No. 761,473. PATENTED MAY 31, 1904.

H. E. GOODMAN.

SHUTTER FASTENER.

APPLICATION FILED JAN. 2, 1904.

NO MODEL.

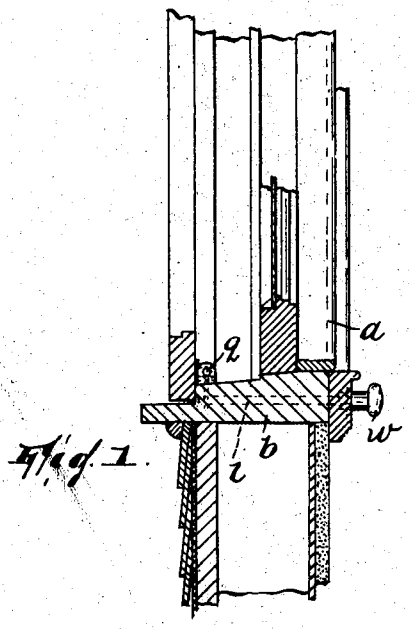


Fig. 1.

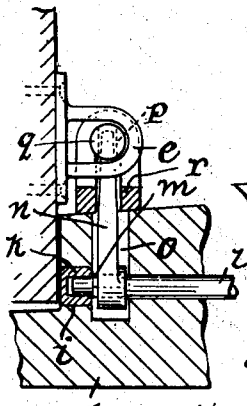
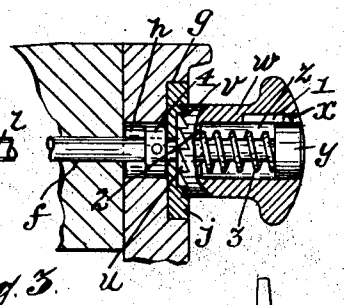
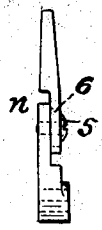


Fig. 3.





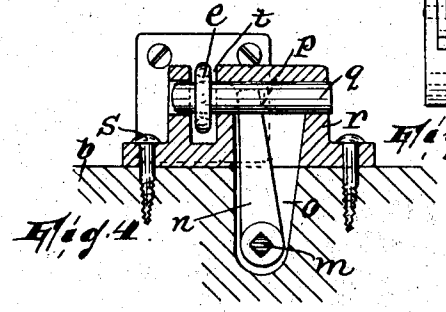


Fig. 6.

Fig. 4.

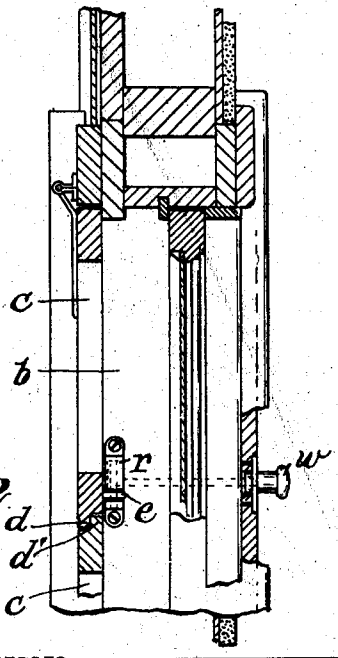


Fig. 2.

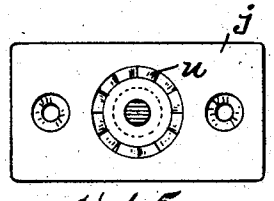


Fig. 5.

WITNESSES:

Wm. D. Bell.

Robert J. Pollitt.

INVENTOR,

Henry E. Goodman,

BY

Fairbanks & Steward,

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 761,473. Patented May 31, 1904.

UNITED STATES PATENT OFFICE.

HENRY E. GOODMAN, OF DUNDEE LAKE, NEW JERSEY, ASSIGNOR OF TWO-THIRDS TO JOSEPH WHITE AND DANIEL J. COOKE, OF PATERSON, NEW JERSEY.

SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 761,473, dated May 31, 1904.

Application filed January 2, 1904. Serial No. 187,503. (No model.)

To all whom it may concern:

Be it known that I, HENRY E. GOODMAN, a citizen of the United States, residing in Dundee Lake, Bergen county, New Jersey, 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, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

My present invention relates to means for securing shutters or blinds in their closed position; and it consists in certain improvements in devices of this nature having for their object to provide an inexpensive and effective securing means operative only from the inside of the apartment.

I have fully illustrated one adaptation of my invention in the accompanying drawings, wherein—

Figure 1 is a vertical sectional view of so much of a window-frame, a blind, and the accessory structure as is necessary to illustrate my invention, the device constituting my invention being herein shown in operative position. Fig. 2 is a horizontal sectional view of the same parts seen in Fig. 1. Fig. 3 is an enlarged vertical sectional view through the blind and the sill of the window-frame and through a part of the device constituting my invention, the rest of which is shown in side elevation. Fig. 4 is a vertical sectional view taken at right angles to that which Fig. 3 presents and axially of a certain bolt, which, with its immediate operating part, is shown in front elevation. Fig. 5 is a front view of the fixed one of two locking members, and Fig. 6 is a modified form of the part above mentioned in connection with the brief description of Fig. 4.

In the drawings, *a* designates the window-frame, *b* its sill, and *c* the blinds hinged in the frame and one of which has the usual bead *d* overlapping the bead *d'* of the other when the blinds are shut. The blind *c* having the bead *d* carries near the bottom a vertically-disposed staple *e*. Through the sill extends horizontally a bore or opening *f*, which at its inner end is provided with a double countersink, forming a recess *g* and a cavity *h*. The other end of the opening or bore *f* may be enlarged, as at *i*, to receive a certain bearing part, hereinafter referred to.

In the recess *g* is fitted a plate *j*, and in the enlarged portion *i* of the bore *f* is fitted a bearing-piece *k*, in which is journaled a shaft or rod *l*. The shaft *l* has a squared portion *m*, on which is mounted a crank *n*, arranged in a vertically-disposed recess *o* in the sill. At its upper end this crank engages in a hole *p*, formed transversely in a bolt *q*, arranged to slide horizontally and parallel with the face of the blinds *c* when shut in a mounting *r*, secured to the sill over the opening *o* therein by screws *s*. The mounting *r* is formed with an aperture *t*, disposed transversely of the bolt and coincident with the staple *e* when the shutter carrying the latter is closed, said aperture thus receiving the staple and the staple being then adapted to receive the bolt when the latter is moved longitudinally in the mounting *r* by turning the shaft, and thereby the crank *n*.

The outer face of the plate *j* is formed with a circular series *u* of ratchet-teeth disposed concentric with the shaft *l*, and with these teeth are adapted to engage the corresponding ratchet-teeth *v*, formed at the inner end of a knob *w*, which is adapted to rotate with the shaft by virtue of a feather *x*, carried by a head *y* on the shaft, which fits the bore *z* of the knob, and which feather engages an internal groove 1 in the knob. The head *y* and an internal shoulder 2 on the knob keep the latter in proper concentricity with reference to the shaft.

The two series of ratchet-teeth are normally held engaged with each other by a spring 3, arranged in the bore *z* of the knob and wound spirally about the shaft between the head *y* and shoulder 2. Undue inward longitudinal

movement of the shaft under pressure of the spring is resisted by a collar 4, fixed on the shaft in the cavity *h*.

If desired and in order to give variations of throw to the bolt *q*, the arm *n* may be made in two parts, as seen in Fig. 6, one of them carrying a set-screw 5 and the other being provided with a slot 6, receiving said set-screw.

It will be observed that the bolt can be moved longitudinally only by turning the knob *w* in order to throw the bolt out of locking position—*i. e.*, to the right, as seen in Fig. 4. The knob is drawn inwardly against the pressure of the spring 3 until the two series of teeth clear each other, whereupon the knob may be turned to the right and so cause the corresponding movement of the bolt. In moving the bolt in the other direction it is not necessary in the adaptation shown to draw inwardly on the knob, since the teeth being ratchet-teeth can slide on each other. However, it should be understood that I do not wish to be limited to this precise form of engaging projections between the fixed locking member *j* and the rotary locking member *w*.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of a window-frame, a blind hinged therein, a staple secured to that face of the blind which is innermost when the blind is closed, a mounting member secured to the frame, a bolt arranged to slide in said mounting member and engageable with said staple when the blind is closed, a rotary shaft penetrating the window-frame and protruding from the inside thereof, a crank fixed on said shaft and projecting through the frame and the mounting member and engaging said bolt at its free end, and an operating device fixed on the free or inner end of said shaft, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 19th day of December, 1903.

HENRY E. GOODMAN.

Witnesses:
JOHN W. STEWARD,
JOSEPH WHITE.