

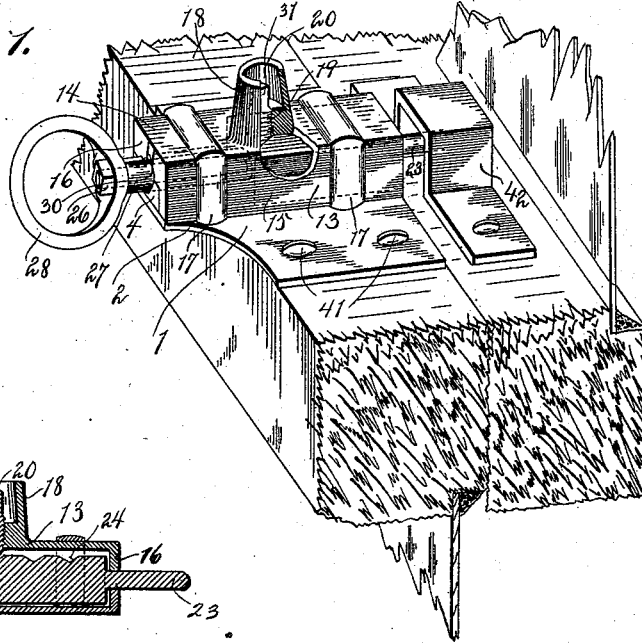
(No Model.)

J. H. HOTTES.  
SASH FASTENER.

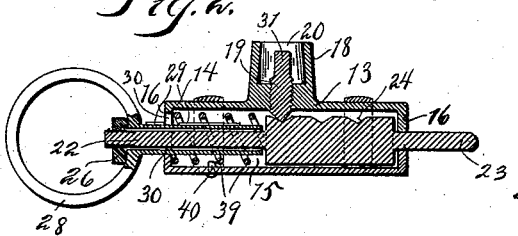
No. 524,146.

Patented Aug. 7, 1894.

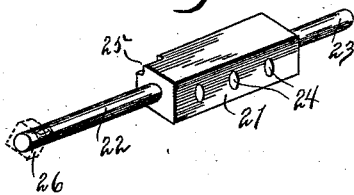
*Fig. 1.*



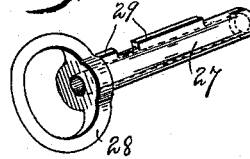
*Fig. 2.*



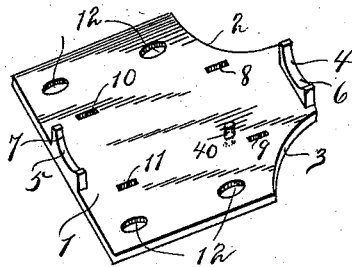
*Fig. 3.*



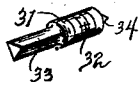
*Fig. 4.*



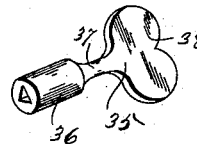
*Fig. 6.*



*Fig. 5.*



*Fig. 7.*



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# UNITED STATES PATENT OFFICE.

JOHN H. HOTTES, OF ST. LOUIS, MISSOURI.

## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 524,146, dated August 7, 1894.

Application filed April 30, 1894. Serial No. 509,532. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. HOTTES, of St. Louis, Missouri, have invented certain new and useful Improvements in Sash-Fasteners, which improvements are fully set forth in the following specification and illustrated in the accompanying drawings.

The object of my invention is to construct a sash fastening device, one that is simple in construction, easily operated, and efficient in use.

A further object of my invention is to construct a sash fastener that will lock the meeting cross rails of the upper and lower sash together, in such a firm and substantial manner that it will be impossible to gain admittance through the window on which my fastener is located.

My invention consists in a casing inclosing a spring actuated shooting bolt, a locking bolt adapted to engage against said shooting bolt, and certain other new and novel features of construction hereinafter described and claimed.

In order that my invention may be more fully understood, I will now proceed to describe it, reference being had to the accompanying drawings, in which—

Figure 1. is a perspective view of my complete device attached to a window, as required for practical use, parts being broken away to more clearly illustrate same. Fig. 2. is a longitudinal central sectional view of my improved fastener. Fig. 3. is a perspective view of the shooting bolt I make use of in carrying out my invention. Fig. 4. is a perspective view of the finger hold and sleeve that engages one end of the shooting bolt. Fig. 5. is a perspective view of the locking bolt. Fig. 6. is a perspective view of the base plate which is secured to the window sash, and to which the main casing is riveted. Fig. 7. is a perspective view of the key used in connection with my improved fastener.

Similar numerals refer to similar parts throughout the several views.

The numeral 1 designates the base plate which is rectangular in form and having the two forward corners cut away, said cutaway portions being numbered 2 and 3. At the forward and rear ends of this plate 1, are the

upwardly extending lugs, 4 and 5, which are provided with the semi-circular cutaway portions 6 and 7. Rectangular apertures 8, 9, 10 and 11 are formed in the plate in pairs between the lugs 4 and 5. Screw or bolt holes 12 are also formed in the plate near the outer edges thereof.

Numeral 13 designates the main casing of my fastener, which is preferably rectangular in cross section, and composed of the top 14, sides 15, and ends 16, said ends 16 having semi-circular cut away portions therein to mate with the semi-circular cut away portions 6 and 7 previously mentioned.

Near the ends of the casing 13 and brazed to the sides and top thereof are strips or bands 17, which extend downwardly and through the apertures 8, 9, 10 and 11, in the base plate 1, and are there securely riveted.

By the meeting of the semi-circular cut away portions 6 and 7, and the cut away portions in the ends of the main casing it will be seen that circular openings are formed in the ends of the main casing, through which the cylindrical portion of the shooting bolt operates.

Formed integral with and extending upwardly from the central portion of the top 14, of the casing 13 is a circular lug 18, which is provided with a vertical screw threaded bore 19, communicating with the interior of the casing 13, and an annular bore 20, slightly larger than the screw threaded bore 19. Within this annular bore 20 and screw threaded bore 19, operates the locking bolt.

The shooting bolt I make use of, is a suitable amount longer than the casing 13, and is composed of the main body portion 21, which is rectangular in form, and has formed integral thereon the extending portions 22 and 23, circular in cross section.

The rectangular body portion is provided on its upper face with a series of circular depressions, 24. One of the lower corners of this rectangular portion 21 is cut away, designated by 25, the purpose of which will be presently described.

The outer end of the circular extending portion 22 is screw threaded and adapted to receive a nut 26. A sleeve 27 provided on its outer end with a ring 28 is located upon the portion 22 of the shooting bolt and is held

thereon by means of the nut 26. This sleeve is provided with a series of upwardly extending lugs 29. An opening, 30, formed in the end 16 of the casing 13, allows the passage of these lugs 29 during manipulation of the shooting bolt.

The locking bolt designated by the numeral 31, is formed of the peripherally screw threaded body portion 32, which engages in the screw threaded bore 19, and the integral triangular portion 33 which lies within and extends through the annular bore 20. The lower point of the body 32 is attenuated. This attenuated portion 34 is adapted to engage in the depressions 24 previously mentioned.

A key 35 composed of the body 36 having a triangular bore therein, an arm 37 and ring 38 provides means for manipulating the locking bolt.

A coil spring 39 is interposed between the body portion 21 and the end portion 16 of the casing and serves to normally hold the shooting bolt forward or as in the position shown in Fig. 2. A lug 40 extends upwardly from the base plate 1, and engages against the cut away portion 25 on the body 21, and serves to restrict the rearward lateral movement of the shooting bolt.

By means of screws 41 the base plate 1 carrying the casing, &c., is securely held to the upper rail of the lower sash. A clip 42 is held by means of screws to the lower rail of the upper sash.

The operation of my improved sash fastener is as follows: When it is desired to lock the sash together the rails carrying the parts of the fastener are brought together so that the portion 21 of the shooting bolt, forced forward by reason of the action of the coil spring 39, engages beneath the clip 42. By now placing the key 35 on the triangular portion 33 of the locking bolt 31 and manipulating same, the attenuated point 34 engages in one of the depressions 24, in the rectangular portion 21, of the shooting bolt, thereby firmly locking said shooting bolt, and thoroughly preventing any rearward or lateral movement of said shooting bolt. When it is desired to unlock the device so as to raise or lower the window sash the locking bolt is so manipulated as to be disengaged from the shooting bolt. By now pulling the shooting bolt out by means of the ring or finger hold 28, the forward end of said shooting bolt will necessarily become disengaged from the clip 42. The sleeve 27 carrying the lugs 29 which have just been drawn through the opening 30, is now given a slight turn either to the right or left and, as said sleeve is loose upon the portion 22 of the shooting bolt, and the lugs engaging against the end 16 serves to retain

the shooting bolt in its withdrawn position. The sash can now be either raised or lowered.

When it is desired to lock the shooting bolt while in its normal position and without the use of the locking bolt the sleeve 27 is turned slightly to the right or the left. As this movement brings one of the lugs 29 into engagement with the inner side end 16, it will be plainly seen that the shooting bolt cannot be withdrawn until the sleeve is so turned as to bring the lugs 29 so that they register with the opening 30.

Thus will be seen how I have provided a simple, cheap, and efficient sash lock and fastener, one that when locked cannot be unlocked by any one without the key, or cannot be tampered with by any one on the outside of the window.

What I claim is—

1. A sash fastener comprising a rectangular base plate, a rectangular three sided casing riveted to said plate, a spring actuated shooting bolt having a rectangular body portion provided with a series of depressions, a sleeve loosely mounted upon one end of said shooting bolt and provided with a series of lugs, and a vertical locking bolt operating in the casing all substantially as described and for the purposes stated.

2. A sash fastener comprising a rectangular casing, a spring actuated shooting bolt located within said casing, a sleeve loosely mounted upon said shooting bolt, said sleeve being provided with a series of lugs, and a locking bolt, comprising a triangular portion adapted to be engaged by a key, and a peripherally screw threaded body portion having an attenuated point, all substantially as shown and specified.

3. In a sash fastener a spring actuated shooting bolt operating within a casing comprising a rectangular body portion, which is provided with a series of depressions, and extending circular portions, and a sleeve provided with a series of lugs and a finger hole or ring, loosely mounted upon one of the circular portions of the shooting bolt, substantially as shown and specified.

4. In a sash fastener a locking bolt placed vertically within an extending lug on the casing, comprising a triangular portion, and a peripherally screw threaded body portion, which has its lower end attenuated, to operate in the manner set forth and for the purposes stated.

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

J. H. HOTTES.

Witnesses:

R. RYBITZKI,  
JOHN F. C. FRESE.