

(No Model.)

H. J. SAXTON.
SHUTTER FASTENER.

No. 473,888.

Patented Apr. 26, 1892.

Fig. 1

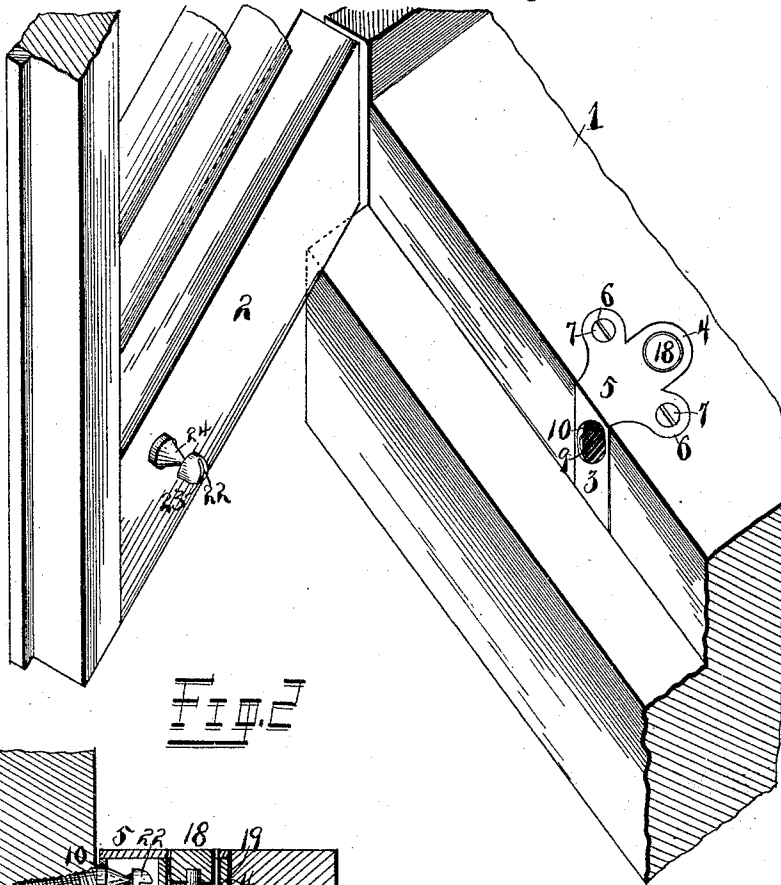


Fig. 2

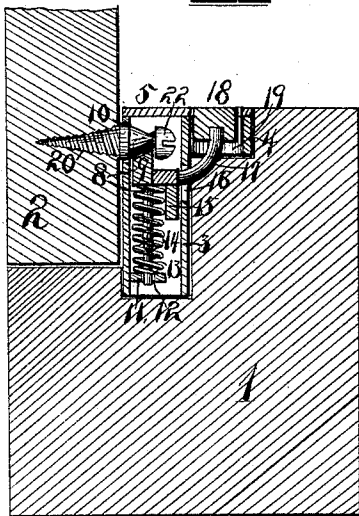
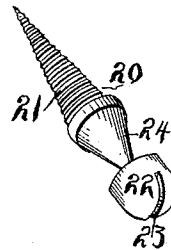


Fig. 3



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UNITED STATES PATENT OFFICE.

HARRY J. SAXTON, OF ST. LOUIS, MISSOURI, ASSIGNOR TO FREDERICK KOLLAS AND JAMES V. SAXTON, OF SAME PLACE.

SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 473,888, dated April 26, 1892.

Application filed November 16, 1891. Serial No. 412,047. (No model.)

To all whom it may concern:

Be it known that I, HARRY J. SAXTON, of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Automatic Shutter-Fasteners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in automatic shutter-fasteners; and it consists in the novel arrangement and combination of parts as will be more fully hereinafter described, and designated in the claims.

In the drawings, Figure 1 is a perspective view of a window-blind and window-frame with parts broken away, having my invention applied thereto. Fig. 2 is a vertical section of the same, showing the blind in a locked position; and Fig. 3 is a perspective view of the screw which is carried by the blind and which forms a part of my invention.

The object of my invention is to provide a novel and simplified construction in automatic shutter-fasteners, whereby the same will present a neat appearance when applied to the shutter and window-frame.

When my invention has been applied to the window-frame, as hereinafter described, the same will be flush with the said window-frame, thereby forming no obstruction, as in the case with other shutter-fasteners usually employed.

Referring to the drawings, 1 represents the window-frame, and 2 the shutter, both of which are of the ordinary construction, and to which my invention is easily applied. It will be observed, however, that in order to properly attach the locking part, which forms a part of my invention, it will be necessary to cut away a portion of the sill of the window-frame 1, within which cut-away portion the said device is placed and fastened therein.

3 represents a casing of any suitable shape or design, within which the movable and working parts of my invention are secured. To the rear of said casing and at the upper end thereof is a solid extension 4, which forms a support for a push-button, as hereinafter described.

5 represents a plate which is fastened in any suitable manner, but preferably by sol-

dering, to the top of the casing 3, and extends over and upon the extension 4. The plate 5 is provided with two ears 6, located opposite to one another, and each provided with holes or perforations 7, through which screws or other like devices may be inserted for holding the said casing and its parts to the sill of the window-frame.

8 represents a bolt, which is movably secured within the casing 3 and is adapted to move in a vertical direction either when the same is depressed by the finger or when the device, as hereinafter described, which is carried by the shutter comes in contact therewith. The upper end of the bolt 8 consists of a block 9, the upper surface of which is inclined and also curved in a reverse direction to said incline. When the bolt is in its normal position, the inclined portion of said bolt will be adjacent to the opening 10, formed in the casing 3. Within the casing 3 and formed on the interior thereof, is a solid portion 11, through which portion a vertical opening 12 is formed, through which the stem 13 is adapted to move when the bolt is operated. The stem 13 is carried by the lower surface of the block 9 of the bolt, and encircling said stem is a coil-spring 14, which spring is interposed between the solid portion 11, formed with the casing 3 and the lower surface of the block 9, whereby the bolt 8 is always held in an elevated position. To the rear of the block 9 of the bolt is secured a right-angular bar 15, the vertical surface of which or that adjacent to the casing 3 is adapted to come in contact with the inner surface of said casing, whereby the bolt is caused to work freely and in a vertical direction within the casing 3.

16 represents an elongated slot, which is formed in the rear wall of the casing 3 and through which the curved rod 17 passes and is adapted to move. The curved rod 17 is attached to the angular arm 15, and to the opposite end of the said bar is secured a push-button or plug 18. The plug 18 moves in a vertical opening 19, formed in the plate 5, and also in the extension 4 of the casing 3, and when the said plug is in its normal position the upper surface thereof will be flush with the top of the said plate 5.

20 represents a screw which is carried by the blind 2, which also forms a part of my invention, and when the said screw is brought in contact with the bolt 8, as heretofore described, the said window-blind will be securely locked. The screw 20 is provided with a conical portion 21, upon which portion threads are formed, by means of which the said screw may be secured to the window-blind.

22 represents a head which is formed on the opposite end of the said screw and having formed therein a groove 23, within which groove an ordinary screw-driver is inserted for turning the same and securing the screw to the blind.

In attaching my fastener to the window frame and shutter care should be taken in order that the screw 20 will pass into the opening 10, formed in the casing 3, when the shutter is closed. When the head 22 of the screw 20 comes in contact with the inclined portion of the block 9, it will cause the said bolt to be depressed until after the head 22 has passed the same, when the inclined portion will bear against the neck 24 adjacent to the said head 22, thereby locking the blind when closed. To release the head 22 or the blind from its locked position, the plug 18 is depressed by the finger, causing the bolt 8 to be also depressed, in which movement the block 9 is depressed sufficiently to allow the head 22, carried by the screw 20, to pass freely outward and through opening 10 of the casing.

From the foregoing description it will be seen that it is impossible to unlock the blind or blinds from the outside, as the entire locking device is secured in such a manner as to only be manipulated from the inside.

Having fully described my invention, what I claim is—

1. An automatic shutter-fastener having a bolt adapted to move vertically, a push-plug mechanically connected to the same, by means of which the said bolt may be depressed, said plug being located above the bolt, so as to have a position at the top of the sill, substantially as set forth.

2. An automatic shutter-fastener having a casing, a bolt secured therein and adapted to move vertically, a push-plug mechanically connected to the said bolt and flush with the top

of the said casing when not depressed, and a device carried by the shutter and adapted to come in contact with the said bolt, substantially as set forth.

3. An automatic shutter-fastener consisting of a casing, a bolt, such as 8, secured therein and provided with a stem 13, a spring, such as 14, encircling the said stem, a push-plug 18, mechanically connected to the said bolt and being located above the bolt, said plug being flush with the top of said casing when not depressed, and a screw carried by the shutter, the head of which is adapted to come in contact with the said bolt, substantially as set forth.

4. An automatic shutter-fastener consisting of a casing 3, a bolt 8, having a block 9, an inclined face formed upon the said block, a stem, such as 13, secured to the said block, a coil-spring 14, encircling said stem and interposed between said block and the solid portion 11, formed in said casing, right-angular arm 15, secured to the block 9, push-plug 18, rod 17, connecting the said plug with said arm 15, and a suitable device carried by the shutter and adapted to pass behind the said bolt when the said shutter is closed, substantially as set forth.

5. An automatic shutter-fastener consisting of a casing 3, an opening 10, formed therein, an extension 4, formed integral with the said casing, plate 5, forming a covering for the said casing, bolt 8, having a block 9 with inclined and curved surfaces, stem 13, secured to the said block and passing through a suitable opening 12, coil-spring 14, encircling the said stem, right-angular arm 15, secured to or formed integral with the said block 9, bars 17, secured to the said arm, push-plug 18, carried by the opposite end of the said bar 17, and a screw 20, carried by the shutter, the head of which is adapted to come in contact with the inclined and curved surfaces of the block 9 and pass behind the same when the said blind is closed, substantially as set forth.

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

HARRY J. SAXTON.

Witnesses:

ED. E. LONGAN,
ALFRED A. EICKS.