March 30, 1937. A. R. AMUNDSON 2,075,691

WINDOW STOP

Filed April 5, 1934

Fig. 1.

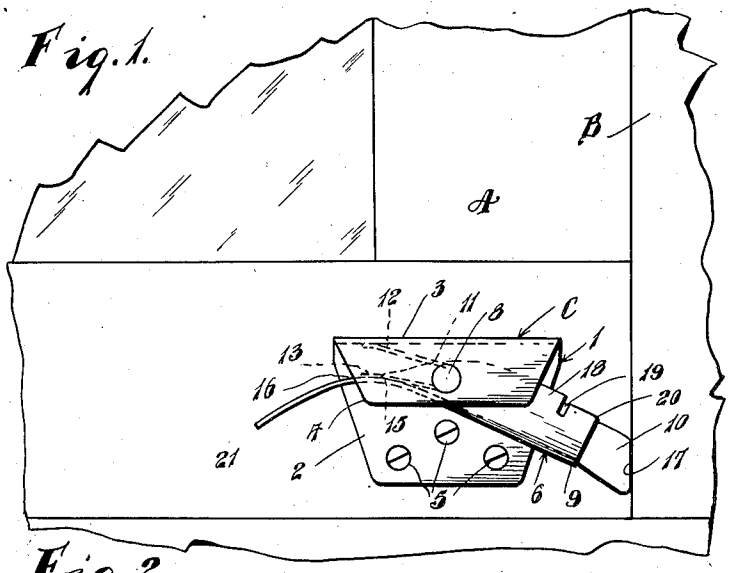


Fig. 2.

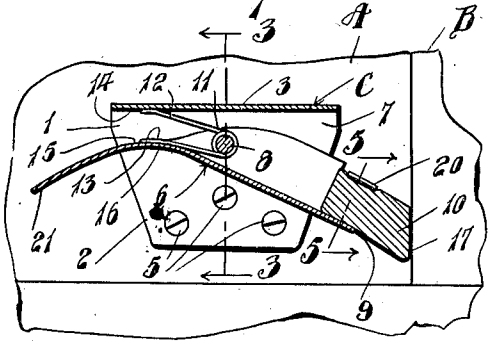


Fig. 3.

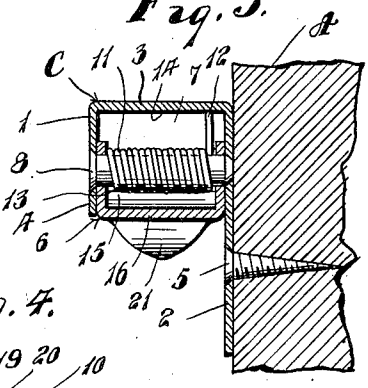


Fig. 4.

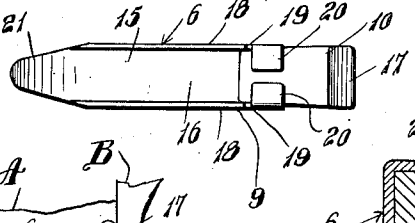


Fig. 5.

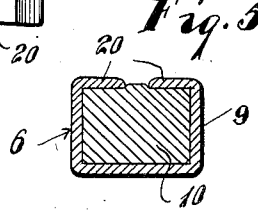
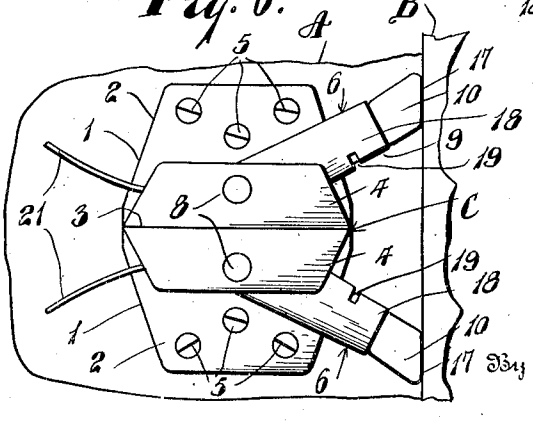


Fig. 6.



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Patented Mar. 30, 1937 2,075,691

UNITED STATES PATENT OFFICE

2,075,691

WINDOW STOP

Alfred R. Amundson, Superior, Wis.

Application April 5, 1934, Serial No. 719,191

1 Claim. (Cl. 292—228)

This invention relates to new and useful improvements in window stops and locks.

One object of my invention is to provide a window stop and lock that may be easily and readily applied to any of the four corners of the window sash and whereby the latter may be automatically held in place in any desired position.

A further object of my invention is to provide a window stop and lock that may be used as a substitute for spring bolts, sash weights and other expensive devices now commonly used to hold window sashes in raised or lowered position for ventilation purposes.

A still further object of my invention is to provide a simple and inexpensive window stop and lock that may be easily and readily installed without expensive alterations or re-modeling.

With the foregoing and other objects in view that will appear as the nature of my invention is better understood, the same consists in the novel features of construction, combination and arrangement of parts illustrated in the accompanying drawing and more particularly pointed out in the appended claim.

In the accompanying drawing, which is for illustrative purposes only and is therefore not drawn to scale:

Figure 1 is a side elevation, illustrating the application of my invention.

Figure 2 is a central vertical longitudinal section of the window stop and lock per se.

Figure 3 is a vertical transverse section, taken on line 3—3 of Figure 2.

Figure 4 is a detail plan view of the catch.

Figure 5 is an enlarged detail transverse sectional view of the catch, and Figure 6 is a view similar to Figure 1, showing a double safety stop and lock.

Referring to the drawing for a more particular description of my invention and in which drawing like parts are designated by like reference characters throughout the several views, A designates the window sash, B the window frame or casing and C my improved window stop and lock.

Specifically, the window stop and lock comprises the supporting bracket 1, consisting of the inverted triangular-shaped side portion 2, horizontal outwardly extending top portion 3 and depending flange 4. The flange 4 extends from and below the outer edge of the top portion 3 of the supporting bracket and is disposed in parallel and spaced relation with the upper end of the side portion 2 of the latter. The lower end of the side portion 2 is secured to one corner of the window sash A, by the fastening screws 5 or other equivalent means.

A horizontally disposed catch 6, of approximately U-shape form in cross section, is pivoted at its inner end in the channel 7, formed at the upper end of the supporting bracket 1, by the transverse pin 8. The outer end 9 of the catch 6 extends somewhat beyond the adjacent side or edge of the supporting bracket and is provided with a rubber tip 10 adapted to engage the edge of the window casing. The catch 6 is normally held at a downward inclination by the coil spring 11, which is disposed around the pivot pin 8, with its opposite ends 12 and 13 engaging the bottom face 14 of the top portion 3 of the supporting bracket and the upper face 15 of the bottom portion 16 of the catch, respectively. The rubber tip 10 is formed with a beveled outer end 17 and is clamped in the outer end of the channeled catch 6 by slitting the outer edges of the side walls 18 of the catch, as at 19, and bending the resultant tongues or lips 20 inwardly against the upper edge and inner end of the tip. The outer end of the catch 6 is provided with a downwardly curved finger piece 21 to facilitate the easy and quick release of the tip of the catch with the edge of the window casing B when it is desired to open or close the window or adjust the same to a different position, as the case may be.

By reversing the catch, the device may be changed from a right hand to a left hand stop and lock, or vice versa, and by turning the left hand stop upside down and mounting the same on the right hand stop, as illustrated in Figure 6 of the drawing, a double safety stop and lock is provided.

From the foregoing description taken in connection with the drawing, it is thought that the construction, operation and advantages of my invention will be readily understood without requiring a more extended explanation.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:

In a device of the character specified, a supporting bracket comprising a side portion and flat horizontal outwardly extending top portion formed at its outer edge with a depending flange, a central transverse pin extending through the depending flange and side portion of the supporting bracket, a downwardly inclined catch of approximately U-shape form in cross section, pivoted at its inner end to said pin, a rubber

tip carried by the outer end of the catch, a coil spring disposed around said pin for normally holding the rubber tip in engagement with the window casing and a curved finger piece formed at the inner end of the catch for releasing the tip from engagement with the window casing against the action of said spring, said coil spring arranged with its opposite ends engaging the inner face of the top portion and the upper face and inner end of the finger piece, respectively.

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