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2,490,992

SASH HOLDER

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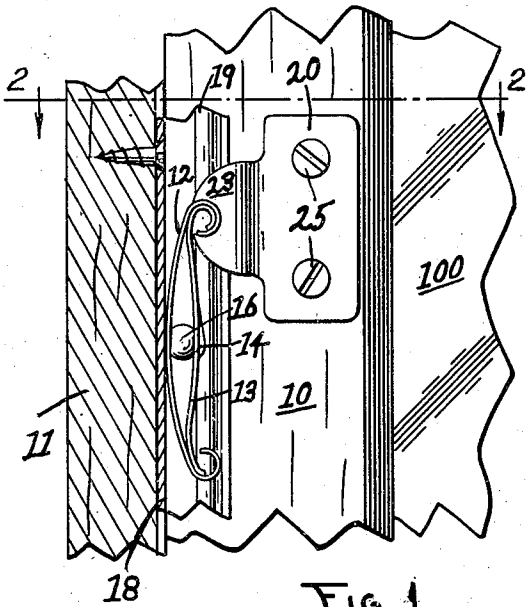


FIG. 1.

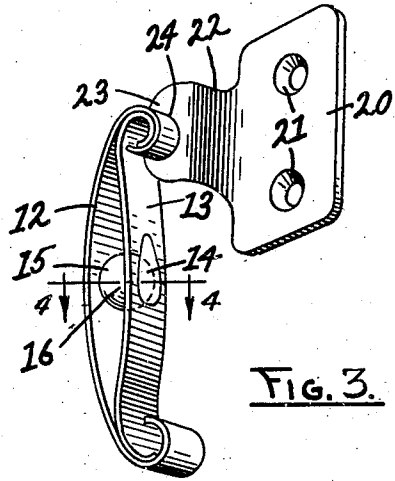


FIG. 3.

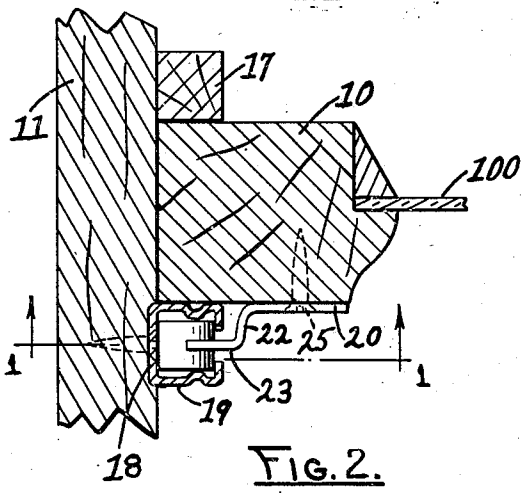


FIG. 2.

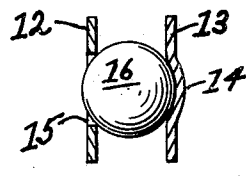


FIG. 4.

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SASH HOLDER

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3 Claims. (Cl. 292-75)

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The present invention relates to sash holders and more particularly to a device for retaining a vertically slidable window sash in a given selected elevated position.

The primary objects of the instant invention are to provide a device of the general character above indicated, the use of which dispenses with the necessity of employing sash weights; to provide such a device, the use of which enables one to raise and lower a window sash with ease and without undue exertion; to provide such a device which is highly efficient in its intended use; to provide such a device which is simple yet rugged and sturdy in construction; to provide such a device which may be readily and conveniently installed and which is universally adaptable for use in any vertically slidable window sash; and, to provide such a device which is reasonably economical in manufacture.

An illustrative embodiment of the invention is shown in the accompanying drawing, wherein:

Figure 1 is a fragmentary rear elevational view of a window frame and sash and the device of the instant invention secured to the sash, the view being on line 1-1 of Figure 2;

Figure 2 is a sectional view on line 2-2 of Figure 1;

Figure 3 is a perspective view of the device; and

Figure 4 is an enlarged sectional view on line 4-4 of Figure 3.

Referring then to the drawings wherein like parts of the device shown and its environmental structure are designated by the same numerals in the several views, a window sash 10 and its pane 100 vertically slidable in the casing or frame 11 may be retained in a given selected elevated position by means of a pair of devices of the instant invention each of which comprises oppositely disposed elongated springable members 12, 13 of any suitable material such as spring metal whose opposite ends are curled for maintaining them one adjacent the other, all as best shown in Figures 1 and 3.

The member 13 is provided with a well 14 on its inner surface intermediate its ends whereas the member 12 is provided with an aperture 15 in registration with the well 14 and a ball bearing 16 interposed between the members 12, 13 is seated in the well 14 and has a portion thereof projecting through the aperture 15.

The opposite sides of the window frame or casing 11 are each provided with a forward vertically disposed elongated sash guide 17 and with a rearward vertically disposed elongated channel

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bar sash guide 18 in spaced parallel relationship to its companion sash guide 17, the lengths of the legs 19 of each channel bar 18 being here shown as inwardly embossed and flanged inwardly toward each other, all as best seen in Figure 2.

A bracket generally designated 20 provided with a pair of spaced screw receiving apertures 21 having a flanged intermediate portion 22 and an outwardly flanged end portion 23 provided with a partial circular cut out opening 24 adjacent its outer end, is secured to each upper outer vertical length of the window sash 10 by screws 25, all as best viewed in Figures 1 and 2.

The curled ends of the springable members 12, 13 are seated within the cut out opening 24 of the bracket 20 and from which they are pivotally suspended, all as best shown in Figures 1-3, their depending lengths riding within the channel bar 18 during the raising and lowering movement of the window sash 10.

The opposite curled ends of the springable member 12 tensionally bear against the inwardly flanged portions of the legs 19 of the channel bar 18 and that portion of the ball bearing 16 which projects through the aperture 15 of the springable member 12 tensionally bears against the inner surface length of the medial portion of the channel bar 18 during the raising and lowering of the window sash 10, all as best shown in Figures 1 and 2, the springable members thus effecting a tensioned retention of the sash in any given selected elevated position.

It will thus be seen that the sash holder herein shown and described dispenses with the necessity of employing sash weights, that the use of a pair of such sash holders enables one to raise and lower the sash with ease and without undue exertion, that the device is highly efficient in its intended use, that the device is simple yet rugged and sturdy in construction and may be readily and conveniently installed, is universally adaptable for use in any vertically slidable window sash and is reasonably economical in manufacture.

While but one specific embodiment of the invention has been herein shown and described, it will be understood that certain details of the construction shown may be altered or omitted without departing from the spirit of the invention as the same is defined in the following claims.

I claim:

1. A window sash holder comprising a pair of bowed oppositely disposed elongated springable members whose opposite ends are secured to-

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gether for maintaining them one adjacent the other, a well on the inner surface of one member intermediate its ends, said other member having an aperture in registration with the well, a ball bearing seated in the well and having a portion thereof projecting through the aperture, and means secured to the members for securing the window sash holder to a window sash.

2. A window sash holder comprising a pair of bowed oppositely disposed elongated springable members whose opposite ends are secured together for maintaining them one adjacent the other, a well on the inner surface of one member intermediate its ends, said other member having an aperture in registration with the well, a ball bearing seated in the well and having a portion thereof projecting through the aperture, and a bracket secured to one end of the members for securing the window sash holder to a window sash.

3. A window sash holder comprising an elongated track adapted to be vertically secured to a window frame adjacent a vertically movable win-

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dow sash, a bracket adapted to be secured to the window sash, a pair of bowed oppositely disposed elongated springable members whose opposite ends are secured together for maintaining them one adjacent the other, a well on the inner surface of one member intermediate its ends, said other member having an aperture in registration with the well and a ball bearing seated in the well and having a portion thereof projecting through the aperture, said pair of springable members being secured to said bracket and dependingly slidable on a length of the track.

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The following references are of record in the file of this patent:

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