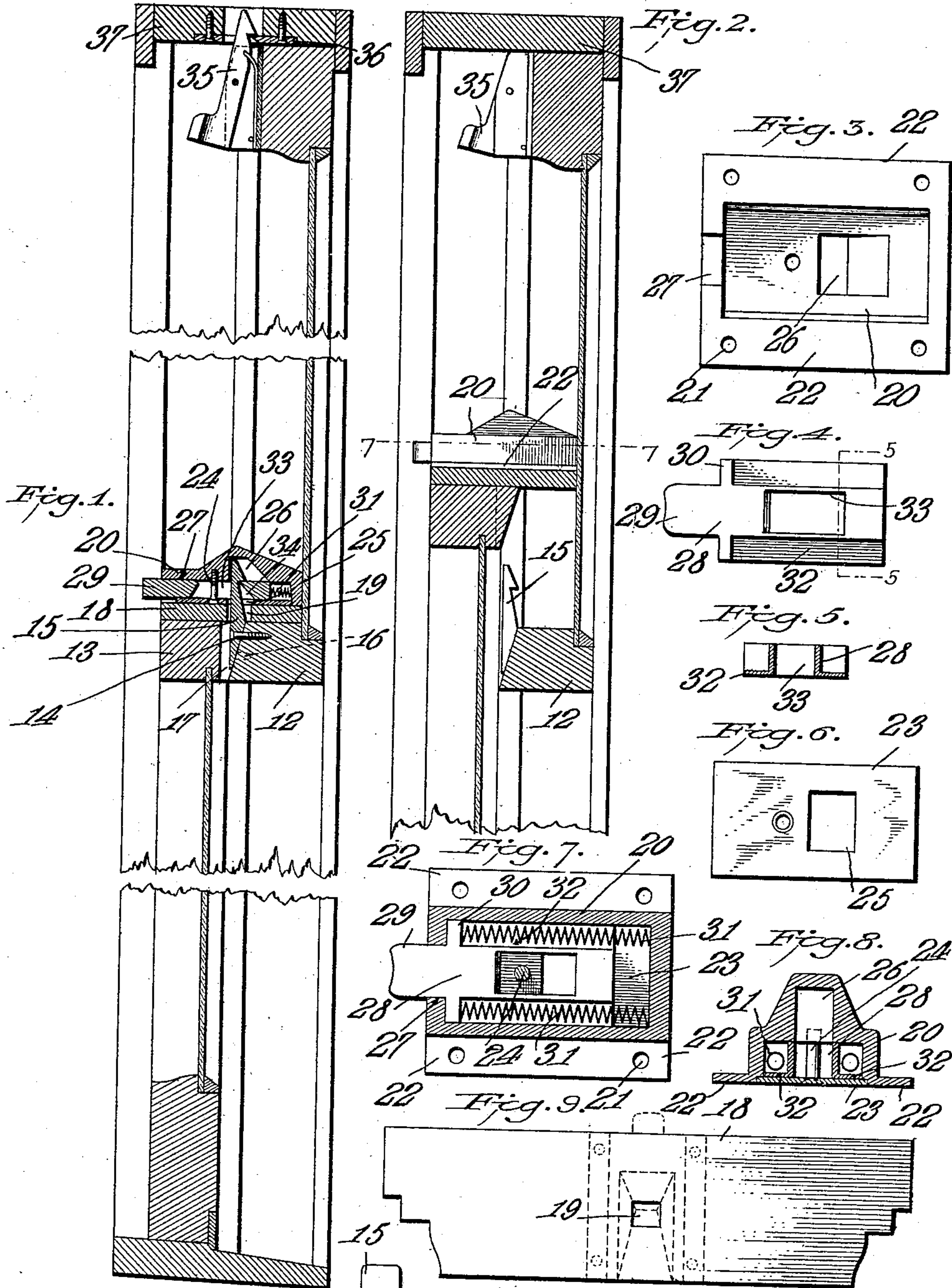


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SASH FASTENER.

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910,709.

Patented Jan. 26, 1909.



WITNESSES

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PATRICK MULROONEY, OF DENVER, COLORADO, ASSIGNOR OF ONE-HALF TO JAMES H. O'NEILLE, OF DENVER, COLORADO.

SASH-FASTENER.

No. 910,709.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PATRICK MULROONEY, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented a new and useful Sash-Fastener, of which the following is a specification.

This invention relates to that class of sash-fasteners which are carried by the meeting-rails of the sashes, and characterized by a catch on one of said meeting rails, and a keeper for said catch on the other meeting rail; the object of the present invention being to provide a fastener of this kind which is simple in structure, and easy to operate, and also one which will securely fasten the sashes together.

With these objects in view, the invention consists in a novel combination and arrangement of parts to be hereinafter described and claimed, reference being had to the drawing hereto annexed in which—

Figure 1 is a vertical sectional view of the window and fastener, the latter being shown in locking position. Fig. 2 is a similar view showing the fastener unlocked, and the lower sash raised, the section being taken in a different vertical plane to that of the preceding view. Fig. 3 is a bottom plan view of the keeper casing. Fig. 4 is a plan view of the keeper. Fig. 5 is a section on the line 5—5 of Fig. 4. Fig. 6 is a plan view of the bottom plate of the keeper casing. Fig. 7 is a section on the line 7—7 of Fig. 2. Fig. 8 is a transverse section of the keeper and its casing. Fig. 9 is a plan view of the strip whereby the keeper casing is secured to the meeting-rail of the sash. Fig. 10 is a face view of the catch.

Referring more particularly to the drawing, 12 denotes the meeting-rail of the upper sash, and 13 the meeting-rail of the lower sash. To that face of the rail 12 which abuts against the rail 13, is secured by a screw or other suitable fastening means 14, a hook-shaped catch 15. From the attaching portion of the catch project studs 16 which are driven into the rail 12, whereby the catch is more securely fastened thereto. The adjacent face of the rail 13 has a recess 17 through which the catch passes to and from the keeper. To the top of the rail 13 is fastened a strip 18 to which the keeper casing is secured. This strip has an opening 19

through which the catch enters the keeper casing.

The keeper casing is indicated by the reference numeral 20. It is secured to the strip 18 by screws or other suitable fastening means passing through openings 21 in flanges 22 projecting from opposite sides of the casing. The bottom of the casing is fitted with a removable plate 23 which is mortised therein so as to extend flush with the bottom of the flanges 22. This bottom plate is secured by a screw 24 which projects through the interior of the casing and is screwed into the top thereof. The plate 23 has an opening 25 which registers with the opening 19. The interior of the casing is enlarged as indicated at 26 to accommodate the head of the catch. In the front wall of the casing is a contracted opening 27 communicating with the interior thereof.

The keeper comprises a block 28 slidably mounted in the casing 20, and extending at its front end through the opening 27 to the outside thereof, as indicated at 29, and adjacent to said end, the block has laterally-directed shoulders 30 which are adapted to abut against the front wall of the casing to prevent withdrawal of the block therefrom. Between these shoulders and the rear wall of the casing are interposed springs 31 for yieldingly holding the keeper in locking position. From the sides of the block, at the bottom thereof, project flanges 32, the outer ends of which extend up to the side walls of the casing, and serve to guide the movement of the block therein. In the block is an opening 33 through which the catch is adapted to pass, said catch when in locking position engaging over the top edge of said opening at one end thereof. The wall of the opening at this end is beveled as indicated at 34 in order that the keeper may automatically come into locking engagement with the catch.

The operation of the fastener will be apparent from the foregoing description, but it may be summarized as follows: Upon closing the lower sash, the catch 15 passes through the recess 17, and the openings 19 and 25 into the keeper casing, and upon striking the beveled wall 34 it pushes the keeper outwardly. When the hook of the catch clears the opening 33, the springs 31 force the keeper into locking position, the head of the catch then

extending into the enlargement 26. To release the catch, the keeper is pushed inwardly by pressing on the projecting end 29, whereby it is disengaged from the catch, and the sash can then be opened.

It will be seen from the foregoing that the locking of the sashes is automatic, and the unlocking thereof is readily effected, a push on the projecting end of the keeper being all that is necessary. The device can be readily applied to the sashes, it has no complicated parts to get out of order, and as it is simple in construction it can be cheaply produced.

The parts are assembled as follows: The strip 18 is first secured to the meeting-rail 13 in any suitable manner. The keeper and its spring is then placed in the keeper casing, and the bottom plate 23 is secured, after which the keeper casing is secured to the strip 18. The catch 15 is secured to the meeting-rail 12 in the manner already stated.

On the top rail of the upper sash is mounted a spring pressed pivoted catch 35 which engages the edge of a plate 36 let into the head 37 of the sash-frame, the plate and head having an opening through which the catch passes into locking position.

What is claimed is:

1. A sash-fastener comprising a catch secured to one of the sashes, a casing mounted on the other sash, and having an opening which is in alinement with the catch, and a

sliding keeper for the catch, mounted in the casing.

2. A sash-fastener comprising a catch secured to one of the sashes, a casing mounted on the other sash, and having an opening which is in alinement with the catch, and a sliding keeper for the catch mounted in the casing, said keeper comprising a block having an opening to receive the catch, shoulders on opposite sides of the block, and springs interposed between said shoulders and the opposite wall of the casing.

3. A sash-fastener comprising a catch secured to one of the sashes, a casing mounted on the other sash and having an opening which is in alinement with the catch, a sliding keeper for the catch mounted in the casing, said keeper comprising a block having an opening to receive the catch, shoulders on opposite sides of the block, springs interposed between said shoulders and the opposite wall of the casing, and flanges projecting from opposite sides of the block at the bottom thereof, and engageable at their outer ends with the adjacent walls of the casing.

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

PATRICK MULROONEY.

Witnesses:

JAMES H. ONEILL,
JOHN H. EDWARDS.