

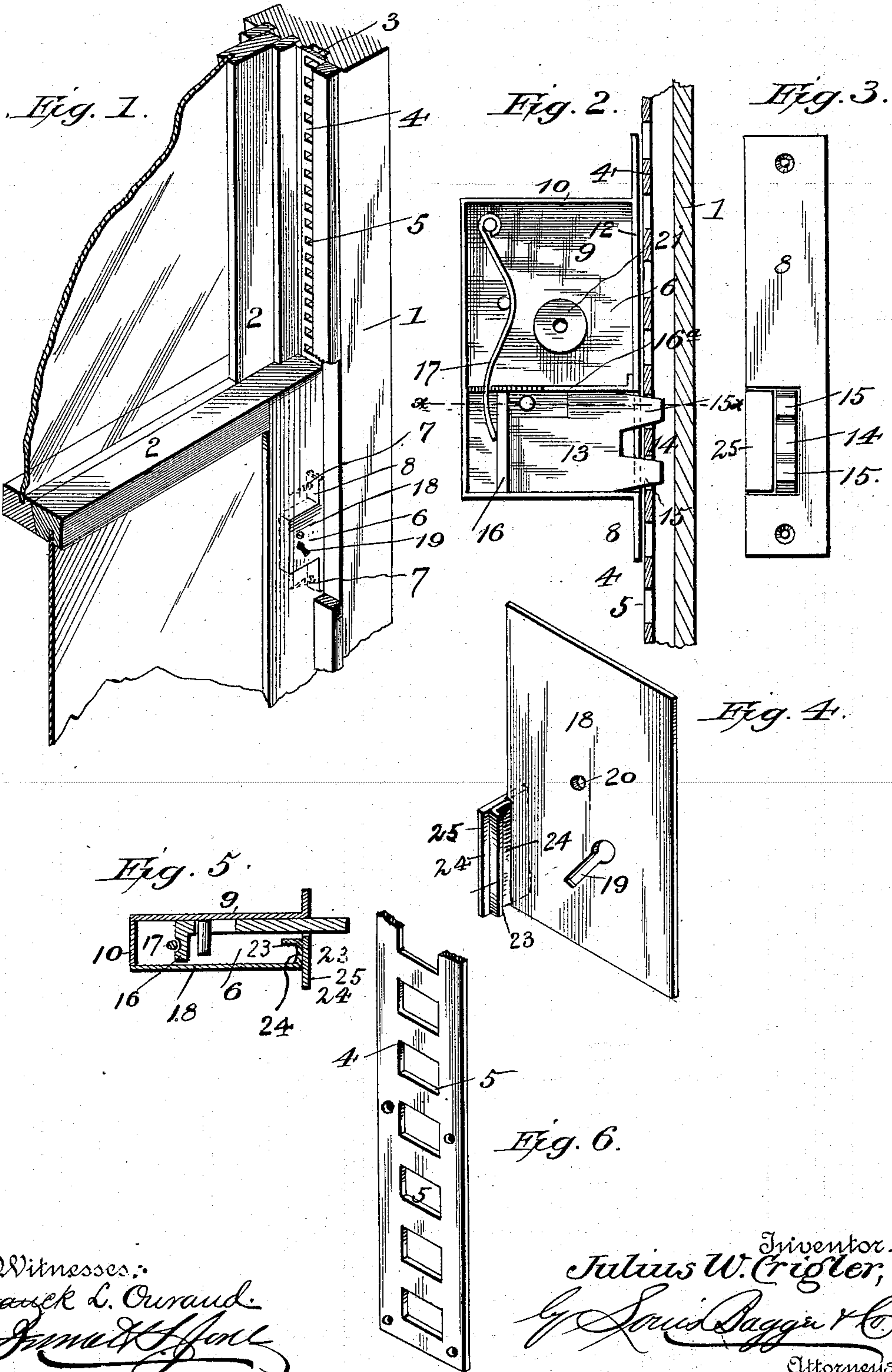
No. 612,310.

Patented Oct. 11, 1898.

J. W. CRIGLER.
SASH FASTENER.

(Application filed Nov. 23, 1896.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

JULIUS W. CRIGLER, OF BLOOMINGTON, ILLINOIS.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 612,310, dated October 11, 1898.

Application filed November 23, 1896. Serial No. 613,223. (No model.)

To all whom it may concern:

Be it known that I, JULIUS W. CRIGLER, a citizen of the United States, and a resident of Bloomington, in the county of McLean and State of Illinois, have invented certain new and useful Improvements in Automatic Sash-Locks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved lock for locking a window-sash, so as to prevent it from being raised without the insertion of a key for retracting a bolt which engages with a perforated metal plate or strip secured to the side rail of the window-frame.

The invention has for its object to simplify the construction of the lock, so that it may be produced at a comparatively small cost, and also improve it, whereby the sash will be rigidly held and prevented from rattling, and whereby, also, additional security is attained against the sash being pried open by burglars or other unauthorized persons.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a window frame and sash, showing my invention applied thereto, part of the sash being broken away to show the perforated strip secured to the frame. Fig. 2 is an elevation of the lock, the face-plate being removed. Fig. 3 is a front view of the lock. Fig. 4 is a perspective view of the face-plate, looking from the innerside. Fig. 5 is a horizontal section of the lock complete on the line *x x*, Fig. 2. Fig. 6 is a perspective view of the perforated strip.

In the said drawings the reference-numeral 1 designates a window-frame, and 2 a window-sash, of any ordinary or suitable construction. One of the side rails of the said frame is formed with a vertical groove 3, to the edges of which is secured a metal plate or strip 4, formed with a number of rectangular openings or perforations 5 to receive the bifurcated or double bolt hereinafter described.

The numeral 6 designates a lock adapted

to be mortised in one of the side rails of the sash and secured in place by means of screws 7, passing through the front rim 8 of the lock-case.

The numeral 9 designates the back of the lock-case, consisting of a rectangular plate provided with a rim 10 at the top, bottom, and rear sides. The front of this plate is provided with a rim which extends above and below the same and is formed with holes for the passage of the fastening-screws 7, before referred to. Near its lower end said front rim is cut away or formed with a rectangular opening for the passage of the bifurcated end of the bolt 13. This bolt consists of a rectangular metal bar or plate provided at its front with a central tapering recess 14, forming two wedge-shaped lugs 15. The outer ends of these lugs are of smaller size than the openings 5, so as to readily engage with the same when the bolt is shot; but they gradually increase in size, so that at their junction with the bolt they are larger than the said openings. By this construction when the bolt is shot to lock the sash the spring hereinafter described will force the lugs through the openings in the strip, so that they will tightly bind against the upper and lower sides of the openings, exerting a continuous spring-pressure, and thereby prevent rattling of the sash. In other words, no matter whether the sash fits snugly in the frame or not the lugs, owing to their wedge shape, will always be forced tightly into the openings in the strip, the groove in the rear of the latter allowing them to be projected sufficiently through the openings to make close contact with the sides of the latter.

At the rear or inner end the bolt is provided with a flange or a rib 16, with which engages the bit of a key to withdraw or retract it.

The numeral 16^a designates a partition secured to the back plate and serves as a guide to hold the bolt in position, and is cut away at its rear end to permit the end of a spring 17 to bear against the bolt and force it outward.

The numeral 18 designates the cover-plate of the lock, formed with a keyhole 19, and is provided with a hole 20 for the passage of a screw, by which it is secured to a boss 21 on the back plate. The outer end of said cover-

plate is provided with a tongue 23, which is bent inwardly and then rearwardly, forming a flange 24, to which is secured a rectangular plate 25, which closes the opening in the front rim of the lock.

In use when the sash is lowered the tapering lugs at the front end of the bolt will engage with the apertures in the plate or strip secured to the window-frame, and thus prevent the sash from being raised. By reason of the taper given to said lugs they will fit tightly in the apertures, and thus securely hold the sash against rattling. To raise the sash, the key is inserted in the lock and turned so as to retract the bolt. When raised to any position desired, the bolt will engage with the apertures in the plate and hold the sash in such raised or adjusted position.

By forming the bolt with two lugs to en-

gage with the apertures additional strength or security is given to the device against prying open of the sash.

Having thus fully described my invention, what I claim is—

The combination of a double-pointed spring-actuated V-shaped bolt end with a keeper having a series of holes to receive the points of the bolts, the stay between each pair of holes being narrow enough to be straddled by the points of said bolts, substantially as described.

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

JULIUS W. CRIGLER.

Witnesses:

OSCAR F. GUTHRIE,
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