Oct. 24, 1950 R. J. RILEY 2,527,032

SASH HOLDER

Filed Nov. 10, 1947

Fig. 1

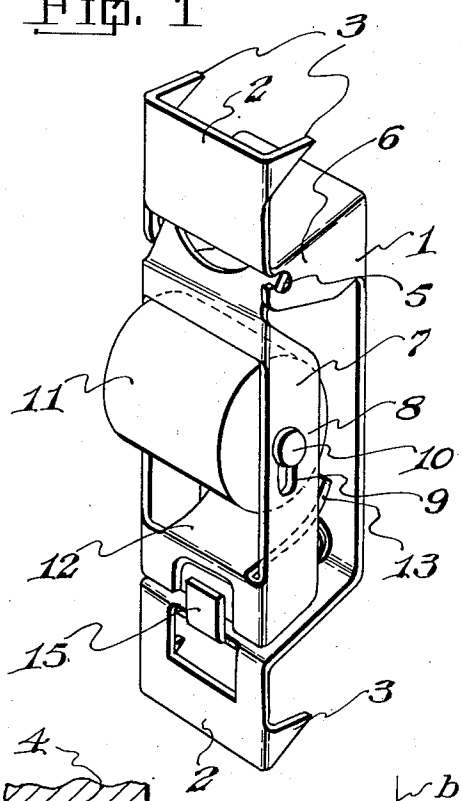
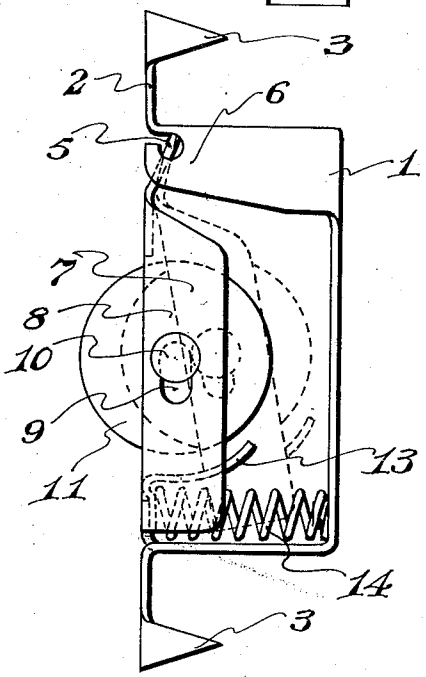


Fig. 2



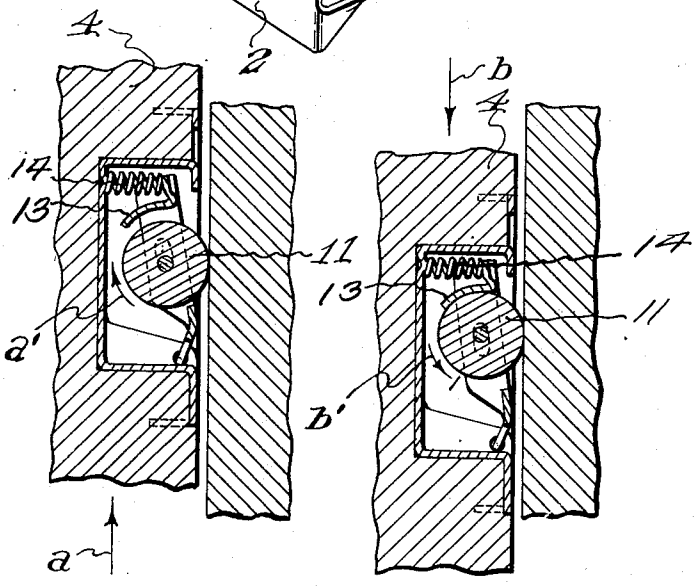


Fig. 3

Fig. 4

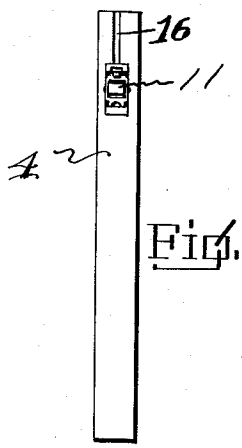


Fig. 5

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SASH HOLDER

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1 Claim. (Cl. 292—79)

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The invention relates to sash holders, and has for its object to provide a holder which may be mounted in the side of a window sash, or the side of a window frame, and comprises a spring actuated friction roller engaging an adjacent part, and mounted in a manner whereby the roller will freely rotate when the sash is raised, but will provide a snubbing action, at least equal to the weight of the sash, when the sash is stopped in its upward movement, until a manual downward pull is imparted to the sash for overcoming the snubbing action.

A further object is to provide a sash holder comprising a frame having a hinged roller carrying member therein; the free end of which is normally spring pressed towards a surface, and the hinged frame provided with a compressible roller for engaging the surface, said roller having limited floating movement whereby it will freely rotate upon upward movement of the sash and will be distorted upon stopping of the sash in its upward movement by a snubbing action until manual pressure, downwardly, is added to the weight of the sash.

With the above and other objects in view the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawing, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawing:

Figure 1 is a perspective view of the sash holder, showing the position of the device when applied to the window frame between the inside and parting strip.

Figure 2 is a side elevation of Figure 1.

Figure 3 is a vertical longitudinal sectional view through the sash holder showing the device in inverted position when applied to a sash, and showing the position of the parts during the upward movement of the sash.

Figure 4 is a view similar to Figure 3, showing the snubbing action when the sash is stopped in its upward movement, and when the sash is being pulled downwardly, manually.

Figure 5 is a side elevation of a sash, showing the device applied thereto.

Referring to the drawing, the numeral 1 designates a substantially rectangular shaped casing, having upwardly and downwardly extending flanges 2 provided with prongs 3, adapted to be embedded in the sides of the sash 4, as shown in Figures 3 and 4. In the following description,

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one sash holder is shown and described. However it is understood they may be applied to both sides of the sash.

It should be kept in mind that when the device is applied at a stationary point on the side of a window frame it is inverted in relation to its position when mounted on the side of a window sash, as shown in Figures 3 and 4.

Hingedly mounted within the casing 1 on lugs 5 in bearings of flanges 6 is a roller carrying frame 7. Roller carrying frame 7 is preferably stamped from a single piece of metal to form side roller guide members 8 having vertical elongated bearings 9 for the pintles 10 of the snubbing roller 11. The snubbing roller 11 is preferably formed from a resilient material, such as rubber, for the purpose hereinafter set forth.

Extending inwardly from adjacent the lower ends of the side members 8 is a snubbing flange 12 having a flange 13 extending concentric with the periphery of the roller, and in one movement of the sash it grips one side of the roller, as shown in Figure 4, for the sash holding operation.

Roller carrying frame 7 is normally forced outwardly at its free end by an expansion spring 14 and is limited in its outward movement by the struck out lug 15 carried by the casing 1.

Referring to Figures 3 and 4, wherein the device is applied to the sash 4, it will be seen that when the sash is raised manually in the direction of the arrow *a* that the roller will freely rotate in the direction of the arrow *a'*. Therefore it will be seen that it will only be necessary for the operator to overcome the weight of the sash 4. When the upward push is relieved from the sash, the sash moves downwardly slightly and the roller engages the snubbing flange 13, and this snubbing action, in combination with the expansive action of the spring 14, is sufficient to maintain the sash in adjusted position. When it is desired to lower the sash in the direction of the arrow *b*, Figure 4, a downward pull is imparted on the sash 4 sufficient to overcome the snubbing action and the expansive action of the spring 4, and then the sash will move downwardly, rotating the distorted roller 11 in the direction of the arrow *b'*.

When the device is applied to the window frame it is inverted as shown in Figures 1 and 2; however when applied to the sash, it is in the position shown in Figures 3 and 4. In applying to the sash, the device is preferably placed at the lower end of the sash cord groove 16, as shown in Figure 5; however applicant does not limit himself in this particular.

From the above it will be seen that a sash holder

is provided, which is simple in construction, the parts reduced to a minimum, and one which will positively hold the sash to any position adjusted, and at the same time the use of weights and sash cords are obviated.

The invention having been set forth what is claimed as new and useful is:

A sash holder disposed in one side of a sash and adapted to cooperate with a side of a window frame, said sash holder comprising a vertically elongated chambered casing having an open front, opposite short side walls carried by the lower end of said casing and extending to the front of the casing, a hinged frame having its lower end hingedly mounted in the side walls of the casing adjacent the open front of the casing, said hinged frame extending upwardly and terminating adjacent the upper end of the casing within the casing chamber, a vertically slidable roller within the hinged frame and mounted thereon and movable radially in relation to the hinge point of the hinged frame and adapted to engage a window frame side, said hinged frame being open at its forward side adjacent the open front of said housing and through which forward side and open front the roller extends, a roller engaging plate carried by the free end of the hinged frame and concentric to the axis of the roller when they engage, said concentric plate being struck inwardly from the forward side of the hinged frame and adjacent its free end and curving inwardly and downwardly and terminating to the rear of the axis of the roller, an expansion spring interposed between the free end of the hinged frame and a rear portion of the casing and disposd above the concentric plate, said spring normally forcing said free end of the hinged frame outwardly through the open front of the casing and means for limiting the outward movement of the hinged frame.

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