Feb. 7, 1928. 1,658,656

J. H. SARGENT

WINDOW SASH

Filed March 30, 1927

Fig. 1.

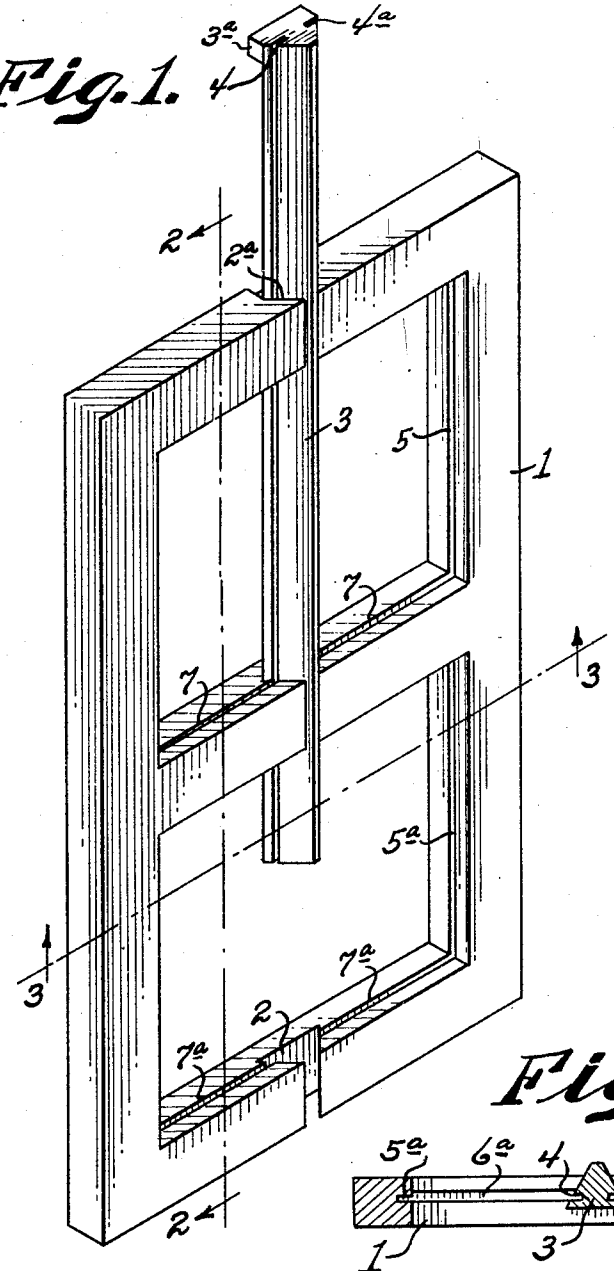


Fig. 2.

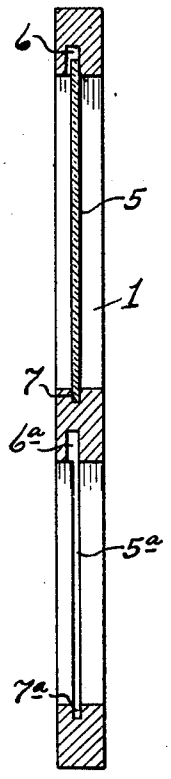
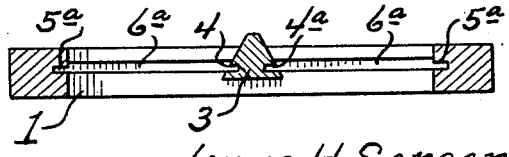


Fig. 3.



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WITNESS:

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UNITED STATES PATENT OFFICE.

JAMES H. SARGENT, OF WALNUT, MISSISSIPPI.

WINDOW SASH.

Application filed March 30, 1927. Serial No. 179,604.

My invention relates to an improved form of window sash permitting the several panes of glass forming the lights for the sash to be assembled so as to seal them in their grooves firmly and to permit ready withdrawing of the panes when they require washing.

In carrying out the invention I form a rectangular sash of the usual form with plural openings, and provide a transverse guide to admit a sliding grooved rail snugly fitting the several panes so as to anchor them snugly in their places, so that in assembling the several panes may be mounted in their grooves in pairs and locked by the grooved rail.

The invention, therefore, provides a sash which dispenses with the use of putty or cement to lock the lights in position. My invention also consists of a window sash with multiple lights locked in position by a grooved transverse rail engaging the edges of adjacent lights to securely anchor them in the sash. It comprises also more specific features, the novelty of which will be hereinafter described and definitely indicated in the accompanying claim.

In the drawing illustrating my invention:

Figure 1 is an isometric projection of a window sash and accompanying grooved slide rail.

Figure 2 is a vertical cross section of a sash in the plane indicated at 2—2 in Figure 1.

Figure 3 is a transverse section on the plane 3—3 of Figure 1.

Referring now in detail to the drawing, 1 represents a sash which may be made of wood or metal, but as shown is formed of wood, the vertical and transverse sides of which are grooved to admit sliding the panes of glass therein to seat them in position. The frame is mortised or otherwise provided with polygonal grooves 2, 2^a to permit a grooved rail 3 having longitudinal grooves 4, 4^a to slide snugly at the sides of the panes of glass or lights 5, 5^a. The top and bottom grooves accommodating the panes permit the latter to be slid in sidewise and then locked by pushing down the slide rail. The upper groove on each pair of panes is wider, as indicated at 6, 6^a, to permit easy assembly of the several lights. The bottom grooves 7, 7^a fit the panes snugly so that when in position an anti-rattling joint will be afforded. Similarly, the grooves 4, 4^a in the sliding rail form a snug sliding fit so that as they are pushed over the panes in assembly a snug fit will be afforded.

One end of the rail, as for example the upper end 3^a, is provided with a rectangular offset adapted to fit snugly in a corresponding recess adjacent to the top of the sash so that when pushed its entire length into the frame a snug appearance will be presented and the lower end of the rail will be substantially flush with the bottom of the sash.

I have shown in the drawing but a single pair of lights, two in the upper half of the sash and two in the lower half, but it will be evident that the invention is not limited to any number of lights as a plurality of rows and a plurality of lights in each row may be accommodated without departing from the spirit of the invention.

In assembling the rail is withdrawn and the panes are successively applied by inserting into the top enlarged groove the upper edge and sliding it laterally into place in the respective upper and lower grooves. The other pane is similarly applied and the rail is lowered so as to lock them in position, during which the side grooves 5, 5^a form a snug sliding fit with the sides of the window pane and snugly seat it in its grooves. The lower panes are similarly applied and the rail pushed down so as to lock it in position, bringing its bottom into register with the bottom mortise 2 in the frame and when fully pushed home the offset 3^a nests in the recess formed in the top of the sash and forms a neat joint.

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

A window sash having transverse grooves at the top and bottom for each pane of glass, a grooved rail adapted to slide in the top rail and secure the panes forming the sash into a plurality of light openings, and recesses in the sash to guide the grooved rail to lock the panes in position, said rail successively engaging the edges of the panes and locking them snugly in position and having an offset at the top to assist withdrawal.

In testimony whereof I affix my signature.

JAMES H. SARGENT.