July 7, 1931. A. T. GRANGER 1,813,157

ANTIRATTLER FOR WINDOW SASHES

Filed April 15, 1930

Fig. 1.

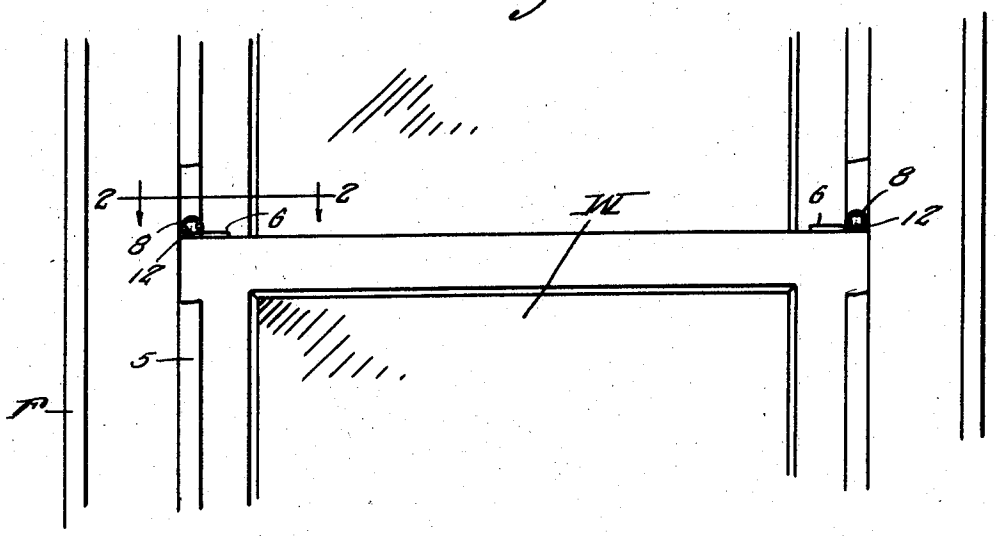


Fig. 2.

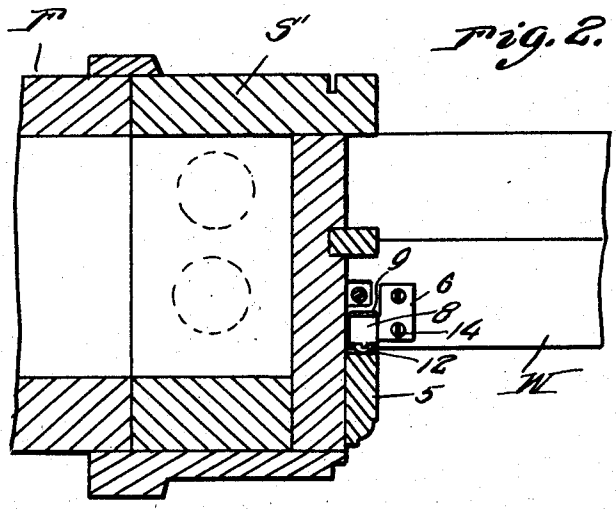


Fig. 4.

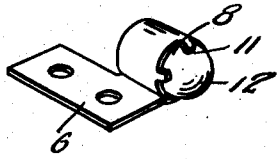


Fig. 5.

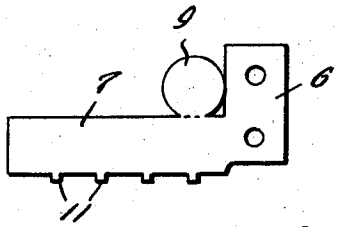
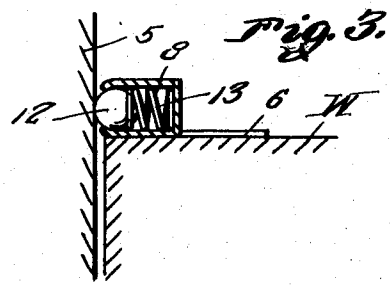


Fig. 3.



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UNITED STATES PATENT OFFICE

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ANTIRATTLER FOR WINDOW SASHES

Application filed April 15, 1930. Serial No. 444,511.

This invention relates to anti-rattler or silencing devices for window constructions and the primary object of this invention is to provide an improved anti-rattler or silencing means carried by a sliding window sash or the like and engaging the window stop for exerting a continual pressure against the window stop thereby eliminating all looseness and rattle when the window sash is in an opened or closed position.

A still further object of the invention is to provide a device of this character which is comparatively simple in construction, easy to apply, inexpensive, strong, durable, practical and otherwise well adapted for the purpose designed.

Other objects and advantages of the invention will become apparent during a study of the following description taken in connection with the accompanying drawings:

Figure 1 is a fragmentary face view illustrating a window frame containing two sliding sashes equipped with my improved device, the same being provided with the conventional window stop, the latter being shown broken away,

Figure 2 is a fragmentary detail sectional view taken substantially on the line 2—2 of Figure 1,

Figure 3 is a fragmentary detail view showing my improved device partly in section and partly in elevation,

Figure 4 is an isometric view of the device per se,

Figure 5 is a diagrammatic view illustrating the blank from which the device is made.

Referring more in detail to the drawings, it will be seen that the reference character F designates a conventional type of window frame, the side members S of which are provided with the usual window stops 5. The reference character W designates generally one of the sliding sashes mounted in the usual manner in the window frame.

The sash referred to is preferably the lower sliding sash of the window. In carrying out my invention two of the devices embodying the features of my invention are mounted on the top rail 6 of the window sash at each end of the rail for cooperation with the adjacent window stop 5.

Each of these devices is formed from a single blank of metal of substantially L-shape formation and so formed as to provide an apertured attaching flange 6 having an arm 7 extending laterally therefrom adjacent one end thereof. The arm 7 is suitably rolled inwardly toward the flange 6 to provide a cylindrical socket or housing 8. On one edge thereof adjacent the flange 6 the arm 7 has formed integrally therewith a disk like extension 9 adapted to bend upwardly at substantially right angles to the arm 7 to provide an end wall for the housing or socket 8.

On its opposite longitudinal edge, the arm 7 has a plurality of spaced spring fingers 11 projecting therefrom and adapted to be arranged in an annular series when the arm is rolled upon itself for forming the socket or housing 8. These fingers 11 are bent inwardly to engage a relatively large ball bearing 12 normally urged outwardly at the open end of the housing 8 through the medium of a coil spring 13 arranged in said housing, one end of the coil spring bearing against the end wall 9, and the other end bearing against the ball 12 as clearly suggested in Figure 3.

In actual practice, the flange 6 is bolted, screwed or otherwise secured to the top rail of the window sash by any suitable fastening means 14, inwardly from the end of the sash rail so as to position the socket or housing 8 directly opposite the adjacent window stop 5 whereby the spring pressed ball 12 will be urged against the window stop 5.

The ball 12 being so pressed against the window stop will tend to hold the sash firmly in place obviating rattling of the sash in the window frame whether the sash be in a raised or lowered position. Furthermore, it is understood that the ball 12 will be permitted a certain amount of rotative movement as to reduce friction and thus permit easy sliding movement of the sash within the frame.

Even though I have herein shown and described the preferred embodiment of my invention, it to be understood that the same is susceptible to changes fully comprehended by the spirit of the invention as herein de-

scribed, and the scope of the appended claim.

Having thus described my invention, what I claim as new is:

In an anti-rattling device for sliding window sashes, an apertured flange adapted to be secured to a rail of the window sash, an arm extending laterally from said flange and rolled upon itself to provide a cylindrical housing, a disk like projection extending at right angles to said arm for closing one end of said housing, said arm at the open end of said housing being provided with a plurality of fingers arranged in an annular series and bent inwardly toward one another, a ball partially projecting from said housing engaging said fingers and adapted to bear against a window stop, and means for yieldably projecting the ball.

In testimony whereof I affix my signature.

ALFRED THOMPSON GRANGER.