide a practical and efficiently working lock of this character, which, while securing the results specified, at the same time can be easily and quickly positioned without defacing or marring the parts to which the different parts of the lock are attached.

With these and other objects in view which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is an enlarged detail sectional view of the lower portion of a window frame including the lower sash and a shutter, showing my improved lock as holding the shutter closed. Fig. 2 is a detail in perspective of the automatic catch, separated from the shutter. Fig. 3 is a similar view of the hook or sill plate engaged by the automatic catch. Fig. 4 is a similar view of the sash plate.

Referring to the accompanying drawings, A represents a substantially U-shaped lock casing projected from one side of the attachment flange or plate B, which is provided with the screw holes *b*, to receive the fastening screws that pass therethrough to secure the casing to the inside of a swinging shutter X, at the usual place where the ordinary fastening devices are located, and said shutter is hinged to the window frame Y, in which slides the ordinary lower sash Z, the lower rail of which is shown in the drawings to illustrate the attachment of the herein described lock.

The substantially U-shaped lock casing A, is provided in the opposite sides thereof with the pin openings C, which receive the transverse pivot pin D, to pivotally support within the casing the automatic catch plate E. The automatic catch plate E, freely works within the casing A, and is provided upon its top side near its inner end with the perforated pivot lug F, which registers in the space between the opposite sides of the casing and receives the pin D, to support the plate in position, and beyond the pivot lug F, the inner end of the catch plate is extended to form a stop flange G, which works in the stop opening H, formed in the attachment flange or plate B, at the inner end of the casing A, and against the upper side of which opening the flange G, is adapted to bear to limit the downward play of the outer end of the catch plate, which is normally held depressed in a substantially horizontal position by means of the spring I. The spring I, is arranged within the casing A, and has the upper end thereof held in position within the spring socket J, projected integrally from the top side of the casing A, and the lower end of said spring engages over the plate pin K, projected upwardly from the plate E, in front of the lug F.

Beyond the outer end of the casing A, the plate E, is widened into a locking end and is provided with an elongated or rectangular catch opening L, and the outer front end or edge of the plate E, is beveled as at M, to freely ride over the inclined hook flange N. The hook flange N, arises from the sill plate O, which is adapted to be attached to the sill of the window frame Y, outside of the sash Z, and said hook flange is provided with an outer inclined top edge *o*, over which the outer end of the plate E, rides, and with an inner shouldered end P, with which the catch plate is forced into engagement after rising up over the inclined top edge.

When the shutter is open, the automatic catch plate is normally held depressed by the spring I, as stated, but when the shutter is swung closed the beveled outer edge of the said catch plate will automatically engage with the inclined hook flange N, and the said catch plate is held securely locked in engagement with the hook flange by means of the bifurcated lock flange Q, projected horizon-

tally from one side of the sash plate R, that is adapted to be attached to the outer side of the lower sash rail, and to be lowered by the lowering of the sash onto the said catch plate. 5 The bifurcated lock flange Q, is strengthened in its projection from the sash plate by the strengthening ribs or projections S, connecting the top sides of the flange with such plate. After the engagement of the catch plate with 10 the hook flange, the lowering of the sash brings the bifurcation over the upper projecting end of the hook flange and disposes the opposite portions of the lock flange directly over opposite sides of the catch plate and 15 thereby effectually prevents the same from being lifted out of engagement with the hook flange until the sash is raised.

Changes in the form, proportion and the minor details of construction may be resorted 20 to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. In a shutter fastener, the combination of a stationary hook, a lock casing, a normally depressed catch plate pivotally mounted within said casing and adapted to automatically 30 ride into engagement with said stationary hook, and a sash plate adapted to engage over said catch plate when engaged with said hook, substantially as set forth.

2. In a shutter fastener, the sill plate having an inclined hook flange, a lock casing adapted to be attached to a shutter, a normally depressed catch plate pivoted within said lock casing and provided with an elongated 35

gated catch opening adapted to automatically engage over said hook flange, and a 40 sash plate provided with a bifurcated lock flange adapted to embrace said hook flange above the catch plate when the latter is in engagement therewith, substantially as set forth.

3. In a shutter fastener, the sill plate having an inclined hook flange provided with an inner shouldered edge, a lock casing adapted to be attached to a shutter, a spring depressed catch plate pivotally mounted within the lock 50 casing and provided with an elongated catch opening and a beveled outer edge, and a sash plate having a locking flange adapted to work over said hook flange, substantially as set forth.

4. In a shutter fastener, the combination with a sill hook; of a lock casing provided with a spring socket projected from its top side and with an attachment plate or flange at its inner end having a stop opening therein, a catch 60 plate pivotally supported within said casing and having a stop flange at its inner end adapted to work in said stop opening and an outer locking end provided with a catch opening, and a spring arranged within the said 65 spring socket at one end and bearing at its other end on the top side of said catch plate, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 70 the presence of two witnesses.

ROBERT McNAB.

Witnesses:

THOS. A. McNAB,
GEORGE W. SCULL.