

[54] **AUTOMATIC FRICTION SASH HOLDER**

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[58] **Field of Search** ..... 49/429-431, 49/433-435, 414, 415, 417, 445, 421, 423, 444, 437, 438, 442, 457, 446; 16/193, 197

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

2,352,171	6/1944	Anfinson .	
2,651,535	9/1953	Padjen .	
2,913,781	11/1959	Czubachowski .	
3,007,194	11/1961	Griswold .	
3,407,434	10/1968	Scott .	
3,466,806	9/1969	Teggelaar et al. .	
3,499,248	3/1970	Baer .....	49/430
3,501,867	3/1970	Scott .	
3,991,521	11/1976	Crosby .	
4,190,930	3/1980	Prosser .....	49/445 X

**FOREIGN PATENT DOCUMENTS**

249645	2/1964	Australia .....	49/430
723420	12/1965	Canada .....	49/430

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[57] **ABSTRACT**

A sash holder 10 automatically produces sash-holding friction in a resin jamb liner 12 in which the sash 11 runs. Jamb liner 12 has a track 20 in the sash plow region of each sash run 16 and 17, and track 20 is formed within parallel L-shaped edge guides 21. Sash holder 10 includes an upper component 25 connected to a balance spring 13 and a lower component 26 supporting sash 11 in its sash plow region. Overlapping surfaces 39 and 40 of components 25 and 26 form an interfering wedge that operates when the components move vertically to each other in response to spring force pulling upward against the sash weight. The interfering wedge can be arranged in several ways for pressing runners 27 and 28 against track guides 21 to produce sash-holding friction as a function of the vertical extent of the vertical movement of the overlapping surfaces.

**39 Claims, 9 Drawing Figures**

