

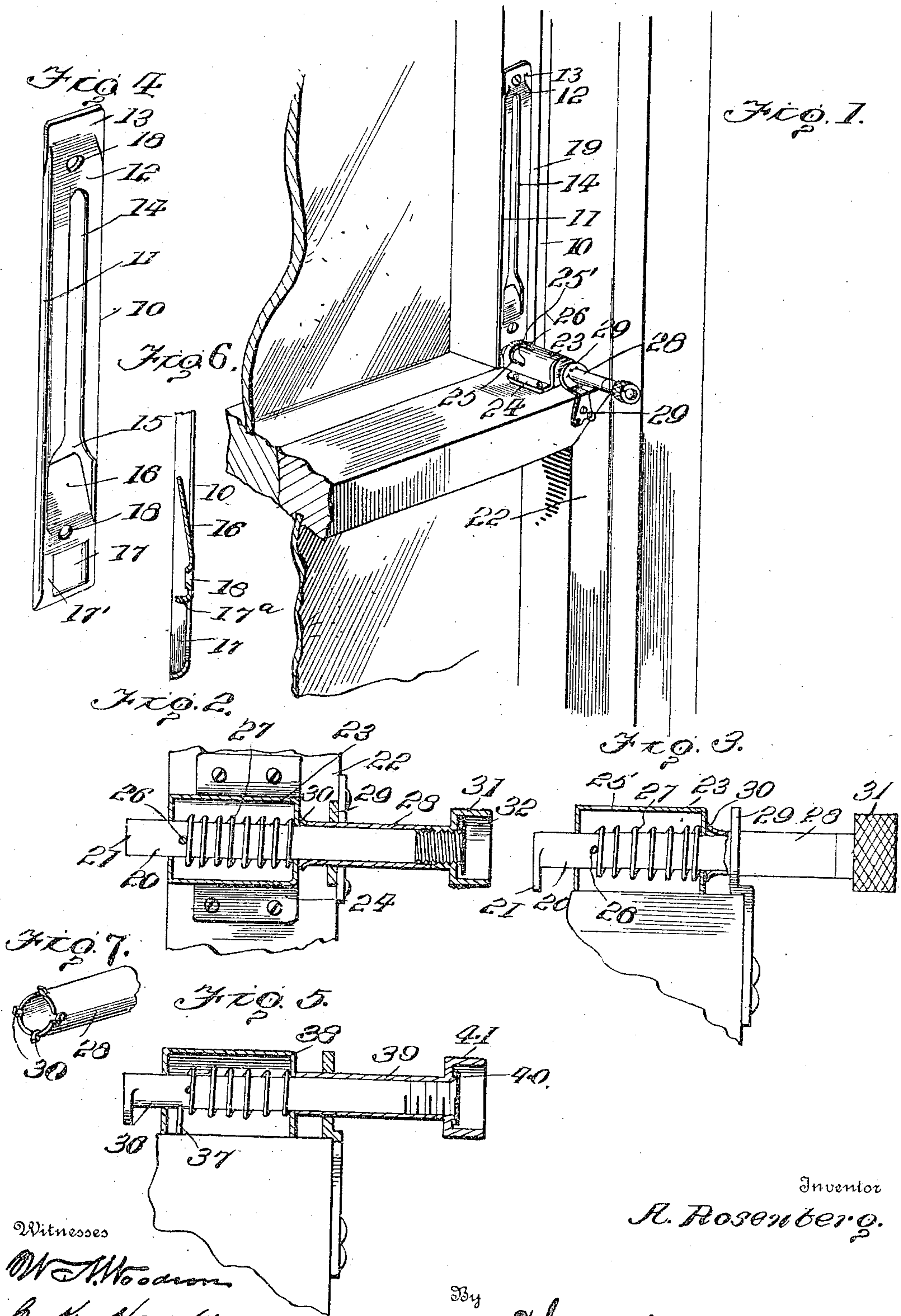
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SASH LOCK.

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SASH-LOCK.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ADOLPH ROSENBERG, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Sash-Locks, of which the following is a specification.

This invention relates to a window fastening device and refers particularly to a fastening means for securing the sashes at various heights in a locked position.

An object of this invention is to provide an attachment to be positioned upon the adjoining window sashes whereby the same will be locked to prevent access of unauthorized persons to the building and to prevent such persons from tampering with the device.

The invention further contemplates the provision of a device of this character which is of simple construction and operation and one which may be produced economically.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a detail perspective of the improved fastening means as applied to the sashes of a window. Fig. 2 is a horizontal section of the locking member employed. Fig. 3 is a vertical longitudinal section through the locking member. Fig. 4 is a detailed perspective view of the keeper. Fig. 5 discloses a vertical longitudinal section of a modified form of the locking member. Fig. 6 is a vertical section through the lower end of the keeper, and Fig. 7 is a detailed perspective of the forward end of the ferrule disclosing the lugs carried by the same.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings the numeral 10 designates a keeper which comprises a portion of metal which is preferably stamped to form side flanges 11 and an outer wall 12. The outer wall 12 is curved inwardly at its upper end as at 13 to conform to the beveled ends of the sides 11. The wall 12 is longitudinally slotted as at 14, the slot 14 being increased in width at its lower extremity to form a passage 15 for the purpose herein-

after set forth. The keeper 10 is provided with a tongue 16 which is integrally formed with the wall 12 and stamped from the same by means of which the passage 15 is formed, the tongue 16 being extended inwardly and upwardly to form a bearing surface for a locking member which is adapted to cooperate with the keeper 10. The lower end of the wall 12 is provided with a rectangular opening 17 which is also adapted to receive the locking member hereinafter described. Apertures 18 are formed through the opposite ends of the wall 12 for the reception of screws or the like to secure the keeper 10 upon the side of the sash 19. The locking member which cooperates with the keeper 10 comprises a bolt 20 which is provided with a cam head 21 which engages within the opening 17 or within the passage 15 according to the relative positions of the upper sash 19 and the lower sash 22.

The bolt 20 is mounted longitudinally in a housing 23 which is provided with lateral flanges 24 adapted to rest upon the upper face of the lower sash 22 and to be secured thereon by means of screws or the like. The housing 23 is provided with a triangularly formed slot 25 which is formed laterally in the housing 23 and which is terminated at its upper end in a longitudinal slot 25' for the reception of a pin 26 which is carried by the bolt 20 and radially extended from the forward end thereof within the housing 23. The bolt 20 is provided with a coil spring 27 which is impinged at its opposite extremities against the inner rear wall of the housing 23 and the pin 26. The bolt 20 extends rearwardly through the housing 23 and is provided with a ferrule 28 which is loosely disposed thereon and which is supported by means of a brace 29 which is extended downwardly and curved rearwardly to engage against the inner face of the rail of the sash 22 where the same is rigidly secured thereto by means of suitable screws or the like. The ferrule 28 is provided with lugs 30 upon its forward extremity adjacent the housing 23 to prevent the withdrawal of the same from the brace 29. The bolt 20 is provided with threads of a coarse pitch at its rear end over which is engaged a knurled thumb-screw 31, the thumb-screw 31 being engaged against the inner extremity of the ferrule 28 and

adapted to withdraw the bolt 20 upon the rotation of the same. The thumb-screw 31 is prevented from displacement from the bolt 20 by means of an up-set portion 32
5 formed upon the rear extremity of the bolt and positioned within the enlarged outer end of the thumb-screw 31.

In the other modification disclosed in the drawings the bolt 36 is provided with a
10 laterally extended pin 37 which is adapted to engage against the upper wall of the housing 38 which is disposed thereabout and thereby limit the rotation of the bolt 36 through any operation of the same. The
15 rear extremity of the bolt 36 is threaded to receive in threaded engagement a ferrule 39 which is prevented from detachment therewith by means of an upset portion 40 formed at the rear extremity of the bolt 36.
20 A knurled finger engaging member 41 is positioned upon the rear end of the ferrule 39 and extended loosely over the upset portion 40.

The operation of the preferred form is as
25 follows: The keeper 10 is positioned on one side of the upper sash 19 adjacent the lower end upon the inner face of the same while the locking member is secured through the medium of the housing 23 and flanges 24
30 upon the upper face of the rail of the sash 22 in alinement with the keeper 10. When the sashes 19 and 22 are closed, the cam head 21 is disclosed in opposite relation to the opening 17 and by rotating the thumb-
35 screw 31 the bolt 20 is rotated within the limitations of the pin 26 in the slot 25 to bring the cam end of the head 21 into engagement against the inner face of the flange 17' which is formed on the wall 12
40 adjoining the opening 17. This arrangement prevents the displacement of the cam head 21 should any attempt be made to force the sashes past one another. When it is desired to clamp the windows tightly against
45 one another the knurled nut 31 is rotated to the right in order to draw the bolt 20 inwardly, causing the pin 26 to ride within the slot 25 and to thereby engage the cam head 21 against the inner wall of the flange
50 17' and to thereby draw the keeper 10 and the housing 23 toward one another where they are held in such engagement by means of the impinging of the thumb nut 31 against the ferrule 28.

The second modification disclosed in the drawings sets forth a construction which admits of the partial rotation of the bolt 36 in order to engage the head thereof against the flange 17', the limited rotation being
60 effected through the medium of the pin 37 which is caused to strike against the inner face of the top of the housing 38 upon its opposite sides according to the direction in which the bolt 36 is rotated. The hand en-
65 gaging member 41 which is loosely mounted

over the end of the bolt 36 and rigidly secured to the ferrule 39 is rotated to cause the feeding of the bolt 36 backwardly within the ferrule 39 to withdraw the same through the housing 38 and thereby clamp the keeper
70 10 adjacent the housing 38 to prevent the window sashes from rattling. The brace 29 is employed in each instance so as to prevent the prying upward of the housing 23, the brace 29 being secured against the inner face
75 of the rail of the lower sash 22, being thus positioned so as to prevent access to the screws retaining the same. The lugs 30 which are carried by and integrally formed upon the ferrule 28 serve the purpose of re-
80 taining the ferrule 28 in place upon the bolt 20 and within the brace 29 adjacent the housing 23.

It will be noted in the construction of the keeper that a shoulder 17^a is formed across
85 the edge of the wall 12 adjacent the opening 17 against which the cam head 21 is engaged when the sashes are retained in a locked position. In conjunction with the shoulder 17^a the flange 17' is formed which extends
90 over the opening 17 and receives the offset portion of the cam head 21 to retain the device in a locked position. The shoulder 17^a is formed by the stamping of the wall 12
95 with a tongue which extends into the opening 17 and which is bent backwardly at right angles to form the shoulder against which the cam head 21 is engaged.

Having thus described the invention what is claimed as new is—

1. A window fastener including a keeper, a housing disposed adjacent said keeper upon a window sash, a bolt disposed through said housing for co-action with said keeper, said bolt being rearwardly extended from
105 said housing, and a brace adjustably carried upon the extension of said bolt for engagement against the inner edge of the sash rail.

2. A window fastener including a housing, flanges laterally extending from said hous-
110 ing for engagement upon the upper face of the rail of a sash, a bolt rotatably and slidably mounted in said housing and extended from the opposite ends thereof, a cam head formed on the outer end of said bolt, said
115 housing having a triangularly formed slot in the side thereof and terminated at its upper apex in a longitudinal slot, a pin carried by said bolt for engagement in the slots to regulate the movement of said bolt, a spring dis-
120 posed about said bolt between said pin and the inner wall of said housing, a ferrule loosely disposed about the inner ends of said bolt, a brace loosely disposed about said ferrule and depended therefrom for engage-
125 ment against the inner edge of the rail of the sash, and a thumb screw threadedly engaged in the inner end of said bolt against said ferrule.

3. A window casing including a housing 130

for engagement upon a sash rail, a bolt slid-
ably engaged through said housing, a ferrule
loosely disposed about the inner end of said
bolt, lugs formed upon the end of said fer-
rule for engagement with the housing, a
5 thumb screw located upon the inner end of
said bolt to retract the same, and a brace
adjustably carried by said ferrule for en-

gagement against the inner edge of the sash
rail.

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

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